



香港房屋委員會  
Hong Kong Housing Authority

CB(1) 1527/10-11(02)

# Legislative Council Panel on Housing

## Implementation of Product Certification of Construction Materials in the Hong Kong Housing Authority's Projects

Construction Product Certification



### Hong Kong Housing Authority's (HA's) Commitment

- To produce **average 15,000 flats** annually, hence the HA procures a **considerable** amount of construction **services** and **products**.
- To strive to drive **quality assurance** throughout the **entire supply chain**. Instead of solely relying on the **test certificates** provided by the suppliers and/or **surveillance checks** upon material delivery to sites, HA initiates to launch **product certification**.



### What is Product Certification?

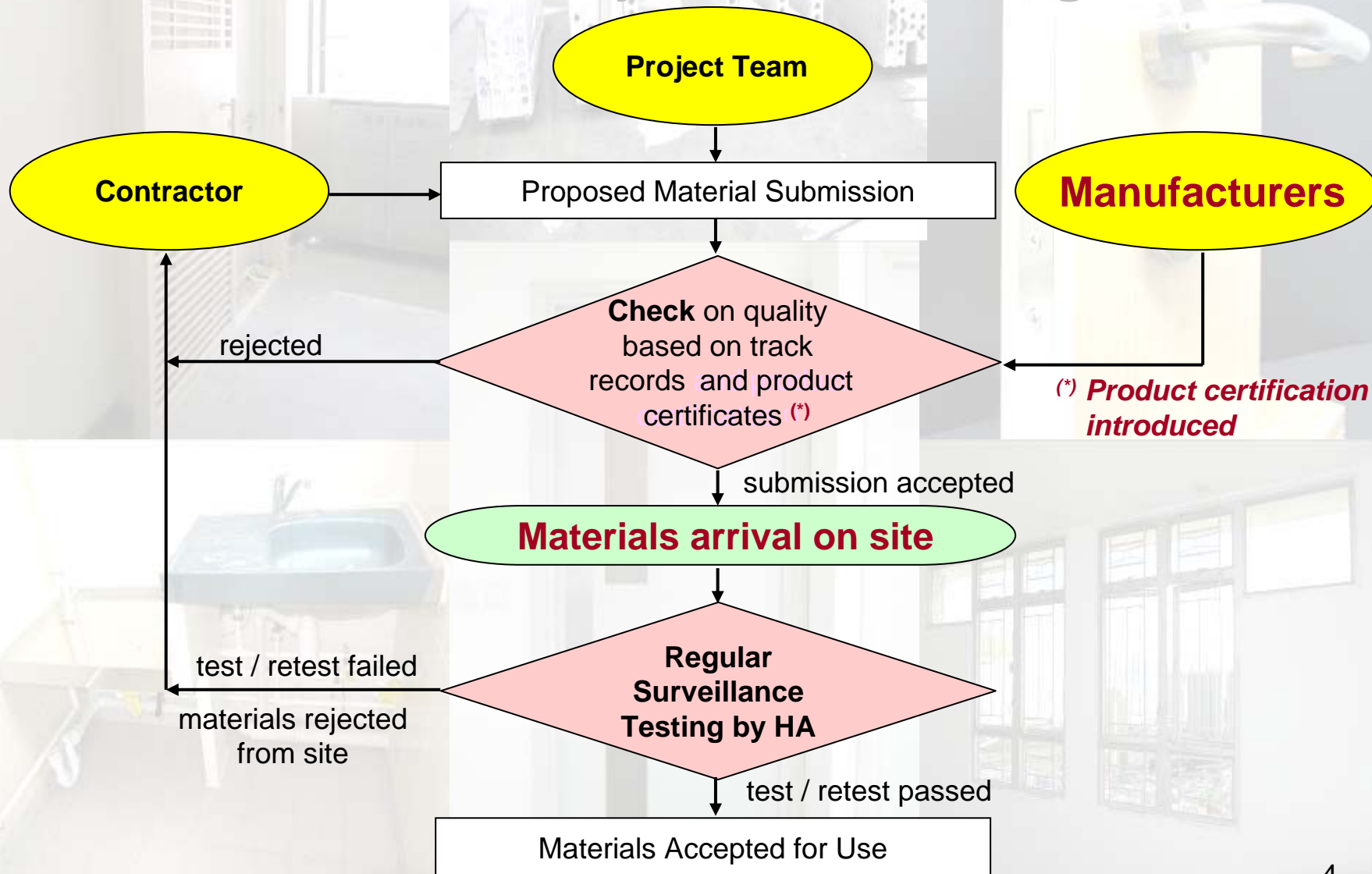
It's an upstream control of supply chain

- Product Certification is the **process** whereby a product is **certified** to have achieved **prescribed standards** and quality requirements, through **regular factory surveillance** and periodic random **sampling and testing** of products by **third party of accredited certification body.**



# Construction Product Certification

## Its Function in Quality Assurance Regime





### Benefits of Product Certification

- **Product Certification Mark** to enhance product reliability as well as manufacturer's capability
- Protecting the **interest of consumers** and **procuring entities** for the benefit of society as a whole
- **Added confidence** and assurance on product quality
- Promoting industrial quality through **upstream control** of the supply chain



### “Tested in Hong Kong; Certified in Hong Kong”

- **Testing and Certification Services** is one of the **six pillar industries** propelling Hong Kong towards a knowledge based economy.
- Hong Kong Council for Testing and Certification (HKCTC) appointed in Sept 2009 to formulate market-oriented development plan for testing and certification industry
- **Four trades** selected in the development plan
  1. Chinese Medicine
  2. **Construction Materials**
  3. Food
  4. Jewellery



### HA's Earliest Product Certification

#### Quality Scheme for the Production and Supply of Concrete (QSPSC)

- Jointly developed by the HA and the Hong Kong Quality Assurance Agency (HKQAA) in **1991** for **ready mix concrete**
- Subsequently specified in HA's contracts on top of in-situ quality control and testing regime
- QSPSC was later **widely accepted** by the industry and became a policy requirement by **Development Bureau** for all public works, and a regulatory requirement by **Buildings Department** for private sector's construction projects

## Promoting quality assurance through upstream control, HA is in Support of Product Certification

- Hong Kong Housing Authority (HA) spearheads implementation of product certification in its construction projects in stages in **2010/2011** for **seven major building materials** mainly manufactured in mainland China :

Implementation	Materials	Tender out date
Stage 1	<ol style="list-style-type: none"> <li>1. Fire-rated timber doors</li> <li>2. Panel Wall Partitions</li> </ol>	1/5/2010
Stage 2	<ol style="list-style-type: none"> <li>3. Cement Products (for architectural use)</li> <li>4. Tile Adhesives</li> </ol>	1/8/2010
Stage 3	<ol style="list-style-type: none"> <li>5. Ceramic Tiles</li> <li>6. Repair Mortars</li> </ol>	1/12/2010
Stage 4	<ol style="list-style-type: none"> <li>7. Aluminium Windows and 4-Bar Hinges Assembly</li> </ol>	Mid-2011

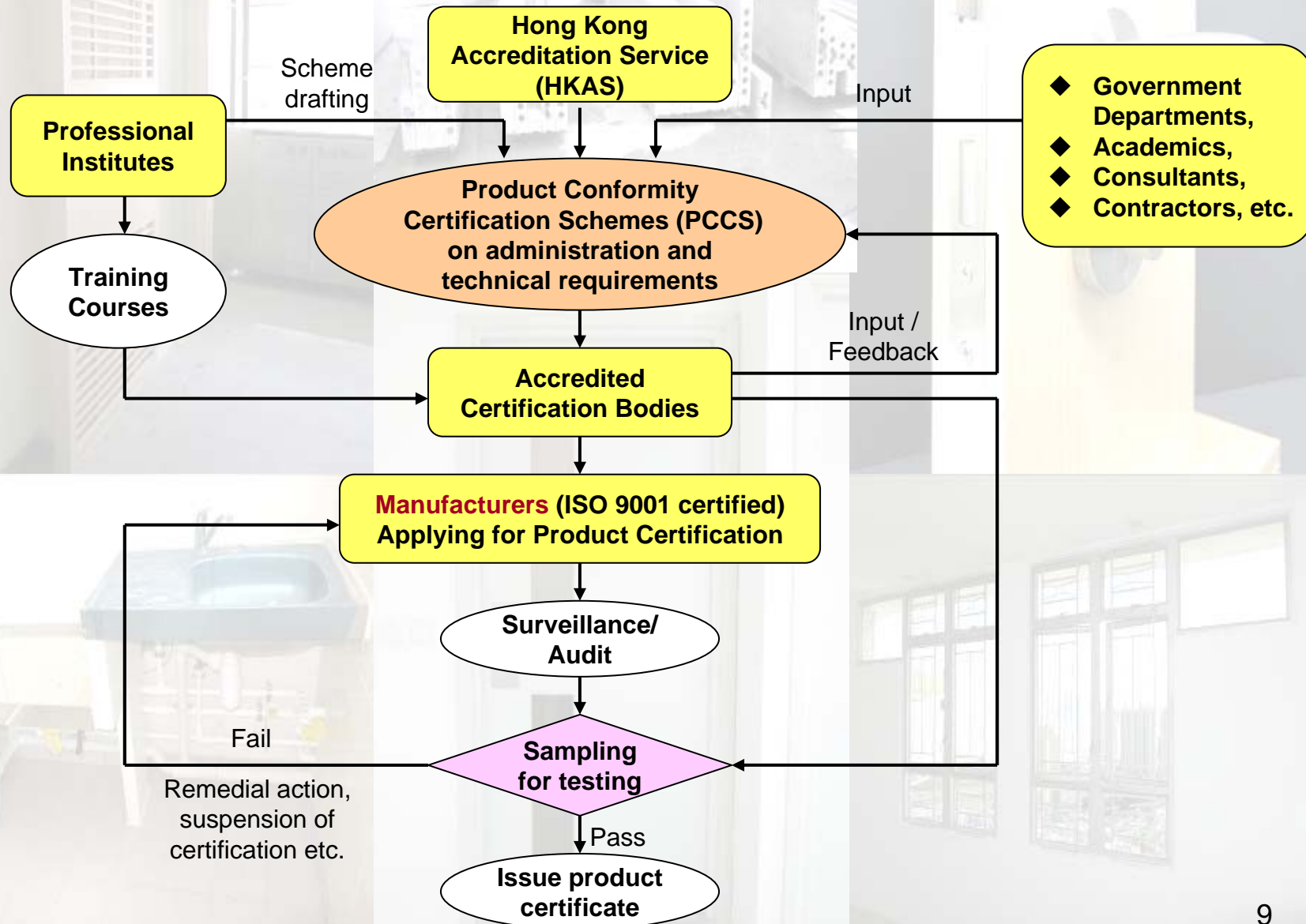






# Construction Product Certification

## Product Certification Processes

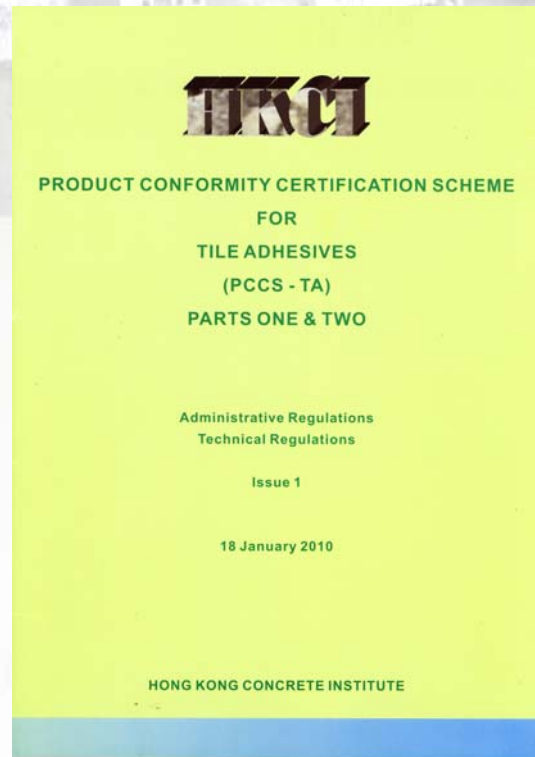




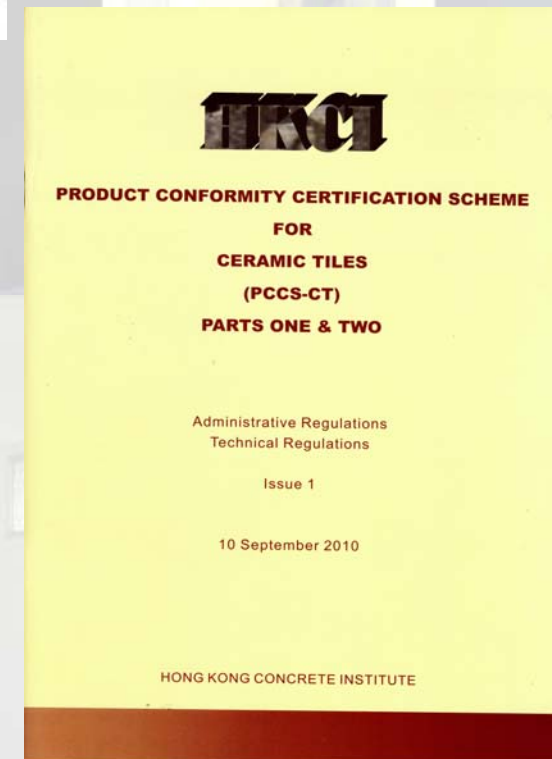
## Product Conformity Certification Scheme



For Repair Mortars



For Tile Adhesives



For Ceramic Tiles



# Timber Door Production Process



(1) Raw Timber before Seasoning



(2) Saw-Milling and Shape-scrubbing



(3) Solid Core Assembly



(4) Sanding



# Timber Door Production Process



**(5) Core Assembly Completed**



**(6) Applying Plywood Boards**



**(7) Multi-layer Paint Coating**

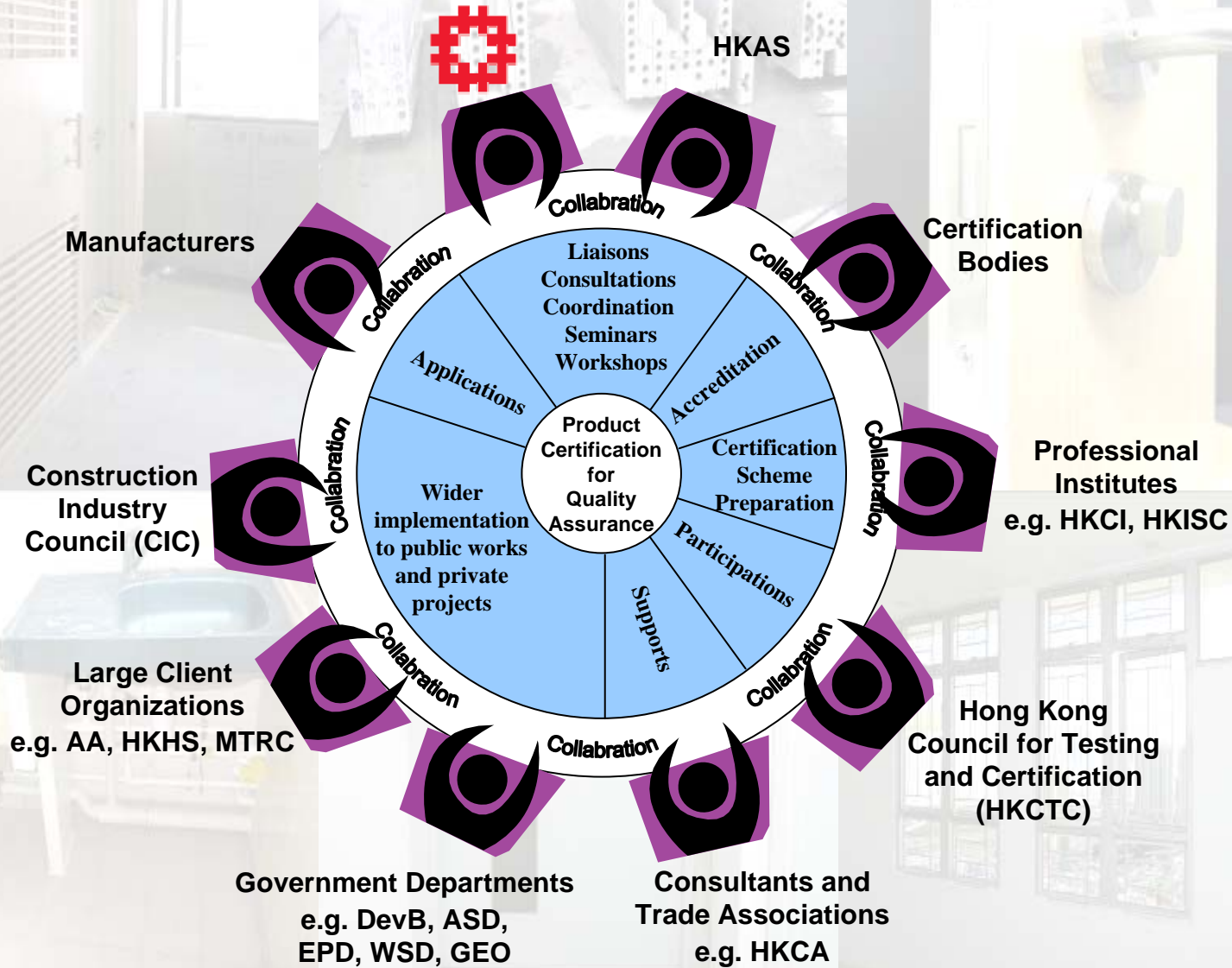


**(8) Finished Product of Timber Doors**



# Construction Product Certification

## Way Forward - Continuous Collaboration with Stakeholders at all Fronts





**Thank You**