

**For discussion
on 11 November 2019**

**Legislative Council Panel on
Information Technology and Broadcasting**

**Capital Works Reserve Fund Head 710 Computerisation
Subhead A007GX (Block Allocation) –
New Administrative Computer Systems:
2020-21 Estimates of Expenditure**

Introduction

This paper seeks Members' support for the 2020-21 Estimates under Capital Works Reserve Fund Head 710 Computerisation Subhead **A007GX** (Block Allocation) – New Administrative Computer Systems.

Background

2. The Finance Committee ("FC") has approved the establishment of block allocation subheads under different Heads of Expenditure of the Capital Works Reserve Fund ("CWRF"). At present, there are a total of 26 CWRF block allocation subheads, covering different types of expenditure on public works, land acquisition, capital subvention and computerisation projects. The financial ceiling of each project under Head 710 Computerisation Subhead **A007GX** (Block Allocation) – New Administrative Computer Systems is \$10 million. The Financial Secretary has delegated to the Government Chief Information Officer the power to approve projects and authorise expenditure under the Block Allocation. Projects with expenditure exceeding the above ceiling should be submitted to FC for funding approval individually.

3. Computerisation projects with expenditures up to \$200,000 are approved by the relevant bureaux / departments ("B/Ds") and met from the operating expenses of the respective Controlling Officer's Reports under the General Revenue Account.

Computerisation Block Allocation

4. Each year, the Office of the Government Chief Information Officer (“OGCIO”) assesses the funding requirements for Subhead **A007GX** in the following financial year having regard to the cash flow requirements of approved block vote projects, new project proposals submitted by B/Ds, anticipated new projects for various e-Government initiatives to be submitted, as well as the spending position of the Block Allocation.

5. In proposing new computerisation projects, B/Ds are required to observe the following guiding principles -

- (a) support the implementation of e-Government strategies in managing and using information and communications technology and adopt e-Government service as a major mode of service provision;
- (b) integrate e-Government services into their overall business plans and introduce service transformation and business process re-engineering in all organisational / business reviews to enhance business benefits;
- (c) embrace a citizen-centric culture in the delivery of public services and encourage the public to adopt the most efficient, user-friendly and cost-effective channels;
- (d) proactively identify opportunities for implementation of cross-department services, take ownership of these services and account for their performance / benefits;
- (e) support the development of Hong Kong into a world-class smart city; and
- (f) adopt the new pro-innovation procurement policy effective April 2019.

6. OGCIO requires B/Ds to regularly review their project timetable in light of latest progress to derive realistic cash flow requirements. This arrangement not only avoids unnecessarily locking up funds for individual projects, but enables OGCIO to deploy the relevant provisions to meet the requirements of other urgent or high priority projects.

2020-21 Estimates of Expenditure

7. We estimate that a Block Allocation of **\$1,300 million** will be required under Subhead **A007GX** for 2020-21, which is \$180 million (or 16.1%) higher than the provision of \$1,120 million in 2019-20. A breakdown of the expenditure items for 2019-20 and 2020-21 is at **Annex A**. The proposed annual estimates of the Block Allocation will enable the Government to make effective use of information technology (“IT”) to improve services and operational efficiency, as well as strengthen system security.

8. At **Annex B** are the estimated cash flow requirements of projects implemented / to be implemented in or before 2019-20 and new projects to be implemented in 2020-21. The new projects proposed under the Block Allocation can be broadly classified into the following categories –

(a) **e-Government**

To further enhance user experience of various e-Government services, OGCIO requires all B/Ds to adopt mobile-friendly design in developing new e-Government systems and adopt such design in all government websites by end-2020. Moreover, some government departments have adopted the Faster Payment System and common QR codes launched by the Hong Kong Monetary Authority to facilitate convenient payments of tax, rates and government rents, and water charges. This service will be extended to other government departments progressively. Some new projects include -

- (i) Enhancement of Vehicles and Drivers Licensing Integrated Data V System to support Faster Payment System (Transport Department);
- (ii) Implementation of Performing Arts Web Portal (Leisure and Cultural Services Department); and

- (iii) Enhancement of Websites of Dutiable Commodities System and Road Cargo System adopting Mobile Friendly Design (Customs and Excise Department).

(b) Opening up government data and using robotic technology

We announced the new open data policy and measures to B/Ds in September 2018, requiring them to endeavour to open up their data in machine-readable formats on the Public Sector Information Portal (data.gov.hk) for free use by the public with a view to promoting innovation and research. Moreover, the Government will strengthen the use of robotic technology to enhance city management, improve people's quality of living and promote smart city development. Some new projects include -

- (i) Development of Common Interactive Data Dissemination System for Social and Economic Statistics (Census and Statistics Department);
- (ii) Online Dissemination of Airborne Light Detection and Ranging Data (Civil Engineering and Development Department); and
- (iii) Implementation of Chatbot Service on "GeoInfo Map" Website (Lands Department).

(c) Enhancing operational efficiency

Apart from the provision of public services, B/Ds will also develop and implement various IT systems to enhance internal operational efficiency and productivity, create a greener environment, and address growth in business demands. Some new projects include -

- (i) Enhancement of Tobacco and Alcohol Control Office Information System (Department of Health);
- (ii) Revamp of Food Surveillance System (Food and Environmental Hygiene Department); and

- (iii) Development of Mobile Solution for Facilitating Monitoring and Patrolling Squatter Structures (Lands Department).

(d) System technology refresh

System technology refresh is an on-going task to address the problems of ageing system hardware and obsolete software, as well as leverage the next generation technology to enhance system efficiency and functionality. Moreover, the Government will adopt cloud computing to enhance agility and efficiency in meeting the growing demand of B/Ds on IT resources. Some new projects include -

- (i) Revamp of Laboratory Information Management System (Drainage Services Department);
- (ii) Upgrade of Backend System of Electronic Billing for Rates and Government Rent (Rating and Valuation Department); and
- (iii) Revamp of Online Application System for School-based Support Services (Education Bureau).

(e) Strengthening IT security

Amidst the ever-increasing number and complexity of cyber security threats, B/Ds will conduct regular security risk assessments and audits on IT systems in accordance with IT security policies and implement effective measures to guard against security threats and cyber attacks on Government IT systems. Some new projects include -

- (i) Strengthening Data Security (Buildings Department);
- (ii) Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection (Labour Department); and

- (iii) Strengthening of IT Security and IT Security Risk Assessment and Audit (Planning Department).

A list of the 267 new projects to be implemented in 2020-21 is at **Annex C**.

Submission of Funding Proposal to FC

9. If supported by the Panel, the Government will submit the 2020-21 estimates of expenditure of all block allocations under CWRP (including Subhead **A007GX**) to the Public Works Subcommittee (“PWSC”) (tentatively in December 2019) and seek funding approval from FC (tentatively in January 2020).

Advice Sought

10. Members are invited to support the submission of 2020-21 estimates of expenditure for CWRP Head 710 Subhead **A007GX** (Block Allocation) – New Administrative Computer Systems to PWSC.

Office of the Government Chief Information Officer
November 2019

Annex A

**Breakdown of the expenditure items in the
2019-20 and 2020-21 Block Allocations**

| Category of Expenditure | 2019- 20 Provision (\$M) | 2020-21 Estimates (\$M) | Difference (\$M)(%) |
|------------------------------------|---|--|--------------------------------|
| 1. Hardware | 255 | 287 | +32 (12.5%) |
| 2. Software | 176 | 201 | +25 (14.2%) |
| 3. Implementation Services | 388 | 455 | +67 (17.3) |
| 4. Contract Staff | 178 | 208 | +30 (16.9%) |
| 5. Contingency | 71 | 85 | +14 (19.7%) |
| 6. Others | 52 | 64 | +12 (23.1%) |
| Total: | 1,120 | 1,300 | +180 (16.1%) |

Annex B

**Provisional cash flow requirements of
the projects to be funded
under the proposed Block Allocation in 2020-21**

| | <u>No. of projects</u> | Tentative cash flow requirements <u>in 2020-21</u> (\$M) |
|--|-------------------------------|---|
| Projects implemented / to be implemented in 2019-20 | 628 | 1,021 |
| New projects to be implemented in 2020-21 | 267 | 279 |
| Total : | <u>895</u> | <u>1,300</u> |

Annex C

New projects to be implemented in 2020-21

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|----|--|--------------------------------------|---|---|
| | <u>Agriculture, Fisheries and Conservation Department</u> | | | |
| 1 | Upgrade of Departmental Portal | 4.9 | Q1 | Q1/2021-22 |
| 2 | Enhancement of Government Forms for Adoption of “iAM Smart” and e-Submission | 5.0 | Q1 | Q1/2021-22 |
| 3 | IT Security Risk Assessment and Audit | 1.0 | Q2 | Q3/2021-22 |
| 4 | Upgrade of Thematic Websites | 4.8 | Q2 | Q3/2021-22 |
| 5 | Upgrade of Departmental Intranet System | 5.0 | Q2 | Q4/2021-22 |
| | <u>Architectural Services Department</u> | | | |
| 6 | Upgrade of Office Automation Facilities | 4.9 | Q1 | Q3/2021-22 |
| 7 | Electronic Contractor Documents Submission and Approval Platform | 7.8 | Q1 | Q4/2021-22 |
| 8 | Electronic Forms and Data Processing System | 9.8 | Q1 | Q4/2021-22 |
| 9 | Electronic Contractor Performance Assessment and Management System | 9.5 | Q1 | Q1/2022-23 |
| 10 | Integrated Works Project Management Portal | 9.8 | Q1 | Q2/2022-23 |
| 11 | Upgrade of e-Leave System | 1.1 | Q2 | Q1/2021-22 |
| 12 | Revamp of Works Project Information System to Data Analytics Platform | 8.6 | Q2 | Q2/2022-23 |
| 13 | Upgrade of Departmental Database System | 6.3 | Q2 | Q4/2023-24 |
| | <u>Auxiliary Medical Service</u> | | | |
| 14 | Revamp of Departmental Website | 0.7 | Q1 | Q4/2020-21 |
| 15 | Upgrade of Office Automation System and Network Equipment | 4.3 | Q1 | Q3/2021-22 |
| | <u>Buildings Department</u> | | | |
| 16 | Upgrade of Departmental Portal | 3.6 | Q1 | Q4/2020-21 |

(Note) Q1, Q2, Q3 and Q4 refer to the four quarters of a financial year, i.e., April - June, July - September, October - December and January - March respectively.

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|----|--|--------------------------------------|---|---|
| 17 | Information Systems Strategy Study and Consultancy Study on Data Architecture | 9.8 | Q1 | Q4/2020-21 |
| 18 | Upgrade of Geographical Information System | 5.4 | Q1 | Q2/2021-22 |
| 19 | Strengthening Data Security | 3.3 | Q1 | Q3/2021-22 |
| 20 | Enhancement of On-line Building Records Access and Viewing System | 9.5 | Q1 | Q3/2021-22 |
| 21 | Enhancement of Building Condition Information System | 9.8 | Q1 | Q4/2021-22 |
| 22 | Enhancement of Building Development Information System | 9.8 | Q1 | Q1/2022-23 |
| 23 | Pilot Project for Development of Common Digital Platform for Site Supervision | 8.4 | Q1 | Q2/2022-23 |
| | <u>Census and Statistics Department</u> | | | |
| 24 | Upgrade of e-Leave System | 1.8 | Q1 | Q1/2021-22 |
| 25 | Implementation of Electronic Data Collection Mode in Labour Earnings Survey and Quarterly Survey of Employment and Vacancies | 9.8 | Q1 | Q3/2022-23 |
| 26 | Feasibility Study on Use of Mobile Devices in Data Collection and Fieldwork Management | 8.1 | Q2 | Q4/2021-22 |
| 27 | Migration of Selected Survey Systems to Upgraded Data Processing and Analysis Platform | 9.4 | Q3 | Q4/2021-22 |
| 28 | Development of Computer System Supporting Anonymisation of Survey Data and Data Exchange for Quality Assurance Process | 9.8 | Q4 | Q3/2022-23 |
| 29 | Development of Common Interactive Data Dissemination System for Social and Economic Statistics | 9.8 | Q4 | Q3/2023-24 |
| | <u>Chief Executive's Office</u> | | | |
| 30 | Upgrade of e-Leave System | 0.7 | Q1 | Q4/2020-21 |
| | <u>Chief Secretary for Administration's Office</u> | | | |
| 31 | Upgrade of Departmental Portal | 2.7 | Q1 | Q3/2020-21 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|----|--|--------------------------------------|---|---|
| 32 | Upgrade of Network Equipment for Local Area Network and Administration Accommodation Network | 9.7 | Q1 | Q3/2021-22 |
| 33 | Upgrade of Wi-Fi Network Equipment in Central Government Offices | 9.8 | Q1 | Q1/2022-23 |
| | <u>Civil Aid Service</u> | | | |
| 34 | Revamp of Departmental Website with Mobile-Friendly Design | 0.8 | Q1 | Q3/2020-21 |
| 35 | Enhancement of Human Resources Management System | 9.0 | Q1 | Q4/2021-22 |
| 36 | Upgrade of e-Leave System | 1.0 | Q2 | Q1/2021-22 |
| | <u>Civil Aviation Department</u> | | | |
| 37 | Upgrade of Information Sharing Platform | 9.7 | Q1 | Q3/2021-22 |
| | <u>Civil Engineering and Development Department</u> | | | |
| 38 | IT Security Risk Assessment and Audit | 0.8 | Q1 | Q1/2021-22 |
| 39 | Extension of IT Infrastructure | 9.6 | Q1 | Q3/2021-22 |
| 40 | Online Dissemination of Airborne Light Detection and Ranging Data | 7.3 | Q1 | Q4/2021-22 |
| 41 | Building Information Modelling Data Repository | 8.5 | Q1 | Q4/2021-22 |
| 42 | Enhancement of Common Operational Picture | 8.8 | Q1 | Q3/2022-23 |
| 43 | Upgrade of Office Automation Facilities | 9.4 | Q2 | Q3/2021-22 |
| 44 | Enhancement of Integrated Landslide Information System | 4.2 | Q2 | Q2/2023-24 |
| 45 | Departmental Inventory System | 9.8 | Q2 | Q2/2023-24 |
| | <u>Civil Service Bureau</u> | | | |
| 46 | Upgrade of Departmental Portal | 4.5 | Q1 | Q1/2021-22 |
| 47 | Technology Refresh for Network Infrastructure, Server Systems and IT Facilities | 9.8 | Q1 | Q4/2021-22 |
| 48 | Enhancement of Online Application Systems for Adoption of “iAM Smart” and Mobile-Friendly Design | 5.2 | Q1 | Q2/2022-23 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|----|---|--------------------------------------|---|---|
| 49 | Online Appraisal System for Executive Officer Grade | 9.8 | Q1 | Q2/2022-23 |
| 50 | IT Security Risk Assessment and Audit | 1.2 | Q3 | Q2/2022-23 |
| | <u>Commerce and Economic Development Bureau</u> | | | |
| 51 | Upgrade of e-Leave System (Communications and Creative Industries Branch) | 0.7 | Q1 | Q2/2020-21 |
| 52 | Upgrade of Virtual Private Network | 1.0 | Q1 | Q4/2020-21 |
| 53 | IT Security Risk Assessment and Audit (Commerce, Industry and Tourism Branch and Overseas Hong Kong Economic and Trade Offices) | 1.8 | Q1 | Q3/2021-22 |
| 54 | Upgrade of Office Automation Servers | 1.1 | Q4 | Q1/2021-22 |
| | <u>Constitutional and Mainland Affairs Bureau</u> | | | |
| 55 | Relocation and Upgrade of IT Systems and Facilities and Revamp of Website (Economic and Trade Office in Chengdu) | 3.7 | Q1 | Q4/2020-21 |
| 56 | Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection (Economic and Trade Office in Shanghai) | 2.9 | Q1 | Q1/2022-23 |
| 57 | Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection (Beijing Office) | 2.0 | Q2 | Q4/2021-22 |
| 58 | Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection (Economic and Trade Office in Wuhan) | 1.6 | Q2 | Q1/2022-23 |
| 59 | Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection (Economic and Trade Office in Guangdong) | 1.6 | Q3 | Q3/2022-23 |
| | <u>Correctional Services Department</u> | | | |
| 60 | Upgrade of Departmental Portal | 3.7 | Q1 | Q3/2020-21 |
| 61 | Integrated Intelligent Communication System at Lo Wu Correctional Institution | 7.5 | Q1 | Q2/2022-23 |
| 62 | Upgrade of e-Leave System | 1.1 | Q2 | Q1/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date^(Note)</u> | <u>Estimated completion date</u> |
|----|---|--------------------------------------|--|---|
| 63 | Development of Delivery System for Correctional Services Industries Products | 2.6 | Q2 | Q2/2021-22 |
| 64 | Development of Warehouse Management and Inventory Control System | 7.1 | Q3 | Q1/2022-23 |
| | <u>Customs and Excise Department</u> | | | |
| 65 | Enhancement of Websites of Dutiable Commodities System and Road Cargo System adopting Mobile-Friendly Design | 6.7 | Q1 | Q4/2020-21 |
| 66 | Enhancement of Currency and Bearer Negotiable Instruments Declaration System and Road Cargo System for Adoption of “iAM Smart” | 4.5 | Q1 | Q1/2021-22 |
| 67 | Upgrade of Hardware and Software for Case Processing System | 9.8 | Q1 | Q3/2021-22 |
| 68 | Revamp of Departmental Website | 6.4 | Q1 | Q4/2021-22 |
| 69 | Upgrade of Hardware and Software for Land Boundary System | 9.0 | Q2 | Q1/2023-24 |
| 70 | Upgrade of Hardware and Software for Money Service Operators Licensing System | 9.8 | Q3 | Q3/2021-22 |
| 71 | Upgrade of Network Infrastructure | 9.8 | Q3 | Q2/2022-23 |
| 72 | Provision of IT Facilities to Support Customs Control Operations at Intermodal Transfer Terminal of Hong Kong International Airport | 2.3 | Q4 | Q2/2022-23 |
| | <u>Department of Health</u> | | | |
| 73 | Implementation of Government Human Resources Management Services | 6.0 | Q1 | Q1/2021-22 |
| 74 | Development of Medical Device Information System | 7.4 | Q1 | Q3/2021-22 |
| 75 | Enhancement of Human Reproductive Technology Activities Information System | 8.5 | Q1 | Q4/2021-22 |
| 76 | Computerisation of Reprovisioned Fu Shan Public Mortuary | 8.6 | Q1 | Q4/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|----|---|--------------------------------------|---|---|
| 77 | Replacement of Hardware, Software and Network Equipment for Laboratory Information System, and Setting up of Bi-directional Laboratory Test Request Interface with Hospital Authority | 9.8 | Q1 | Q4/2021-22 |
| 78 | Implementation of Chinese Medicines Herbarium Repository Information System | 9.5 | Q1 | Q1/2022-23 |
| 79 | Revamp of Toothclub Website and Integrated Online Oral Health Resource and Information System | 8.2 | Q1 | Q2/2022-23 |
| 80 | Enhancement of Tobacco and Alcohol Control Office Information System | 9.8 | Q1 | Q3/2022-23 |
| 81 | Upgrade of e-Leave System | 2.9 | Q2 | Q1/2021-22 |
| 82 | IT Security Risk Assessment and Audit for Student Health Service Information System | 0.4 | Q3 | Q3/2021-22 |
| | <u>Development Bureau</u> | | | |
| 83 | Inventory Record System | 4.1 | Q1 | Q1/2021-22 |
| 84 | Development of Database System for Appeal Cases | 1.5 | Q1 | Q2/2021-22 |
| | <u>Drainage Services Department</u> | | | |
| 85 | Upgrade of Departmental Portal | 1.6 | Q1 | Q3/2020-21 |
| 86 | Upgrade of e-Leave System | 0.9 | Q1 | Q4/2020-21 |
| 87 | Revamp of Complaint Enquiry Record System | 1.3 | Q1 | Q4/2020-21 |
| 88 | Departmental Information Technology Plan Study | 6.9 | Q1 | Q2/2021-22 |
| 89 | Upgrade of Electronic Information Management System | 2.9 | Q1 | Q3/2021-22 |
| 90 | Revamp of Laboratory Information Management System | 8.8 | Q1 | Q4/2021-22 |
| 91 | Implementation of Mobile Site Inspection System | 9.5 | Q1 | Q1/2022-23 |
| 92 | Revamp of Automated Mapping / Facility Management System | 9.7 | Q1 | Q2/2022-23 |
| 93 | Replacement of Human Resources Management System and Training Administration System | 3.6 | Q2 | Q4/2021-22 |
| 94 | Implementation of Project Collaboration System – Document Management System and Pilot Workflow and e-Form Processing | 9.5 | Q3 | Q3/2022-23 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|-----|---|--------------------------------------|---|---|
| | <u>Education Bureau</u> | | | |
| 95 | Replacement of Network Equipment | 6.9 | Q1 | Q4/2020-21 |
| 96 | Upgrade of e-Platform for School Development and Accountability | 8.0 | Q1 | Q3/2021-22 |
| 97 | Revamp of Kindergarten Quality Review Information System | 9.1 | Q1 | Q2/2022-23 |
| 98 | Enhancement of User Interface for Web-based School Administration and Management System | 9.8 | Q1 | Q2/2022-23 |
| 99 | Upgrade of Virtualised Infrastructure for Servers | 9.3 | Q1 | Q3/2022-23 |
| 100 | Development of Online Application Function for Parents' Talks and Enhancement of e-Bulletin for Parents | 1.0 | Q2 | Q3/2021-22 |
| 101 | Revamp of Online Application System for School-based Support Services | 5.9 | Q2 | Q3/2021-22 |
| 102 | Data Exchange Management System | 9.6 | Q3 | Q1/2022-23 |
| | <u>Efficiency Office</u> | | | |
| 103 | Replacement of IT Infrastructure and System in 1823 | 5.4 | Q2 | Q1/2021-22 |
| 104 | Upgrade of Mission Critical Systems in 1823 | 8.8 | Q2 | Q2/2021-22 |
| 105 | Expansion of 1823 Chatbot and Extension to Tell me@1823 Mobile App | 7.8 | Q2 | Q3/2021-22 |
| | <u>Electrical & Mechanical Services Department</u> | | | |
| 106 | Revamp of Electricity Information Corner Website adopting Mobile-Friendly Design | 0.3 | Q1 | Q3/2020-21 |
| 107 | Revamp of Energy Saving Promotion Website adopting Mobile-Friendly Design | 0.7 | Q1 | Q3/2020-21 |
| 108 | Enhancement of Builders' Lifts Management System, Amusement Rides Management System, Government Forms and Related e-Form Platform for Adoption of "iAM Smart" | 9.4 | Q1 | Q2/2021-22 |
| 109 | Enhancement of Lifts and Escalators Ordinance System, e-Platform, Government Forms and Related e-Form Platform for Adoption of "iAM Smart" | 9.7 | Q1 | Q2/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|-----|---|--------------------------------------|---|---|
| 110 | Enhancement of Electricity Ordinance and Regulation System, Integrated Gas Safety Enforcement System, Government Forms and Related e-Form Platform for Adoption of ‘iAM Smart’ | 9.8 | Q1 | Q2/2021-22 |
| 111 | Enhancement of Data Management Systems for Buildings Energy Efficiency Ordinance and Mandatory Energy Efficiency Labelling Scheme, Government Forms and Related e-Form Platform for Adoption of ‘iAM Smart’ | 9.8 | Q1 | Q3/2021-22 |
| 112 | Enhancement of Electricity Ordinance and Regulation System for Inspection of Fixed Electrical Installations using Mobile Devices | 5.1 | Q3 | Q4/2021-22 |
| | <u>Environmental Protection Department</u> | | | |
| 113 | Upgrade of Departmental Portal | 4.7 | Q1 | Q1/2021-22 |
| 114 | Computer and Geographic Information System for Marine Environmental Control Centre | 3.5 | Q1 | Q2/2021-22 |
| 115 | Development of Enforcement Information System for Municipal Solid Waste Charging Scheme | 4.0 | Q1 | Q4/2021-22 |
| 116 | Smart Environmental Assessment System | 7.1 | Q2 | Q4/2022-23 |
| | <u>Financial Services and the Treasury Bureau</u> | | | |
| 117 | Enhancement of Websites of Secretary for Financial Service and the Treasury, Treasury Branch and Board of Review adopting Mobile-Friendly Design | 0.5 | Q1 | Q3/2020-21 |
| 118 | Upgrade of Departmental Portal | 1.1 | Q1 | Q3/2020-21 |
| | <u>Fire Services Department</u> | | | |
| 119 | Upgrade of Departmental Portal | 3.3 | Q1 | Q1/2021-22 |
| 120 | Setting up of Departmental Knowledge Management Platform in handling of Major Incidents | 6.4 | Q1 | Q3/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date^(Note)</u> | <u>Estimated completion date</u> |
|---|--|--------------------------------------|--|---|
| 121 | Building Improvement Database and File Management System for Prescribed Commercial Premises, Specified Commercial Buildings and Target Composite Buildings | 5.3 | Q3 | Q3/2021-22 |
| 122 | Upgrade of Departmental Real-time Video Transmission System | 5.7 | Q3 | Q3/2021-22 |
| 123 | Upgrade of IT Infrastructure and Provision of Resilience Capability for Office Automation System | 9.8 | Q3 | Q1/2022-23 |
| <u>Food and Environmental Hygiene Department</u> | | | | |
| 124 | Development of Departmental Data Analytics Platform | 9.0 | Q1 | Q4/2020-21 |
| 125 | Development of Works Order Management System | 5.5 | Q1 | Q2/2021-22 |
| 126 | Revamp of Food Surveillance System | 9.5 | Q1 | Q4/2021-22 |
| 127 | Upgrade of Departmental Portal | 3.5 | Q2 | Q3/2021-22 |
| 128 | Development of Licensing Enforcement Functions in Licensing Management Information System | 9.8 | Q2 | Q2/2022-23 |
| <u>Government Flying Service</u> | | | | |
| 129 | Upgrade of Departmental Portal | 1.3 | Q1 | Q4/2020-21 |
| 130 | Upgrade of Patch Management System and Software Asset Management System | 1.1 | Q1 | Q2/2021-22 |
| 131 | Implementation of Standby Environment for Government Flying Service Integrated Application System at Secondary Site in Kai Tak Division | 5.0 | Q1 | Q4/2021-22 |
| 132 | Replacement of Network Equipment | 1.0 | Q2 | Q3/2021-22 |
| <u>Government Laboratory</u> | | | | |
| 133 | Parentage Testing System | 6.5 | Q1 | Q1/2022-23 |
| 134 | Upgrade of Functional Laboratory Information Management System | 4.8 | Q1 | Q2/2022-23 |
| 135 | Toxicology System | 7.9 | Q1 | Q4/2022-23 |
| 136 | Upgrade of e-Leave System | 2.7 | Q2 | Q1/2021-22 |
| 137 | IT Security Risk Assessment and Audit | 1.5 | Q3 | Q3/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|-----|---|--------------------------------------|---|---|
| | <u>Government Logistics Department</u> | | | |
| 138 | Strengthening of IT Security and IT Security Risk Assessment and Audit | 4.3 | Q1 | Q4/2021-22 |
| 139 | e-Business Study and Information Systems Strategy Study | 6.6 | Q1 | Q2/2022-23 |
| | <u>Government Property Agency</u> | | | |
| 140 | Revamp of Departmental Website | 0.9 | Q1 | Q3/2020-21 |
| 141 | Upgrade of e-Leave System | 0.9 | Q1 | Q3/2020-21 |
| | <u>Home Affairs Bureau</u> | | | |
| 142 | Upgrade of Operating System and Office Automation Facilities | 9.5 | Q1 | Q3/2020-21 |
| 143 | Upgrade of e-Leave System and Development of e-Bulletin Board/Document Repository | 2.9 | Q1 | Q4/2020-21 |
| 144 | Development of Sports Programme Information System for Lessees of Private Recreational Leases | 2.9 | Q1 | Q2/2021-22 |
| | <u>Home Affairs Department</u> | | | |
| 145 | Upgrade of e-Leave System | 1.1 | Q1 | Q3/2020-21 |
| 146 | Upgrade of Departmental Portal | 3.3 | Q1 | Q3/2020-21 |
| 147 | Revamp of Departmental Websites with Mobile-Friendly Design | 3.9 | Q1 | Q1/2021-22 |
| 148 | Enhancement of Government Forms for Adoption of “iAM Smart” and e-Submission | 4.3 | Q1 | Q1/2021-22 |
| 149 | Implementation of Government Human Resources Management Services | 2.4 | Q2 | Q1/2021-22 |
| | <u>Hong Kong Observatory</u> | | | |
| 150 | Upgrade of e-Leave System | 0.8 | Q1 | Q4/2020-21 |
| 151 | Upgrade of Departmental Portal | 2.1 | Q1 | Q4/2020-21 |
| 152 | Replacement of Video Conferencing System | 5.8 | Q1 | Q2/2021-22 |
| 153 | Upgrade of Infrastructure of Computer Equipment Rooms | 6.7 | Q1 | Q3/2021-22 |
| 154 | Upgrade and Consolidation of Central Data Storage System | 8.8 | Q1 | Q3/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|-----|--|--------------------------------------|---|---|
| 155 | Enhancement of Resilience Capability of Mission Critical Systems | 9.1 | Q1 | Q3/2021-22 |
| 156 | Emergency Communication Computer System for Monitoring and Assessment Centre | 2.5 | Q1 | Q4/2021-22 |
| 157 | Enhancement of Lightning Location Information Services | 9.8 | Q1 | Q4/2021-22 |
| | <u>Hong Kong Police Force</u> | | | |
| 158 | Information and Communications Technology Systems Strategy Review | 9.8 | Q1 | Q3/2021-22 |
| 159 | Electronic Stop Payment System for Anti-Deception Coordination Centre | 8.5 | Q1 | Q4/2021-22 |
| 160 | Integrated Platform for Information Release to the Media | 8.6 | Q1 | Q4/2021-22 |
| | <u>Housing Department</u> | | | |
| 161 | Migration of Mandatory Inspection Management System to Housing Authority Cloud Platform | 3.0 | Q1 | Q2/2021-22 |
| 162 | Revamp of Minor Works Management System | 3.9 | Q1 | Q4/2021-22 |
| | <u>Immigration Department</u> | | | |
| 163 | Upgrade of e-Leave System | 5.3 | Q1 | Q2/2021-22 |
| 164 | Provision of IT Facilities for Intermodal Transfer Terminal of Hong Kong International Airport | 7.3 | Q1 | Q3/2022-23 |
| | <u>Independent Commission Against Corruption</u> | | | |
| 165 | Strengthening of IT Security for Operations Department Information System | 1.1 | Q1 | Q4/2020-21 |
| | <u>Information Services Department</u> | | | |
| 166 | Revamp of Incidents Record System | 4.8 | Q2 | Q1/2021-22 |
| 167 | Development of Knowledge Management System | 6.8 | Q4 | Q3/2021-22 |
| | <u>Inland Revenue Department</u> | | | |
| 168 | Replacement of Cut-sheet Printer in Disaster Recovery Centre | 2.0 | Q2 | Q1/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
|-----|--|--------------------------------------|---|---|
| 169 | IT Security Risk Assessment and Audit | 0.7 | Q3 | Q3/2021-22 |
| | <u>Innovation and Technology Commission</u> | | | |
| 170 | Upgrade of Departmental Portal | 3.1 | Q1 | Q4/2020-21 |
| 171 | IT Infrastructure for Application and Assessment of Designated Local Research Institutions | 6.5 | Q1 | Q4/2021-22 |
| | <u>Intellectual Property Department</u> | | | |
| 172 | Upgrade of e-Leave System | 0.8 | Q1 | Q3/2020-21 |
| 173 | Revamp of Departmental Websites | 4.7 | Q1 | Q3/2020-21 |
| 174 | Madrid Protocol IT System | 9.8 | Q1 | Q3/2022-23 |
| 175 | Replacement of Network and IT Infrastructure Equipment | 2.3 | Q3 | Q1/2021-22 |
| | <u>Invest Hong Kong</u> | | | |
| 176 | Upgrade of Departmental Portal | 1.9 | Q1 | Q3/2020-21 |
| 177 | Upgrade of e-Leave System and Development of Non-Civil Service Contract Staff Leave Recording and Calculation System | 3.3 | Q1 | Q2/2021-22 |
| | <u>Judiciary</u> | | | |
| 178 | Enhancement of Network Resilience Support for Audio and Video Systems of High Court | 8.4 | Q1 | Q2/2022-23 |
| 179 | Digitisation of Sound Processors of Audio System in Courts | 9.4 | Q1 | Q4/2022-23 |
| 180 | Replacement of Obsolete Audio-Visual Presentation System in Courts | 9.4 | Q1 | Q4/2022-23 |
| | <u>Labour Department</u> | | | |
| 181 | Combined Feasibility Study cum Business Process Re-engineering Study for Revamp of Employees' Compensation Computer System | 6.3 | Q1 | Q3/2021-22 |
| 182 | Replacement of Departmental IT Infrastructure to Support Labour Relations Division and Youth Employment Start Centres | 4.4 | Q2 | Q4/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
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| 183 | Upgrade of IT Security Infrastructure and Strengthening Cyber Threat Protection | 9.7 | Q2 | Q1/2022-23 |
| 184 | Implementation of Government Human Resources Management Services | 3.6 | Q4 | Q3/2021-22 |
| <u>Lands Department</u> | | | | |
| 185 | Implementation of Chatbot Service on “GeoInfo Map” Website | 5.0 | Q1 | Q4/2020-21 |
| 186 | Upgrade of Departmental Portal | 4.7 | Q1 | Q1/2021-22 |
| 187 | Strengthening of IT Security Infrastructure and IT Security Risk Assessment and Audit | 7.9 | Q1 | Q2/2021-22 |
| 188 | Implementation of Wi-Fi System and Paperless Meeting Facilities | 8.0 | Q1 | Q2/2021-22 |
| 189 | Implementation of Unified Communications Facilities | 8.0 | Q1 | Q2/2021-22 |
| 190 | Redevelopment of Departmental Website | 9.1 | Q1 | Q2/2021-22 |
| 191 | Provision of IT Facilities for New Operating Offices and Migration of IT Systems to Departmental Data Centre | 9.5 | Q1 | Q2/2021-22 |
| 192 | Setting up of Web-based GIS System for Centralised Complaint Handling | 9.8 | Q1 | Q2/2021-22 |
| 193 | Smart Positioning Infrastructure Management System | 2.2 | Q1 | Q3/2021-22 |
| 194 | Web-based Application Platform for Temporary Occupation of Government Land | 8.8 | Q1 | Q3/2021-22 |
| 195 | Upgrade of Backbone Network and Virtual Private Network | 7.9 | Q1 | Q4/2021-22 |
| 196 | Development of Mobile Solution for Facilitating Monitoring and Patrolling Squatter Structures | 8.4 | Q1 | Q1/2022-23 |
| 197 | Strengthening IT Security on Mobile Device | 9.8 | Q1 | Q3/2022-23 |
| 198 | Upgrade of Operating System and Database of Point-of-Sale Management and Support System and Map Information Management and Support System | 9.4 | Q3 | Q2/2022-23 |
| <u>Legal Aid Department</u> | | | | |
| 199 | Upgrade of Departmental Portal | 3.2 | Q1 | Q3/2020-21 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date^(Note)</u> | <u>Estimated completion date</u> |
|--|---|--------------------------------------|--|---|
| 200 | Upgrade of Scanning Software and Server | 2.1 | Q1 | Q4/2020-21 |
| 201 | Enhancement of Legal Aid Electronic Services Portal for Adoption of “iAM Smart” | 2.9 | Q1 | Q2/2021-22 |
| <u>Leisure and Cultural Services Department</u> | | | | |
| 202 | e-Submission using “iAM Smart” for Places of Amusement Licence Forms | 1.9 | Q1 | Q4/2020-21 |
| 203 | Enhancement of Music Office Integrated System and Adoption of “iAM Smart” | 5.6 | Q1 | Q4/2021-22 |
| 204 | Implementation of Performing Arts Web Portal | 9.4 | Q1 | Q1/2022-23 |
| 205 | Upgrade of e-Leave System and Internal Leave Systems | 5.6 | Q1 | Q2/2022-23 |
| 206 | Enhancement of e-Magazine System and Adoption of “iAM SMART” | 9.6 | Q1 | Q2/2022-23 |
| 207 | Establishment of Repository of Site/Venue Plans | 4.0 | Q2 | Q4/2021-22 |
| 208 | IT Security Risk Assessment and Audit | 2.4 | Q3 | Q2/2022-23 |
| 209 | Implementation of Core Network Infrastructure in the New Government Data Centre Complex | 9.8 | Q3 | Q3/2022-23 |
| 210 | Revamp of Departmental Websites with Mobile-Friendly Design | 9.6 | Q3 | Q4/2022-23 |
| <u>Marine Department</u> | | | | |
| 211 | Upgrade of e-Leave System | 0.5 | Q1 | Q4/2020-21 |
| 212 | Upgrade of Departmental Portal | 0.7 | Q1 | Q1/2021-22 |
| 213 | Development of Berthing Information System | 8.2 | Q1 | Q2/2021-22 |
| 214 | Enhancement of Mobile Application “eSeaGo” (Version 2.0) | 5.7 | Q1 | Q1/2022-23 |
| <u>Office of the Government Chief Information Officer</u> | | | | |
| 215 | Enhancement of External Procurement Portal of e-Procurement Service for Adoption of “iAM Smart” | 1.8 | Q1 | Q3/2020-21 |
| 216 | Upgrade of Departmental Portal | 1.5 | Q1 | Q4/2020-21 |
| 217 | Upgrade of Quality Professional Services Information System | 2.0 | Q1 | Q2/2021-22 |
| 218 | Upgrade of Obsolete Equipment of Mobile Confidential Mail Service | 8.6 | Q1 | Q2/2022-23 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
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| 219 | Development of Smart Workspace and Upgrade of e-Helpdesk System | 8.5 | Q1 | Q4/2023-24 |
| 220 | Migration of Electronic Information Management Systems to Next Generation Government Cloud Infrastructure Services | 9.4 | Q2 | Q1/2021-22 |
| 221 | Upgrade of Common Shared Questions and Answers System for Examination of Government's Annual Estimates and e-File Generation Web-based Sub-system | 9.8 | Q2 | Q4/2021-22 |
| 222 | Enhancement of System Capacity for Internet Access Service | 9.5 | Q2 | Q2/2022-23 |
| 223 | Establishment of Service Infrastructure in the New Government Data Centre Complex for Web Content Hosting Service, Domain Name Hosting Service and Government Directory Service | 6.6 | Q2 | Q3/2022-23 |
| 224 | Enhancement of System Capacity for Internet Bandwidth Service | 9.7 | Q2 | Q3/2022-23 |
| | <u>Official Receiver's Office</u> | | | |
| 225 | Upgrade of e-Leave System | 0.7 | Q1 | Q2/2020-21 |
| | <u>Planning Department</u> | | | |
| 226 | Upgrade of e-Leave System | 1.1 | Q2 | Q4/2020-21 |
| 227 | Feasibility Study on Implementation of Electronic Submission and Processing System for Town Planning Board | 9.0 | Q2 | Q3/2021-22 |
| 228 | Strengthening of IT Security and IT Security Risk Assessment and Audit | 2.2 | Q2 | Q2/2022-23 |
| 229 | Revamp of Statutory Planning Portal 2 | 9.5 | Q3 | Q1/2023-24 |
| 230 | Revamp of Town Planning Board Website | 8.0 | Q4 | Q1/2023-24 |
| | <u>Radio Television Hong Kong</u> | | | |
| 231 | IT Security Risk Assessment and Audit | 0.4 | Q1 | Q3/2020-21 |
| 232 | Upgrade of Departmental Portal | 1.4 | Q1 | Q3/2020-21 |
| 233 | Upgrade of e-Leave System | 0.6 | Q2 | Q3/2020-21 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date</u> ^(Note) | <u>Estimated completion date</u> |
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| | <u>Rating and Valuation Department</u> | | | |
| 234 | Upgrade of Backend System of Electronic Billing for Rates and Government Rent | 7.9 | Q2 | Q2/2021-22 |
| 235 | Enhancement of Integrated Property Database to Support More Valuation Modules | 9.8 | Q2 | Q1/2023-24 |
| 236 | Upgrade of Workflow Management System | 7.1 | Q3 | Q3/2021-22 |
| | <u>Registration and Electoral Office</u> | | | |
| 237 | Revamp of Departmental Website adopting Mobile-Friendly Design | 5.0 | Q1 | Q1/2021-22 |
| 238 | Enhancement of e-Services Systems for Adoption of “iAM Smart” | 4.1 | Q2 | Q1/2021-22 |
| 239 | IT Security Risk Assessment and Audit | 0.8 | Q3 | Q2/2021-22 |
| | <u>Security Bureau</u> | | | |
| 240 | Enhancement of Licence Database of Security and Guarding Services Industry Authority Secretariat and Development of Web Forms for Security Company Licence Applications with Adoption of “iAM Smart” | 0.9 | Q1 | Q1/2021-22 |
| 241 | Upgrade of Obsolete Software and Service Resilience of IT Systems | 4.8 | Q1 | Q3/2021-22 |
| 242 | IT Security Risk Assessment and Audit | 0.7 | Q2 | Q3/2021-22 |
| | <u>Social Welfare Department</u> | | | |
| 243 | Upgrade of Server Infrastructure for Computerised Social Security System II | 9.8 | Q1 | Q4/2021-22 |
| 244 | Enhancement of IT systems for Care Service Vouchers for Elderly (including Community Care Service Voucher and Residential Care Service Voucher for Elderly) | 9.8 | Q1 | Q1/2023-24 |
| 245 | Upgrade of e-Leave System | 1.0 | Q2 | Q1/2021-22 |
| 246 | Development of System for Service Delivery for Elderly Persons with Mild Impairment | 6.1 | Q2 | Q3/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date^(Note)</u> | <u>Estimated completion date</u> |
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| | <u>The Treasury</u> | | | |
| 247 | Technology Refresh for Network Devices | 7.4 | Q1 | Q3/2020-21 |
| 248 | Technology Refresh for Databases for e-Estimate Preparation System and Government Miscellaneous Receipt System | 4.0 | Q1 | Q1/2021-22 |
| 249 | Technology Refresh for Data Analytics Tool for Payroll System, Pension Management System and Other Benefits Related Systems | 7.6 | Q1 | Q1/2021-22 |
| 250 | Enhancement of Government-wide Application and Infrastructure Service Development Platform for Mission Critical Systems including Payroll System, Pension Management System and Medical and Dental Benefits Eligibility Checking System | 8.8 | Q1 | Q3/2021-22 |
| 251 | Implementation of e-Portal for Civil Servants | 8.9 | Q1 | Q4/2021-22 |
| 252 | Technology Refresh for Virtualised Infrastructure for Mission Critical Systems including General Demand Note System and Other Systems | 9.8 | Q1 | Q3/2022-23 |
| 253 | Enhancement of System Resilience of Office Automation Facilities | 8.8 | Q4 | Q3/2022-23 |
| 254 | Provision of IT and Network Facilities in Treasury Building | 9.8 | Q4 | Q3/2022-23 |
| 255 | Implementation of IT Infrastructure in the New Government Data Centre Complex | 9.8 | Q4 | Q3/2022-23 |
| | <u>Transport Department</u> | | | |
| 256 | Enhancement of Vehicles and Drivers Licensing Integrated Data V System to support Faster Payment System | 4.3 | Q1 | Q2/2020-21 |
| 257 | Establishment of Disaster Recovery Site/Secondary Server Room at Tsing Yi Vehicle Examination Centre | 6.8 | Q1 | Q4/2020-21 |
| 258 | Enhancement of e-Services Systems for Vehicle Licensing, Driving Test and Permit Application for Adoption of “iAM Smart” | 7.3 | Q1 | Q1/2021-22 |
| 259 | Upgrade of e-Leave System | 1.0 | Q3 | Q3/2021-22 |

| | <u>Project title</u> | <u>Project estimate (\$M)</u> | <u>Estimated starting date^(Note)</u> | <u>Estimated completion date</u> |
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| 260 | Information Systems Strategy Study | 5.9 | Q3 | Q1/2022-23 |
| | <u>Water Supplies Department</u> | | | |
| 261 | Upgrade of e-Leave System | 1.4 | Q1 | Q1/2021-22 |
| 262 | Pilot Use of Voicebot/Chatbot to Handle Change of Consumership Application in Telephone Hotline and Departmental Website | 9.4 | Q1 | Q3/2021-22 |
| | <u>Working Family and Student Financial Assistance Agency</u> | | | |
| 263 | Upgrade of e-Leave System | 0.6 | Q2 | Q1/2021-22 |
| 264 | Enhancement of e-Submission Service for Working Family Allowance and Individual-based Work Incentive Transport Subsidy Applications | 7.7 | Q2 | Q2/2021-22 |
| 265 | IT Security Risk Assessment and Audit (Student Finance Office) | 0.8 | Q2 | Q3/2021-22 |
| 266 | Migration of Technical Infrastructure of IT Systems to Next Generation Government Cloud Infrastructure Services | 4.2 | Q3 | Q1/2021-22 |
| 267 | Replacement of Hardware and Software of e-Submission System | 3.6 | Q3 | Q4/2021-22 |