



## R & D Initiatives and Extension Services

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## Background

- Innovation and Technology Fund started in Nov 1999
- Government's adoption of new strategy
- Textiles and Apparel selected as a focus area
- PolyU to host R&D centre



- PolyU is the major provider of academic training and the principal research organisation for textiles and clothing in Hong Kong.
- The Institute of Textiles and Clothing has been internationally recognised as one of three world class research centres.

## Vision and Mission

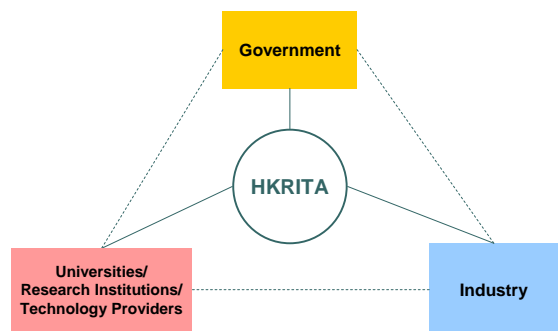
### ■ Vision

- To be a world renowned leading Centre of Excellence in Textiles and Apparel research

### ■ Mission

- To be a Hong Kong based level R&D Centre
- Enhance the economic development in HKSAR through this concerted and focused R&D effort
- Support the continual development of technologies for the textiles and apparel industry
- Develop and transfer technologies for the benefits of HK companies
- Leverage the collective R&D capabilities of HK Universities' Mainland Institutions and overseas Universities to strengthen the capability of the HK's textiles and apparel industry

## Stakeholders

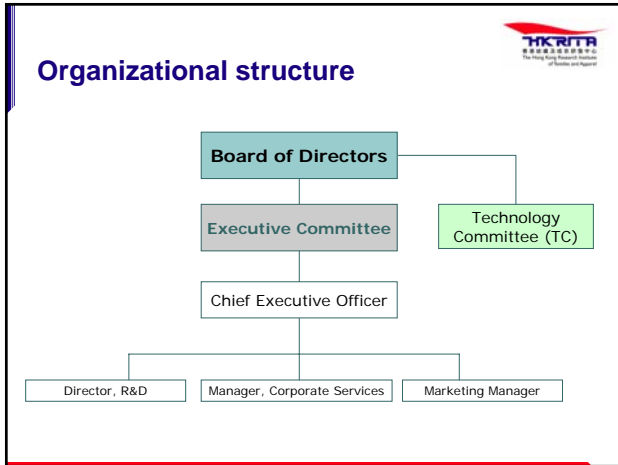


## Funding

- Total funding approved from ITF:  
HK\$60.25m + HK\$214.75m = HK\$275m  
(administration cost) (R&D projects)
- Indicative industry contribution for R&D projects:  
HK\$114.5m
- Projected income generated from projects and other activities: HK\$30.75m

## Logo





## HKRITA Membership

- Corporate Member – HK\$1,000 per annum
- Affiliate Member - HK\$1,000 per annum
- Institution Member – Free

### Benefits

- ✓ Access to basic project information being carried out by HKRITA
- ✓ Unlimited access to the R & D Resource Database which covers information on:
  - worldwide network of research institutes and academic institutions
  - researchers and consultants
  - research deliverables
  - publications
- ✓ Updated news on emerging technology and industry trends
- ✓ For members who are project sponsors, they will have access to the information proprietary to the particular projects.
- ✓ Free participation in the technical seminars and activities to be organized by HKRITA.
- ✓ Regularly receive latest news of HKRITA activities and events for circulation
- ✓ A listing on HKRITA website with hyperlink to the association's website (Affiliate member only)
- ✓ Joint networking activities with HKRITA (Affiliate member only)

## Research Focus Areas

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1. New materials and textile & apparel products
2. Advanced textile and clothing production technologies
3. Innovative design and evaluation technologies
4. Enhanced industrial systems and infrastructure

## 1st Tranche of application - Approved Projects

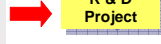
Project Ref.	Project Title
RD/PR/001/06	Biofunctional Material and Application
RD/PR/002/06	Advanced Clothing Functional Design CAD Technologies
RD/PR/003/06	Development of an Innovative Finishing System for Wet Processing of Garments and Accessories
RD/PR/007/06	Advanced Textile and Garment Manufacturing Process Technology
RD/PR/008/06	Development of a Laboratory-Scale Electrochemical Mercerization and Bleaching System for Technological Evaluation
RD/PR/011/06	Finer Nu-Torque Cotton Yarn Production
RD/PR/012/06	Development of Fabric Structure Analysis and Appearance Evaluation System
RD/PR/013/06	Advanced Functional Surface Treatment Technology for Textile Materials
RD/PR/014/06	Imaging Colour Measurement (ICM) System for Textile and Garment Industry
RD/PR/015/06	Development of Shape Memory Knitted Fabrics/Garments

## Extension Services

## Extension Services

- Technical Consultancy Service
- Project Matching Service
- R & D Courses/Seminars

## Technical Consultancy Service



Industry partner  
having technical  
problems

Finding the  
right  
research  
partner

Research  
Institution

Problem  
solving

## Technical Consultancy

### Problem Solving

- Material issues
- T & C Production issues
- Product/process/service design and development issues
- Quality/performance evaluation issues
- Green T & C production issues

## Technical Consultancy

### Technology Upgrading

- New materials and textiles and apparel products
- Advanced textiles and clothing production technologies
- Innovative design and evaluation technologies
- Enhanced industrial systems and infrastructure
- Others

## Technical Consultancy

### New Product/Process/Service Development

- New product development
- New process development
- New service development, e.g. body measurement, garment fit

## Technical Consultancy



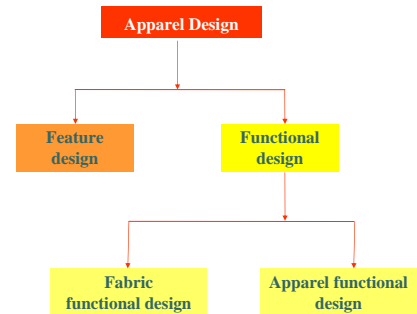
### Brand Development

- For manufacturers' brand or distributors' brand
- Functional design support
- Product quality improvement
- Technology relating to functional design and product quality

## Technical Consultancy



Brand Development in relation to **Design, Quality and Technology**



## Technical Consultancy



### Establishment of in-house R & D Operations

- In-house R & D personnel training
- Establishment of R & D laboratory

## Project Matching Service



## Project Matching Service



### Conversion of Researcher-led to Market-led Project

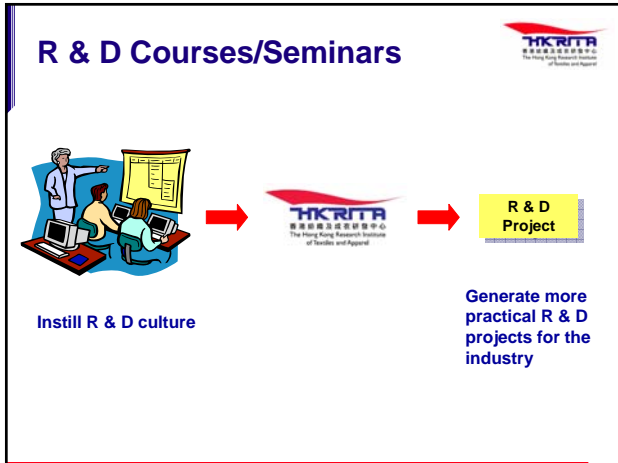
- New project idea generation
- Technical feasibility in solving practical problems
- Identifying interested industry partners

## Project Matching Service



### Industry Partnership

- Focal point for interested industry partners
- 'Push' force from industry to convert the research-led to market-led project



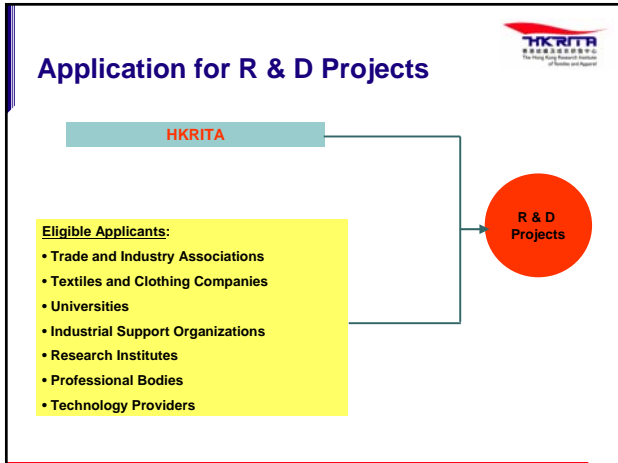
- ## R & D Courses / Seminars
- ### Textiles and Clothing Technology
- Principle of textiles and clothing technology
  - Technologies relating to R & D projects being conducted by HKRITA
  - Technologies relating to problem solving for the industry
  - Introduction to new/advanced textiles and clothing technologies

- ## R & D Courses / Seminars
- ### Project Management
- Market demand identification
  - Project selection/proposal preparation
  - Project team development
  - Project budgeting
  - Project planning and control
  - Project commercialization
  - Post project evaluation

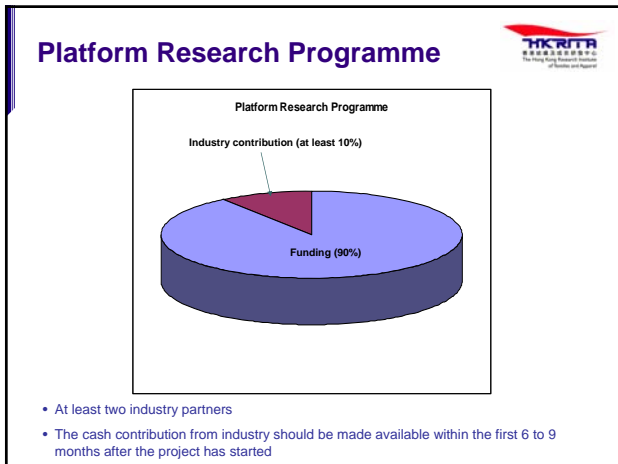
- ## R & D Courses / Seminars
- ### Technology Management
- Technology management strategies
  - Technology valuation
  - Intellectual property
  - Licensing strategies
  - Technology marketing
  - Technology forecasting

## R & D Programmes

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- ## Merits of New R & D Programmes of HKRITA
- Market/industry-driven
  - Identified technology focus areas
  - Greater industry participation
  - Better collaboration among various research institutes
  - Industry partners can enjoy commercial benefits from successful projects



- ## Types of R & D Programmes
1. Platform Research Programme
  2. Collaborative Research Programme
    - Collaborative Research with Industry
    - Collaborative Research with Research/Technology Partners
  3. Contract Research Programme



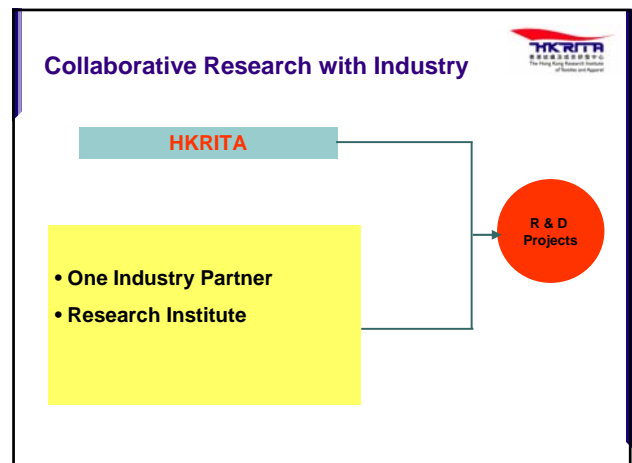
- ## Platform Research Programme
- The license fee payable should be decided by the Board of HKRITA when the project is nearing completion;
  - Subject to a specific level of contribution, industry partners should be given a discount or be eligible to share benefits from commercialization of the project; and
  - Other companies that seek non-exclusive licenses, after the completion of the project, should be charged a higher licensing fee.

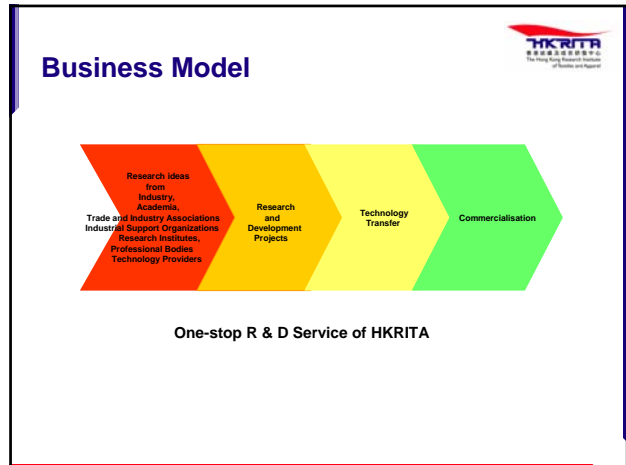
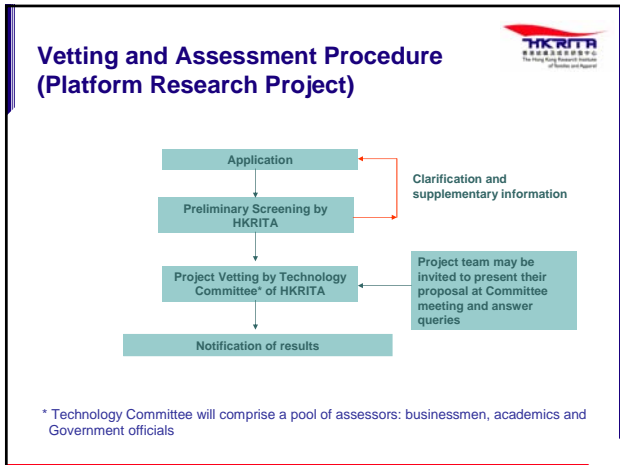
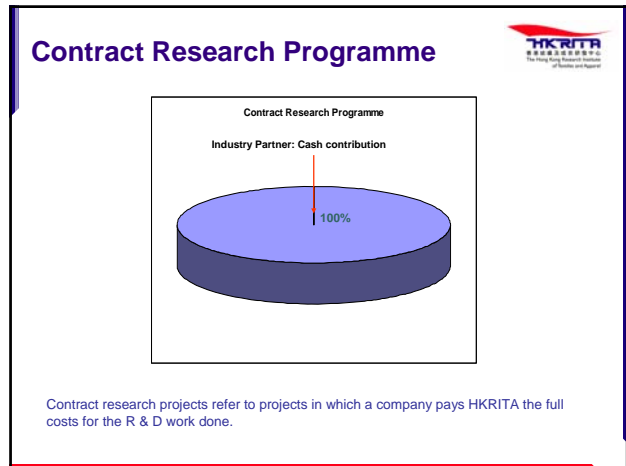
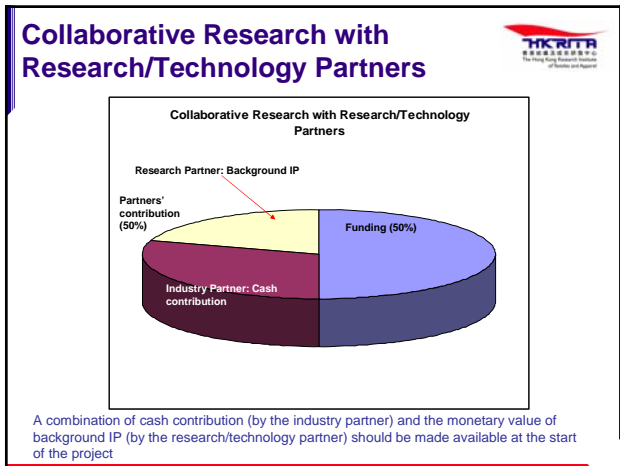
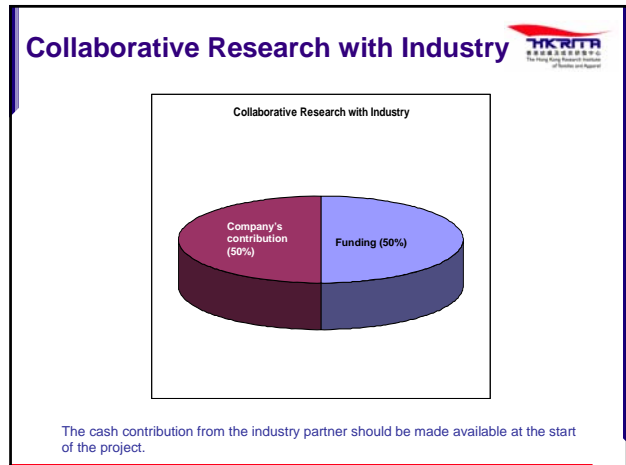
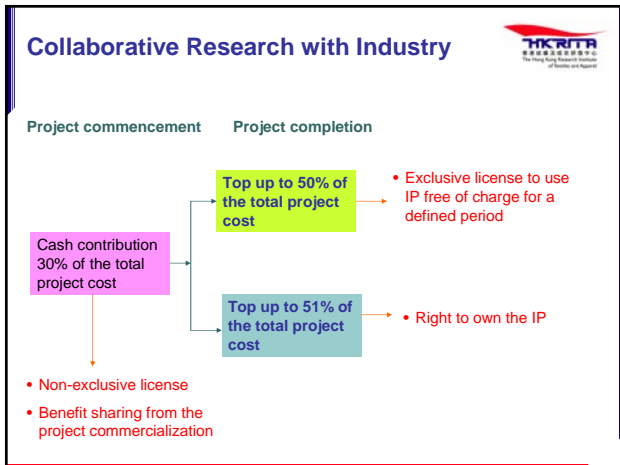
## Platform Research Programme

### Non-exclusive Licence Fee / Benefit sharing for Industry Partners

Percentage of Cash Contribution by Industry Partner vis a vis Total Project Cost	Discounted Non-exclusive Licence Fee	Benefit Sharing
1% - < 5%	1% - < 5%	0
5% - 30%	0	5% - 30%

Total project cost includes university overheads





**Thank you!**