

**For information  
on 17 June 2008**

**Legislative Council Panel on Commerce and Industry**

**Strategic Framework for Innovation and Technology Development  
Progress Report on Research and Development Centres**

**Background**

At the Panel meeting held on 21 November 2006, Members were informed of the establishment of the five Research and Development (R&D) Centres (Paper ref: CB(1)278/06-07(03)) and the Administration undertook to report annually to the Panel the income and expenditure of the R&D Centres. In July 2007, Members were informed of the progress of the R&D Centres for the period April 2006 to June 2007 (Papers ref: CB(1)2088/06-07(04) and CB(1)2383/06-07(01)). This paper seeks to update Members on the progress of the R&D Centres for the period July 2007 to May 2008.

**Progress**

***Project vetting and approval***

2. The R&D projects processed by the five R&D Centres, namely the Nano and Advanced Materials Institute (NAMI), The Hong Kong Research Institute of Textiles and Apparel (RITA), the Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM), the Automotive Parts and Accessory Systems R&D Centre (APAS), and the Hong Kong R&D Centre for Information and Communications Technologies (ICT), for the period July 2007 to May 2008 and the cumulative number of projects, approved project cost and approved ITF funding are summarised in the following table:

Table 1: R&D Projects of Centres

	Type of Projects	Number of Projects Approved	Approved Project Cost (\$ m)	Approved ITF Funding (\$ m)	Number of Projects Approved	Approved Project Cost (\$ m)	Approved ITF Funding (\$ m)
		July 2007 to May 2008			Cumulative (up to May 2008)		
NAMI	• Platform	5	18.5	16.7	6	22.5	20.0
	• Collaborative	1	4.0	1.9	6	12.1	7.1
	• Contract research	4 <sup>#</sup>	2.3	--	6 <sup>#</sup>	3.0	--
RITA	• Platform	9	35.9	31.8	19	76.4	67.4
	• Collaborative	1	8.3	4.2	1	8.3	4.2
	• Contract research	2 <sup>#</sup>	0.1	--	2 <sup>#</sup>	0.1	--
LSCM	• Platform	7	57.8	51.5	13	95.4	84.3
	• Collaborative	--	--	--	--	--	--
	• Contract research	--	--	--	--	--	--
APAS	• Platform	13	42.1	37.9	17	55.5	49.3
	• Collaborative	2	10.9	5.4	2	10.9	5.4
	• Contract research	1 <sup>#</sup>	0.5	--	1 <sup>#</sup>	0.5	--
ICT	• Platform	41	272.6	253.8	68	450.5	417.8
	• Collaborative	2	12.4	6.2	2	12.4	6.2
	• Contract service	33 <sup>#</sup>	5.7 <sup>*</sup>	--	57 <sup>#</sup>	11.9 <sup>*</sup>	--
<i>Total</i>	• <i>Platform</i>	75	426.9	391.7	123	700.3	638.8
	• <i>Collaborative</i>	6	35.6	17.7	11	43.7	22.9
	• <i>Contract research/ service</i>	40 <sup>#</sup>	8.6 <sup>*</sup>	--	66 <sup>#</sup>	15.5 <sup>*</sup>	--

<sup>#</sup> While platform and collaborative projects are approved by CIT, contract research and contract service projects, which are wholly funded by the industry, are endorsed by the Centres themselves. The figures for contract research/contract service represent the number of such projects endorsed by the respective Centre.

<sup>\*</sup> The amount shows the contractual amount of the contract service projects but not the budget of the contracts.

3. During the reporting period, a total of 81 platform projects and collaborative projects with total project cost of \$462.5 million were endorsed by CIT. They covered a variety of areas under the respective technology focus of the Centres. With respect to platform projects, the Centres were generally able to secure the

industry to contribute 10% of the total project cost. As for collaborative projects, industry contribution to the total project cost was more than 30%. The cumulative industrial contribution for platform and collaborative projects approved up to May 2008 amounted to 11% of the total project cost <sup>1</sup>, which reflected the support from the industry towards the R&D projects. In addition, all contract research and contract service projects were wholly funded by the industry.

4. Details of the R&D projects undertaken by each of the R&D Centres, including the project duration, approved project cost, percentage of industry contribution and the participating organisations can be found in the respective reports of the R&D Centres at Annexes I to V. The reports also cover the Centres' R&D programmes, promotion and marketing activities, administration and future work.

***Project actual expenditures***

5. The expenditure on the R&D projects of the R&D Centres is set out in the following table.

Table 2: Estimated and actual expenditure on R&D projects  
(for the financial years 2007/08 and 2008/09)  
(in \$ million)

	Estimated expenditure for 2007/08	Actual expenditure for 2007/08	Estimated expenditure for 2008/09
NAMI	119.8	2.0	124.8
RITA	85.0	15.0	84.7
LSCM	44.4	8.3	202.9
APAS	129.5	31.4	102.6
ICT	178.0	168.1	228.0

6. As shown in Table 2 above, the actual expenditure on R&D projects was well below the estimates for 2007/08 for the four newly-established R&D Centres <sup>2</sup>, namely NAMI, RITA, LSCM and APAS. This was mainly due to the longer time required by these Centres to recruit suitable project staff and confirm industry sponsorship and other relating arrangements. It is expected that the expenditure on R&D projects will increase in 2008/09 as the spending on the relevant approved projects will pick up and the Centres undertake new R&D projects. As the R&D projects (except those undertaken by the ICT R&D Centre) were still on-going in

<sup>1</sup> The total approved project cost of all platform and collaborative projects undertaken by all R&D Centres as shown in Table 1 was \$744.0 million. The cumulative approved ITF funding for these projects was \$661.7 million. The cumulative industrial contribution for these projects was \$82.3 million.

<sup>2</sup> The ICT R&D Centre is hosted by the Hong Kong Applied Science and Technology Research Institute which has been in operation since 2001. Unlike the other R&D Centres, individual projects undertaken by the ICT R&D Centre commenced before April 2006.

2007/08 and not yet completed, no income was generated from the project deliverables yet.

### ***Promotion and marketing***

7. During the reporting period, all the Centres have organised or participated in a number of promotion and marketing events including exhibitions, trade shows, conferences, seminars, workshops, meetings and visits to various target user groups such as trade associations, research institutions and companies. Besides, the Centres have drawn up membership schemes and enhanced their websites for better communication with the industry. The Centres also took part in the Innovation Festival organised by the Innovation and Technology Commission in October 2007 to introduce their R&D projects and services to potential target users.

8. Under the market-driven approach, the Centres will continue to strengthen their liaison and networking effort with the industry, universities, research institutes and industry support organisations in Hong Kong, the PRD region and other parts of the world, with a view to facilitating the Centres to understand the practical needs of the market and formulate R&D projects to address the identified needs, as well as to exploring potential R&D partners in undertaking collaboration and other projects.

### ***Administration***

9. The main operation of the R&D Centres is to support the implementation of the R&D programmes and carry out the promotion and marketing activities. The expenditure on the operation of each of the Centres is set out in Table 3.

Table 3: Estimated and actual expenditure on operation  
(in \$ million)

	Actual expenditure for 2007/08	Estimated expenditure for 2008/09
NAMI	10.6	13.4
RITA	9.4	12.5
LSCM	14.5	20.0
APAS	16.2	20.9
ICT	99.8	112.7

10. As shown in Table 3 above, the estimated expenditure on the operation of the Centres for 2008/09 will increase by about 13% to 38% mainly to cope with the increase in R&D activities and promotion/marketing events to be undertaken by the Centres.

### **Mid-term Review**

11. At the Legislative Council Finance Committee meeting held on 24 June 2005, Members noted that the five R&D Centres would conduct a major review in the second year of their operation and the review would critically examine, inter alia,

- (a) whether the R&D programme and direction could actually meet the industry demand as reflected by the industry contribution and participation;
- (b) whether the planned R&D programme would need to be adjusted to ensure that adequate industry contribution and income could be generated to sustain the programme for the whole of the five-year period; and
- (c) whether any improvements are necessary to strengthen the infrastructure support for the purpose of enhancing R&D activities in Hong Kong.

12. As the R&D Centres have only started to implement their R&D programmes since 2007/08, the Centres will commence the review by the end of 2008 and submit a report to CIT in early 2009, so that the operation for the whole year of 2008 will be covered. The Administration will brief the Panel on the outcome of the review.

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Innovation and Technology Commission  
June 2008

**Report of the R&D Centre on  
Nanotechnology and Advanced Materials (NAMI)  
(for the period from July 2007 to May 2008)**

**Centre Operation and General Administration**

During the period, NAMI continued to strengthen its policies and procedures, which covered areas like corporate governance, routine operations, R&D programme, intellectual property, etc. It also undertook various corporate communications activities to further build up its connections and network.

2. In addition to the key centre staff such as the Chief Executive Officer and Chief Technology Officers, NAMI also recruited additional technical and administrative staff. The headcount of the centre staff as at the end of May 2008 was 13.

**R&D Programme**

3. Since its inception, NAMI had conducted three rounds of R&D project solicitation. A total of 5 projects from the first round and 7 projects from the second round had been approved by the Innovation and Technology Commission (ITC). They involved a total project cost of \$34.6 million, and ITF funding of \$27.1 million.

4. In addition, 5 projects from the second round were expected to be approved by ITC by the end of the second quarter of 2008. Their expected total project cost was \$30.1 million, and their expected total ITF funding was \$24.7 million.

5. The third round of R&D project solicitation started on 12 February 2008 and ended on 7 April 2008. It was expected that a total of 14 project proposals would be vetted in the third quarter of 2008.

6. NAMI also undertook 6 contract research projects, whose funds were all derived from industry. These projects involved a total cost of some \$3 million.

7. The details of the approved projects (including platform, collaborative and contract research projects) undertaken by NAMI are at [Appendix I](#).

**Promotional Activities**

8. To promote the importance of conducting market-driven R&D projects and enhance the awareness of new developments in nanotechnology and advanced materials in private and public sectors, NAMI has co-organised and taken part in

various promotional activities in Hong Kong and overseas including international conferences and roadshows to introduce its work, research outputs and deliverables, establish network and seek collaborations. Major activities included the following forums in collaboration with the Hong Kong Trade Development Council and trade / industrial associations:

- Green Nanotechnology Forum, organised in collaboration with the Hong Kong Trade Development Council, was held at the Hong Kong Convention and Exhibition Centre on 31 August 2007;
- Nanotechnology for Medical and Healthcare Forum, organised in collaboration with the Hong Kong Medical and Healthcare Device Manufacturers Association Limited, was held at HKUST on 23 November 2007; and
- Nanotechnology Forum – Electronics and Electrical Appliances, organised in collaboration with the Hong Kong Trade Development Council and the Hong Kong Electrical Appliances Manufacturers Association, was held at the Hong Kong Convention and Exhibition Centre on 25 January 2008.

9. The forums provided a platform where invited experts and entrepreneurs from different disciplines could share the latest developments in relevant technologies and products, and trigger new ideas for industry-led R&D projects to be supported by the Centre. The R&D results from HKUST's Institute of NanoMaterials and NanoTechnology (INMT), the Centre and other research institutions were disseminated. The Centre's vision, research focus areas, IP policy and arrangements, and application and vetting procedures for R&D projects were also introduced at these forums.

10. Besides, NAMI co-organised the 2007 International Conference and Exhibition on Nanotechnology and Advanced Materials at the Hong Kong Convention and Exhibition Centre in December 2007. The conference had been held for the fourth year running. It was the only international conference and exhibition on nanotechnology and advanced materials in Hong Kong, and had become the most prominent annual event in the field in Southern China. It promoted knowledge and experience of the applications of nanotechnology and advanced materials to enhancing product performance, leading to innovation and thereby augmenting the competitiveness of the region. The exhibition part of the event was also one of the major themes under Inno Design Tech Expo, an international innovative technology and design exposition.

11. NAMI also made numerous visits to trade associations and individual companies to introduce nanotechnology and advanced materials, which were found to be of great interest to various industrial sectors. The response was very positive, as evidenced by large number of visits by industrialists and investors to the Centre. A

number of discussions led to product concepts and prototypes which were of commercial potential. Meanwhile, the Consortium on NanoTechnology and Advanced Materials set up by the Centre has recruited 40 members from various industrial sectors and research institutions.

**Publicity activities / events undertaken from July 2007 to May 2008**

<b><u>Date</u></b>	<b><u>Event / Activity</u></b>
<i>Roadshows</i>	
8 October 2007	Participated in PRD Tour 2007 with ITC
<i>Conferences / Seminars / Workshops</i>	
2 August 2007	Participated in Seminar: The Implementation of Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) by the Hong Kong Green Manufacturing Alliance
18 December 2007	Participated in Seminar: Research and Technology Transfer in Nanoelectronics and Microelectromechanical Systems (MEMS) by the City University of Hong Kong
14 May 2008	Participated in an investment promotion seminar on scientific & technological projects of Jiangxi Province
<i>Exhibitions</i>	
14 September 2007	Joined Innovation Expo 2007 as exhibitor
12 October 2007	Joined China Hi-tech Fair (Shenzhen, China) as exhibitor
5-8 December 2007	Joined 2007 China (Changsha) Sci-tech Achievement Transformation Fair (Changsha, China) as exhibitor
9 December 2007	Joined Chongqing Hi-Tech Seminar with ITC (Chongqing, China) as exhibitor
16-18 April 2008	Joined Chongqing Hi-tech Fair as exhibitor

**Visits and other PR activities undertaken from July 2007 to May 2008**

<b><u>Date</u></b>	<b><u>Event / Activity</u></b>
13 July 2007	Visit by the University of Alberta
29 August 2007	Visit by The University of Hong Kong
4 September 2007	Joined the Media Workshop by ITC
7 September 2007	Visit by the South China University of Technology
9 September 2007	Visit by the Hong Kong Baptist University
7 December 2007	Visit by World Harmony Organization
12 December 2007	Participated in CEO Forum, Inno Design Tech Expo 2007
28 December 2007	Visit by Chekiang government delegation
10 January 2008	Visit by Savantas Policy Institute
18 January 2008	Visit by Guangdong government delegation
2 February 2008	Visit by Zhongshan government delegation
4 February 2008	Visit by National Institute of Advanced Industrial Science and Technology (AIST), Japan



<u>Date</u>	<u>Event / Activity</u>
4 February 2008	Visit by King Abdullah University of Science and Technology (KAUST), Saudi Arabia
9 April 2008	Visit by Hungary high-level delegation
11 April 2008	Visit by the Shunde delegation
28 April 2008	Visit by the delegation of the University of Johannesburg
23 May 2008	Visit by the delegation of the Ministry of Science and Technology (MOST)

### **Future Activities**

12. NAMI will continue to focus its efforts on conducting market-driven and demand-led R&D programme and in serving as a technology platform which invites all research institutions and industrialists to participate in R&D projects, and that could lead to a wide spectrum of innovative products.

13. With a mission to nurture technical talents in nanotechnology and advanced materials for the present and future needs of Hong Kong and the Pearl River Delta region, NAMI will continue to recruit technical staff to beef up its in-house research capabilities and to support NAMI's R&D projects.

14. NAMI will carry out regular reviews on its rules and procedures including Corporate Governance Manual, Personnel Manual and procedures on vetting proposals to improve its operations.

15. NAMI will strengthen its promotion efforts with an aim to promote nanotechnology to keep abreast of international market trends, arouse awareness of the general public on the development of nanotechnology and seek active industry collaborations. As planned, NAMI will organise/participate in exhibitions and forums and visit various industry associations in 2008/2009:

<u>Time</u>	<u>Events/Activities</u>
June 2008	To organise Workshop of Nanotechnology and Advanced Materials on Plastics on 16 June 2008
	To cosponsor and participate in 2 <sup>nd</sup> Integration & Commercialization of Micro & Nanosystems International Conference & Exhibition (Hong Kong)
July 2008	To participate in Hong Kong International Licensing Show
	To organise Workshop of Nanotechnology and Advanced Materials on Energy
August 2008	To participate in the conference of the International Society of Photo-Optical Instrumentation Engineers (SPIE) (San Diego, California, USA)

<b><u>Time</u></b>	<b><u>Events/Activities</u></b>
	To participate in Hong Kong International Medical & Health Care Fair
September 2008	To participate in Hong Kong Watch & Clock Fair
	To participate in Seminar on Technology Development (Chempor, Portugal)
October 2008	To organise Workshop of Nanotechnology and Advanced Materials on Environment
	To participate in China Hi Tech Fair as exhibitor
	To participate in Hong Kong International Building and Decoration Materials & Hardware Fair
November 2008	To participate in Innovation Expo 2008 (Hong Kong) as exhibitor
	To participate in Hong Kong Optical Fair
	To participate in Seminar on Nanotechnology/AIChE Meeting (Philadelphia, Pennsylvania, USA)
December 2008	To organise Nano International Conferences 2008 and as exhibitor
January 2009	To participate in Hong Kong International Stationery Fair
February 2009	To organise Workshop of Nanotechnology and Advanced Materials on Innovative Products

Nano and Advanced Materials Institute  
June 2006

**Nano and Advanced Materials Institute Limited**  
**納米及先進材料研發院有限公司**  
**R&D Projects as at end May 2008**  
**研發項目(截至 2008 年 5 月)**

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Platform Research 平台研究</b>							
1.	LED Arrays on Silicon Substrates by Flip-chip Technology 矽基底上倒封裝 LED 陣列	24	On-going 進行中	4,005,100	17%	- The Hong Kong University of Science and Technology (HKUST) 香港科技大學	- Two private companies 兩家私營公司
2.	Development and Production of Novel Passive Negative Air Ion Materials and Products 新型無源空氣負離子材料及產品的開發與生產	12	On-going 進行中	968,300	0%	- Nano and Advanced Materials Institute Limited (NAMI) 納米及先進材料研發院有限公司(納米及先進材料研發院)	Nil
3.	Precision Polishing Method for Complex-curved-profile Parts and Polishing Slurry Used for the Method 複雜形狀工件的精密拋光方法及拋光液的開發	24	On-going 進行中	2,300,000	10%	- NAMI 納米及先進材料研發院	- Two private companies 兩家私營公司
4.	Next Generation Display Technology 新一代顯示技術	18	On-going 進行中	8,474,500	10%	- HKUST 香港科技大學	- Three private companies 三家私營公司
5.	Nanotechnology-enabled Organic Light Emitting Devices for Decorative and Special-effect Lighting Purposes 應用納米技術的有機發光器件的研究及在裝飾及特殊發光的應用	24	On-going 進行中	3,517,900	10%	- City University of Hong Kong 香港城市大學	- Two private companies 兩家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
6.	Development of Advanced Composite Pellets and a Novel Supercritical Fluid Extraction Process for Micro-Powder Injection Moulding Technology 發展應用於微型粉末注射成型之「先進複合材料」及有關的「超臨界液體萃取技術」	24	On-going 進行中	3,221,890	10%	- Hong Kong Productivity Council 香港生產力促進局	- Five private companies 五家私營公司
<b>Collaborative Research 合作研究</b>							
7.	Industrialization of Liquid TiO <sub>2</sub> Hydrosol Production and Extensive Applications for Indoor Air Purification 二氧化鈦溶膠產業化及其應用於室內空氣淨化示範研究	12	On-going 進行中	1,995,150	30%	- The Hong Kong Polytechnic University 香港理工大學	- A private company 一家私營公司
8.	Demonstration Line for the Production of Low-cost Humidity Sensor 低成本濕度探測器示範生產線	12	On-going 進行中	583,332	30%	- HKUST 香港科技大學	- A private company 一家私營公司
9.	Industrial Scale Sonochemical Fabrication of Mesoporous Photocatalysts 中孔光催化劑的聲化學工業化製備	27	On-going 進行中	1,000,000	30%	- The Chinese University of Hong Kong 香港中文大學	- A private company 一家私營公司
10.	Nano-enhanced Hot-dip Galvanizing Process 納米熱浸鍍鋅技術	24	On-going 進行中	2,500,000	30%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司
11.	High Performance Polymer Nanocomposite Fibers for Electronic Applications 用於微電子方向的高強度分子納米複合纖維的製備	24	On-going 進行中	5,427,150	55%	- HKUST 香港科技大學	- A private company 一家私營公司
12.	Development of Blue OLED Materials and Devices 藍光 OLED 材料和器件研發	12	On-going 進行中	599,600	33%	- Hong Kong Baptist University 香港浸會大學	- A private company 一家私營公司
<b>Contract Research 合同研究</b>							
13.	Development of High Strength Composite Fibres 高強度複合纖維的研製	18	On-going 進行中	158,700	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
14.	Formulation of Nano Creams and Pastes 納米乳脂配方的研製	18	On-going 進行中	579,600	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司
15.	Development of Products from Fruit Rind 水果果皮的產品開發	12	On-going 進行中	405,600	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司
16.	Development of Products from Aluminium Oxide 氧化鋁的產品開發	6	On-going 進行中	460,000	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司
17.	Mold Compound and Die Attach Compatibility Study 模具化合物和模具黏附性及兼容性的研究	36	On-going 進行中	1,121,250	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司
18.	Functional Mirror-like Nanocoating of Low Cost on Metal and Plastic Products Respectively 低成本具鏡面特性的納米塗層於金屬和塑膠製品的功能應用	12	On-going 進行中	293,250	100%	- NAMI 納米及先進材料研發院	- A private company 一家私營公司

**Report of  
The Hong Kong Research Institute of Textiles and Apparel (HKRITA)  
(for the period July 2007 to May 2008)**

A summary on HKRITA's R&D programmes, promotion and marketing activities, administration and future work is as follows:-

**1. R&D Activities**

**(a) Project Summary**

During the reporting period, HKRITA undertook 16 ITF-funded R&D projects under four main technology areas, namely (1) New Materials and Textiles and Apparel Products, (2) Advanced Textiles and Clothing Production Technology, (3) Innovative Design and Evaluation Technologies, and (4) Enhanced Industrial Systems and Infrastructure; and also undertook four ITF-funded R&D projects (including one collaborative project) under the Guangdong-Hong Kong Technology Cooperation Funding Scheme 2007.

In addition, HKRITA undertook two small contract research projects with the total project cost of \$0.1 million with their funding fully sponsored by the industry.

Details of the 20 ITF-funded R&D projects and two contract research projects are given at Appendix I.

**(b) Extension Services**

The R&D team has provided extension services including technical consultancy, project matching and R&D courses/seminars to assist the textiles and apparel industry:

Technical Consultancy

HKRITA has responded to enquires from the industry relating to:

1. Problem solving;
2. Technology upgrading;
3. New product/process/service development;
4. Brand development in relation to design, quality and technology; and
5. Establishment of in-house R & D operations.

The subjects discussed with organisations/companies from July 2007 to May 2008:

	<b>Date</b>	<b>Subject</b>
1.	3 Aug 2007	Standardization of Knitwear Finishing

	<b>Date</b>	<b>Subject</b>
2.	3 Aug 2007	Meeting on ERP and Washing Standardisation
3.	4 Sep 2007	Warp Knitting Technology
4.	8 Oct 2007	Set-up of a New Clothing Production System
5.	10 Oct 2007	The Development of an Automatic Fiber Identification Instrument
6.	25 Oct 2007	Development of an Innovative Knowledge Based Corporate Social Responsibility (CSR) Compliance System
7.	14 Nov 2007	Supercritical Fluid Dyeing
8.	3 Dec 2007	Eco Nonwoven Bag Standard
9.	14 Jan 2008	Brassiere Manufacturing
10.	21 Jan 2008	Photonic Zipper
11.	29 Jan 2008	Uniform Design
12.	1 Feb 2008	RFID Collar Stay
13.	12 Feb 2008	Photonics
14.	18 Feb 2008	Functional Fabric Treatment
15.	22 Feb 2008	Automatic Linking Process
16.	6 Mar 2008	Plasma Technology
17.	13 Mar 2008	Uniform Design
18.	19-20 Apr 2008	Energy Audit
19.	22-24 Apr 2008	Degumming Technology
20.	22-24 Apr 2008	Garment Washing Standard
21.	22-24 Apr 2008	Good Dimension Stability of Knitted Fabric
22.	6 May 2008	Foam Dyeing Application
23.	27 Apr 2008	Development of Cotton Fabrics and Garments
24.	13-14 May 2008	Energy Saving for Textiles Dyeing and Finishing
25.	13-14 May 2008	Energy Saving, Dyeing and Garment Manufacturing Process
26.	13-14 May 2008	Eco-friendly Production System
27.	13-14 May 2008	Research on New Materials
28.	13-14 May 2008	Process Optimization and Quality Control
29.	15 May 2008	Plasma Technology

### Project Matching

HKRITA has provided “project matching service” to local research institutions/ organisations on the feasibility and marketability of new/innovative project ideas and to ascertain whether such proposals would assist in solving practical problems faced

by the industry. We have provided the “project matching service” by identifying industry partners who would support such research.

Project matching service provided from July 2007 to May 2008:

	<b>Start Date</b>	<b>Research Area</b>	<b>Organisation Matched</b>	<b>Status</b>
1	12 Jul 2007	Computerization of Garment Patterns Thro' Master Slopers	The Hong Kong University of Science and Technology (HKUST)	On-going
2	5 Nov 2007	Smart Pressure Monitored Suits (SPMS)	The Hong Kong Polytechnic University (PolyU)	On-going
3	7 Nov 2007	Wearable Electronics	The Hong Kong Applied Science and Technology Research Institute Company Limited (ASTRI)	On-going
4	28 Nov 2007	Intelligent Footwear	The Chinese University of Hong Kong (CUHK)	On-going
5	9 Jan 2008	Nip and Tuck Garment Design CAD System	CUHK	On-going
6	11 Jan 2008	R&D Garment Tele-prototyping Equipment System	PolyU	On-going
7	19 Feb 2008	Seizing China Anthropometrics and Smart Card Knowledge Initiative	PolyU	On-going
8	4 Mar 2008	An Empirical Study of Laser-based Finishing for Textile Materials	PolyU	On-going
9	7 Mar 2008	Research on Knits Washing Out Effect	PolyU	On-going
10	11 Apr 2008	Non-woven	Textile Bioengineering and Informatics Society Limited (TBIS)	On-going
11	14 Apr 2008	Corporate Social Responsibility	Hong Kong Productivity Council (HKPC)	On-going
12	15 Apr 2008	e-clustered prototype assessment system (EPAS)	PolyU	On-going



	<b>Start Date</b>	<b>Research Area</b>	<b>Organisation Matched</b>	<b>Status</b>
13	29 Apr 2008	Fabric Sample Resources Management System (FRMS)	PolyU	On-going
14	30 Apr 2008	Nano Wool Technology	PolyU	On-going
15	8 May 2008	Eco-technology	Clothing Industry Training Authority (CITA)	On-going
16	9 May 2008	Eco-technology	CITA	On-going
17	22 May 2008	Eco-technology	CITA	On-going

### Workshop/Seminars/Training/Professional Development

HKRITA believes that periodic workshops/seminars/training programmes would benefit the industry. This would help to keep practitioners abreast of the latest developments in the industry. Major R&D programmes held from July 2007 to May 2008 to highlight are as follows:

1. Focus Group Meetings – HKRITA invited the key players from different sectors of the textile and apparel industry to exchange views at four Focus Group Meetings organised in July 2007, covering foci of textile, intimate garment, footwear, cut and sewn garment and knitwear.
2. ITMA Review Seminar – Following the 2007 International Textile Machinery Exhibition (ITMA) held in Munich, Germany (an international textiles and clothing exhibition held once every four years to showcase the state-of-the-art technologies), HKRITA, in collaboration with research institutions, trade and industrial supporting organisations and professional bodies, organised an ITMA review seminar in October 2007 to brief and introduce the latest textile and clothing technology/machinery to industry partners. Over 100 participants from the industry attended the seminar.
3. Technology Forum for Sweater Manufacturing – HKRITA organised the Technology Forum in January 2008. Knitwear experts were invited to share their knowledge and experience, and to discuss the direction of the technology development on sweater production.
4. Challenges in Colour Technology 2008 – a technical seminar organised by HKRITA in March 2008 to address the impact of the “REACH” programme on the industry and presented the advances of colour technologies in the printing and dyeing industry. The seminar attracted over 100 participants from various sectors of the garment manufacturing industry.

5. New Technology Development on Knitwear – as a supporting organisation of “The 9th China (Dongguan) International Textile and Clothing Industry Fair”, HKRITA conducted a technical seminar on “New Technology Development on Knitwear” during the Fair in March 2008 at the Guangdong Modern International Exhibition Centre. The seminar attracted over 120 participants from various garment manufacturers in Guangdong Province to share their views and discuss the big challenges in the knitwear manufacturing.

Project meetings and visits engaged from July 2007 to May 2008:

<b>Date</b>	<b>Meetings/Visits</b>	<b>Organisation</b>
10 Jul 2007	Meeting	Marks & Spencer
11 Jul 2007	Meeting with Footwear Manufacturers	The Federation of Hong Kong Footwear Ltd.
12 Jul 2007	Visit to HKRITA	Central Textile Ltd.
23 Jul 2007	Visit to HKRITA	Apex Products Ltd., Li Ning Co., Ltd.
27 Sep 2007	Visit to HKRITA	The Hong Kong General Chamber of Textiles Limited
13 Oct 2007	Visit to HKRITA	Representatives from Intimate Garment Industry
14 Nov 2007	Visit to HKRITA	The Chinese Manufacturers' Association of Hong Kong
16 Nov 2007	Annual Dinner	Hong Kong Hide & Leather Traders Association
6 Dec 2007	R&D Meeting	Textile Institute Association Hong Kong Ltd.
19 Dec 2007	R&D Meeting	The HK General Chamber of Textiles Ltd
14 Dec 2007	Meeting with Regional Business Development Manager	Australian Wool Innovation
27 Dec 2007	Visit to HKRITA	Zhejiang University City College Exhibition & Conference Research & Service Centre
11 Jan 2008	Visit to HKRITA	Savantas Policy Institutes
05 Feb 2008	Visit to HKRITA	Bauhinia International Limited
03 Apr 2008	Meeting on New Projects	SPRING Singapore
21 Apr 2008	Meeting with Delegates from the Guangzhou Association of Engineers	Guangzhou Association of Engineers

<b>Date</b>	<b>Meetings/Visits</b>	<b>Organisation</b>
22-24 Apr 2008	Study Visit to Shengzhou on Innovation and Technology Development in Textiles	Shengzhou Productivity Bureau
16 May 2008	Introduction to HKRITA at the Textile Council Exco Meeting	Textile Council
16 May 2008	Meeting with the Mayor and delegates from Luohe City Government, Henan Province	Luohe City Government, Henan Province
16 May 2008	Meeting	Bureau Veritas Hong Kong Limited
19 May 2008	Visit to HKRITA	Department of Basic Research, Ministry of Science and Technology of The People's Republic of China (MOST)
22 May 2008	President's Cocktail Reception & Dinner	Cotton Incorporation

Seminars and other activities attended from July 2007 to May 2008:

<b>Date</b>	<b>Subject</b>
13-20 Sep 2007	A study visit to the International Exhibition of Textile Machinery (ITMA) in Germany
10-11 Dec 2007	A Two-day Round-table Forum organised by the Chongqing Science and Technology Commission
14 Dec 2007	The "Innovation and Technology Applications for Textile & Garment Industry" seminar organised by the HKTDC (Director, Research and Development was invited as a guest speaker)
26-28 Feb 2008	A Two-day Conference "Achieving Sustainable Development of China's Textile Industry: The Role of Science, Technology and Innovation" organised by Esquel Group
6 Mar 2008	The 9th China (Dongguan) International Textile & Clothing Industry Fair (Director, Research and Development was invited as a guest speaker)
13 Mar 2008	The seminar in Interstoff Asia Essential Sprint 2008 (Director, Research and Development was invited as a guest speaker)
31 Mar 2008	The seminar "New Technology and Innovations on Eco-Textiles to Taiwan" organised by Hong Kong Productivity Council (Director, Research and Development was invited as a guest speaker)
8-10 Apr 2008	2nd International Textile Conference on New Technology of Dyeing & Finishing in Jinan, organised by Adsale Publishing Limited & China Textile Engineering Society (CTES) (Director, Research and Development was invited as a guest speaker)

<b>Date</b>	<b>Subject</b>
19 Apr 2008	Hi-Tech Conference in Textile Industry 2008 organized by Far-Eastern Hi-Tech Textile Co. Ltd.

Multilateral collaboration:

<b>Date</b>	<b>Event</b>	<b>Organisation</b>
8 Oct 2007	Signing of Memorandum of Understanding (MOU)	Sun Yat-sen University
8 Oct 2007	Signing of MOU	China (Dalang) Woolen Knitwear Research & Development Centre
11-12 Oct 2007	Signing of MOU	Zhejiang Institute of Modern Textile Industry

### **R&D activities planned to be held in 2008/2009**

HKRITA plans to organised a number of R&D activities in 2008/2009, including the following:

1. Seven international/Mainland R&D collaborative activities;
2. 33 technical consultancy services;
3. Six project matching services;
4. 60 exploratory meetings/workshops on new project development; and
5. 18 technological symposiums/conferences/seminars.

## **2. Promotion and Marketing Activities**

### **(a) Interviews with media and press arranged to promote the R&D projects of HKRITA**

<b>Newspapers/ Publications</b>	<b>Subject</b>	<b>Issue No. / Issued Date</b>
Just-style.com	Q&A story on apparel technology	Aug 2007
textile.2456.com (Adsale)	ITMA 2007 技術回顧 紡紗、梭織、針織、染整、檢測各呈亮點	Nov 2007
Hi-tech Weekly	Technology Development on Textile Materials	Dec 2007
Textile & Clothing, HKPC	嶄新技術為紡織業奠定穩固的發展基石	Vol 19, No. 6, Dec 2007
Financial Times	Impact of the China New Policy to the Hong Kong and Mainland apparel	Jan 2008
Textile & Clothing, HKPC	香港製衣業發展回顧及前瞻：推動科研發展助業界轉型升級	Vol 20, No. 1, Feb 2008

<b>Newspapers/ Publications</b>	<b>Subject</b>	<b>Issue No. / Issued Date</b>
Textile & Clothing, HKPC	理大專家突破形狀記憶纖維生產技術	Vol 20, No. 1, Feb 2008
South China Morning Post	Interstoff supplement: 1) Forum Provides Platform for Multifunctional Fabrics 2) Fabrics Become Talk of the Town	4 Mar 2008
South China Morning Post	Interstoff supplement: Rebranded Event Focuses on Latest Trends in Industry	7 Mar 2008

**(b) Advertisements were placed in apparel publications and magazines to increase the awareness of HKRITA in the industry**

<b>Media</b>	<b>Subject</b>	<b>Issue No. / Issued Date</b>
China Textile & Apparel (CTA), Adsale	Corporate advertisement to promote HKRITA	Jun/Jul 2007
Hong Kong Textiles News, Takungpao by Hong Kong General Chamber of Textiles	Corporate advertisement to promote HKRITA	1 Jul 2007
Fashion Maker	Corporate advertisement to promote HKRITA	Oct 2007
Hong Kong Textiles News, Takungpao	Seminar: Review on ITMA 2007	8 Oct 2007
Textile & Clothing, HKPC	Seminar: Review on ITMA 2007	Vol 19, No. 5, Oct 2007
Textile & Clothing, HKPC	Technology Forum of Sweater Manufacturing	Vol 19, No. 6, Dec 2007
Hong Kong Textiles News, Takungpao	Technology Forum of Sweater Manufacturing	14 Jan 2008
CTA, Adsale	Corporate logo banner	Feb/Mar 2008
Textile & Clothing, HKPC	Corporate advertisement to promote HKRITA	Vol. 20, No. 1, Feb 2008

**(c) Feature articles published**

<b>Journals / Magazines</b>	<b>Subject</b>	<b>Issue No./ Issued Date</b>
Fashion Technology	Measurements for Better Productivity	Jul 2007
Journal for Asia on Textile & Apparel (ATA), Adsale	Plasma Treatment Technology	Aug/Sep 2007
CTA, Adsale	Plasma Treatment Technology	Aug/Sep 2007

<b>Journals / Magazines</b>	<b>Subject</b>	<b>Issue No./ Issued Date</b>
Fashion Technology	Integrating Metallic Textiles	Sep 2007
CTA, Adsale	Supercritical Fluid Waterless Dyeing Technology	Oct/Nov 2007
Fashion Technology	Environmentally-friendly Solution for Functional Textiles	Nov 2007
CTA, Adsale	Fresh Aroma <sup>TM</sup> Fabric	Dec 2007 / Jan 2008
CTA, Adsale	分布式三維表面壓力織物傳感器	Apr/May 2008
Fashion Technology Magazine	Biofunctional Materials	Vol. 5, Issue 3, April 2008

Press releases on HKRITA's technical seminars were issued in October 2007, January and February 2008.

Publicity materials including corporate brochures, loose pamphlets for research projects were produced for marketing and promotional activities.

**(d) Website**

The HKRITA website has been revamped with enhanced features including a searchable project database, a technical forum and an online platform for membership application. The website is viewable in English, traditional Chinese and simplified Chinese. The revamped website has been launched in February 2008.

**(e) E-Newsletter**

HKRITA e-Newsletter is published quarterly in January, April, July and October to provide R&D project updates and the latest events of HKRITA.

A new section on textile and clothing technology has been added to the e-Newsletter with inputs from project investigators to arouse the interests of the industry.

The e-Newsletter is disseminated to HKRITA members and business contacts by email and is available on the website for public access.

**(f) Other major initiatives/activities are tabled as below:**

Publicity events and other programmes from July 2007 to May 2008:

<b>Date</b>	<b>Events</b>	<b>Venue</b>
11 Jul 2007	Press Conference of The 6th China (Dalang) International Woolen Knitwear Fair	HKCEC

<b>Date</b>	<b>Events</b>	<b>Venue</b>
10-13 Jul 2007	Hong Kong Fashion Week Spring/ Summer 2008	HKCEC
6 Aug 2007	Luncheon cum seminar for Hong Kong Intimate Apparel Industries' Association Ltd. (HKIAIA)	Renaissance Kowloon Hotel, Hong Kong
23-24 Aug 2007	Fashion Merchandising Training	Shanghai, China
4 Sep 2007	Media Workshop: An Update on Innovation, Technology and Design	The Hong Kong Science and Technology Parks
14-19 Sep 2007	Innovation Festival 2007 & Innovation Expo 2007	HKCEC
13-20 Sep 2007	Joint exhibition with PolyU at the International Exhibition of Textile Machinery (ITMA)	New Munich Trade Fair Centre, Germany
12-17 Oct 2007	China Hi-Tech Fair 2007	Shenzhen Convention & Exhibition Centre
18-22 Oct 2007	The 6th China (Dalang) International Woolen Knitwear Fair	Dalang Convention & Exhibition Centre, Dongguan, China
30 Oct 2007	Seminar: Review on ITMA 2007	PolyU, Hong Kong
14 Nov 2007	Seminar and lab tour for members of The Chinese Manufacturers' Association of Hong Kong	PolyU, Hong Kong
15 Nov 2007	Joint seminar with Dystar: "Econfidence Denim"	PolyU, Hong Kong
12-15 Dec 2007	Innovation Design Tech Expo	HKCEC
14 Dec 2007	Seminar: Innovation and Technology Applications for Textile and Garment Industry	HKCEC
14-17 Jan 2008	Hong Kong Fashion Week Fall/ Winter 2008	HKCEC
18 Jan 2008	Technology Forum for Sweater Manufacturing	CITA, Hong Kong
5-8 Mar 2008	The 9th China (Dongguan) International Textile and Clothing Industry Fair	Dongguan, China
13 Mar 2008	Seminar in Interstoff Asia Essential Sprint 2008: Innovation and Technology Development for Knitwear Industry	HKCEC
28 Mar 2008	Challenges in Colour Technology 2008	PolyU, Hong Kong
31 Mar 2008	Post New Technology and Innovations on Eco-Textiles to Taiwan Study Mission Sharing Seminar	HKPC
1-2 Apr 2008	Prime Source Forum	HKCEC

<b>Date</b>	<b>Events</b>	<b>Venue</b>
8-9 Apr 2008	The 2nd International Textile Conference on New Technology of Dyeing & Finishing	Jinan, China
19 Apr 2008	Hi-Tech Conference in Textile Industry 2008	Dongguan, China
20-23 Apr 2008	The 8th Chongqing Hi-tech Fair	Chongqing, China

In addition, HKRITA joined 20 marketing or publicity events relevant to the textiles and clothing technology in 2007/2008 as supporting organisation to sustain a good connection with various industrial sectors and to maintain regular exposure in the industry.

Delegation visits to HKRITA from July 2007 to May 2008:

<b>Date</b>	<b>Delegations/ Visitors</b>	<b>No. of Visitors</b>
10 Jul 2007	Guests from Marks & Spencer	2
31 Jul 2007	Delegation from Dongguan City Sci-Tech Bureau	6
1 Aug 2007	Guests from Whirlpool Corporation, Corporate Research Group	2
23 Aug 2007	Permanent Secretary for Commerce and Economic Development Bureau (Communications and Technology Branch), HKSAR Government	1
30 Aug 2007	Delegation from China National Textile and Apparel Council	5
1 Nov 2007	Foshan Textiles and Garment Industrialists	28
2 Nov 2007	Delegation from Chile Industry, organised by HKTDC	5
8 Nov 2007	Guest from Guangdong Company - 廣東新一系實業有限公司	1
1 Dec 2007	Delegation from Shengzhou Government led by Mayor of Shengzhou, Zhejiang, China	5
10 Dec 2007	Associate Director and President Professor of China Textile Academy	3
27 Dec 2007	Guests from the Exhibition and Conference Research and Service Centre, Zhejiang University City College	3
11 Jan 2008	Director of International Division, Chung-Hua Institution of Economic Research, Taipei	3
15 Jan 2008	Commissioner for Innovation and Technology, Innovation and Technology Commission, HKSAR Government	3
29 Jan 2008	Delegation from Food and Environmental Hygiene Department, HKSAR Government	5



<b>Date</b>	<b>Delegations/ Visitors</b>	<b>No. of Visitors</b>
12 Feb 2008	Delegation from Fook Cheong Outwear Ltd.	12
5 Mar 2008	Executive Director of Pearl Academy of Fashion, India	1
14 Mar 2008	Guest from Said Business School, Oxford	1
3 Apr 2008	Manager, Textile & Apparel, Singapore Textile & Fashion Federation	1
30 Apr 2008	Assistant Director-General of Investment Promotion, and Head, Technology, InvestHK, HKSAR Government	2
19 May 2008	Delegation of Ministry of Science and Tech	5

**(g) Promotion and marketing activities planned to be held in 2008/2009**

The planned publicity events for promoting HKRITA and its R&D projects are tabulated as below:

<b>Date</b>	<b>Events</b>	<b>Venue</b>
<u>Local</u>		
Jun 2008	Briefing Session for Project Applications	PolyU
Jun 2008	Promotion in HKTDC Garment Advisory Meeting	Hong Kong
Jul 2008	Hong Kong Fashion Week Spring/Summer	HKCEC, Hong Kong
Aug-Sep 2008	Workshops for Associations in Textiles and Clothing Industry	Hong Kong
Oct 2008	Innovation Festival	Hong Kong
Oct 2008	Interstoff Asia Essentials	Hong Kong
Dec 2008	Roadshow for R&D Projects	Hong Kong
Nov/Dec 2008	Innovation Design Expo	Hong Kong
Jan 2009	Technology Symposium	Hong Kong
Jan 2009	Hong Kong Fashion Week Fall/Winter	Hong Kong
On Regular Basis	Technology Seminars/Workshops	Hong Kong
<u>Non-local</u>		
Jul 08	Study mission to ITMA ASIA (Asian International Exhibition of Textile Machinery) and CITME (China International Textile Machinery Exhibition) 2008	China
Oct 08	China Hi-Tech Fair 2007	Shenzhen, China
Mar 09	Seminar in The 10th China Int'l Textile & Clothing Industry Fair (Dongguan)	China

Interviews with media and press will be arranged to promote the R&D projects of

HKRITA. Press releases will be issued to publicise particular marketing activities organised by HKRITA.

Advertisements or advertorials of HKRITA will be published in popular textiles and apparel publications such as Textile and Clothing (HKPC), China Textile & Apparel, Fashion Technology, Hong Kong Textiles Post etc., in order to increase the publicity of HKRITA in the industry.

Promotional material will be produced for research projects.

### **3. Corporate Services**

#### **(a) Human Resources**

##### Recruitment

Two research and development staff have been recruited in 2007/2008. There was no recruitment for senior staff (tier 1 and tier 2 staff) in the financial year.

The HKRITA Secretariat now has a total establishment of 13 staff. Four supporting staff for research and development, corporate services and marketing functions will be recruited in 2008/2009.

##### Major HR initiatives

1. Finalising HKRITA Staff Handbook – the electronic version of HKRITA Staff Handbook with updated HR policies and procedures will be available on a shared drive of HKRITA's computer server for staff's reference by end of May 2008.
2. Launching staff performance appraisal system – A staff performance appraisal mechanism was established and the 2007/2008 staff performance appraisal exercise was completed in March 2008.
3. Review on medical and MPF schemes – A review on HKRITA's medical and MPF schemes were carried out in June and August 2007 respectively to ensure the schemes subscribed are justifiable and competitive in the market.
4. Student Internship Scheme – HKRITA has joined as an employer of PolyU's Work Integrated Education (WIE) programme. Five students from the Institute of Textiles and Clothing, PolyU joined HKRITA in 2007/2008 to complete their WIE credits.
5. Staff Training Programme will be introduced in 2008/2009.

**(b) Other Major Corporate Initiatives/Activities**

1. IT programmes for inventory control and procurement (suppliers' database) were established and have been launched in the second quarter of 2007.
2. Accounting procedures on project management were established. A review is planned in the second quarter of 2008 after completion of the first annual audit exercise of R&D projects in June 2008.
3. HKRITA has acquired more office space of 120 sq. ft. (net 66 sq. ft.) from PolyU to meet the establishment need in January 2008 with the office renovation project completed in March 2008.

The Hong Kong Research Institute of Textiles and Apparel  
June 2008

**The Hong Kong Research Institute of Textiles and Apparel Limited**  
**香港紡織及成衣研發中心**  
**R&D Projects as at end May 2008**  
**研發項目(截至 2008 年 5 月)**

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Platform Research 平台研究</b>							
1.	Biofunctional Materials and Applications 生物功能材料研究與應用	16 <sup>#</sup>	On-going 進行中	4,469,800	14%	- The Hong Kong Polytechnic University (PolyU) 香港理工大學	- Six private companies 六家私營公司
2.	Advanced Clothing Functional Design CAD Technologies 先進服裝功能設計 CAD 技術	15 <sup>#</sup>	On-going 進行中	4,082,800	12%	- PolyU 香港理工大學	- Four private companies 四家私營公司
3.	Development of an Innovative Finishing System for Wet Processing of Garments and Accessories 開發一台創新設計可作成衣和輔料後整的濕整理系統	16 <sup>#</sup>	On-going 進行中	1,689,450	14%	- Hong Kong Productivity Council (HKPC) 香港生產力促進局	- Five private companies 五家私營公司
4.	Advanced Textile and Garment Manufacturing Process Technology 先進紡織品及服裝製造流程技術	18	On-going 進行中	3,908,984	12%	- PolyU 香港理工大學	- Six private companies 六家私營公司
5.	Development of a Laboratory-Scale Electrochemical Mercerization and Bleaching System for Technological Evaluation 發展一套實驗室規模的電化學絲光漂白工藝用於技術的評估	15 <sup>#</sup>	On-going 進行中	997,620	2%*	- HKPC 香港生產力促進局	- Two private companies 兩家私營公司

<sup>#</sup> Revised project duration  
修訂後的項目需時

\* This can be considered to be a seed project which is exploratory and innovative in nature. For this reason, the level of industry contribution is comparatively smaller.  
此項目可被視為一項具前瞻性和創新的種子項目，故此項目的業界贊助水平相對較低。

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
6.	Finer Nu-Torque Cotton Yarn Production 高支扭妥棉紗生產技術	18	On-going 進行中	2,380,950	11%	- PolyU 香港理工大學	- Two private companies 兩家私營公司
7.	Development of Fabric Structure Analysis and Appearance Evaluation System 織物結構分析和外觀評估系統的開發	21	On-going 進行中	2,864,250	10%	- PolyU 香港理工大學	- Three private companies 三家私營公司
8.	Advanced Functional Surface Treatment Technology for Textile Materials 先進紡織材料功能性處理技術	18	On-going 進行中	4,752,000	13%	- PolyU 香港理工大學	- Three private companies 三家私營公司
9.	Imaging Colour Measurement (ICM) System for Textile and Garment Industry 用於紡織及服裝工業的成像顏色測量系統	18	On-going 進行中	4,372,050	11%	- PolyU 香港理工大學 - Zhejiang University 浙江大學	- Four private companies 四家私營公司
10.	Development of Shape Memory Knitted Fabrics/Garments 形狀記憶針織服裝及其紡織品的開發	24	On-going 進行中	11,000,000	9%	- PolyU 香港理工大學	- Six private companies 六家私營公司
11.	Development of a Problem Solving Model for the Hong Kong Textiles and Clothing Industries 為香港紡織及製衣業提供解決生產問題方案	18	On-going 進行中	3,049,200	11%	- Clothing Industry Training Authority 製衣業訓練局	- Seven private companies 七家私營公司
12.	Development of an Integrated Solution for Minimizing Pilling Problem of Cashmere Knitwear 開發減低羊絨衫起毛球的綜合方案	22	On-going 進行中	2,779,500	11%	- HKPC 香港生產力促進局	- Five private companies 五家私營公司
13.	Fabric Sensors for Three Dimensional Surface Pressure Mapping 分佈式三維表面壓力織物傳感器	24	On-going 進行中	8,025,400	11%	- PolyU 香港理工大學	- Three private companies 三家私營公司
14.	High-Performance Sportswear and Devices 高性能運動服與裝置	18	On-going 進行中	5,422,890	16%	- PolyU 香港理工大學	- Nine private companies 九家私營公司
15.	Development of a Fashion Sales Forecasting Decision Support System Using Artificial Intelligence Techniques 利用人工智能技術開發時裝銷售預測支援系統	24	On-going 進行中	2,799,995	10%	- PolyU 香港理工大學	- Four private companies 四家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
16.	Functional and Decorative Textile Products through Sputtering Technology 功能性與裝飾性的濺射鍍紡織產品	18	On-going 進行中	793,000	10%	- PolyU 香港理工大學	- Four private companies 四家私營公司
17.	Small Sized Fiber Sensors 微小型纖維傳感器	24	On-going 進行中	5,963,600	10%	- PolyU 香港理工大學	- Three private companies 三家私營公司
18.	Development of an Innovative Manufacturing Solution for Energy-saving and Environmental-friendly Production of Brassiere Cup 開發一套新穎的環保、節能及低消耗的胸杯生產技術	18	On-going 進行中	2,696,050	10%	- HKPC 香港生產力促進局	- Ten private companies 十家私營公司
19.	Novel Quick Testing Sensors of Formaldehyde in Textile Fabrics and Clothing Products 快速檢測紡織品殘留甲醛可攜式感測器	24	On-going 進行中	4,343,900	10%	- PolyU 香港理工大學	- Five private companies 五家私營公司
<b>Collaborative Research 合作研究</b>							
20.	Development of an Industrial Scale Multi-beam Supercritical Fluid Dyeing System and the Integrated Waterless Dyeing Process 發展一套工業化規模的多經軸超臨界染色系統以及組合無水染色工藝	24	On-going 進行中	8,346,000	50%	- HKPC 香港生產力促進局	- A private company 一家私營公司
<b>Contract Research 合同研究</b>							
21.	Energy Audit 能源審核	10	Completed 已完成	52,000	100%	- HKPC 香港生產力促進局	- A private company 一家私營公司
22.	Providing technical consultancy services for Competence Enhancement Programme 提供技術顧問服務給技能提升計劃	6	Completed 已完成	44,000	100%	- HKPC 香港生產力促進局	- A private company 一家私營公司

**Report of the R&D Centre on  
Logistics and Supply Chain Management Enabling Technologies  
(for the period July 2007 to May 2008)**

**1) R&D Activities**

**A. Formulating and Updating the R&D Roadmap**

1.1 A process has been established to collect industry opinions as industry input to the Centre's Call for Proposals program. The Centre will regularly solicit industry requirements through events and activities such as Industry & Technology Forum, company visits, and surveys etc. The Centre's Technology Group will then consolidate the information and generate a list of R&D Interests in consultation with Mainland China/HKSAR Government, strategic partners, R&D directors and research advisors. The Technology Group will validate the R&D Interests list with the industry to formulate the Preliminary R&D Roadmap and submit it to the Technology Committee for approval.

1.2 LSCM has launched a series of Industry & Technology Forum during the reporting period. The process as mentioned in Section 1.1 was applied and input from industry was collected. Based on the industry input, the Centre concluded an R&D Roadmap for 2007-2008 which was used as the basis for LSCM's Second and Third Call-for-Proposals.

**B. R&D Project Solicitation**

1.3 Based on the 2007-08 R&D Roadmap, the Centre conducted two rounds of Call-for-Proposals (project solicitations). The Second Call-for-Proposal was done in December 2007 with proposal submission deadline on 22 February 2008. The Third Call-for-Proposal was done in April 2008 with proposal submission deadline on 6 June 2008. Two briefing sessions for the Call-for-Proposal event and the Industry & Research Collaboration event were hosted in January and April 2008 respectively to facilitate industry practitioners and research professionals to exchange R&D ideas and to form partnerships.

**C. R&D Roadmap and Projects Undertaken**

1.4 In the upcoming year, the roadmap will continue to focus on three major areas:

- RFID Hardware and Systems
- Networking and Infrastructure Technologies
- Applications and Decision Support Technologies

1.5 As at end May 2008, there were 13 R&D projects undertaken by the Centre. With more than 90 private companies and R&D organisations participating in the projects, it is expected that the research outputs from these projects would benefit the competitiveness of local logistics and supply chain management industries, in particular, to enhance their technology advancement.

1.6 The project details are listed at Appendix I.

## **2) Centre Operations**

### **A. Centre Office**

2.1 LSCM will move its operational office to the Cyberport IV in late June 2008. The total size of our office will be about 792 m<sup>2</sup>. The new office will have a membership corner to display the industrial information in the logistics and supply chain management industry. A hardware laboratory will also be set up as part of our facilities for research.

### **B. Funding**

2.2 The Centre had spent around \$14 million in the 2007/2008 financial year which was within the original budget approved by its Board. The new budget plan for 2008/2009 will be below \$20 million.

### **C. Recruitment of Staff**

2.3 The Centre has recruited a total of 21 employees as of May 2008. We anticipate more talents will join the R&D teams upon new R&D ideas and projects materialised. It is expected that the Centre would have around 40 staff by end of 2008/2009 financial year.

## **3) Industry and Technology Program and Corporate Communications**

### **A. Industry and Technology Program**

3.1 During the reporting period, the Centre recruited around 250 new members, making a total of around 400 members to the Membership Program. Apart from business matching and project collaboration activities, members also actively participated in the Centre's events like Industry and Technology Forum, exhibitions, conferences, delegations as well as networking opportunities highlighted in the subsequent section.



## B. Corporate Communication

### 3.2 Corporate Website

The corporate website was revamped and launched on 21 May 2008. The new web pages are more informative on the funding solicitation as well as the corporate and membership activities. Last year, we had over 58,000 internet browsers visited our website and we expect that there is at least another 20% growth in the upcoming year.

### 3.3 Delegations

There were over eight delegations visited LSCM over the last year, including:

- The Innovation and Technology Commission (ITC) led a delegation of 21 representatives from Zhuhai to visit our Centre on 26 November 2007. ITC also organised a delegation visit from Hungary. Both parties were keen to establish R&D collaboration with LSCM.
- A delegation from the Ministry of Science and Technology led by the Mr Zhang Xian'en, Director-General of the Department of Basic Research visited the Centre on 21 May 2008.

Highlights of other major events and activities participated during the reporting period:

<b>Date</b>	<b>Activities</b>
6 Nov 2007	“Workshop for SMEs on DTTN and its Compatible Solutions (2)” organised by HKPC
8 Nov 2007	China International RFID Technology Development Congress in Zhuhai with the support of Shanghai Zhangjiang Group, Shanghai Base of National RFID Industrialization and Shanghai union
18-25 Nov 2007	A Logistics Study Mission to Germany organised by German Industry and Commerce Ltd.
19 Nov 2007	A forum “Connecting to the DTTN and Developing DTTN-Compatible Solutions (1)” organised by HKPC
10 Dec 2007	Visit by a delegation of 40 overseas representatives organised by Invest Hong Kong. LSCM’s Director of Research and Technology Development presented activities of LSCM and information of funding program.
12 Dec 2007	SME Workshop for Trading and Manufacturing organised by HKPC
12-14 Dec 2007	Seminar “Applied Technology Seminar – Logistics Industry” during the Inno Design Tech Expo (IDT Expo) organised by the HKTDC

<b>Date</b>	<b>Activities</b>
17 Dec 2007	Connecting to the DTTN and Developing DTTN-Compatible Solutions (2) organised by HKPC
17 Jan 2008	Visit by a delegation from Guangdong government authorities to explore further R&D collaborative opportunity
1 Mar 2008	1st China RFID Benchmarking Test Forum and Signing MOU Ceremony
27-28 Mar 2008	2008 China (3rd Beijing) International RFID Technology Forum in Beijing
17-20 Apr 2008	China Chongqing Hi-tech Fair
21 Apr 2008	Visit by a Xiamen delegation organised by The Chinese General Chamber of Commerce
10 May 2008	RFID 世界發展高峰論壇暨 2007 中國 RFID 行業十大最有影響力企業、產品、應用、事件頒獎典禮 in Shenzhen

Hong Kong R&D Centre for Logistics and  
Supply Chain Management Enabling Technologies  
June 2008

**Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies Limited**  
**香港物流及供應鏈管理應用技術研發中心有限公司**  
**R&D Projects as at end May 2008**  
**研發項目(截至 2008 年 5 月)**

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Platform Research 平台研究</b>							
1.	Study the Design Challenges of 90nm Technology UHF RFID Tag IC 90nm 工藝 UHF RFID 標籤 IC 之設計研究	18	On-going 進行中	2,249,965	11%	- The Chinese University of Hong Kong (CUHK) 香港中文大學	- Two private companies 兩家私營公司
2.	An eLogistics Appliance with Data Exchange and Conversion Technologies for Infrastructure Connectivity 電子物流設備 – 連接電子物流基礎建設的數據轉換及交換技術	18	On-going 進行中	6,649,600	10%	- The University of Hong Kong (HKU) 香港大學	- Five private companies 五家私營公司
3.	RFID Benchmarking: Methodology and Practice 無線射頻識別基準測試的關鍵技術之方法及應用	18	On-going 進行中	2,218,465	10%	- Hong Kong University of Science and Technology (HKUST) 香港科技大學	- Five private companies 五家私營公司
4.	RFID Enabling Technologies for Retail & Logistics Industry 支援零售及物流應用射頻識別技術之軟件平臺	12	On-going 進行中	7,378,475	21%	- HKU 香港大學	- Airport Authority Hong Kong 香港機場管理局 - Ten private companies 十家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
5.	RFID-based Interoperable Gateway for Logistics Service Platforms (RIG) 用於物流服務平臺互聯互通射頻識別交換閘 (RIG)	16	On-going 進行中	11,329,250	12%	- Hong Kong R&D Centre for Logistics and Supply Chain Management Enabling Technologies (LSCM R&D Centre) 香港物流及供應鏈管理應用技術研發中心	- Seven private companies 七家私營公司
6.	Integrated Passive UHF RFID Tags and Readers 集成無源 UHF 射頻識別讀取器和卷標	18	On-going 進行中	7,730,500	10%	- HKUST 香港科技大學	- Four private companies 四家私營公司
7.	Privacy Protection and Communication Security in RFID Systems RFID 系統的通訊安全和私人信息保護	6	Completed 已完成	1,971,100	0%	- LSCM R&D Centre 香港物流及供應鏈管理應用技術研發中心	Nil
8.	A Market Intelligence Study on Enabling Technologies for Industries related to Logistics & Supply Chain Management 物流及供應鏈管理相關行業應用技術的市場情報資訊研究	24	On-going 進行中	9,986,940	11%	- LSCM R&D Centre 香港物流及供應鏈管理應用技術研發中心	Nil
9.	RFID-Enabled Real-Time Manufacturing Shop-floor Information Infrastructure for PRD Processing Trade Enterprises 珠三角加工貿易企業基於 RFID 的實時製造信息平臺核心技術的研發	24	On-going 進行中	7,457,200	17%	- HKU 香港大學	- Seven private companies 七家私營公司
10.	Trustworthy RFID Technologies: Methodology and Practice 可信無線射頻識別的關鍵技術之方法及應用	24	On-going 進行中	4,456,525	16%	- HKUST 香港科技大學	- Seven private companies 七家私營公司
11.	Package-specific RFID Tagging and Embedding Technology 適用於產品包裝的 RFID 標籤及嵌入技術	18	On-going 進行中	14,352,975	12%	- LSCM R&D Centre 香港物流及供應鏈管理應用技術研發中心	- Six private companies 六家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
12.	RFID-enabled Platform Technology for the Integrated Shenzhen-Hong Kong Food Safety and Supply Chain Management Public Information Platform 深港一體化食品安全及供應鏈管理公共訊息平臺及 RFID 關鍵技術	24	On-going 進行中	9,999,992	11%	- HKU 香港大學 - CUHK 香港中文大學	- Eleven private companies 十一家私營公司
13.	Interoperability Technology and Applications for Container RFID and e-seal 集裝箱電子標籤與電子封條互聯互通技術及試點應用	24	On-going 進行中	9,591,250	12%	- LSCM R&D Centre 香港物流及供應鏈管理 應用技術研發中心	- Ten private companies 十家私營公司

**Report of the R&D Centre on  
Automotive Parts and Accessory Systems (APAS)  
(for the period July 2007 to May 2008)**

During the second year of the APAS R&D Centre operation, the Centre focused on getting R&D projects started. The Centre's efforts paid off with 20 projects approved as of May 2008. The plan forward is to continue on this path aggressively. As the initial group of projects bears fruits starting later this year, more industry sponsorship and technology commercialisation will follow. The Centre continues to be challenged with having the number and type of experienced technical talents to conduct R&D projects as the number of projects begins to grow. Working closely with industry and its major customers and leveraging technology globally have been the strategy of the Centre. The Centre has signed over 28 total Memorandum of Understanding (MOU) and Non-Disclosure Agreement (NDA) with partners globally. The Centre has reached out to Mainland China, the region with the fastest growing automotive industry in the world, and established our presence. Such promotion and networking will bring in greater opportunity for R&D cooperation and new business for the local APAS industry.

**R&D Programmes**

2. By the end of May 2008, in cooperation with Hong Kong Productivity Council (HKPC) and various local universities, the Centre has received approval for 20 R&D projects, of which 16 were approved during July 2007 and May 2008. These 20 projects include 12 Platform Technology projects, 2 Collaborative projects, 5 Seed projects and 1 Contract Research project. Details are given in Appendix I. Total project cost stands at \$66.9 million with ITF funding of \$54.7 million, which is 82% of the total cost.

3. In tandem with the R&D programme, the testing and certification laboratory of the Centre has been in operation since December 2007, providing specialised testing facilities for R&D projects. Furthermore, local APAS industry has also been invited to use this facility when excess capacity exists.

4. The Centre has launched the fourth round of Platform Proposal solicitation call. The Centre continues to reach out to the automakers and automotive parts suppliers in Hong Kong and the Mainland China. In this connection, the Centre will determine their technology needs and offer to cooperation to address their needs through R&D projects. Such modality of cooperation would enhance the chance of success in the commercialisation of the Centre research outcomes.

## **Promotion and Networking Activities**

5. The Centre has established a wide business network covering the automotive parts manufacturers and related industry groups of the Mainland China, taking the opportunity on every visit and networking events to publicise the Centre's work and related R&D opportunities. The Centre has organised technical seminars, workshops and road shows, and participated in major conferences, exhibitions and forums held locally and overseas. It has also established a close working relationship with the local and overseas universities and other primary R&D organisations in Hong Kong and elsewhere. A number of companies and research institutions have close working partnership with the Centre as illustrated by 28 MOU and NDA partners signed with the Centre as given in Appendix II. A list of publicity and promotional activities undertaken by the Centre during the period from July 2007 to May 2008 is given in Appendix III. Noteworthy is the Centre's co-sponsorship of the International Automotive Parts Expo held at the AsiaWorld-Expo in April 2008. This event attracted 183 exhibitors from 10 countries around the world.

6. The APAS R&D Centre Club membership stood at 214 as at end May 2008, with 53% from the APAS industry and 45% from education and research institutions. The Centre publicises the latest activities on its website (<http://www.apas.hk>), through which Club Members can have access to useful industry information, industry reports, standards and engineering specifications of major global automotive makers, technical papers, and etc.

## **Centre Operation and General Administration**

7. The Centre has an operational staff and, as the Centre has initiated its own R&D projects since the last few months, a team of R&D research staff. As directed by the Board, the Centre is to operate with a very lean R&D research staff while heavily leverage technical staff from HKPC and other strategic partners. Meanwhile, the Centre continues to leverage HKPC, as the host organisation, to provide finance, human resources, administration and information technology support to the Centre.

8. The operational expenditure of the Centre in fiscal year 2007/08 amounted to \$16.2 million, which was in line with the budget.

## **Future Activities**

9. The Centre plans to undertake 35 R&D projects in 2008/09. It plans to maintain a good pace in project flow while gradually shifting to more commercialisation projects that take the Platform project results to the market. The strategy is to enhance its networking with automotive industry and academia, and to promote its role and activities, as well as its R&D capabilities and related facilities. It has also planned to enhance its corporate image through a number of networking and

promotional activities, including seminars, and workshops especially in Hong Kong, the Pearl River Delta region, and in other parts of Mainland China.

10. The Centre attaches great importance to the Members Club which is a fermenting ground for potential industry partners or sponsors in R&D projects. The Centre will strengthen its services for Members Club going forward and gear up its membership drive to recruit new members from various industry sectors.

Automotive Parts and Accessory Systems R&D Centre  
June 2008



**Automotive Parts and Accessory Systems R&D Centre Limited**  
**汽車零部件研究及發展中心有限公司**  
**R&D Projects as at end May 2008**  
**研發項目(截至 2008 年 5 月)**

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Platform Research 平台研究</b>							
1.	Battery-less Tire Pressure Monitoring System 無電池輪胎壓力監測系統	12	On-going 進行中	1,830,010	11%	- The Chinese University of Hong Kong 香港中文大學 - Hong Kong Productivity Council (HKPC) 香港生產力促進局	- Two private companies 兩家私營公司
2.	Low Cost Direct Drive for Electric Vehicles 發展電動車的低成本直接驅動器	18	On-going 進行中	4,570,900	10%	- The Hong Kong Polytechnic University (PolyU) 香港理工大學	- Three private companies 三家私營公司
3.	Powder Metal Forming Technology for High Temperature Light Weight Aluminium-Titanium Alloys 高溫金屬粉末成形技術用於製造輕鋁鈦合金	18	On-going 進行中	3,295,087	27%	- City University of Hong Kong 香港城市大學 - Automotive Parts and Accessory Systems R&D Centre Limited (APAS R&D Centre) 汽車零部件研究及發展中心有限公司(汽車零部件研發中心)	- Three private companies 三家私營公司
4.	Development of Microcellular Foam Injection Moulding Technology Incorporated with Co-injection Technology for Producing High Quality and Value-added Plastic Automotive Parts 開發微發泡注塑與共注塑結合技術於生產高質量及高增值塑料汽車部件	18	On-going 進行中	3,699,420	11%	- HKPC 香港生產力促進局	- Four private companies 四家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
5.	Development of Advanced Tube Hydroforming Technology for Making Complicate-Shaped Metallic Tubular Automotive Parts 開發應用於複雜金屬管狀汽車零部件製造之管件液壓成型技術	24	On-going 進行中	3,655,000	12%	- HKPC 香港生產力促進局	- Nine private companies 九家私營公司
6.	Integrated Battery Charger and Motor Drive Systems 混合型電池充電及電機驅動系統	18	On-going 進行中	4,400,000	10%	- PolyU 香港理工大學 - APAS R&D Centre 汽車零部件研發中心	- Two private companies 兩家私營公司
7.	Development of Electronic Control Unit (ECU) for Vehicle Anti-lock Braking System (ABS) and Electronic Stability Control (ESC) System 汽車防鎖死制動系統及電子穩定系統電子控制單元的開發	18	On-going 進行中	5,598,072	10%	- Texas A&M University 美國德克薩斯州大學 - APAS R&D Centre 汽車零部件研發中心	- Two private companies 兩家私營公司
8.	A New Generation of Electric Vehicle Power Pack Platform 新一代電動汽車動力平台	24	On-going 進行中	4,450,000	10%	- Sun Yat-sen University 中山大學 - HKPC 香港生產力促進局 - APAS R&D Centre 汽車零部件研發中心	- Three private companies 三家私營公司
9.	Development of Automotive Headlamp System for LED Light Source 開發以 LED 為光源的汽車頭燈系統	18	On-going 進行中	4,241,410	15%	- Hong Kong Applied Science and Technology Research Institute Company Limited 香港應用科技研究院 - HKPC 香港生產力促進局	- Three private companies 三家私營公司
10.	Development of an Automobile Hybrid Air Conditioning System Technology 開發汽車混合動力空調系統科技	14	On-going 進行中	2,781,178	10%	- PolyU 香港理工大學 - Vocational Training Council 職業訓練局 - APAS R&D Centre 汽車零部件研發中心	- Seven private companies 七家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
11.	Development of Software and Hardware Platform and Methodology for Integrated Configurable Dashboard Design 集成的可配置儀錶板設計平臺的研發項目	24	On-going 進行中	7,996,022	12%	- HKPC 香港生產力促進局	- Four private companies 四家私營公司
12.	To Develop a Versatile Hydraulic Control Unit (HCU) for an Integrated Chassis Electronic Stability Control (ESC) System 發展一套全面的液壓控制裝置(HCU)予綜合汽車電子穩定系統(ESC)	18	On-going 進行中	3,986,378	15%	- South China University of Technology 華南理工大學 - HKPC 香港生產力促進局	- Three private companies 三家私營公司
<b>Collaborative Research 合作研究</b>							
13.	Development of Automobile Advanced Frontlight System 開發汽車先進前大燈系統	14	On-going 進行中	7,058,664	51%	- HKPC 香港生產力促進局	- One private company 一家私營公司
14.	Development of an Integrated Map Matching based Automotive Navigation System 開發以地圖匹配為基礎的綜合汽車導航系統	12	On-going 進行中	3,799,456	50%	- APAS R&D Centre 汽車零部件研發中心 - PolyU 香港理工大學	- One private company 一家私營公司
<b>Seed Research 種子研究</b>							
15.	Battery Management Control Strategy 混合能源及電動車用電池管理方略	6	Completed 已完成	997,760	0%	- PolyU 香港理工大學 - APAS R&D Centre 汽車零部件研發中心	Nil
16.	Development of I.C. Engine Control Strategies 研發內燃機控制策略	6	On-going 進行中	999,590	0%	- Michigan State University 密其根州立大學 - APAS R&D Centre 汽車零部件研發中心	Nil
17.	Long Vehicle Wireless Backup Monitor System 長身車輛無線倒車監視系統	6	On-going 進行中	959,471	0%	- HKPC 香港生產力促進局 - APAS R&D Centre 汽車零部件研發中心	Nil

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
18.	Automotive Electronic Sub-system Design Guideline 汽車電子組件設計指引	6	On-going 進行中	999,993	0%	- PolyU 香港理工大學 - APAS R&D Centre 汽車零部件研發中心	Nil
19.	Development of AMT Controls and Systems 研發手自一体變速的控制與系統	6	On-going 進行中	999,363	0%	- University of Minnesota 美國明尼蘇達大學 - Michigan State University 密其根州立大學 - APAS R&D Centre 汽車零部件研發中心	Nil
<b>Contract Research 合同研究</b>							
20.	VMS Control Strategy Development Consultation for Plug-in FCV Project VMS 控制策略開發諮詢	18	On-going 進行中	460,000	100%	- APAS R&D Centre 汽車零部件研發中心	- One private company 一家私營公司

**Appendix II to Annex IV**

**Table of MoU's**

<b>First Party</b>	<b>Second Party</b>	<b>Third Party</b>	<b>Sign date</b>
Kinway Technology Ltd	APAS	Wuzhoulong Motors Group Corp	22.5.2007
APAS	Shanghai Maple Automobile Co. Ltd		7.6.2007
APAS	Shanghai Jiao Tong University (SJTU)		20.7.2007
APAS	Sun Yat-Sen University (SYSU)		7.7.2007
APAS	University of Shanghai for Science & Technology (USST)		9.11.2007
APAS	Michigan State University (MSU)		1.10.2007
APAS	Hamlin Electronics Europe Limited		16.8.2007 & 29.8.2007
APAS	Texas A&M University (TAMU)		28.8.2007
APAS	Guangzhou Yi Wei Electric Vehicle Co. Ltd.		10.7.2007
APAS	Norstar Automobile Industrial Holding Ltd.		5.11.2007
APAS	Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences (SIAT)		10.12.2007
APAS	University of Minnesota (UMN)		28.1.2008
APAS	Huizhou ForYou Group Corp Ltd		29.2.2008
APAS	Beijing Aipuman Technology Ltd		1.2.2008
APAS	Guangzhou Yiwei Electric Vehicles Ltd	Sun Yat-sen University	22.2.2008
APAS	Chongqing Jiulong Ruber Ltd		5.3.2008
APAS	Dongfeng (Wuhan) Motors Ltd		27.3.2008

**Table of NDA's**

<b>Parties</b>		<b>Date</b>	
APAS	SAIC Motor Corporation Limited	31.7.07	1 yr
APAS	Sun Yat-Sen University	7.7.2007	3 yr
APAS	Suzhou Phyllion Battery Company Limited	14.8.2007	5 yr
APAS	Norstar Automobile Industrial Holding Ltd.	27.8.2007	5 yr
APAS	Michigan State University	24.1.2008	1 yr
APAS	Surface Mount Technology Ltd.	13.8.2007	2+1 yr
APAS	The University of Hong Kong	6.12.2007	2 yr

<b>Parties</b>		<b>Date</b>	
APAS	Boshi Industries Ltd.	6.12.2007	5 yr
APAS	Various parties (CU and sponsors)	1.2.2008	5 yr
APAS	Chongqing Jiulong Ruber Ltd	5.3.2008	5 yr
APAS	Dongfeng (Wuhan) Motors Ltd	27.3.2008	5 yr

**Appendix III to Annex IV**

**List of Organised and Participated Events**

- 2007 SAE World Congress (attended)
- AutoShanghai 2007 (booth and guest speaker)
- Hong Kong International Auto Parts Fair (booth, guest speaker, seminar)
- 2007 華南國際汽車電子展覽會 Nepcon (booth, guest speaker)
- Innovation Expo 2007 (booth)
- Auto Parts Shanghai 2007 (booth, guest speaker)
- China Hi-Tech Fair 2007 (booth)
- Innovation, Design and Technology Expo (booth)
- Centre Open House
- Project Collaboration Workshop
- CEO visited MSU and Norstar Michigan
- CEO participated in HK High-level Partnership Mission to Jilin
- Director (Research and Technology) visited MSU and UofM
- Director (Research and Technology) in SAE HEV seminar (Beijing) and APEC Conf. (Suzhou) (speakers for the both)
- Director (Research and Technology) in Automotive Innovation China Summit (invited VIP)
- Director (Research and Technology) visited Geely, Maple, Norstar and SAIC
- Director (Research and Technology) joined HKAPIA study mission to Wuhan
- Director (Research and Technology) visited Chery and JAC
- Director (Research and Technology) and Director (Business Development and Commercialization) visited Shanghai Auto Show, SAIC, Key Safety, SH Jiaotong University, Chery
- Director (Business Development and Commercialization) visited Dongfeng in Wuhan
- Director (Business Development and Commercialization) visited Chery and Nanjing Automobile
- Associate Director (Quality and Compliance) attended 2007 China Automotive Testing Expo in Shanghai
- CEO met with GAEC in Guangzhou

**Report of the R&D Centre on  
Information and Communications Technologies (ICT)  
(for the period July 2007 to May 2008)**

**Activities over the period**

R&D Projects

Before the establishment of the ICT R&D Centre, ASTRI was undertaking 16 on-going projects. Since April 2006, ASTRI has 70 projects approved by ITC, of which 43 were approved during July 2007 and May 2008. Details of the 70 projects are at Appendix I.

Technology Transfer and Industry Contribution

2. The number of annual technology transfers from ASTRI to the industry has grown from a total of 2 in 2003/04 to 50 in 2007/2008 annually. For the period from April 2006 to May 2008, ASTRI transferred 93 technologies to the industry, of which 50 were transferred during July 2007 and May 2008. Details are at Appendix II.

Patent

3. Patent reflects innovation and inventiveness. They also add value to transferring technologies. The number of patents filed by ASTRI reached 46 in 2007/08. For the period from April 2006 to May 2008, ASTRI filed 171 patent applications, of which 96 were filed during July 2007 and May 2008.

Collaboration with Universities

4. Since April 2006, ASTRI has engaged the Hong Kong University of Science and Technology (HKUST), Chinese University of Hong Kong (CUHK), City University of Hong Kong (CityU) and the Hong Kong Polytechnic University in a number of projects in the areas of internal antenna design, light emitting diode backlight unit, high definition TV technologies, low cost high density packaging technologies etc.

Mainland Partnership

5. To promote its technologies in Mainland China, ASTRI has a total of 232 activities and partnerships in Mainland China. ASTRI has organised and participated in 136 technology forums, seminars, international conferences and exhibitions. It has also signed 45 Memorandum of Understanding (MOU), Non-Disclosure Agreement (NDA) and Letter of Intent (LOI), and formed 43 business collaborations



and joint labs. ASTRI has also participated in 8 technology standard bodies for strategic placement of its intellectual properties, such as China Communications Standards Association (CCSA), Intelligent Grouping and Resources Sharing (IGRS), Audio Video Coding Standard (AVS) and Solid State Lighting (SSL). Please refer to detailed listings in Appendix III.

### Promotional and Networking Activities

6. ASTRI has organised and participated in a total of 502 branding, marketing and publicity events in Asia, the US and Europe; comprising technology forums, seminars, international conferences, expositions, industry and community outreach activities, press and media relations, VIP visits, lab tours and corporate strategic meetings. These promotional and networking activities have enhanced the visibility and branding of ASTRI in the international technology arena, and have also helped positioned Hong Kong as a global leader in information and communications technologies. Please refer to detailed listings in Appendix IV.

### **Future Activities**

#### Projects

7. In the fiscal year 2008/09, ASTRI plans to launch 37 new projects. ASTRI plans to focus on technology that will help Hong Kong, the Pearl River Delta and Mainland China. It turns out that most of the projects require the implementation in integrated circuit (IC) chipsets, be it DTV decoders, set-top boxes, multimode tuners, multimode modulators, large dynamic display drivers, or RFIC chips. We have so far established solid teams in wireless, packaging and consumer electronics with our own intellectual property (IP). IC design and implementation appear to be an area we can make an impact to the local industry.

8. ASTRI has recently initiated new industry collaboration projects (ICP). These ICP projects have between 50-100% industry contributions and involve industry partners. They represent a new funding model that will help increase industry support and income for ASTRI.

9. Lastly, Hong Kong should also explore technology that is important to Hong Kong's long term future but may not have immediate payback. These could include environment, energy and medical devices. In short, ASTRI's current and future plans for ICT technology development and an Industry Fellowship program will be key to meeting Hong Kong's digital society and knowledge based society needs.

#### Technology Transfer

10. ASTRI aims to transfer 55 technologies to the industry in 2008/09, which is

about 10% growth over its achievement of 50 technology transfers in 2007/08.

#### Patent

11. ASTRI is currently drafting 17 patent applications. The target for 2008/09 is 65 applications.

#### Collaboration with Universities

12. While Hong Kong has developed outstanding engineering schools plus excellent science departments, the manufacturing base along with engineering jobs has moved inland. Nevertheless, because of the requirement of IP protection, a large number of small fabless IC design houses have sprung up in Hong Kong. There is now an urgent need of experienced IC designers in Hong Kong. To help produce a large number of these specialists, we have initiated a new ASTRI Industry Fellowship to be sponsored by CityU, CUHK, the University of Hong Kong, HKUST and local industry, as well as ITF funding. We expect to start with 20-30 industry fellows focusing on IC design. If successful, we would consider expanding into other areas such as wireless communication and consumer electronics.

#### Mainland Partnership

13. ASTRI will continue to liaise and collaborate with municipal, provincial and national science and technology agencies, high-tech science parks, business corporations and enterprises to promote its technologies for industry transfers and commercialisation.

#### Promotional and Networking Activities

14. In the coming months, ASTRI plans to hold a series of seminars, forums, conferences, and media activities to continue with its promotional and networking efforts.

Hong Kong R&D Centre for Information and Communications Technologies  
June 2008

**The Hong Kong Applied Science and Technology Research Institute Company Limited**  
**香港應用科技研究院有限公司**  
**R&D Projects as at end May 2008**  
**研發項目(截至 2008 年 5 月)**

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Platform Research 平台研究</b>							
1	Advanced Broadband Wireless Technologies Platform 先進無線寬帶技術平台	17	Completed 已完成	14,430,179	10%	- The Hong Kong Applied Science and Technology Research Institute (ASTRI) 香港應用科技研究院 (應科院)	- A private company 一家私營公司
2	Customizable Element Management System (EMS) for Wireless Networks: CWMS 可定制無線網絡網元管理系統	17	Completed 已完成	9,795,858	7%	- ASTRI 應科院	- Five private companies 五家私營公司
3	LED for General Lighting – Area Light Source (Phase I & Phase II) LED 於一般照明之面光源應用 (第一及第二階段)	20	On-going 進行中	14,849,140	15%	- ASTRI 應科院 - Hong Kong Standards and Testing Centre 香港標準及檢定中心	- Three private companies 三家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
4	Wireless Personal Area Networking and Streaming Media Access Control WPAN 多媒體資訊流的協議處理器之開發和應用	18	Completed 已完成	16,105,052	14%	- ASTRI 應科院 - Office of the Telecommunication Authority (OFTA) 電訊管理局	- Four private companies 四家私營公司
5	High Definition TV Technologies Applied Research Platform <sup>@</sup> 高清電視技術應用研究平臺 <sup>@</sup>	24	On-going 進行中	13,868,419	0%	- ASTRI 應科院 - Peking University 北京大學 - Tsinghua University 清華大學 - Chinese University of Hong Kong (CUHK) 香港中文大學 - Hong Kong University of Science & Technology (HKUST) 香港科技大學 - The Hong Kong Polytechnic University (PolyU) 香港理工大學	Nil
6	Portable Dual Mode Wireless and Broadcast Multimedia Platform (Phase I & Phase II) 數位廣播及無線網路多模移動多媒體平臺 (第一及第二階段)	18	On-going 進行中	16,259,377	10%	- ASTRI 應科院	- Five private companies 五家私營公司

<sup>@</sup> This project targets advanced technologies which are of strategic value to ASTRI. Industry contribution requirement has been waived for the project, as approved by ASTRI's Board of Directors.

此項目以發展先進科技為目標，對應科院具策略價值，獲應科院董事局批准豁免業界贊助的要求。

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
7	Smart Optical Sensors 智能光學傳感器	18	Completed 已完成	12,060,000	10%	- ASTRI 應科院	- Three private companies 三家私營公司
8	Advanced Indoor MIMO Platform 先進室內多輸入多輸出平台	18	Completed 已完成	14,823,908	10%	- ASTRI 應科院 - HKUST R&D Corporation Limited 香港科大研究開發有限 公司	- Three private companies 三家私營公司
9	Multi-Media Platform for Algorithm & Application Development (MMP-EMU) (Phase I & Phase II) 開發多媒體應用系統平台(第一及第二階段)	15	Completed 已完成	15,003,630	10%	- ASTRI 應科院	- Three private companies 三家私營公司
10	Application Specific AMS IC Design Platform for Integrated CCD Image Sensor Processing 用於 CCD 圖像傳感處理的混合信號專用集成電路設計平 臺	18	On-going 進行中	11,944,060	9%	- ASTRI 應科院 - The University of Hong Kong (HKU) 香港大學	- A private company 一家私營公司
11	Power Management Integrated Circuits for Portable Consumer Electronics 用於攜帶型消費電子產品的電源管理積體電路	12	Completed 已完成	8,762,000	10%	- ASTRI 應科院	- Two private companies 兩家私營公司
12	Digital Living Platform Full Project 數碼生活科技平台	12	Completed 已完成	4,870,582	11%	- ASTRI 應科院 - Intelligent Grouping & Resource Sharing (IGRS) 閃聯聯盟	- Six private companies 六家私營公司
13	Client-based wireless Hotspot Access Technology 客戶機無線上網據點接入技術	12	On-going 進行中	9,638,445	9%	- ASTRI 應科院	- Seven private companies 七家私營公司
14	High Dynamic Range (HDR) Display System - Using Active-Dynamic LED Backlight 主動式動態 LED 背光在高動態範圍顯示系統的應用	17	On-going 進行中	15,410,200	10%	- ASTRI 應科院	- Three private companies 三家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
15	Low-Cost Solution for High Performance and High-Density Packaging (LCHDP-F) 高功能與高密度電子構裝之低成本方案	18	On-going 進行中	11,988,000	10%	- ASTRI 應科院	- Six private companies 六家私營公司
16	OFDM Core for Digital TV Applications (DTMBCore) OFDM 核數字電視應用	18	On-going 進行中	16,342,809	9%	- ASTRI 應科院 - Digital Television Technology R&D Center of Tsinghua University 清華大學數字電視技術 研究中心	- Three private companies 三家私營公司
17	Joint Lab Foundation Platform Technologies (JL-FPT) 聯合實驗室基礎平台技術	36	On-going 進行中	8,510,249	0%	- ASTRI 應科院	Nil
18	DTMB Instrumentation and Testing Platform (JL-ITP) DTMB 測試技術	9	On-going 進行中	3,144,717	10%	- ASTRI 應科院 - Digital Television Technology R&D Center of Tsinghua University 清華大學數字電視技術 研究中心 - Hong Kong Science and Technology Parks Corporation 香港科技園公司	Nil

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
19	DTMB SFN Technology Adaptors and Systems (JL-SFN) DTMB 單頻網技術	12	On-going 進行中	3,964,835	10%	- ASTRI 應科院 - Digital Television Technology R&D Center of Tsinghua University 清華大學數字電視技術 研究中心 - Hong Kong Science and Technology Parks Corporation 香港科技園公司	Nil
20	AVS FPGA Video/Audio Decoder on Emulation Platform (MMP-AVS) AVS FPGA 視頻/音頻解碼器開發平台	15	On-going 進行中	15,879,280	10%	- ASTRI 應科院	- Four private companies 四家私營公司
21	Thermal Management with Advanced Materials and Structures (TEMA) 使用先進散熱材料及結構設計的熱管理方案	20	On-going 進行中	13,010,000	11%	- ASTRI 應科院	- Two private companies 兩家私營公司
22	Advanced Wireless Super-Physical Layer for Wireless Personal Area Networking Core Technology Platform (WiSPHY) 用於無線個人區域網絡核心技術平台的先進無線超寬帶 物理層技術	18	On-going 進行中	14,577,809	13%	- ASTRI 應科院 - OFTA 電訊管理局 - CUHK 香港中文大學 - HKUST 香港科技大學	- Two private companies 兩家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
23	Interactive TV Technologies Platform (iTV) 互動電視技術平台	12	On-going 進行中	9,179,926	10%	- ASTRI 應科院 - Fudan University 復旦大學 - Hong Kong Cyberport Management Company Limited 香港數碼港管理有限公 司	- Five private companies 五家私營公司
24	iShare Media Sharing Platform (iShare) iShare 媒體傳輸共用平臺	12	On-going 進行中	8,941,365	10%	- ASTRI 應科院 - HKUST 香港科技大學 - CUHK 香港中文大學	- Six private companies 六家私營公司
25	Next Generation Antenna Sub-Assemblies (NGASA) 下一代天線組裝配件	18	On-going 進行中	8,459,520	7%	- ASTRI 應科院	- Four private companies 四家私營公司
26	Dualmode CWPAN/ZigBee RFIC Transceiver (CWPAN) 雙模 CWPAN/ZigBee 射頻收發器晶片	16	On-going 進行中	10,894,300	10%	- ASTRI 應科院	- A private company 一家私營公司
27	A Novel method of removing sapphire for solid-state lighting power GaN LEDs (CMP) 用於固態照明大功率 GaN 發光二極體的藍寶石剝離新方 法	18	On-going 進行中	14,451,000	10%	- ASTRI 應科院 - HKUST 香港科技大學	- Two private companies 兩家私營公司
28	Mixed Signal System-On-Chip (AMS SoC) Design Platform (MSOC) 混合信號片上系統 (AMS SoC) 設計平臺	18	On-going 進行中	9,220,000	12%	- ASTRI 應科院	- Four private companies 四家私營公司
29	Integrated Driver Solution for LED Solid State Lighting (SSL) (LED-IC) 集成 LED 半導體照明驅動解決方案	12	On-going 進行中	9,235,000	12%	- ASTRI 應科院	- Two private companies 兩家私營公司



No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
30	Advanced Compact Camera Module (ACCM) for Cellular Phone Applications (ACCMF) 照相手機用的先進微數碼相機模組	17	On-going 進行中	13,265,950	10%	- ASTRI 應科院	- Eleven private companies 十一家私營公 司
31	MMP AVS/H.264 Si-Proven Test Chip Development (MMP-SIP) 開發測試用晶片用以驗證 MMP AVS/H.264 IP	15	On-going 進行中	13,081,900	10%	- ASTRI 應科院	- Four private companies 四家私營公司
32	Future Multimedia Standards (FMS) 下一代多媒體標準研究	24	On-going 進行中	13,010,352	0%	- ASTRI 應科院 - City University of Hong Kong 香港城市大學 - CUHK 香港中文大學 - PolyU 香港理工大學 - HKUST 香港科技大學	Nil
33	LED-based Intelligent Outdoor Lighting System (IOL) 智慧型的 LED 戶外照明系統	17	On-going 進行中	10,500,000	10%	- ASTRI 應科院	- A private company 一家私營公司
34	Digital Living Platform # 數碼生活科技平台 #	6	Completed 已完成	1,595,000	0%	- ASTRI 應科院	Nil
35	Low-Cost Solution for High-Performance and High-Density Packaging # 高性能與高密度電子構裝之低成本方案 #	6	Completed 已完成	1,830,000	0%	- ASTRI 應科院	Nil
36	Digital Multimedia Broadcast Terrestrial (DMB-T) Television Baseband Demodulator Development # 地面數字多媒體廣播(DMB-T)電視基帶解調開發 #	6	Completed 已完成	1,985,000	0%	- ASTRI 應科院	Nil

# These are seeds projects which have applied for funding within \$2 million each with duration confined to a 6-month period and would require the endorsement of ASTRI's CEO only. The industry contribution requirement is not imposed on seed projects.  
這些種子項目的撥款要求在二百萬元之內，限於六個月內完成，並只需獲得應科院行政總裁的批准便可進行。業界贊助的要求並不適用於這些種子項目。

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
37	Digital Multimedia Broadcast Terrestrial (DMB-T) Television RF Tuner Development # 地面數字多媒體廣播(DMB-T)電視射頻接收開發 #	6	Completed 已完成	1,987,000	0%	- ASTRI 應科院	Nil
38	Embedded Peer-to-Peer Media Distribution Technology # 嵌入式點對點多媒體傳送技術 #	6	Completed 已完成	1,981,200	0%	- ASTRI 應科院	Nil
39	Next Generation Anode Material for Lithium Ion Batteries (NALI) (Carbon Matrix Embedded Metal Phosphide Nano-composite) # 新一代鋰電池陽極材料(碳材包覆金屬磷化物奈米複合材料) #	6	Completed 已完成	1,878,000	0%	- ASTRI 應科院	Nil
40	Networked TV Usability and Interoperability Technology # 網絡電視優使性和互連性技術 #	6	Completed 已完成	1,852,000	0%	- ASTRI 應科院	Nil
41	Cost-effective Packaging Solutions for Automotive Electronics # 具經濟效益的汽車電子封裝技術 #	6	Completed 已完成	1,824,000	0%	- ASTRI 應科院	Nil
42	Feasibility Study of New GaN Thin Film LED Technology # 氮化鎵薄膜發光二極管技術開發之可行性研究 #	6	Completed 已完成	1,805,000	0%	- ASTRI 應科院	Nil
43	Recordable Electrical Memory / Single Address with Multiple Data Storage (REME/SAM) # 具有多重記錄狀態之一次性電子記憶器 #	6	Completed 已完成	1,880,000	0%	- ASTRI 應科院	Nil
44	Cost Effective Fabrication for Antenna-and-RF Module (CEFA) # 高效益無線通訊模組製備 #	6	Completed 已完成	1,827,000	0%	- ASTRI 應科院	Nil
45	Cache-Facilitated Media Delivery Technology # 緩衝貯存促進的媒體傳送技術 #	6	Completed 已完成	1,856,295	0%	- ASTRI 應科院	Nil
46	Surface Mount RF Switches for Reconfigurable Antennas # 可重構天線用表面貼裝的射頻開關 #	6	Completed 已完成	1,794,000	0%	- ASTRI 應科院	Nil
47	Anti-shaking Compact Camera Module for Cellular Phone Applications # 防震動手機用微型照相機模組 #	6	Completed 已完成	1,810,000	0%	- ASTRI 應科院	Nil
48	Nanometer IC Design Technology # 納米集成電路設計技術 #	6	Completed 已完成	1,659,600	0%	- ASTRI 應科院	Nil

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
49	Ultra Low Complexity Speech Coding # 超低音雜性的語音編碼技術 #	6	Completed 已完成	1,083,700	0%	- ASTRI 應科院	Nil
50	Application of ASTRI Technologies for China UWB Standards # ASTRI 超寬帶技術應用於中國無線超寬帶標準 #	6	Completed 已完成	1,929,509	0%	- ASTRI 應科院	Nil
51	DTMB STB Reference Design # 符合中國地面數字電視廣播標準的基本型機頂盒參考設計 #	6	Completed 已完成	1,893,623	0%	- ASTRI 應科院	Nil
52	Active Dynamic Backlight Control (ADBC) ASIC Firm IP for High Contrast LCD Display # 高對比度 LCD 顯示器中的主動式動態背光控制 ASIC Firm IP #	6	Completed 已完成	1,899,000	0%	- ASTRI 應科院	Nil
53	LED Based Street Lamp # LED 路燈 #	6	Completed 已完成	1,993,000	0%	- ASTRI 應科院	Nil
54	T-DMB Digital TV/Audio Baseband Demodulator # T-DMB 地面數字電視/電台廣播解調器 #	6	Completed 已完成	1,896,283	0%	- ASTRI 應科院	Nil
55	DVB-H Core for Multimode Mobile TV # 多制式移動數碼電視 DVB-H 核心 #	6	Completed 已完成	1,899,086	0%	- ASTRI 應科院	Nil
56	Feasibility Study of Personal Miniature Projector # 個人用微型投影機之可行性研究 #	6	Completed 已完成	1,995,600	0%	- ASTRI 應科院	Nil
57	H.264 Video Encoding Accelerator on PC-driven FPGA Development Platform # 基於電腦驅動 FPGA 開發平台的 H.264 視像編碼加速器 #	6	Completed 已完成	1,951,600	0%	- ASTRI 應科院	Nil
58	Advanced & Affordable MRI Systems (aMRI) # 先進和付得起的磁共振圖象系統 #	6	On-going 進行中	1,980,920	0%	- ASTRI 應科院 - A private company 一家私營公司	Nil
59	Reliability Engineering for 3D Packaging # 三維封裝的可靠性工程 #	6	On-going 進行中	1,924,000	0%	- ASTRI 應科院	Nil
60	Peer-to-Peer Session Initiation Protocol # 點對點會話發起協議 #	6	On-going 進行中	1,962,546	0%	- ASTRI 應科院	Nil

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
61	Intellectual Property Quality Infrastructure -- Quality Index # 知識產權質量基礎--質量指數 #	6	On-going 進行中	1,898,600	0%	- ASTRI 應科院	Nil
62	NFC Anti-Counterfeiting Wireless Platform (NFC) # 近場通信反假冒無線平台 #	6	On-going 進行中	1,691,000	0%	- ASTRI 應科院 - HKU 香港大學 - A private company 一家私營公司	Nil
63	Cost-Effective and Reliable Packaging Platform Technologies for Wearable Electronics # 具經濟效益及可靠的穿戴式電子封裝技術平台 #	6	On-going 進行中	1,930,000	0%	- ASTRI 應科院	Nil
64	Technology Development of DMX Embedded Wireless Lighting Control System # DMX 嵌入式無線照明控制系統開發 #	6	On-going 進行中	1,866,000	0%	- ASTRI 應科院	Nil
65	Feasibility of Piezoelectric MRE Driver Array # 用壓電驅動器陣列的磁力共振彈性成像之可行性 #	6	On-going 進行中	1,953,048	0%	- ASTRI 應科院	Nil
66	Access Service Network Gateway (ASN-GW) Platform # 移動無線接入網網關 #	6	On-going 進行中	1,998,368	0%	- ASTRI 應科院	Nil
67	Intelligent Home (In conjunction with Digital Living Consortium Continued Operations) # 智能家居(及數碼生活聯盟的延續運作) #	6	On-going 進行中	1,992,508	0%	- ASTRI 應科院	Nil
68	Internet Tablet Service Kit # 便攜網絡服務開發包 #	6	On-going 進行中	1,687,471	0%	- ASTRI 應科院	Nil
<b>Industry Collaborative Projects</b>							
69	Blu-ray Enabled High Definition Home Entertainment Center 藍光高清家庭娛樂中心	9	On-going 進行中	3,036,400	50%	- ASTRI 應科院	- A private company 一家私營公司
70	Development and Commercialization of Key IC Packaging Technologies for Tire Pressure Monitoring System 胎壓監測系統中的關鍵芯片封裝技術的開發及產業化	26	On-going 進行中	9,320,000	50%	- ASTRI 應科院	- A private company 一家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
<b>Contract Service 合約服務*</b>							
71	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	Completed 已完成	273,000	100%	- ASTRI 應科院	- A private company 一家私營公司
72	IP Set Top Box customization I 電視機頂盒顧問服務	12	Completed 已完成	234,000	100%	- ASTRI 應科院	- A private company 一家私營公司
73	Home Media Center Product reference design 家庭媒體中心顧問服務	12	Completed 已完成	249,600	100%	- ASTRI 應科院	- A private company 一家私營公司
74	Power IC packaging design and analysis 電源電路封裝設計及分析	2	Completed 已完成	150,000	100%	- ASTRI 應科院	- A private company 一家私營公司
75	Wireless Video Adapter 無線視頻傳輸適配器技術	6	On-going 進行中	780,000	100%	- ASTRI 應科院	- A private company 一家私營公司
76	Si Wafer Fabrication 製造矽晶圓服務	1	Completed 已完成	30,850	100%	- ASTRI 應科院	- A private company 一家私營公司
77	Real Time Surveillance recorder software 實時監察系統軟件	12	Completed 已完成	20,000	100%	- ASTRI 應科院	- A private company 一家私營公司
78	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	Completed 已完成	78,000	100%	- ASTRI 應科院	- A private company 一家私營公司
79	VoIP phone feature enhancement 改善網絡電話功能顧問服務	12	Completed 已完成	226,000	100%	- ASTRI 應科院	- A private company 一家私營公司

\* Contract service projects are not required to be endorsed by the Commissioner for Innovation and Technology (CIT).  
合約服務項目並不需由創新科技署署長批核。

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
						R&D Organisation 研發機構	Industry Partner 業界夥伴
80	Real Time Surveillance recorder API customization 實時監察系統軟件顧問服務	1	Completed 已完成	50,000	100%	- ASTRI 應科院	- A private company 一家私營公司
81	Ceramic submount fabrication with TiW/Au coating 製造配有 TiW/Au 塗層的陶瓷	6	Completed 已完成	37,200	100%	- ASTRI 應科院	- A private company 一家私營公司
82	Assembly of VCSEL chips on TO-headers VCSEL 芯片組合	4	Completed 已完成	51,600	100%	- ASTRI 應科院	- A private company 一家私營公司
83	Assembly Design Rules 組合設計標準顧問服務	4	Completed 已完成	93,360	100%	- ASTRI 應科院	- A private company 一家私營公司
84	Camera with Auto focus capability 相機自動對焦技術	24	On-going 進行中	570,000	100%	- ASTRI 應科院	- A private company 一家私營公司
85	VoIP phone feature enhancement 加強 VoIP 電話功能	12	Completed 已完成	33,800	100%	- ASTRI 應科院	- A private company 一家私營公司
86	Integration of DRM into HMC platform 加入數位版權管理於 HMC 平台顧問服務	2	Completed 已完成	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
87	Smart antenna and miniature antenna design 智慧形天線及微形天線設計顧問服務	6	Completed 已完成	29,376	100%	- ASTRI 應科院	- A private company 一家私營公司
88	API development for Home Media Centre platform 家庭媒體中心平台之應用程式接口	12	Completed 已完成	50,000	100%	- ASTRI 應科院	- A private company 一家私營公司
89	WiFi phone features enhancement 加強 WiFi 電話功能	12	Completed 已完成	80,000	100%	- ASTRI 應科院	- A private company 一家私營公司
90	Chinese AVS 1.0 audio and video decoder solution 中國式 AVS 1.0 影音解碼解決方案的顧問服務	13	On-going 進行中	780,000	100%	- ASTRI 應科院	- A private company 一家私營公司

No. 編號	Project Title 項目名稱	Duration (Month) 項目需時 (月)	Status 現狀	Approved Project Cost 開支總額 (\$)	Percentage of industry contribution 業界贊助百分比	Participating Organisation 參與機構	
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91	SIP phone features enhancement 加強以 SIP 協議為基礎之電話功能	12	Completed 已完成	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
92	Bridge solution between UWB MII and 1394 interface with UWB module UWB MII 與 1394 介面至 UWB 模件之接連技術	6	On-going 進行中	750,000	100%	- ASTRI 應科院	- A private company 一家私營公司
93	Active-dynamic LED backlight and real time control module 主動動態 LED 背光及實時控制模件技術	16	On-going 進行中	880,000	100%	- ASTRI 應科院	- A private company 一家私營公司
94	Package design for optical transmitter & receiver and DGP die 光學發送器及接收器封裝設計技術	2	Completed 已完成	175,500	100%	- ASTRI 應科院	- A private company 一家私營公司
95	8 bit MCU platform technology for Noise Cancellation IC 8 位微控器平台噪音抵消集成電路	36	Completed 已完成	300,000	100%	- ASTRI 應科院	- A private company 一家私營公司
96	8 bit MCU platform technology for Wireless Audio Transceiver IC 8 位微控器平台無線音頻收發集成電路	36	On-going 進行中	400,000	100%	- ASTRI 應科院	- A private company 一家私營公司
97	Antenna design and measurement service 天線設計及量度服務	6	Completed 已完成	154,600	100%	- ASTRI 應科院	- A private company 一家私營公司
98	SiP-based DAB module design & prototype DAB 廣播模塊 SiP 封裝技術設計樣本	4.5	On-going 進行中	63,960	100%	- ASTRI 應科院	- A private company 一家私營公司
99	Tapeout database of HS2503 IC HS2503 集成電路數據庫下線	3	Completed 已完成	120,000	100%	- ASTRI 應科院	- A private company 一家私營公司
100	CWMS software support services CWMS 軟件支援服務	5	Completed 已完成	70,000	100%	- ASTRI 應科院	- A private company 一家私營公司
101	Voice recorder reference platform 話音錄音參考平台	6	Completed 已完成	238,600	100%	- ASTRI 應科院	- A private company 一家私營公司

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						R&D Organisation 研發機構	Industry Partner 業界夥伴
102	Report on "Status, Market & Trends of Integrated Passive Devices (IPDs) in RF-related Applications 被動[無電源]器件之無線應用市場報告	0.5	Completed 已完成	101,400	100%	- ASTRI 應科院	- A private company 一家私營公司
103	REBL module structural design including manufacturing process flow, ceramic substrate and PCB board REBL 模塊結構的設計	2.75	Completed 已完成	230,100	100%	- ASTRI 應科院	- A private company 一家私營公司
104	Wifi phones (BF2000) WiFi 無線電話 (BF2000)	2	Completed 已完成	101,400	100%	- ASTRI 應科院	- A private company 一家私營公司
105	IP camera demo units and demo support service 互聯網(IP)攝影機樣本及支援服務	2	On-going 進行中	106,000	100%	- ASTRI 應科院	- A private company 一家私營公司
106	Wifi phones (GP3) WiFi 無線電話 (GP3)	0.5	Completed 已完成	9,360	100%	- ASTRI 應科院	- A private company 一家私營公司
107	DIP-8 Packing Thermal Simulation, IC-package co-design consultancy, design and prototype manufacturing. DIP-8 包裝熱量的模擬, 顧問服務及樣本生產	6	On-going 進行中	32,500	100%	- ASTRI 應科院	- A private company 一家私營公司
108	Support of multi-slice feature for H.264 video codec library on Pixelworks BSP-16 platform 支援多項服務(包括 H.264 視頻編解碼器) Pixelworks BSP-16 平台	2	Completed 已完成	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
109	Customisation of MIMO USB dongle 用戶定製的多輸入多輸出 USB 硬件	6	Completed 已完成	78,000	100%	- ASTRI 應科院	- A private company 一家私營公司
110	Extension of training support for CWMS technology 延長 CWMS 培訓支援服務	12	On-going 進行中	156,000	100%	- ASTRI 應科院	- A private company 一家私營公司
111	Prototype hardware design of streamer HMC over Mobilygen MG1264 based reference platform 流暢 HMC over Mobilygen MG1264 參考平台的硬體樣本設計	1	Completed 已完成	60,000	100%	- ASTRI 應科院	- A private company 一家私營公司



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112	MB86391 Evaluation Board MB86391 電路板作評估使用	0.25	Completed 已完成	3,900	100%	- ASTRI 應科院	- A private company 一家私營公司
113	SiP Module extension services 延長 SiP 模塊的服務	1.5	On-going 進行中	58,968	100%	- ASTRI 應科院	- A private company 一家私營公司
114	Thermal management consultancy services 熱量管理的顧問服務	20	On-going 進行中	250,000	100%	- ASTRI 應科院	- A private company 一家私營公司
115	High brightness, high contrast, power saving LCD display and related active-dynamic LED backlight control module 高亮度, 高對比, 節能的 LCD 顯示器 及 相關的語態 LED 背光控制模塊	14	On-going 進行中	1,500,000	100%	- ASTRI 應科院	- A private company 一家私營公司
116	Antenna Pattern Measurement 量度天線輻射圖	0.03	Completed 已完成	8,000	100%	- ASTRI 應科院	- A private company 一家私營公司
117	Smart Camera Module 智能相機模塊	5	On-going 進行中	301,080	100%	- ASTRI 應科院	- A private company 一家私營公司
118	WiFi Phone Customization 用戶定製的 WiFi 無線電話	2.5	On-going 進行中	780,000	100%	- ASTRI 應科院	- A private company 一家私營公司
119	Demo setup 演示裝置	1	Completed 已完成	20,000	100%	- ASTRI 應科院	- A private company 一家私營公司
120	Demo H.264 codec 示範 H.264 編解碼器	1	Completed 已完成	78,000	100%	- ASTRI 應科院	- A private company 一家私營公司
121	Antenna pattern measurement 量度天線輻射圖	0.01	Completed 已完成	4,000	100%	- ASTRI 應科院	- A private company 一家私營公司

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122	Manufacturability study, sourcing, assembly and characterization of power amplifier board/module. 電能放大器的生產研究	2.5	On-going 進行中	93,600	100%	- ASTRI 應科院	- A private company 一家私營公司
123	Antenna pattern measurement 量度天線輻射圖	0.01	Completed 已完成	4,000	100%	- ASTRI 應科院	- A private company 一家私營公司
124	SIP phone technical consultancy service and maintenance service SIP 無線電話的技術顧問及維修服務	12	On-going 進行中	117,000	100%	- ASTRI 應科院	- A private company 一家私營公司
125	Temperature cycling and reflow profiling for reliability test of packing technology 高溫循環及再流程造型的包裝技術可靠性測試	0.5	Completed 已完成	11,800	100%	- ASTRI 應科院	- A private company 一家私營公司
126	Thermal management, and fabricate prototypes 熱量管理的顧問服務及製造樣本	15	On-going 進行中	375,000	100%	- ASTRI 應科院	- A private company 一家私營公司
127	Antenna pattern measurement 量度天線輻射圖	0.01	Completed 已完成	4,000	100%	- ASTRI 應科院	- A private company 一家私營公司

**Appendix II to Annex V**

**R&D Centre on Information and Communications Technologies  
List of Technology Transfers from April 2006 to May 2008**

1. WiFi Access Point and related technologies to a HK based WiFi equipment design house
2. Active-dynamic LED backlight module and driving algorithm to a LED packaging company in HK
3. VoIP phone feature enhancement for a HK company
4. H.264 IP Set Top Box to an Australia listed consumer electronic design company
5. H.264 Home Media Centre to a HK company
6. H.264 Home Media Centre to an Australia listed consumer electronic design company
7. Licensing of 8-bit MCU platform to a China company
8. Power IC packaging design and analysis to a leading Taiwan manufacturer of LEDs, including lamps, displays and infrared products
9. Laminate substrate based SIP to one of the world's leading magnetics companies based in HK
10. Licensing of H.264 IP Set Top Box to a HK based manufacturer
11. H.264 Real Time Surveillance recorder software to a leading acoustic products manufacturer in Taiwan
12. Low Drop Regulator IC to HK based IC design house
13. SIP based WiFi VoIP Phone to a leading HK manufacturer of consumer electronic products
14. Wireless Video Adapter to a market leader for tablet DVD player products based in HK
15. Si Wafer Fabrication for an Ireland company
16. Image Signal Processing Integrated Circuit Design to a HK based IC development house
17. Step-UP DC/DC converter IC to a HK based IC design house
18. H.264 Real Time Surveillance recorder software to a leading acoustic products manufacturer in Taiwan
19. Smart Optical Sensor Technology to the world's largest supplier of integrated assembly and packaging solutions based in HK
20. Contract service: VoIP phone feature enhancement from a HK company
21. Contract service: VoIP phone feature enhancement from a HK company
22. LEDs for General Lighting to a HK company
23. Contract service: fab 4"/200um ceramic submount with TiW/Au coating for an Ireland company
24. Contract service: Assembly of VCSEL chips on TO-headers for an Ireland company
25. Contract service: Assembly Design Rules for a USA company
26. Contract service and licensing of camera with auto focus capability implemented for a HK company
27. Licensing of Multimedia CODECs, drivers, and software for PMP with digital TV capability for a HK company
28. VoIP phone feature enhancement for a Hong Kong company
29. Contract service: Integration of digital right management into HMC platform for an Australian company

30. Contract service: To provide consultation for smart antenna and miniature antenna design for a HK company
31. Development of incorporate REME/SAM material into URT circuit design of using TFT transistor gate to a Taiwan company
32. License of optimised structure design with Air Solid Heat Exchange Enhancement coating and capability of mass fabrication to a Taiwan company
33. Package design for optical transmitter & receiver to a US company
34. API development for HMC platform to a HK company
35. WiFi phone features enhancement to a HK company
36. MMP-EMU emulation platform boards to a China company
37. Consultancy services to develop Chinese AVS 1.0 audio and video decoder solution to a China company
38. Antenna design service to a USA company
39. SIP phone features enhancement to a HK company
40. Contract service: To provide a bridge solution between UWB MII and 1394 interface with UWB module for a HK company
41. Licensing of WiMax base station to a HK company
42. Contract service: To develop technology for 47" active-dynamic LED backlight and real time control module for a China company
43. Contract service and licensing of 8 bit MCU platform technology for Noise Cancellation IC to a Hong Kong company
44. Contract service and licensing of 8 bit MCU platform technology for Wireless Audio Transceiver IC to a Hong Kong Company
45. Contract service: Antenna design and measurement service to a Hong Kong Company
46. Contract service: SiP-based DAB module design & prototype to a China company
47. Contract service: HS2503 IC to a large Chinese electronics company
48. Licensing of embedded optical link to a Hong Kong optical solution company
49. Licensing of opto-electronic packaging technology for optical HDMI cable to a Hong Kong company
50. Licensing of CWMS software to a Hong Kong company
51. Contract service: CWMS software to a Hong Kong company
52. Contract service: Voice recorder reference to a China company
53. Contract service: To provide report on RF-related Applications to a Hong Kong Company
54. Contract service: REBL module structural design to a US fabless ASIC company
55. Licensing of multi-block active dynamic LED backlight control module to a Hong Kong LED display manufacturer
56. Contract service: To provide WiFi phones (BF2000) to a Korea company
57. Licensing of HD Digital Home Platform (DVB-T with IP Connectivity) receiver technology to a Hong Kong OEM/ODM manufacturer
58. Contract service: To provide camera demo units and demo support service to a Hong Kong company
59. Contract service: To provide WiFi phones (GP3) to a Korea company
60. Consultancy services on DIP-8 packing thermal simulation, IC-package co-design consultancy, design and prototype to a Hong Kong company
61. Licensing of CWMS technology to a Hong Kong company
62. Licensing of integrated circuit LED driver to a Hong Kong company

63. Contract service: To support of multi-slice feature for H.264 video codec library on Pixelworks BSP-16 platform to a Korea video phone company
64. Licensing of real-time surveillance system to a China company
65. Licensing of integrated circuit multi channel LDO to a Hong Kong fabless IC design company
66. Contract service: Customisation of MIMO USB dongle to a Taiwan company
67. Extension of training support of CWMS technology to a Hong Kong company
68. Contract service: To provide prototype hardware design of streamer HMC to a Taiwan company
69. Contract service: To provide MB86391 evaluation board to a Hong Kong company
70. Contract service: To provide SiP module to a China fabless semiconductor design company
71. Consultancy services on thermal management to a Taiwan company
72. Contract service: To develop high brightness, high contrast, power saving LCD display and related active-dynamic LED backlight control module to a China photo-electronics company
73. Contract service: Antenna pattern measurement to a Hong Kong company
74. Licensing of SIP based WiFi phones reference to a Korea company
75. Licensing of HD HK DTTV with IP receiver to a Hong Kong company
76. Contract service: To provide prototypes of smart camera module to a US company
77. Licensing of low temperature ceiling-lighting assembly design and structure of high power LED lamp fixture technology to a Hong Kong company
78. Contract service: WiFi Phone customisation to a Korea company
79. Contract service: Demo setup to a Taiwan company
80. Licensing of dual-mode CWPAN/ZigBee RFIC transceiver to a China company
81. Licensing of Color CCD AFE to a Hong Kong fabless IC design company
82. Contract service: Demo H.264 codec to a Germany company
83. Antenna pattern measurement to a Hong Kong company
84. Contract service: To provide manufacturability study, sourcing, assembly and characterisation of power amplifier board/module to a Cayman company
85. Antenna pattern measurement to a Hong Kong company
86. Contract service: To provide technical consultancy service and maintenance service for SIP phone to a Hong Kong company
87. Contract service: To provide temperature cycling and reflow profiling to a Hong Kong company
88. Licensing of removing sapphire for power GaN LEDs to a China company
89. Licensing of mixed signal SoC to a Hong Kong semiconductor company
90. Licensing of reference design for TD-LTE UE simulator module to a China company
91. Licensing of DTMB Modulator design for Chinese national digital TV standard to a Hong Kong company
92. Contract service: To provide consultancy services on thermal management, and fabricate prototypes to a Hong Kong company
93. Antenna pattern measurement to a Hong Kong company

**Appendix III to Annex V**

**Hong Kong R&D Centre for Information and Communications Technologies**  
**Mainland Partnership**  
**(for the period 1 April 2006 – 31 May 2008)**

**Summary of Activities**

<b>Item No.</b>	<b>Mainland Partnership (for the period 1 April 2006 – 31 May 2008)</b>	<b>Achieved Results</b>
<b>I.</b>	<b>Standard Body Participations</b>	<b>8</b>
<b>II.</b>	<b>MOU / NDA / LOI</b>	<b>45</b>
<b>III.</b>	<b>Business Collaborations / Joint Labs</b>	<b>43</b>
<b>IV.</b>	<b>Major Meetings, Conferences, Exhibitions, Technology Forums, Seminars and China Visits</b>	<b>136</b>

**Total:** **232**

<b>No.</b>	<b>Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
<b>I. Standard Body Participations (8)</b>		
1	<b>China Communications Standards Association (CCSA)</b> by CCSA and MII in 7 Working Groups in 3 Technical Committees	
2	<b>AVS Standard Working Meetings</b> by AVS Standard Committee	
3	<b>IGRS Standard meetings</b> by IGRS in Wireless net-working of home appliances	
4	<b>Solid State Lighting Standards</b> by Office of Solid State Lighting and MOST	
5	<b>WPAN Working Group Meeting</b> by China WPAN as Membership Representative	
6	<b>Communication Theory and Signal Processing Committee of China Institute of Communication</b> by China Institute of Communication as Participation and Networking	
7	<b>China National Information Technology Standardization Technical Committee (NIST)</b> by China National Information technology Standardization Technical Committee as Regular meetings according to the standardization progress	
8	<b>Interoperability with AVS standard bit stream/Encoder</b> by 聯合信源數字音視頻技術（北京）有限公司 which is subsidiary of AVS encoder. Ongoing effort for DTV, IPTV and Mobile TV	
<b>II. MOU / NDA / LOI (45)</b>		
1	NDA, MOU for Proposed TCL dedicated Wireless Video Streaming Applications on UHADA Platform, Shenzhen	Apr 06
2	NDA, MOU for final term sheet negotiation on WUWB, UHADA IP Licensing, promotion of UHADA WUSB, HK and Shenzhen	May 06
3	NDA, MOU for sales promotion of UHADA WUSB, Shenzhen	May 06
4	NDA for initial sales promotion and term sheet negotiation on UHADA WUSB, Shenzhen	May 06
5	NDA and LOI for collaboration on UWB WiSMAC, Guangzhou	May 06
6	NDA, MOU, LOI for collaboration on Joint Project under IGRS and GD-HK Funding, UWB-IGRS Study Group under IGRS, China National UWB Standard as part of IGRS Standard, HK	May 06
7	NDA for collaboration on Skyworth dedicated Wireless Video Streaming Application on UHADA Platform, Shenzhen	May 06
8	NDA for collaboration on UWB, Shenzhen	May 06
9	NDA for collaboration on ACTOA dedicated Wireless Video Streaming Application on UHADA Platform, Shenzhen	May 06

No.	<b>Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
10	MOU for developing advanced wireless digital living technologies	Jun 06
11	NDA for promoting ASTRI UWB-WiSMAC Technology, Shenzhen	Dec 06
12	NDA for collaboration on advanced structure design & material technology for heat dissipation, HK	Mar 07
13	Contract signed with a Beijing company Ampleky on MPEG-4 encoder and decoder design, and negotiate an ICP project on H.264 HD decoder related product line development. Beijing	Dec 07
14	NDA on MEMS related technologies, Heibei	Mar 08
15	NDA & MOU on LED related technologies, Xiamen	Mar 08
16	LOI & NDA with Shanghai Woojoy Tech Co Ltd, Shanghai	Mar 08
17	NDA with Shanghai Hangxin Electronics Technology Co Ltd, Shanghai	Mar 08
18	NDA with Shenzhen Flextronics R&D, Shenzhen	Mar 08
19	NDA with Neosonic Li-polymer Energy (Zhuhai) Corp	Mar 08
20	NDA with BYD Company Ltd.	Mar 08
21	NDA with HYB Battery Co. Ltd.	Mar 08
22	NDA with Shenzhen aigo Research and Development Co Ltd, Shenzhen	Mar 08
23	LOI Philips Electronics HK Ltd	Mar 08
24	NDA with 中山大學附屬第二醫院	Mar 08
25	NDA with e-Design Technology Ltd.	Mar 08
26	MOU on photonics related technologies, Shenzhen	Apr 08
27	NDA on LED lighting application related technologies, Xiamen	Apr 08
28	NDA & MOU on dynamic LED backlight for LCD, Shenzhen	Apr 08
29	MOU with Wuhan University, Wuhan	Apr 08
30	NDA with Abilis Systems	Apr 08
31	NDA with Union Semiconductor Inc, Shanghai	Apr 08
32	NDA with Philips Electronics HK Ltd	Apr 08
33	NDA with Shanghai Techtron Inc, Shanghai	Apr 08
34	NDA on packaging related technologies, Shenzhen	May 08
35	MOU on advanced packaging related technologies, Shanghai	May 08
36	NDA on photonics related technologies, Shanghai	May 08
37	NDA on MEMS related technologies, Sichuan	May 08
38	NDA and MOU on personal miniature projector system (PMPS), Huizhou	May 08
39	NDA on personal miniature projector system (PMPS), Shenzhen	May 08
40	NDA with RDA Technologies Ltd.	May 08
41	NDA with MAXIC Technology Corp	May 08
42	NDA with Raithlin Semiconductors Inc.	May 08
43	NDA with Shenzhen EDADOC Technology Co. Ltd.	May 08
44	NDA with Shenzhen HAMP Science & Technology	May 08
45	NDA reviewing with Skyworth, Guangdong	Mar-May 08
<b>III. Business Collaborations / Joint Labs (43)</b>		
1	Collaboration on UWB for provide a video decoder platform to ASTRI for evaluation, Shenzhen	30 Apr 06
2	Discussion on a broadband wireless RFIC architecture and design methodologies for both parties as a product and IPs creation for using the facility for 0.18um RFCMOS, Shanghai	May 06
3	Collaboration on UWB with both IGRS and UWB development teams, Beijing	May 06
4	Collaborate Agreement on the development of Network TV technology	10 Aug 06
5	Collaboration on China DTV technology R&D for industry development, Beijing	22 Sep 06
6	Collaboration on Energy Storage Project with Continental Battery Ltd, Nanjing	Oct 06
7	Collaboration on Energy Storage Project with BYD, Beijing	Oct 06

No.	<b>Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
8	Collaboration on EWOM project, Beijing	Oct 06
9	Industry engagement and collaboration of WiMAX Base station and CWMS with Intel, Beijing	22 Jan 07
10	Industry engagement and collaboration of WiMAX Base station and CWMS with Fiber Home, Beijing	23 Jan 07
11	Study of the development of high-tech industry, market and technologies in China	Oct 06-Oct 07
12	Signing Ceremony – Collaboration between the R&D Centre with Sun Yat-Sen University & Dinner Reception	8 Oct 07
13	Strategic Collaboration Opportunities with Foshan Municipal Government	10 Oct 07
14	<p><b>ASTRI established Joint Lab with Tsinghua University</b></p> <p><b>Highlight:</b> The collaboration with Tsinghua University would leverage the related technological advantages from both parties to promote the commercialisation of DTV technology to the next level, and promote China's domestic intellectual properties on DTV technology in Hong Kong and other regions. Also, the Joint Lab would be a role model of technological collaboration between Hong Kong and Mainland China, not only on DTV technology areas, but also extending the partnership to a higher and broader level for technology and standards innovation.</p>	<b>5 Dec 07</b>
15	<p><b>ASTRI Received “Innovation Award” from China NITS</b></p> <p><b>Highlight:</b> ASTRI received "Innovation Award" from the Wireless Personal Area Networking (WPAN) Working Group of China National Information Technology Standardization Technical Committee (NITS) during the "WPAN Working Group Annual Technology Conference in Beijing. ASTRI's Communication Technologies Group was recognised and awarded for its contributions to WPAN Working Group and Standards, including low rate WPAN (C-WPAN) and high rate WPAN (C-UWB) standards. ASTRI was honoured to receive its first achievement award in this area from NITS, the largest standardization technical committee and a key Standard Authority in China, by which ASTRI's contributions to the China's C-WPAN and C-UWB standards associated with chips and systems development were recognised.</p>	<b>14 Dec 07</b>
16	<p><b>Signing Ceremony of ASTRI – Tsinghua University Multimedia Broadcasting &amp; Communications Joint Research Laboratory, Digital TV Launching Ceremony and Beijing VIP Delegation’s visit, Hong Kong</b></p> <p><b>Highlight:</b> A two-day program, including visits to Commerce and Economic Development Bureau of the HKSAR Government, Office of the Telecommunications Authority, Television Broadcast Limited and ASTRI, took place on 31 December 2007 for the VIP delegation from Beijing. A signing ceremony for the ASTRI – Tsinghua University Multimedia Broadcasting &amp; Communications Joint Research Laboratory was held in ASTRI, followed by a laboratory tour to Communications Technologies Group. The VIPs attended the HKSARG’s Launching Ceremony of Digital Terrestrial Television Broadcasting held at The Hong Kong Cultural Centre.</p>	<b>30-31 Dec 07</b>
17	Business Collaborations on RFIC, Antenna with Fiberhome Group, Wuhan	1 Mar 08
18	Business Collaborations on RFIC Technology Licensing with Vinno Technologies Inc., Beijing	3 Mar 08
19	Business Collaborations with ZTE Corporation, Shenzhen	7 Mar 08
20	Business Collaborations on RFIC with SMIC, Shanghai	31 Mar 08
21	Business Collaborations on SZ-HK Technology Cooperation Funding project with Konka Group, Shenzhen	31 Mar 08



No.	Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)	Date
22	Contract Research Agreement with a company on advanced packaging related technologies, Shanghai	Apr 08
23	Business Collaborations on PMIMO with Innofidei, Beijing	Apr 08
24	Business Collaborations on PMIMO with Picochip, Beijing	Apr 08
25	Business Collaborations on PMIMO Contract Service with 深圳市友鄰通訊設備有限公司, Shenzhen	Apr 08
26	Potential collaboration of Video Search/interactive service for SMG IPTV application, Shanghai	16 Apr 08
27	Business Collaborations on RFIC with Beijing University, Beijing	27-29 Apr 08
28	A company from Guangzhou joined ASTRI Advanced Packaging Technologies Consortium	May 08
29	A company from Shanghai joined ASTRI Advanced Packaging Technologies Consortium	May 08
30	A company from Beijing joined ASTRI Advanced Packaging Technologies Consortium	May 08
31	Engaged with Lenovo-cw on potential ODM, Guangzhou	May 08
32	Engaged with a Polycom subsidiary (based in Shenzhen) for potential collaboration, Shenzhen	May 08
33	Business Collaborations on SZ-HK Technology Cooperation Funding project with Huawei-Century Science and Technology Company Ltd, Shenzhen	May 08
34	Business Collaborations on Antenna, CWPAN/ZigBee with UniTech, Shenzhen	7 May 08
35	Collaboration and support Mainland partner for fund application and approved/granted, Shenzhen	15 May 08
36	Potential collaboration of HD Video Enhancement HDTV and DTV application, Shanghai	16 May 08
37	Business Collaborations on WiMAX BS Technology Licensing with COMBA Telecom, Guangzhou	Mar-May 08
38	Business Collaborations on Antenna with Sunway, Shenzhen	Mar-May 08
39	Contract reviewing with 青島海信電器股份有限公司, Shanghai	Mar-May 08
40	Contract for Development of optical distance sensor, HK (factory in Shenzhen)	Mar-May 08
41	DMB-TH technical collaboration on DTTV and Mobile TV, Beijing	Mar-May 08
42	Joint Lab Agreement with Fudan University on IPTV and software technologies, Shanghai	Mar-May 08
43	TCL Collaboration on Network TV, Digital TV, DMA, STB, etc., Shenzhen	Mar-May 08
<b>IV. Major Meetings, Conferences, Exhibitions, Technology Forums, Seminars and China Visits (136)</b>		
1	Discussion of collaboration on Broadband Wireless Technology, Shenzhen	Apr 06
2	OFDM/T-DMB base-band solution and interfaces with Source-Core analog transceiver, Shenzhen	13 Apr 06
3	BWM (Broadband Wireless Multimedia) Standard Committee Meeting, Beijing	26-27 Apr 06
4	ASTRI's Chief Executive Officer as speaker for Chengdu Hi-Tech Seminar	25 May 06
5	Joint R&D Centres Roadshow in PRD, Guangzhou	29 May 06
6	Joint R&D Centres Roadshow in PRD, Foshan	30 May 06
7	26" LED backlight, Shanghai	1 Jan-Jun 06
8	Joint R&D Centres Roadshow in PRD, Shenzhen	8 Jun 06
9	Joint R&D Centres Roadshow in PRD, Dongguan	9 Jun 06
10	China (Fujian) Technology & Projects Fair 2006, Fujian	18-20 Jun 06
11	Digital Home workshop, Guangzhou	22 Jun 06
12	Disseminate ASTRI R&D effort in heat dissipating materials and solicit their industrial in-kind contribution and arrange partnership, Shandong	26 Jun 06
13	Disseminate ASTRI R&D effort in heat dissipating materials and solicit their	Jul 06

No.	Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)	Date
	industrial in-kind contribution and arrange partnership, Wuxi	
14	Introduction of technology development for new designed electrode material, Shenzhen	Jul 06
15	<p><b>Symposium on WiMedia Ultra Wideband (UWB), Suzhou</b></p> <p><b>Highlight :</b> The Symposium was the <b>first Technology Forum</b> that was organised by <b>ASTRI in Mainland China, featured four of our overseas partners</b> and attracted <b>over 100 participants</b>. There were <b>speeches by worldwide speakers</b> and <b>advanced technology exhibition</b> in the seminar. Speakers included ASTRI's CEO, Vice President and R&amp;D Director of Wireless Multimedia Technologies Program, Communications Technologies Group and other professionals in Ultra Wideband from Alereon Inc., (US), Synopsys Inc., (US), Wisiar Inc., (Israel) and Wipro Inc., (India). The symposium was co-hosted by The Economic and Trade Commission of Suzhou; Suzhou Bureau of Science and Technology; and Suzhou Administration Committee of National New and Hi-tech Industrial Development Zone</p>	<b>6 Jul 06</b>
16	ITU-R China, Shandong	12-14 Jul 06
17	The 3 <sup>rd</sup> China Solid State Lighting Conference (SSL), Shenzhen	12-14 Jul 06
18	The Plenary Conference of IGRS WG, Shanghai	20 Jul 06
19	WiMAX Technology Overview, Shenzhen	26 Jul 06
20	CWMS demo and technical discussion, Nanjing	17 Aug 06
21	The 7 <sup>th</sup> International Conference on Electronics Packaging Technology & International Courses on Advanced Packaging Technology, Shanghai	27-28 Aug 06
22	4 <sup>th</sup> IC China 2006, Suzhou	6-8 Sep 06
23	ASTRI Technology Forum on Light Emitting Diode (LED) Device, Shenzhen	15 Sep 06
24	China DMB Forum, Beijing	19-20 Sep 06
25	2006 Guangdong-Hong Kong Telecommunications Seminar, Guangzhou	25-26 Sep 06
26	Fabricate EWOM memory cell via 2 micron CMOS line, Beijing	28 Sep 06
27	2006 中國通信學會無線及移動通信委員會學術會議, Guangxi	25-29 Sep 06
28	China Video Industry Association Conference, Shenzhen	28-29 Sep 06
29	Introduction of technology development for new designed electrode material and promise to support the in kind contribution on LOT. Disseminate ASTRI R&D effort in battery materials and solicit their industrial in-kind contribution and arrange partnership	Oct 06
30	Disseminate ASTRI R&D effort in heat dissipating, memory and battery materials and solicit their industrial in-kind contribution and arrange partnership, Fuzhou	Oct 06
31	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group as guest speaker for "Global WiMedia (UWB) Summit in China 2006", Beijing, China	12 Oct 06
32	15 <sup>th</sup> Wireless and Optical Communications Conference (WOCC), Hangzhou	12-13 Oct 06
33	2-day Longgang visit, Shenzhen	13-14 Oct 06
34	The 8 <sup>th</sup> China Hi-Tech Fair, Shenzhen	12-17 Oct 06
35	Texas Instruments Developer Conference, Shenzhen	23 Oct 06
36	Global WiMAX Summit in China 2006, Beijing	23 Oct 06
37	Introduction of technology development for new designed electrode material and promise to support the in kind contribution on LOT. Disseminate ASTRI R&D effort in battery materials and solicit their industrial in-kind contribution and arrange partnership	23 Oct 06
38	WiMAX Forum, Beijing	23-24 Oct 06
39	Present DTV R&D effort and seek collaboration with the industry, Hangzhou	25 Oct 06
40	SATEC: Sino American Technical Exchange Conference, Beijing	16-26 Oct 06

No.	Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)	Date
41	IFAN Standard Committee Meeting, Beijing	25-26 Oct 06
42	China Mobile TV Industry Chain Forum, Beijing	25-27 Oct 06
43	Present WiMAX & DTV R&D effort and seek collaboration with industry, Shanghai	31 Oct 06
44	Introduction of technology development for new designed electrode material and promise to support the in kind contribution on LOT, Shenzhen	Nov 06
45	FuTURE Achievement Exhibition, Shanghai	Nov 06
46	Discussion of potential collaboration, Shanghai	Nov 06
47	Visit Comba - Discussion of potential collaboration in WiMAX Base station Technology, Guangzhou	Nov 06
48	ASTRI Co-hosted “2006 China Radio Application & Management Conference”, Nanjing, China	2-3 Nov 06
49	IGRS 標準工作組 2007 年度第 1 次工作會, Shunde	16-17 Nov 06
50	<p><b>ASTRI Technology Forum – “Multimedia Digital Family in Mianyang”, Sichuan</b> 多媒體數字家庭</p> <p><b>Highlight:</b> Unprecedentedly, ASTRI was invited by Sichuan Changhong Electric Co. Ltd. to host a <b>Technology Forum at their annual Changhong Technology Innovation Conference 2006</b> in Mianyang, Sichuan. The technology forum included presentations and demonstrations of ASTRI’s achievements. Speakers included ASTRI’s Vice Presidents, Group Directors, R&amp;D Directors and other representatives. Over <b>70 participants</b> attended the technology forum, included <b>Professor Xi Ling Chen from the Engineering Institute of China.</b></p>	<b>25 Nov 06</b>
51	3 <sup>rd</sup> Asia Electronics Exhibition/Asian LCD Industry Summit 2006, Shanghai	23-26 Nov 06
52	ASTRI together with Shanghai Jade Technologies Co. Ltd. (JadeTech), demonstrated the application of UWB wireless communication technology for IP Phone system at the “Asia Electronics Exhibition in Shanghai and China Electronics Fair”, Shanghai	23-26 Nov 06
53	NALI project - Discussion on using Tsinghua’s facility, equipment, and consultancy of Professor Xu Guan by utilizing his design ability & experience in mass production equipments & his connections for business development Hong Kong, Beijing	Jan 07
54	Discussion on collaborations in Li ion battery material technology development, Hong Kong	Jan 07
55	Meeting for possible collaboration related to CT/AWT wireless technology promotion, Shenzhen	12 Jan 07
56	Discussion on possible collaboration related to 3G/LTE related stimulation analysis, Hong Kong	20 Jan 07
57	Advanced Packaging Development, Shanghai	12 Jun 06, Feb 07
58	WPAN Technology Forum, Beijing, China	2 Feb 07
59	IGRS-UWB Technical workshop ShenZhen, Hong Kong	6 Feb 07
60	ASTRI Technology Forum – “Digital TV SoC Design Technology”, Chengdu, China 數字電視芯片設計技術研討會 (成都)	8 Feb 07
61	International IC – China 2007, Shenzhen, China	5-6 Mar 07
62	China IGRS member 1 <sup>st</sup> meeting, 2007, Shenzhen and HK	6-7 Mar 07
63	Workshop on “IGRS 2007 Technology Forum cum Members Meeting”, Shenzhen, China	7 Mar 07
64	Technical presentation and discussion ShenZhen, Hong Kong, China	6-8 Mar 07
65	ASTRI Technology Forum – “IC Designs in Huizhou”, Huizhou, China	9 Mar 07
66	ASTRI Technology Forum – “Capabilities, Demands and Opportunities of	10 Mar 07

No.	<b>Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
	Microelectronics Packaging in the Greater China Region & Design for Manufacturability for Microelectronics Packaging”, Changshu, China	
67	Asia Display 2007, Shanghai, China	13-15 Mar 07
68	“The Trend of LED & OLED Application” Seminar, Shanghai, China	13-15 Mar 07
69	Discussion and collaboration for CWMS project, Beijing	16 Mar 07
70	AVS 五周年慶典暨產業成果展示與投融資峰會會議 Beijing	18 Mar 07
71	Discussion and negotiation on using SOMO’s “complete set of facility and equipments” in fabricating nano-materials, Chengdu	Apr 07
72	Intel Developer Forum, Beijing, China	17-18 Apr 07
73	ASTRI Technology Forum – “Digital TV SoC Design Technology”, Qingdao, China	19 Apr 07
74	WPAN Technology Workshop, Shanghai, China	19-20 Apr 07
75	ASTRI Technology Workshop / Seminar, Guangzhou	May 07
76	The 10 <sup>th</sup> China Beijing International Hi-Tech Expo, Beijing	24-29 May 07
77	ASTRI representative as speaker for “Suzhou Packaging Conference: Design, Modeling, Assembly, Testing & Characterization Capabilities by ASTRI”, Suzhou, China	30 May 07
78	2007 年第五屆中國半導體封裝測試技術與市場研討會, Suzhou	29-31 May 07
79	ASTRI co-hosted Changchun Technical Forum – “Advanced Packaging Technologies for Automotive Electronics”, Changchun, China	16 Jun 07
80	ASTRI’s representative as speaker for “2 <sup>nd</sup> Changchun International Optoelectronics Forum and Exhibition”, Changchun, China	16 Jun 07
81	China (Fujian) Technology and Projects Fair, Fujian, China	18-20 Jun 07
82	IGRS 2007 Technology Forum, Mianyang, China	27-29 Jun 07
83	Digital Living Forum and Showcase 2007, Beijing, China	18-19 Jul 07
84	“Lead-free Solder Joint Reliability: Basics, Processes and Analyses” Workshop, Shanghai, China	14 Aug 07
85	ASTRI’s representative conducted ICEPT 2007 Short Course - “Advanced Packaging Technologies for Automotive Electronics” Seminar, Shanghai, China	14 Aug 07
86	ASTRI’s representative hosted a workshop on “Lead-free Solder Joint Reliability: Basics, Processes and Analysis”, Shanghai, China	14 Aug 07
87	“Customer-focused and Product-oriented R&D” Workshop, Shanghai, China	15 Aug 07
88	ASTRI co-organised “8 <sup>th</sup> International Conference on Electronics Packaging Technology & International Courses on Advanced Packaging Technology, ICEPT 2007”, Shanghai, China	14-17 Aug 07
89	ASTRI hosted the “Product Analysis & Updated of APTC”, Shanghai, China	14 Aug 07
90	ASTRI’s representative as speaker for “China SSL 2007”, Shanghai, China	22-24 Aug 07
91	12 <sup>th</sup> IC China 2007, Shenzhen, China	28-30 Aug 07
92	ASTRI Technology Forum – “Applied SoC Designs” at Peking University, Beijing, China	1 Sep 07
<b>93</b>	<b>ASTRI Industry and University Consultation Forum, Shenzhen</b>  <b>Highlight:</b> The whole day Forum, held in Shenzhen, attracted more than 300 participants from over a hundred local and overseas enterprises and universities, including senior management from industry and experts from the academia. The objectives of the Forum were to introduce and promote ASTRI's state-of-the-art technologies and R&D initiatives to the industry partners, potential customers and academia, to attract business collaborations for the development of innovative technologies in volume, and to support the development of a knowledge-based economy in Hong Kong and the Greater China. The Forum also served as an opportunity to consult the industry	<b>7 Sep 07</b>

No.	Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)	Date
	and academia on the key technology initiatives presented by ASTRI's R&D technology Groups. Supporting organisations included Shenzhen Bureau of Science, Technology and Information, and Innovation and Technology Commission of the Government of the Hong Kong Special Administrative Region.	
94	9 <sup>th</sup> China Hi-Tech Fair, Shenzhen, China	12-17 Oct 07
95	ASTRI and WiMedia's China Chapter co-hosted Two Conferences WiMedia UWB Technology & Reality Workshop and Symposium, Beijing	13-14 Nov 07
96	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group delivered keynote speech at "China-Japan-Korea Regional Home Network Summit", Beijing, China	28 Nov 07
97	2007 China (Changsha) Science & Technology Achievements Transformation Fair, Changsha, China	5-8 Dec 07
98	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group as speaker for "Trend of Wireless Technology in China at IBM CTO Forum 2007 – Wireless Technology", Hangzhou, China	9-10 Dec 07
99	ASTRI co-organised "Chongqing Hong Kong – Technology Infrastructure Forum"	10 Dec 07
100	Chongqing.Hong Kong – Introduction of Hong Kong's R&D Centres & Technology Infrastructure, Chongqing	9-11 Dec 07
101	ASTRI co-hosted Forum on Lighting Industries, Guangdong, China	14 Dec 07
102	ASTRI co-hosted "LED Forum: Problems and Solutions", Guangdong, China	19-21 Dec 07
103	ASTRI's representative as speaker for "Flat Panel Display Committee Meeting", Guangdong, China	25 Jan 08
104	Seminar with Executive Vice Mayor of Shenzhen in Shenzhen International Science and Technology Business Platform, China	18 Feb 08
105	無線個域網(WPAN)項目組第九次工作會議, Beijing	3-4 Mar 08
106	ASTRI Workshop - 3D Packaging: Market Trends, Technologies, Manufacturing & Reliability (including Die Stacking, PoP, TSV, etc.), Shanghai	17 Mar 08
107	Talk on Guangdong 3G Alliance in Guangzhou Topic: "香港應科院 WiFi 手機之無線網路語音技術", Guangzhou	18 Mar 08
108	Presentation by ASTRI's Vice President and Group Director of Communications Technologies Group at Semicom China 2008, Shanghai	19 Mar 08
109	ASTRI Workshop – High performance LED Components, Shenzhen	28 Mar 08
110	Join AVS conference and AVS workgroup	25-31 Mar 08
111	3GPP Meeting, Shenzhen	31 Mar-4 Apr 08
112	Workshop co-host with Xiamen Government for '2008 年海峽兩岸光電產業項目對接會'. Xiamen	Apr 08
113	Meeting on LTE Evolution, Shenzhen	7-8 Apr 08
114	Conference on Investment Promotion of Guangzhou Electronic Information Industry, Guangzhou	10 Apr 08
115	Steering committee meeting of ASTRI- Tsinghua MBC Joint Lab, Beijing	18 Apr 08
116	Presentation by ASTRI's Vice President and Group Director of Communications Technologies Group in a ceremony of 中科院計算所, Beijing	19 Apr 08
117	Chongqing Hi-Tech Fair	17-20 Apr 08
118	Presentation by ASTRI's Vice President and Group Director of Communications Technologies Group at WOCC 2008 Conference, Taiwan	23-24 Apr 08
119	Seminar entitled "Finland Salon", Shenzhen, China	25 Apr 08
120	2008 Asia (Guangzhou) Flat Panel Display Exhibition & Workshop, Guangzhou	May 08
121	Visit to Southern Media Corp., Guangzhou	15 May 08

<b>No.</b>	<b>Mainland Partnership – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
122	Synopsis China, Shenzhen	16 May 08
123	閃聯 2008 年度第一次全員工作會, Wuhan	15-16 May 08
124	2008 年春季全國高教儀器設備展示會, Suzhou	17-19 May 08
125	EE solutions China, Shenzhen	19 May 08
126	2008 (第二屆) 中國數字家庭產業峰會(中國電子視像行業協會), Guangzhou	21-23 May 08
127	EWOM Wafer Processing, Beijing	Mar-May 08
128	DMB-T consultation, Beijing	Mar-May 08
129	PAV (MP3) IC outsourcing, Beijing	Mar-May 08
130	Low-cost High Density Packaging (LC-HDP) Development, ChangAn, Dongguan	Mar-May 08
131	Fabrication of Modified Ceramic, Beijing	Mar-May 08
132	Device Technology Development, Shenzhen	Mar-May 08
133	Device Technology Development, Hong Kong	Mar-May 08
134	High contrast display control modules, Shenzhen	Mar-May 08
135	3/4-in-1 Packaging, Shenzhen	Mar-May 08
136	LED BLU Development, Shenzhen	Mar-May 08

**Appendix IV to Annex V**

**Hong Kong R&D Centre for Information and Communications Technologies**  
**Promotional and Networking Activities**  
**(for the period 1 April 2006 – 31 May 2008)**

**Summary of Activities**

<b>Item No.</b>	<b>Promotional and Networking Activities (for the period 1 April 2006 – 31 May 2008)</b>	<b>Achieved Results</b>
<b>I.</b>	<b>ASTRI Technology Forums &amp; Seminars</b>	<b>181</b>
<b>II.</b>	<b>International Conferences/ Expositions</b>	<b>87</b>
<b>III.</b>	<b>Industry and Community Outreach</b> <b>i/ Publicity Events and Activities</b> <b>ii/ Promotion of Technologies for Commercialization</b> <b>iii/Corporate Publications</b>	<b>69</b>
<b>IV.</b>	<b>Press &amp; Media</b> <b>i/ Media Interviews/Publications/TV Productions</b> <b>ii/ Press Conferences</b> <b>iii/ Press Releases Issued</b> <b>iv/ Media Events</b>	<b>59</b>
<b>V.</b>	<b>VIP Visits/Lab Tours</b>	<b>101</b>
<b>VI.</b>	<b>Corporate Strategic Meetings</b> <b>i/ Technology Advisory Committee (TAC) Annual Meeting (4-Day)</b> <b>ii/ Senior Management Brainstorming Meeting (1-Day)</b> <b>iii/Chairman’s meeting with ASTRI Staff (3 times)</b>	<b>5</b>

**Total:** **502**

<b>No.</b>	<b>Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)</b>	<b>Date</b>
<b>I. ASTRI Technology Forums &amp; Seminars (181)</b>		
1.	Discussion of collaboration on Broadband Wireless Technology, Shenzhen	Apr 06
2.	ASTRI’s Vice President as speaker for Hong Kong International Auto Parts Fair 2006, HK	9 Apr 06
3.	OFDM/T-DMB base-band solution and interfaces with Source-Core analog transceiver, Shenzhen	13 Apr 06
4.	Concurrent Seminar at R&D Centre Launching Ceremony, HK (ASTRI’s Chairman and CEO as speakers)	20 Apr 06
5.	ASTRI Seminar – “Product-Oriented Advanced Packaging Design”, HK	21 Apr 06
6.	BWM (Broadband Wireless Multimedia) Standard Committee Meeting, Beijing	26-27 Apr 06
7.	ASTRI hosted a seminar entitled “Liquid Crystal Devices for Displays and Photonics”. Prof. Vladimir G. Chigrinov of Hong Kong University of Science & Technology was invited as guest speaker, HK	18 May 06
8.	ASTRI’s Chief Financial Officer as speaker for Causal Lunch Gathering – Federation of HK Industries, HK	18 May 06
9.	ASTRI Seminar – “Hardware/Software/Tools Co-design to IC-design – A case study: Java Accelerator”, HK	19 May 06
10.	ASTRI’s Chief Executive Officer as speaker for Chengdu Hi-Tech Seminar	25 May 06
11.	ASTRI Technology Forum – “Challenges of Mixed-signal Design and Verification	12 Jun 06

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	Methodologies”, HK	
12.	ASTRI’s Vice President as speaker for Semiconductor Intellectual Properties Workshop, HK	13 Jun 06
13.	ASTRI co-organised a seminar entitled “Sensing the Marine Environment Workshop” with City University of Hong Kong, HK	16 Jun 06
14.	ASTRI Seminar – “Grab Your Opportunity, Make It a Success”, HK	16 Jun 06
15.	Workshop on Application of Light Emitting Diode (LED) in General Lighting, HK	26 Jun 06
16.	26" LED backlight, Shanghai	1 Jan-Jun 06
17.	<p><b>Symposium on WiMedia Ultra Wideband (UWB), Suzhou</b></p> <p><b>Highlight :</b>                      The Symposium was the <b>first Technology Forum</b> that was organised by <b>ASTRI in mainland China, featured four of our overseas partners</b> and attracted <b>over 100 participants</b>. There were <b>speeches by worldwide speakers</b> and <b>advanced technology exhibition</b> in the seminar. Speakers included ASTRI’s CEO, Vice President and R&amp;D Director of Wireless Multimedia Technologies Program, Communications Technologies Group and other professionals in Ultra Wideband from Alereon Inc., (US), Synopsys Inc., (US), Wisiar Inc., (Israel) and Wipro Inc., (India). The symposium was co-hosted by The Economic and Trade Commission of Suzhou; Suzhou Bureau of Science and Technology; and Suzhou Administration Committee of National New and Hi-tech Industrial Development Zone.</p>	<b>6 Jul 06</b>
18.	ASTRI Technology Forum – “IC Designs : Low-power Multimedia SoC Design Platform – Opportunity, Technology & Case Studies”, HK	12 Jul 06
19.	ASTRI Technology Forum – “Semiconductor & IC Designs Ecosystem Gathering in Science Park”, HK	12 Jul 06
20.	ITU-R China, Shandong	12-14 Jul 06
21.	The 3 <sup>rd</sup> China Solid State Lighting Conference (SSL), Shenzhen	12-14 Jul 06
22.	The Plenary Conference of IGRS WG, Shanghai	20 Jul 06
23.	ASTRI Seminar – “Smart Sensors for Measuring Traffic Performance”, HK	21 Jul 06
24.	WiMAX Technology Overview, Shenzhen	26 Jul 06
25.	Flomerics 2006 Gathering, HK	27 Jul 06
26.	CWMS demo and technical discussion, Nanjing	17 Aug 06
27.	ASTRI Technology Forum : “Low-power IC Design Technologies for Analog and Digital SoC Implementations”, HK	18 Aug 06
28.	ASTRI Seminar – “How to Utilize the World’s Largest Technology Library”, HK	18 Aug 06
29.	ASTRI’s Chief Executive Officer as speaker for Hong Kong Electronic Industries Association’s Luncheon, HK	24 Aug 06
30.	Product-Oriented Microelectronics Packaging & Interconnect: Designs, Analyses, Reliability & Applications, HK	24 Aug 06
31.	ASTRI Technology Forum on Light Emitting Diode (LED) Device, Shenzhen	15 Sep 06
32.	ASTRI Seminar – “Multimedia Streaming Technology”, HK	15 Sep 06
33.	ASTRI Technology Forum – “Digital Living, Marching into the Digital Intelligent Consumer Electronics Age”, HK	27 Sep 06
34.	ASTRI’s Vice President as Panel speaker for International Coalition of Optoelectronics Industry Associations (ICOIA) Seminar, HK	11 Oct 06
35.	15 <sup>th</sup> Wireless and Optical Communications Conference (WOCC), Hangzhou	12-13 Oct 06
36.	ASTRI Seminar – “Ultra Wideband MAC Technologies for Wireless Video Streaming Applications”, HK	20 Oct 06
37.	Texas Instruments Developer Conference, Shenzhen	23 Oct 06
38.	Hong Kong Technology and Engineering Development Forum, HK	26-27 Oct 06
39.	The Intellectual Property Conference 2006, HK	10 Nov 06



No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
40.	ASTRI Seminar – “China Digital Terrestrial TV Broadcast Standard Introduction and Baseband Technology”, HK	17 Nov 06
41.	3 <sup>rd</sup> Asia Electronics Exhibition/Asian LCD Industry Summit 2006, Shanghai	23-26 Nov 06
42.	ASTRI together with Shanghai Jade Technologies Co. Ltd. (JadeTech), demonstrated the application of UWB wireless communication technology for IP Phone system at the “Asia Electronics Exhibition in Shanghai and China Electronics Fair”, Shanghai	23-26 Nov 06
43.	ASTRI Technology Forum – “Workshop on LED Applications in Information Displays”, HK	24 Nov 06
44.	<p><b>ASTRI Technology Forum – “Multimedia Digital Family in Mianyang”, Sichuan</b> 多媒體數字家庭</p> <p><b>Highlight:</b> Unprecedentedly, ASTRI was invited by Sichuan Changhong Electric Co. Ltd. to host a <b>Technology Forum at their annual Changhong Technology Innovation Conference 2006</b> in Mianyang, Sichuan. The technology forum included presentations and demonstrations of ASTRI’s achievements. Speakers included ASTRI’s Vice Presidents, Group Directors, R&amp;D Directors and other representatives. Over <b>70 participants</b> attended the technology forum, included <b>Professor Xi Ling Chen</b> from the <b>Engineering Institute of China</b>.</p>	<b>25 Nov 06</b>
45.	ASTRI Technology Forum – “Networked Consumer Electronics in the Digital Home”, HK	14 Dec 06
46.	ASTRI Seminar – “Introduction to ASTRI Internal Antenna Design Centre – Internal Antenna Survey”, HK	15 Dec 06
47.	NALI project - Discussion on using Tsinghua’s facility, equipment, and consultancy of Professor Xu Guan by utilizing his design ability & experience in mass production equipments & his connections for business development, Hong Kong, Beijing	Jan 07
48.	Discussion on collaborations in Li ion battery material technology development, Hong Kong	Jan 07
49.	Meeting for possible collaboration related to CT/AWT wireless technology promotion, Shenzhen	12 Jan 07
50.	ASTRI’s Representative delivered a technical presentation for a forum at The Hong Kong Institution of Engineers, Hong Kong	12 Jan 07
51.	ASTRI Seminar – “High Dynamic Range (HDR) Display Using Active Dynamic LED Backlight”, HK	19 Jan 07
52.	Discussion on possible collaboration related to 3G/LTE related stimulation analysis, Hong Kong	20 Jan 07
53.	ASTRI Technology Forum – “Antenna Design Seminar”, HK	25 Jan 07
54.	Advanced Packaging Development, Shanghai	12 Jun 06, Feb 07
55.	WPAN Technology Forum, Beijing, China	2 Feb 07
56.	IGRS-UWB Technical workshop Shenzhen, Hong Kong	6 Feb 07
57.	ASTRI Technology Forum – “Digital TV SoC Design Technology”, Chengdu, China 數字電視芯片設計技術研討會 (成都)	8 Feb 07
58.	ASTRI Technology Forum – “Thermal Management with Advanced Materials and Structures”, HK	9 Feb 07
59.	ASTRI co-organised “Forum on Mobile TV” with HKSP, HK	9 Feb 07
60.	ASTRI Seminar – “CMOS Technology Platform for Wireless RFIC Design and Implementation”, HK	15 Feb 07
61.	“International IC – China 2007”, Shenzhen, China	5-6 Mar 07
62.	China IGRS member 1 <sup>st</sup> meeting, 2007, Shenzhen and HK	6-7 Mar 07
63.	Technical presentation and discussion ShenZhen, Hong Kong China	6-8 Mar 07

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
64.	ASTRI Technology Forum – “Digital Living with WiFi and VoIP”, HK	7 Mar 07
65.	Workshop on “IGRS 2007 Technology Forum cum Members Meeting”, Shenzhen, China	7 Mar 07
66.	ASTRI Technology Forum – “ASTRI WPAN Symposium 2007“, HK	8 Mar 07
67.	ASTRI Technology Forum – “IC Designs in Huizhou”, Huizhou, China	9 Mar 07
68.	ASTRI Technology Forum – “Capabilities, Demands and Opportunities of Microelectronics Packaging in the Greater China Region & Design for Manufacturability for Microelectronics Packaging”, Changshu, China	10 Mar 07
69.	Asia Display 2007, Shanghai, China	13-15 Mar 07
70.	“The Trend of LED & OLED Application” Seminar, Shanghai, China	13-15 Mar 07
71.	Discussion and collaboration for CWMS project Beijing	16 Mar 07
72.	ASTRI Technology Forum – “MIMO Technologies”, HK	16 Mar 07
73.	AVS 五周年慶典暨產業成果展示與投融資峰會會議, Beijing	18 Mar 07
74.	ASTRI co-organised “Polymer Optical Fiber Seminar 2007”, HK	22 Mar 07
75.	ASTRI Seminar – “Innovation Seminar - Transforming Productivity from Product-Oriented Manufacturing to Service-Centric Business Innovation”, HK	23 Mar 07
76.	ASTRI Technology Forum – “WiMAX Seminar”, HK	26 Mar 07
77.	ASTRI Technology Forum – “HD Technologies for Digital Living”, HK	28 Mar 07
78.	ASTRI Technology Forum - “Portable Analog & Mixed Signal Technologies”, HK	29 Mar 07
79.	Discussion and negotiation on using SOMO’s “complete set of facility and equipments” in fabricating nano-materials, Chengdu	Apr 07
80.	Intel Developer Forum, Beijing, China	17-18 Apr 07
81.	ASTRI Technology Forum – “Digital TV SoC Design Technology”, Qingdao, China	19 Apr 07
82.	WPAN Technology Workshop, Shanghai, China	19-20 Apr 07
83.	ASTRI Seminar – “From Invention to Commercialization: Industrial Applications of Advanced Nano-Materials”, HK	24 April 07
84.	ASTRI’s Representative as speaker for “2007 International Conference for Asia Pacific Automotive Industry”, HK	30 Apr 07
85.	ASTRI Technology Workshop / Seminar, Guangzhou	May 07
86.	ASTRI’s Representative as speaker for Electrical and Mechanical Services Department, HKSARG’s Forum – “Technical Exchange on WiFi/WiMAX”, HK	2 May 07
87.	ASTRI Seminar – “Client-side WiFi Hotspot Access Technology (CHAT)”, HK	18 May 07
88.	Forum on “Joining Hands in Building an Innovative Nation”, HK	21 May 07
89.	ASTRI’s Representatives as speaker for EMSD’s WiFi/WiMAX Seminar, HK	22 May 07
90.	The 10 <sup>th</sup> China Beijing International Hi-Tech Expo, Beijing	24-29 May 07
91.	ASTRI’s R&D Director, Materials and Miniaturizations, Communications Technologies Group presented "Energy Saving" at Seminar: “Metal Treatment and Energy Forum”, The Hong Kong University of Science and Technology, Hong Kong	25 May 07
92.	2007 年第五屆中國半導體封裝測試技術與市場研討會, Suzhou	29-31 May 07
93.	ASTRI representative as speaker for “Suzhou Packaging Conference: Design, Modeling, Assembly, Testing & Characterization Capabilities by ASTRI”, Suzhou, China	30 May 07
94.	ASTRI Technology Forum – “Portable Multimedia Technologies for Mobile TV”, HK	14 Jun 07
95.	ASTRI Seminar – “An Overview of the Seven Habits of Highly Effective People with an Introduction to the 8 <sup>th</sup> Habit”, HK	15 Jun 07
96.	ASTRI co-hosted Changchun Technical Forum – “Advanced Packaging Technologies for Automotive Electronics”, Changchun, China	16 Jun 07

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
97.	ASTRI's representative as speaker for "2 <sup>nd</sup> Changchun International Optoelectronics Forum and Exhibition", Changchun, China	16 Jun 07
98.	China (Fujian) Technology and Projects Fair, Fujian, China	18-20 Jun 07
99.	ASTRI's representatives as speakers for "Innovation Communication Technology for Digital Lifestyle", HK	23 Jun 07
100.	IGRS 2007 Technology Forum, Mianyang, China	27-29 Jun 07
101.	ASTRI's Vice President and Group Director of Communications Technologies Group delivered a talk at "The Second BJ-HK International Doctoral Forum 2007", HK	3 Jul 07
102.	ASTRI Technology Forum – "Thermal Design Solution for LED Lighting Application Workshop", HK	16 Jul 07
103.	Digital Living Forum and Showcase 2007, Beijing, China	18-19 Jul 07
104.	ASTRI Seminar – "ESD and IO Interface Circuit Design for Mixed Signal System on Chip (SoC)", HK	20 Jul 07
105.	ASTRI's Vice President and Group Director of Communications Technologies Group as speaker for Summer Course – MS&E 237 at Stanford University, USA	2 Aug 07
106.	ASTRI co-organised "8 <sup>th</sup> ICEPT 2007", Shanghai, China	14-17 Aug 07
107.	"Lead-free Solder Joint Reliability: Basics, Processes and Analyses" Workshop, Shanghai, China	14 Aug 07
108.	ASTRI's representative conducted ICEPT 2007 Short Course - "Advanced Packaging Technologies for Automotive Electronics" Seminar, Shanghai, China	14 Aug 07
109.	ASTRI's representative hosted a workshop on "Lead-free Solder Joint Reliability: Basics, Processes and Analysis", Shanghai, China	14 Aug 07
110.	ASTRI hosted the "Product Analysis & Updated of APTC", Shanghai, China	14 Aug 07
111.	ASTRI co-organised "8 <sup>th</sup> International Conference on Electronics Packaging Technology & International Courses on Advanced Packaging Technology, ICEPT 2007", Shanghai, China	14-17 Aug 07
112.	"Customer-focused and Product-oriented R&D" Workshop, Shanghai, China	15 Aug 07
113.	ASTRI Seminar – "CMOS RF Design Challenges for WiMedia UWB", HK	17 Aug 07
114.	ASTRI's representative as speaker for "China SSL 2007", Shanghai, China	22-24 Aug 07
115.	12 <sup>th</sup> IC China 2007, Shenzhen, China	28-30 Aug 07
116.	ASTRI Technology Forum – "Applied SoC Designs" at Peking University, Beijing, China	1 Sep 07
117.	<p><b>ASTRI's Industry and University Consultation Forum, Hong Kong</b></p> <p><b>Highlight:</b> The whole day Forum, held in Hong Kong, attracted over 200 participants including senior managements from industries and professors from local universities. The objectives of the Forum were to introduce ASTRI's different technology programmes and R&amp;D endeavors being undertaken and planned for, to solicit the target audiences' ideas for other possible future projects, and to seek contributions from industry and universities to collaborate on the development of a wide spectrum of innovative technologies for the sustainable growth of Hong Kong as a knowledge-based economy and the technology upgrading of regional enterprises.</p>	<b>5 Sep 07</b>
118.	<p><b>ASTRI Industry and University Consultation Forum, Shenzhen</b></p> <p><b>Highlight:</b> The whole day Forum, held in Shenzhen, attracted more than 300 participants from over a hundred local and overseas enterprises and universities, including senior management from industry and experts from the academia. The objectives of the Forum were to introduce and promote ASTRI's state-of-the-art technologies and R&amp;D initiatives to the industry partners, potential customers and academia, to attract business collaborations for the development of innovative technologies in volume,</p>	<b>7 Sep 07</b>

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	and to support the development of a knowledge-based economy in Hong Kong and the Greater China. The Forum also served as an opportunity to consult the industry and academia on the key technology initiatives presented by ASTRI's R&D technology Groups. Supporting organisations included Shenzhen Bureau of Science, Technology and Information, and Innovation and Technology Commission of the Government of the Hong Kong Special Administrative Region.	
119.	ASTRI's engineers staged a live demo entitled "Management by Customizable Wireless Management System" to demonstrate the technology achievements of ASTRI's Communications Technologies Group at "Innovation Expo 2007", HK	14 Sep 07
120.	ASTRI's R&D Director, Materials and Miniaturizations, Communications Technologies Group presented "From Innovation to Commercialization" at Invited Colloquium, Department of Physics, The Hong Kong University of Science and Technology, Hong Kong	11 Oct 07
121.	ASTRI Seminar – "Advanced Packaging Technologies Platform for Wearable Electronics Related Applications", HK	26 Oct 07
122.	ASTRI Technology Forum – "Embedded in Digital Living", HK	31 Oct 07
123.	9 <sup>th</sup> China Hi-Tech Fair, Shenzhen, China	12-17 Oct 07
124.	ASTRI's Vice President and Group Director of Communications Technologies Group and a representative delivered keynote speech and talk at "DTV-Mobile Media Broadcasting Seminar", HK	9 Nov 07
125.	WiMedia UWB Technology & Reality Workshop and Symposium, Beijing, China	13-14 Nov 07
126.	ASTRI Seminar – "Introduction to AVS and the AVS related Work Report from ECE-MTI Department", HK	16 Nov 07
127.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group delivered keynote speech at "China-Japan-Korea Regional Home Network Summit", Beijing, China	28 Nov 07
128.	2007 China (Changsha) Science & Technology Achievements Transformation Fair, Changsha, China	5-8 Dec 07
129.	ASTRI co-organised a seminar entitled "Deployment of Digital TV Broadcasting in Hong Kong"	6 Dec 07
130.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group as speaker for "Trend of Wireless Technology in China at IBM CTO Forum 2007 – Wireless Technology", Hangzhou, China	9-10 Dec 07
131.	ASTRI co-organised "Chongqing Hong Kong – Technology Infrastructure Forum"	10 Dec 07
132.	ASTRI Seminar – "The key approaches multinational and local firms currently use to manage counterfeiting brand in Hong Kong and in Mainland China" by Prof. David T. Tse, the Chair Professor of International Marketing at the Business School of the University of Hong Kong	13 Dec 07
133.	ASTRI co-hosted Forum on Lighting Industries, Guangdong, China	14 Dec 07
134.	ASTRI's Vice President and R&D Director of Advanced Packaging Technologies Program, Material & Packaging Technologies Group delivered speech at "CityU Emerging Technologies Forum - MEMS", HK	18 Dec 07
135.	ASTRI co-hosted "LED Forum: Problems and Solutions", Guangdong, China	19-21 Dec 07
136.	ASTRI Seminar – "ASTRI's Practical MIMO Core Program", HK	20 Dec 07
137.	ASTRI's representatives as speakers for the 5 <sup>th</sup> Pearl River Delta Software Industry Forum, HK	15 Jan 08
138.	ASTRI Technology Forum – "Interactive TV", HK	17 Jan 08
139.	ASTRI Seminar – "Nanometer SoC Design Challenges", HK	25 Jan 08
140.	ASTRI's representative as speaker for "Flat Panel Display Committee Meeting", Guangdong, China	25 Jan 08

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
141.	ASTRI's representative as speaker for "Nanotechnology Forum for Electronics and Home Appliances", HK	25 Jan 08
142.	ASTRI's R&D Director of Materials and Miniaturizations, Communications Technologies Group presented "Thermal Management with Advanced Materials and Structures" at Electrovac Forum, Hong Kong Science Park, Hong Kong	30 Jan 08
143.	Electrovac Forum 2008, HK	30-31 Jan 08
144.	Seminar with Executive Vice Mayor of Shenzhen in Shenzhen International Science and Technology Business Platform, China	18 Feb 08
145.	ASTRI Seminar – "Optical Anti-shaking Technology for Camera Phone Application", HK	29 Feb 08
146.	Low Rate China WPAN Standard Meeting, Beijing	3-4 Mar 08
147.	ASTRI Seminar – 3D Packaging: Market Trends, Technologies, Manufacturing & Reliability, Shanghai, China	17 Mar 08
148.	Talk on Guangdong 3G Alliance in Guangzhou Topic: "香港應科院 WiFi 手機之無線網路語音技術", Guangzhou	18 Mar 08
149.	Semicom China 2008, Shanghai	19 Mar 08
150.	ASTRI Workshop – High performance LED Components, Shenzhen	28 Mar 08
151.	Join AVS conference and AVS workgroup	25-31 Mar 08
152.	ASTRI Seminar on IP in HK	27 Mar 08
153.	3GPP Meeting, Shenzhen	31 Mar-4 Apr 08
154.	LTE Evolution, Shenzhen	7-8 Apr 08
155.	ASTRI co-organised a Technology Forum entitled "AVS and Trends in Digital Broadcasting", HK	8 Apr 08
156.	Workshop co-host with Xiamen Government for '2008 年海峽兩岸光電產業項目對接會'. Xiamen	Apr 08
157.	Conference on Investment Promotion of Guangzhou Electronic Information Industry, Guangzhou	10 Apr 08
158.	ASTRI's Vice President and Group Director of Communications Technologies Group delivered a keynote speech at the Seminar entitled "From Terrestrial to Mobile Digital Television", HK	15 Apr 08
159.	ASTRI's Principal Researcher of Multimedia Communication Technologies Group delivered a keynote speech at a whole-day "Wireless Lifestyle" Conference, HK	15 Apr 08
160.	Tsinghua University Steering committee meeting, Beijing	18 Apr 08
161.	中科院計算所成立儀式, Beijing	19 Apr 08
162.	Seminar entitled "Access Finland – Hong Kong Partnering Opportunities for Companies", HK	23 Apr 08
163.	WOCC 2008, Conference, Taiwan	23-24 Apr 08
164.	Seminar entitled "Finland Salon", Shenzhen, China	25 Apr 08
165.	ASTRI Seminar on "Intelligent Home", HK	25 Apr 08
166.	2008 Asia (Guangzhou) Flat Panel Display Exhibition & Workshop, Guangzhou	May 08
167.	Synopsis China, Shenzhen	16 May 08
168.	閃聯 2008 年度第一次全員工作會, Wuhan	15-16 May 08
169.	2008 年春季全國高教儀器設備展示會, Suzhou	17-19 May 08
170.	EE solutions China, Shenzhen	19 May 08
171.	2008 (第二屆) 中國數字家庭產業峰會(中國電子視像行業協會), Guangzhou	21-23 May 08
172.	EWOM Wafer Processing, Beijing	Mar-May 08
173.	DMB-T consultation, Beijing	Mar-May 08

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
174.	PAV (MP3) IC outsourcing, Beijing	Mar-May 08
175.	Low-cost High Density Packaging (LC-HDP) Development, ChangAn, Dongguan	Mar-May 08
176.	Fabrication of Modified Ceramic, Beijing	Mar-May 08
177.	Device Technology Development, Shenzhen	Mar-May 08
178.	Device Technology Development, Hong Kong	Mar-May 08
179.	High contrast display control modules, Shenzhen	Mar-May 08
180.	3/4-in-1 Packaging, Shenzhen	Mar-May 08
181.	LED BLU Development, Shenzhen	Mar-May 08
<b>International Conferences/ Expositions (87)</b>		
1.	Joint R&D Centres Roadshow in PRD, Guangzhou	29 May 06
2.	Joint R&D Centres Roadshow in PRD, Foshan	30 May 06
3.	Joint R&D Centres Roadshow in PRD, Shenzhen	8 Jun 06
4.	Society for Information Display (SID) 2006 International Symposium, Seminar and Exhibition in San Francisco, US	6-8 Jun 06
5.	Joint R&D Centres Roadshow in PRD, Dongguan	9 Jun 06
6.	China (Fujian) Technology & Projects Fair 2006, Fujian	18-20 Jun 06
7.	Digital Home workshop, Guangzhou	22 Jun 06
8.	Disseminate ASTRI R&D effort in heat dissipating materials and solicit their industrial in-kind contribution and arrange partnership, Shandong	26 Jun 06
9.	The Venture Forum 2006 by Larta Institute, San Jose, US	28-29 Jun 06
10.	Disseminate ASTRI R&D effort in heat dissipating materials and solicit their industrial in-kind contribution and arrange partnership, Wuxi	Jul 06
11.	Introduction of technology development for new designed electrode material, Shenzhen	Jul 06
12.	The “7 <sup>th</sup> International Conference on Electronics Packaging Technology & International Courses on Advanced Packaging Technology”, Shanghai	27-28 Aug 06
13.	4 <sup>th</sup> IC China 2006, Suzhou	6-8 Sep 06
14.	ASTRI Technology Forum on Light Emitting Diode (LED) Device, Shenzhen	15 Sep 06
15.	China DMB Forum, Beijing	19-20 Sep 06
16.	2006 Guangdong-Hong Kong Telecommunications Seminar, Guangzhou	25-26 Sep 06
17.	Fabricate EWOM memory cell via 2 micron CMOS line, Beijing	28 Sep 06
18.	2006 中國通信學會無綫及移動通信委員會學術會議, Guangxi	25-29 Sep 06
19.	China Video Industry Association Conference, Shenzhen	28-29 Sep 06
20.	Introduction of technology development for new designed electrode material and promise to support the in kind contribution on LOT. Disseminate ASTRI R&D effort in battery materials and solicit their industrial in-kind contribution and arrange partnership	Oct 06
21.	Disseminate ASTRI R&D effort in heat dissipating, memory and battery materials and solicit their industrial in-kind contribution and arrange partnership, Fuzhou	Oct 06
22.	ASTRI’s Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group as guest speaker for "Global WiMedia (UWB) Summit in China 2006", Beijing, China	12 Oct 06
23.	15 <sup>th</sup> Wireless and Optical Communications Conference (WOCC), Hangzhou	12-13 Oct 06
24.	The 8 <sup>th</sup> China Hi-Tech Fair, Shenzhen	12-17 Oct 06
25.	2-day Longgang visit, Shenzhen	13-14 Oct 06
26.	Flat Panel Display (FPD) International 2006, Yokohama, Japan	18-20 Oct 06
27.	Texas Instruments Developer Conference, Shenzhen	23 Oct 06
28.	Global WiMAX Summit in China 2006, Beijing	23 Oct 06
29.	Introduction of technology development for new designed electrode material and	23 Oct 06

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	promise to support the in kind contribution on LOT. Disseminate ASTRI R&D effort in battery materials and solicit their industrial in-kind contribution and arrange partnership	
30.	WiMAX Forum, Beijing	23-24 Oct 06
31.	Present DTV R&D effort and seek collaboration with the industry, Hangzhou	25 Oct 06
32.	SATEC: Sino American Technical Exchange Conference, Beijing	16-26 Oct 06
33.	IFAN Standard Committee Meeting, Beijing	25-26 Oct 06
34.	China Mobile TV Industry Chain Forum, Beijing	25-27 Oct 06
35.	Present WiMAX & DTV R&D effort and seek collaboration with industry, Shanghai	31 Oct 06
36.	Introduction of technology development for new designed electrode material and promise to support the in kind contribution on LOT, Shenzhen	Nov 06
37.	FuTURE Achievement Exhibition, Shanghai	Nov 06
38.	Discussion of potential collaboration, Shanghai	Nov 06
39.	Visit Comba - Discussion of potential collaboration in WiMAX Base station Technology, Guangzhou	Nov 06
40.	ASTRI Co-hosted “2006 China Radio Application & Management Conference”, Nanjing, China	2-3 Nov 06
41.	IGRS 標準工作組 2007 年度第 1 次工作會, Shunde	16-17 Nov 06
42.	3 <sup>rd</sup> Asia Electronics Exhibition/Asian LCD Industry Summit 2006, Shanghai	23 -26 Nov 06
43.	ASTRI together with Shanghai Jade Technologies Co. Ltd. (JadeTech), demonstrated the application of UWB wireless communication technology for IP Phone system at the “Asia Electronics Exhibition in Shanghai and China Electronics Fair”, Shanghai	23-26 Nov 06
44.	Innovation & Design Expo, HK	29 Nov- 1 Dec 06
45.	<p><b>International Telecommunication Union (ITU) Telecom Word 2006, HK</b></p> <p><b>Highlight:</b> World’s prestigious telecommunication conference was held outside of Geneva for the first time in 40 years. As an <b>exhibitor</b> in this international event, ASTRI <b>spent more than 12 months to prepare</b> for this event. ASTRI presented its world-class and innovative technologies of its four technology Groups in a <b>booth of 102 sqm</b> located at Pavilion C of Hong Kong, China Pavilion at AsiaWorld-Expo. <b>Over 60,000 participants</b> including VIPs, Forum speakers and media from <b>141 countries</b> participated in the event. Corporate Communications led the <b>booth tour</b> for the Secretary for Commerce, Industry and Technology and the Commissioner for Innovation and Technology. ASTRI’s Vice President and Group Director of Enterprise &amp; Consumer Electronics Group was one of the panelists in the Forum session – “Digital Lifestyle: The Digital Home” on 5 December whereas ASTRI’s Vice President and Group Director of Communications Technologies Group was one of the speakers in the session “Digital Society: ICTs for health” on 6 December. ASTRI’s Chief Operations Officer gave a presentation in the conference – “Powering ICT Excellence” on the e-Government Day organised by Hong Kong, China Pavilion on 7 December. Also, ASTRI’s senior management attended the Opening Ceremony, China Reception and Farewell Dinner of the event.</p>	<b>4-8 Dec 06</b>
46.	ASTRI’s Vice President as speaker for “NextGens Technologies” in Seattle, WA	5-6 Dec 06
47.	2007 International Consumer Electronics Show (CES 2007) (demo and/or support customer demo of HMC, demo P2P HMC), Las Vegas, USA	8-11 Jan 07
48.	IEEE International Conference on Solid State Circuits 2007, San Francisco, USA	11-15 Feb 07
49.	“International IC – China 2007”, Shenzhen, China	5-6 Mar 07
50.	<b>Institute of Electrical and Electronics Engineers (IEEE) Wireless Communications &amp; Networking Conference (WCNC 2007), HK</b>	<b>11-15 Mar 07</b>

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	<p><b>Highlight:</b> ASTRI co-chaired and co-organised the whole event and paper review with HKUST. It took us 18 months to prepare for the WCNC 2007 Conference - one of the world's foremost international technical conferences of the development and deployment of wireless technologies, and for the first time ever, the conference was held outside North America in Hong Kong. The number of paper submissions and number of attendees this year had reached the highest ever in the history of WCNC with 1800 paper submissions from 63 countries and 1000 attendees from all over the world. The Secretary for Commerce, Industry and Technology delivered the opening remarks at the Opening Ceremony on 12 March and the Permanent Secretary for Commerce, Industry and Technology (Communications and Technology) gave the welcoming remarks on 11 March. The 5-day-conference comprised research presentation sessions, tutorials, technology and business application panels.</p>	
51.	Asia Display 2007, Shanghai, China	13-15 Mar 07
52.	2007 Taipei Summit, Asia-Pacific Conference and Exhibition, Taipei, Taiwan	13-15 Mar 07
53.	CeBIT 2007 (support customer demo), Hannover, Germany	15-21 Mar 07
54.	HKTDC AUS Roadshow – “Hong Kong – Shenzhen: Your Partners for Success in China”, Australia	27-29 Mar 07
55.	ASTRI's representative as speaker for “IEEE Wireless Telecommunications Symposium 2007”, Pomona, CA, USA	26-28 Apr 07
56.	ASTRI's representative as speaker for “SID 2007 International Symposium, Seminar & Exhibition”, Long Beach, California, USA	20-25 May 07
57.	The 10 <sup>th</sup> China Beijing International Hi-Tech Expo, Beijing	24-29 May 07
58.	ASTRI's representative as speaker for “2007 IEEE Sarnoff Symposium”, Princeton, NJ, USA	30 Apr-2 May 07
59.	ASTRI's representative as speaker for “2007 IEEE APS Symposium”, Hawaii, USA	10-15 Jun 07
60.	ASTRI participated in “Display Taiwan 2007”, Taipei, Taiwan	13-16 Jun 07
61.	ASTRI co-hosted Changchun Technical Forum – “Advanced Packaging Technologies for Automotive Electronics”, Changchun, China	16 Jun 07
62.	ASTRI's representative as speaker for “2 <sup>nd</sup> Changchun International Optoelectronics Forum and Exhibition”, Changchun, China	16 Jun 07
63.	China (Fujian) Technology and Projects Fair, Fujian, China	18-20 Jun 07
64.	The 8 <sup>th</sup> International Conference on Electronics Packaging Technology & International Courses on Advanced Packaging Technology (ICEPT) 2007”, Shanghai, China	14-17 Aug 07
65.	ASTRI hosted the “Product Analysis & Updated of APTC”, Shanghai, China	14 Aug 07
66.	ASTRI's representative as speaker for “China SSL 2007”, Shanghai, China	22-24 Aug 07
67.	12 <sup>th</sup> IC China 2007, Shenzhen, China	28-30 Aug 07
68.	ASTRI's representative as speaker for “PIMRC Personal Indoor Mobile Radio Communication Technology Forum”, Athens, Greece	9 Sep 07
69.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group delivered a keynote speech at the International Conference and Exhibition on Positioning, Navigation and Timing (Location Asia 2007), HK	13-14 Sep 07
70.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group delivered keynote speech in “Location Asia 2007”, HK	13-14 Sep 07
71.	<p><b>Innovation Expo 2007, HK</b></p> <p><b>Highlight:</b> ASTRI, being the host institute of the Hong Kong R&amp;D Centre for Information &amp; Communications Technologies, participated as one of the major exhibitors to</p>	14-18 Sep 07



No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	showcase its world-class technologies and latest innovations. ASTRI's engineers also staged a live demo entitled "Management by Customizable Wireless Management System" to demonstrate the technology achievements of ASTRI's Communications Technologies Group.	
72.	ASTRI's Vice President and R&D Director of Advanced Packaging Technologies Program, Material & Packaging Technologies Group as speaker for "RoHS Conference (Singapore): Hong Kong's Strategic Approaches in RoHS Implementation", Singapore	Sep 07
73.	ASTRI representative as speaker for "3D System Integration", Munich, Germany	30 Sep-1 Oct 07
74.	9 <sup>th</sup> China Hi-Tech Fair, Shenzhen, China	12-17 Oct 07
75.	Flat Panel Display (FPD) International 2007, Yokohama, Japan	24-26 Oct 07
76.	ASTRI and WiMedia's China Chapter co-hosted Two Conferences, Beijing	13-14 Nov 07
77.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group delivered keynote speech at "China-Japan-Korea Regional Home Network Summit", Beijing, China	28 Nov 07
78.	2007 China (Changsha) Science & Technology Achievements Transformation Fair, Changsha, China	5-8 Dec 07
79.	ASTRI's Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group as speaker for "Trend of Wireless Technology in China at IBM CTO Forum 2007 – Wireless Technology", Hangzhou, China	9-10 Dec 07
80.	Chongqing.Hong Kong – Introduction of Hong Kong's R&D Centres & Technology Infrastructure, Chongqing	9-11 Dec 07
81.	ASTRI's representative as speaker for "The 9 <sup>th</sup> Electronics Packaging Technology Conference (EPTC)", Singapore	10-12 Dec 07
82.	Inno, Design and Tech Expo 2007 (IDT Expo), HK	12-14 Dec 07
83.	International ICT Expo 2008 and Hong Kong Electronics Fair (Spring Edition)	14-17 Apr 08
84.	"WiMAX & DTV Industry Consortium" Inauguration Ceremony	15 Apr 08
85.	Seminar entitled "Finland Salon", Shenzhen, China	25 Apr 08
86.	Chongqing Hi-Tech Fair	17-20 Apr 08
87.	中國高等教育學會展覽, Suzhou	17-19 May 08
<b>III. Industry and Community Outreach (69)</b>		
<b>i/ Publicity Events and Activities</b>		
1.	Hong Kong R&D Centre Launching Ceremony	20 Apr 06
2.	<b>ASTRI Junior Fellowship – a 15-day internship program with publicity activities</b>  <b>Highlight:</b> ASTRI, in collaboration with the co-organisers of the Hong Kong Student Science Project Competition, hosted the "ASTRI Junior Fellowship", a <b>15-day modular program</b> divided into sessions of orientation, technical study, report presentation and award presentation ceremony. The first 14 days of the Fellowship Program were completed from 31 July-17 August 2006, during which the Fellows visited the companies of their <b>3 mentors</b> , namely ASTRI's Chairman, <b>Dr. Allan Wong</b> , SBS, JP, Directors <b>Dr. Roy Chung</b> , JP, and <b>Mr. Daniel Yu</b> . The Final Presentation of study reports was held on 16 August. Mr. Daniel Yu attended the ceremony and presented the honorarium and souvenirs to the Fellows. The Certificate Presentation Ceremony of the Fellowship was held on 14 October 2006, together with the Kick-off Ceremony of Innovation Festival 2006 hosted by ITC. Dr. Allan Wong attended the Ceremony and presented the Certificates of Achievement to the Fellows.	<b>31 Jul-17 Aug &amp; 14 Oct 06</b>
3.	<b>HKICT Awards 2006 Presentation Ceremony</b>	<b>22 Nov 06</b>

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	<p><b>Highlight:</b> A8 WiFi Cellular Base Station, developed by ASTRI and ALTAI Technologies Ltd., was the winner of the <b>Award of the Year, Gold Award</b> of Wireless Technology (Innovation Technology) and Wireless Technology <b>Grand Award</b> of the Hong Kong ICT Awards 2006.</p>	
4.	The Opening Ceremony of Supply Chain Innovation Centre	1 Feb 07
5.	Signing Ceremony – Collaboration between the R&D Centre with Sun Yat-Sen University & Dinner Reception	8 Oct 07
6.	Strategic Collaboration Opportunities with Foshan Municipal Government	10 Oct 07
7.	<p><b>ASTRI established Joint Lab with Tsinghua University</b></p> <p><b>Highlight:</b> The collaboration with Tsinghua University would leverage the related technological advantages from both parties to promote the commercialisation of DTV technology to the next level, and promote China's domestic intellectual properties on DTV technology in Hong Kong and other regions. Also, the Joint Lab would be a role model of technological collaboration between Hong Kong and Mainland China, not only on DTV technology areas, but also extending the partnership to a higher and broader level for technology and standards innovation.</p>	<b>5 Dec 07</b>
8.	<p><b>ASTRI Received “Innovation Award” from China NITS</b></p> <p><b>Highlight:</b> ASTRI received "Innovation Award" from the Wireless Personal Area Networking (WPAN) Working Group of China National Information Technology Standardization Technical Committee (NITS) during the "WPAN Working Group Annual Technology Conference in Beijing. ASTRI's Communication Technologies Group was recognised and awarded for its contributions to WPAN Working Group and Standards, including low rate WPAN (C-WPAN) and high rate WPAN (C-UWB) standards. ASTRI was honored to receive its first achievement award in this area from NITS, the largest standardization technical committee and a key Standard Authority in China, by which ASTRI's contributions to the China's C-WPAN and C-UWB standards associated with chips and systems development were recognised.</p>	<b>14 Dec 07</b>
9.	<p><b>Signing Ceremony of ASTRI – Tsinghua University Multimedia Broadcasting &amp; Communications Joint Research Laboratory, Digital TV Launching Ceremony and Beijing VIP Delegation’s visit, Hong Kong</b></p> <p><b>Highlight:</b> A two-day program, including visits to Commerce and Economic Development Bureau of the HKSAR Government, Office of the Telecommunications Authority, Television Broadcast Limited and ASTRI, took place on 31 December 2007 for the VIP delegation from Beijing. A signing ceremony for the ASTRI – Tsinghua University Multimedia Broadcasting &amp; Communications Joint Research Laboratory was held in ASTRI, followed by a laboratory tour to Communications Technologies Group. The VIPs attended the HKSARG’s Launching Ceremony of Digital Terrestrial Television Broadcasting held at The Hong Kong Cultural Centre.</p>	<b>30-31 Dec 07</b>
10.	<p><b>"2007 Hong Kong Awards for Industries: Technological Achievement Grand Award" Presentation Ceremony</b></p> <p><b>Highlight:</b> The A8 WiFi Cellular Base Station, jointly developed by ASTRI and ALTAI Technologies Limited, a spun-off company from ASTRI, won the "2007 Hong Kong Awards for Industries: Technological Achievement Grand Award" in the Technological Achievement Category</p>	<b>23 Jan 08</b>

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<b>ii/ Promotion of Technologies for Commercialisation</b>		
<b>Advertisements of “Expression of Interests” in major English &amp; Chinese newspapers &amp; ASTRI’s website</b>		
11.	H.264 Video Codec Technology	19 Apr 06
12.	Java™ Acceleration Technology	19 Apr 06
13.	LED-based Light Source technology	16 Jun 06
14.	LED-based Backlight Unit for large-size LCD TV	19 Jun 06
15.	Wireless Home AV Distribution Platform – An Application of Practical MIMO	5 Jul 06
16.	Low Drop-out (LDO) Technology	7 Aug 06
17.	Image Signal Processing (ISP) Integrated Circuit Design Technology	26 Aug 06
18.	Embedded Optical Link Technology for High Performance Multimedia Interfacing	5 Sep 06
19.	Optical Sensor Technology for High Precision Distance Sensing	5 Sep 06
20.	Low-voltage DC-DC Converters	15 Sep 06
21.	MIMO Technology and Compact Antenna Design	11 Dec 06
22.	LED Device Technology	28 Dec 06
23.	MIMO Technology and Compact Antenna Design (Re-post, deadline extended)	8 Jan 07
24.	Active-Dynamic LED Backlight Unit for large-size LCD TV	19 Jan 07
25.	Wireless Home AV Distribution Platform – An Application of Practical MIMO	26 Apr 07
26.	Intelligent Wireless Home Network Gateway	27 Apr 07
27.	H.264 Video Decoder Technology	30 Apr 07
28.	Advanced Antenna Technology	4 May 07
29.	Thermal Management with Advanced Materials and Structures	18 May 07
30.	Recordable Electrical Memory	18 May 07
31.	Customizable Wireless Management System (CWMS)	26 Jun 07
32.	8-bit Micro-controller Unit (MCU) Technology	28 Jun 07
33.	UPnP™ AV (Audio/Video) Technologies	29 Jun 07
34.	CW PAN/ZigBee RFIC Transceiver	15 Aug 07
35.	Design of High Definition Receiver for Hong Kong Digital Terrestrial TV	11 Sep 07
36.	Dynamic Range Display by using Active-Dynamic LED Backlight	2 Oct 07
37.	LED Lighting Driver Technology	15 Oct 07
38.	Thermal Energy Management with Advanced Material and Structure	3 Dec 07
39.	Flexible-Adaptive Active-Dynamic LED Backlight Control SiIP	7 Jan 08
40.	A Novel Method of Removing Sapphire for Solid-state Lighting Power GaN LEDs	14 Jan 08
41.	Next generation Anode materials for Li Ion battery	6 Feb 08
42.	Recordable Electrical MEMory	6 Feb 08
43.	DVB-H Core for Multimode Mobile TV	5 Mar 08
44.	Multi-Mode Mobile TV	5 Mar 08
45.	T-DMB Digital TV/Audio Baseband Demodulator	5 Mar 08
<b>Dissemination of ASTRI e-Newsletter to industry, public at large, academia, professional organisations, government bodies, etc.</b>		
46.	ASTRI e-Newsletter Vol. 9	May 06
47.	ASTRI e-Newsletter Vol. 10	Sep 06
48.	ASTRI e-Newsletter Vol. 11	Jan 07

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
49.	ASTRI e-Newsletter Vol. 12	May 07
50.	ASTRI e-Newsletter Vol. 13	Oct 07
51.	ASTRI e-Newsletter Vol. 14	Feb 08
<b>Dissemination of ASTRI Technology Brief to potential business partners</b>		
52.	ASTRI Technology Brief	29 Jan 07
<b>iii/ Corporate Publications</b>		
<b>Printed Matters</b>		
53-60.	Annual Cycle for the Production of Promotional Materials 2006 (8 Bilingual Technologies Booklets for 4 R&D Groups)	Apr 06
61-64.	Production of promotional Flyers for ICT R&D Centre, ASTRI (4 Bilingual flyers) and ASTRI Folder	May-Aug 06
<b>Multimedia</b>		
65.	ASTRI website update	Throughout the year
66.	Design & production of electronic cards and announcements for events and seminar	Throughout the year
<b>Productions</b>		
67-69.	Promotion banners/backdrops/pull-up posters for seminars and exhibitions	Throughout the year
<b>IV. Press &amp; Media (59)</b>		
<b>i/ Media Interviews/ Publications/ TV Productions</b>		
1.	Contribute a Chinese article introducing “HK R&D Centre for ICT” for “Capital Entrepreneur” Magazine – “科研拓珠三角商機 鞏固香港優勢”	Jun 06 Issue
2.	ASTRI on “LEDs Magazine” – an International publication to report ASTRI’s participation in Society for Information Display (SID) 2006 International Symposium in San Francisco, USA	Jun 06 Issue
3.	Interview by “Electronics Bulletin” with ASTRI’s Vice President and R&D Director of IC Designs Group on 23 May 06	July 06 Issue
4.	Interview by “Electronics Bulletin” with ASTRI’s Vice President and R&D Director of Advanced Packaging Technologies Program, Material & Packaging Technologies Group on 3 Aug 06	Sep 06 Issue
5.	<b>ASTRI’s Chief Executive Officer was interviewed by South China Morning Post on 11 Sep 06, and the article was published in the “Engineering &amp; Technology Supplement”</b>	<b>29 Sep 06</b>
6.	Contribute an article introducing “HK R&D Centre for ICT” for Hong Kong Chinese Manufacturers' Association's monthly magazine – “HK Entrepreneur”	Nov 06 Issue
7.	Interview with ASTRI’s CEO by Hong Kong Polytechnic University and Hong Kong Trade Development Council	22 Nov 06
8.	HKSAR 10 <sup>th</sup> Anniversary Commemorative Book – ASTRI is being highlighted in the chapter on “Science, Innovation & Technology”	1 Dec 06
9.	<b>Filming by RTHK for “Innovation and Technology”, a TV documentary series sponsored by the Innovation and Technology Commission</b>	<b>22 Dec 06</b>
10.	Interview by “China Electronic Market” (Vol. 2.2007) with ASTRI’s Vice President and R&D Director of Wireless Multimedia Technologies Program, Communications Technologies Group	<b>Jan 07</b>
11.	Interview by “Career Times – IT & Engineering Supplement” with ASTRI’s Vice President & Group Director of Communications Technologies Group on 28 Feb 07	16 Mar 07
12.	Interview by “Hong Kong Economic Times” with ASTRI’s Chairman on 6 Jun 07	11 Jun 07
13.	Interview by “Ming Pao” with ASTRI’s Chairman on 6 Jun 07	11 Jun 07
14.	Interview by “Commercial Daily” with ASTRI’s Vice President and Group Director of Enterprise & Consumer Electronics Group	12 Jun 07

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
15.	Interview by “Television Broadcasts Limited” with ASTRI’s Chairman	18 Jun 07
16.	Interview by “South China Morning Post” with ASTRI’s Chairman	18 Jun 07
17.	<p><b>Interview by “San José Mercury News” with ASTRI’s Chief Operations Officer</b></p> <p><b>Highlight:</b> The interview article, entitled “Imitators or Innovators? Emerging Tech Hubs Haven’t Matched Valley’s Creativity”, was published on 26 November 2007 with circulation covering Silicon Valley area</p>	<p><b>3 Sep 07 (published on 26 Nov 07)</b></p>
18- 21.	<p><b>Four separate interviews conducted by German Research Project on Electronics Industry in Hong Kong and PRD with ASTRI’s R&amp;D Vice Presidents</b></p> <p><b>Highlight:</b> Four 1-hour interview sessions were conducted with ASTRI’s Vice Presidents and Group Directors/R&amp;D Directors. The objectives of the interviews are to understand the role of ASTRI in the development of R&amp;D in innovation and communications technologies and the electronics industries in Hong Kong and PRD region. A complete research paper will be published some time in October 2008.</p>	<p><b>5, 10, 11 &amp; 17 Oct 07 (to be published in Oct 08)</b></p>
22.	<p><b>Overseas Scholars from Savantas Policy Institute</b></p> <p><b>Highlight:</b> Four overseas scholars from Savantas Policy Institute visited ASTRI and conducted a research interview with ASTRI’s Chief Operations Officer on Hong Kong’s technology and innovation, as well as its impact on Hong Kong Economy.</p>	<p><b>9 Jan 08</b></p>
23.	Interview by <b>Shenzhen’s “Technology Exchange”</b> with ASTRI’s Vice President and Group Director of Communications Technologies Group on Hong Kong DTTV development and ASTRI’s involvement, especially on the Multimedia Broadcasting and Communications Joint Research Laboratory with Tsinghua University and the testing of DTTV standard in Hong Kong	17 Jan 08
24.	Interview by current affairs programme <b>“Backchat”</b> on <b>RTHK Radio 3</b> for ASTRI’s Vice President and Group Director of Communications Technologies Group to provide expert opinion on the discussion of adverse effects of “Mobiles linked to disturbed sleep”, a news article published by both BBC and The Standard. This was an excellent opportunity for ASTRI to establish corporate branding as an opinion leader in science and technology.	24 Jan 08
25.	Interview by “Electronics Bulletin” - a bi-monthly Chinese Magazine published by Hong Kong Productivity Council with ASTRI’s Vice President and Group Director of Material & Packaging Technologies Group on the topic of 《LED 照明系統商機無限》	21 Feb 08
26.	Interview by “Shenzhen Economic Daily” with ASTRI’s Vice President and Group Director of Material & Packaging Technologies Group on ASTRI overview and latest technology development achievements.	22 Feb 08
27.	ASTRI’s introduction to a bi-monthly Chinese Magazine to be issued by Shenzhen International Science and Technology Business Platform	26 Feb 08
28.	Interview and consultation forum by “Shenzhen Economic Daily” in Shenzhen International Science and Technology Business Platform	5 Mar 08
29.	Interview by “Hong Kong Commercial Daily” with ASTRI’s Vice President and Group Director of Communications Technologies Group on WiMax	7 May 08
30.	Interview by “The National Post” in Canada on applied research and development, and technology transfer	30 May 08
<b>ii/ Press Conferences Held</b>		
31.	ASTRI responds to Report No. 48 of the Director of Audit	18 Apr 07
32.	ASTRI responds to CEO’s resignation	24 Apr 07
33.	<b>ASTRI signed an MOU to establish the Hong Kong Digital Terrestrial Television</b>	<b>24 Oct 07</b>

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	<p><b>Local Testing Group</b></p> <p><b>Highlight:</b> ASTRI has signed an MOU at a joint press conference to establish the Hong Kong Digital Terrestrial Television Local Testing Group (DTTG) - the first organisation set up in Hong Kong to support both the roll out and testing of the digital TV (DTV) broadcasting technology, and in particular for the testing of set-top boxes and digital TV sets.</p>	
34.	<p><b>ASTRI's representative as speaker for The Hong Kong Institution of Engineers (HKIE)'s Press Conference</b></p> <p><b>Highlight:</b> ASTRI's representative was invited to be one of the speakers for a Press Conference on "New Technology in TV Digital Broadcasting" organised by HKIE, and to introduce ASTRI's latest and most advanced video compression algorithm including MPEG-4, H.264 and AVS technologies.</p>	27 Nov 07
<b>iii/ Press Releases Issued</b>		
35.	Hong Kong's ASTRI reconfirms cadence as key EDA solutions provider	19 Jun 06
36.	CEVA & ASTRI form partnership to develop new-generation multimedia solutions for Hong Kong & Greater China	20 Jul 06
37.	ACTO and ASTRI showcase digital HD projector technology with UWB wireless video streaming capability	12 Oct 06
38.	ASTRI and IGRS demonstrate home media TV streaming over WiMedia UWB technology	17 Oct 06
39.	ASTRI announces new Board appointments	21 Oct 06
40.	ASTRI co-organised 2006 China Radio Applications & Management Conference 2006, Nanjing	2-3 Nov 06
41.	ASTRI Technology Forum on Multimedia Digital Home in Mianyang, Sichuan, China on 25 November 2006	25 Nov 06
42.	ASTRI and JadeTech showcase UWB wireless communications technology for IP phone	26 Nov 06
43.	ASTRI selects Boingo Embedded Toolkit to enable Wi-Fi roaming on wireless VoIP design	12 Feb 07
44.	ASTRI responds to Audit Report	18 Apr 07
45.	ASTRI committed to improving administration and continued applied R&D	24 Apr 07
46.	Statement from ASTRI's CEO upon his resignation	24 Apr 07
47.	Statement in response to media inquiries after press conference	24 Apr 07
48.	ASTRI announces new Board appointment	19 Mar 07
49.	ASTRI and ACTO showcase world's first UWB (Ultra Wide-Band) high definition video ultra big screen projector TV	17 May 07
50.	ASTRI announced the appointment of Interim Chief Executive Officer	9 Jul 07
51.	ASTRI responds to Public Accounts Committee Audit Report No. 48	11 Jul 07
52.	ASTRI Industry and University Consultation Forum Shenzhen	7 Sep 07
53.	ASTRI announces the appointment of new Chairman	18 Oct 07
54.	HKSTP, ASTRI, TVB, ATV and Rhode and Schwarz to establish Hong Kong Digital Terrestrial Television Local Testing Group for New DTV Standard	24 Oct 07
55.	ASTRI executive announcement	9 Jan 08
56.	Establishment of WiMAX & DTV Industry Consortium	15 Apr 08
57.	SMIC and ASTRI collaborate on the development of the world's first dual mode UWB MAC ASIC supporting both WiMedia compliant WLP and China IGRS	21 Apr 08

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
	networking applications	
<b>iv/ Media Events</b>		
58.	Media luncheon with Interim CEO	9 Jul 07
59.	<p><b>Media Lab Tour to ASTRI cum Media Workshop</b></p> <p><b>Highlight:</b> To promote a better understanding of ASTRI's technological achievements and breakthroughs to the local media, over 30 reporters visited ASTRI's laboratories on 4 September, 2007. The "Media Lab Tour" organised by ASTRI was very successful as majority of the local print and electronics media took part in the event. The Interim Chief Executive Officer of ASTRI gave a presentation to introduce ASTRI to the media at the opening ceremony.</p>	4 Sep 07
<b>V. VIP Visits/ Lab Tours (101)</b>		
1.	<b>Vice Minister of Ministry of Science &amp; Technology</b>	19 Apr 06
2.	<b>Ministry of Information Industry, PRC (MII)</b>	21 Apr 06
3.	Fujian Economic & Trade Commission	26 Apr 06
4.	Chongqing Science and Technology Commission	18 May 06
5.	Shenzhen CXO Club delegation	23 May 06
6.	Optoelectronics Industry of Xiamen	26 May 06
7.	Government of Alberta, Canada	12 Jun 06
8.	Gold Peak Industries (Holdings) Limited	3 Jul 06
9.	Cambridge University - Department of Manufacturing Engineering (MET II)	6 Jul 06
10.	<b>Hong Kong Student Science Project Competition 2006's winning teams</b>	10 Jul 06
11.	Shenzhen Virtual University	19 Jul 06
12.	Savantas Policy Institute	21 Jul 06
13.	Sichuan Changhong Electric Company Limited	24 Jul 06
14.	Taiwan Teco Corporation	24 Jul 06
15.	Dongguan – Science & Technology Bureau delegation	1 Aug 06
16.	Wenzhou delegation – entrepreneurs from high-tech manufacturing business sector of Zhejiang Wenzhou	1 Aug 06
17.	The Economic Analysis and Business Facilitation Unit, Financial Secretary's Office, HKSARG	31 Aug 06
18.	Swedish Innovation delegation	1 Sep 06
19.	<b>Shenzhen delegation – Led by Vice Mayor of Shenzhen Municipal People's Government</b>	21 Sep 06
20.	Beijing delegation	25 Sep 06
21.	Kunshan – Science & Technology Bureau delegation	27 Sep 06
22.	Suzhou delegation	27 Sep 06
23.	Hei Long Jiang delegation	29 Sep 06
24.	<b>Hong Kong Trade Development Council Electronics/Electrical Appliances Industries Advisory Committee</b>	11 Oct 06
25.	Tsinghua University delegation	13 Oct 06
26.	Xiamen – Science & Technology Bureau delegation	13 Oct 06
27.	Chile Electronics Partnership Mission	16 Oct 06
28.	Fujian – Science & Technology Bureau delegation	19 Oct 06
29.	Israel Technion Institute of Management (TIM)	23 Oct 06
30.	<b>The Chief Executive of HKSAR Government</b>	24 Oct 06
31.	U.S. Chinese Institute of Engineers	26 Oct 06
32.	Science Park Association Denmark	7 Nov 06
33.	Hei Long Jiang – Science & Technology Bureau delegation	9 Nov 06

No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
<b>34.</b>	<b>Shanghai SVA delegation</b>	<b>10 Nov 06</b>
35.	Former President of ITRI of Taiwan	23 Nov 06
36.	Suzhou delegation	1 Dec 06
37.	Kunshan delegation	4 Dec 06
38.	TR Labs, Canadian delegation	7 Dec 06
39.	CEO of Hutchison Global Communications Ltd.	13 Dec 06
40.	Yangtze University delegation, Huibei	13 Dec 06
41.	Shanghai Vice Mayor delegation	14 Dec 06
42.	Vice President of SAE Magnetics HK Ltd.	19 Dec 06
43.	NSTDA delegation, Thailand	19 Dec 06
<b>44.</b>	<b>Industry Strategy Symposium Hong Kong delegation</b>	<b>20 Dec 06</b>
45.	Former Vice-Minister, The Ministry of Science and Technology of the People's Republic of China and Honorary Professor of the Faculty of Engineering, Chinese University of Hong Kong	23 Jan 07
46.	Chairman of Swedish's Öresund Innovation	31 Jan 07
47.	Wong's International (Holdings) Ltd.	31 Jan 07
48.	Executive Director of Hong Kong Productivity Council	1 Feb 07
49.	Suzhou delegation	2 Mar 07
50.	Switzerland Delegation	6 Mar 07
51.	China FAW Group Corporation	7 Mar 07
52.	TEKEL delegation, Finland	8 Mar 07
53.	NTP delegation, Taiwan (WCNC)	13 Mar 07
54.	Vice Governor of Jilin Province	22 Mar 07
55.	Shenzhen Institute of Advanced Technology Chinese Academy of Sciences (SIAT) delegation	30 Mar 07
56.	Malaysian Delegation	11 Apr 07
57.	Federation of Hong Kong Business Associations Worldwide	17 Apr 07
58.	University for Texas in Dallas (MBA Students)	9 May 07
59.	Chinese Academy of Science	17 May 07
60.	Chinese Technology Delegation	22 May 07
61.	Department of Science & Technology, Guangdong Province	23 May 07
62.	UK Trade & Investment	20 Jun 07
63.	Delegation from Departments of Science and Technology of Guangdong Province	10 Jul 07
64.	Delegation from Departments of Science and Technology of Guangdong Province	17 Jul 07
65.	Delegation of America Hong Kong Electronics Association	27 Jul 07
<b>66.</b>	<b>Permanent Secretary for Commerce and Economic Development (Communications and Technology)</b>	<b>24 Aug 07</b>
67.	Delegation of Leading Officials from Dongguan	4 Sep 07
<b>68.</b>	<b>Media Lab Tour</b>	<b>4 Sep 07</b>
69.	Delegation from Departments of Science and Technology of Mainland China	17 Sep 07
70.	Delegation from the Federation of Hong Kong Industries	20 Sep 07
71.	Delegation from the Chinese American Semiconductor Professional Association	8 Oct 07
72.	Federation of Hong Kong Business Associations Worldwide	9 Oct 07
73.	French Nuclear Agency, France	16 Oct 07
74.	Zhong Shan University	18 Oct 07
75.	Undergraduate Students from Hong Kong Polytechnic University	7 Nov 07
76.	Hangzhou Science & Technology Bureau	22 Nov 07
77.	Delegation of Zhuhai Science and Technology Enterprises	26 Nov 07
78.	Delegation of Shanxi Science and Technology Enterprises	12 Dec 07
79.	Delegation of Economy and Trade Bureau of Chancheng District, Foshan	14 Dec 07



No.	Promotional and Networking Activities – (for the period 1 April 2006 – 31 May 2008)	Date
80.	Delegation of Shanxi Science and Technology Enterprises	12 Dec 07
<b>81.</b>	<b>Commissioner for Innovation and Technology</b>	<b>27 Dec 07</b>
<b>82.</b>	<b>Beijing VIP Delegation</b>	<b>31 Dec 07</b>
83.	Shanxi Science and Technology Enterprises' Visit	22 Jan 08
84.	Dr. Hugo Chan	23 Jan 08
85.	Industry Practitioners' Visit	31 Jan 08
86.	National Institute of Advanced Industrial Science and Technology Delegation's Visit	5 Feb 08
87.	Shenzhen Nanshan Science and Technology Institute's Visit	6 Mar 08
88.	Chinese American Semiconductor Professional Association and Silicon Valley's Visit	11 Mar 08
89.	Global Entrepreneur Programme of UK Trade & Investment's Visit	14 Mar 08
90.	Savantas Policy Institute's Visit	20 Mar 08
91.	Delegation from Suzhou Kunshan	20 Mar 08
92.	Delegation of the Liaison Office of The Central People's Government's Visit	3 Apr 08
93.	Chinese American Semiconductor Professional Association visited ASTRI on "IC Application Platform"	7 Apr 08
94.	Delegation of the Hungarian Research, Technology and Innovation Council's Visit	10 Apr 08
95.	Students from Hong Kong Polytechnic University EIE333 Class and Information Officers of Innovation and Technology Commissions' Visit	14 Apr 08
96.	Delegation of Kunshan Municipal People's Government's Visit	16 Apr 08
97.	IT delegates from US	9 May 08
98.	Technetix Group Limited's Visit	9 May 08
99.	Delegation of Ministry of Science and Technology	20 May 08
100.	Delegation of Institute of Electrical and Electronics Engineers (IEEE)	27 May 08
101.	Delegation of Poly-World, Canada	27 May 08
<b>VI. Corporate Strategic Meetings (5)</b>		
<b>i/ Technology Advisory Committee (TAC) Annual Meeting (4-Day)</b>		
1.	The annual TAC meeting was held in Hong Kong from 29 Nov – 1 Dec, 2006 and attended by eight technical advisors, ASTRI's board of directors, senior management and representatives from R&D Groups. Besides the review meetings, lab tours were held at ASTRI on 29 Nov, 2007.	29 Nov-1 Dec 06
<b>ii/ Senior Management Brainstorming Meeting (1-Day)</b>		
2.	A whole-day executive meeting was held to discuss the strategic planning and operational targets for ASTRI. It was attended by ASTRI's senior management.	14 Jul 06
<b>iii/ Chairman's meeting with ASTRI Staff (3 times)</b>		
3-5.	To enhance internal communications, a series of informal gatherings were held between Chairman and staff.	20 May, 4 Jul & 14 Aug 06