

ASTRI University Technology Transfer Scheme

From Innovation "0 to 1" to Commercialisation "1 to 10"

Funding Landscape from Research to Commercialization Forum

27 September 2022

"From 1 to 10" – the #1 priority in developing Hong Kong into an international innovation & technology hub

A four-pronged approach

- 1. Enhance the I&T ecosystem with improved coordination among upstream and downstream players;
- 2. Enrich our talent pool to drive I&T development and commercialisation;
- 3. Build a smarter Hong Kong and bring innovation benefits to our citizens; and
- 4. Strengthen collaboration with the Mainland and actively integrate into the Nation's grand development plan.

"ASTRI has done very well in several research areas creating impactful innovations "from 0 to 1", and these efforts should continue to be maintained. What's more important, however, is for ASTRI to focus on assisting universities to go "from 1 to 10", helping them commercialise research deliverables to the industry."

Prof. Sun Dong, JP, Secretary for Innovation, Technology and Industry



Largest research and development centre in Hong Kong



Leading research efforts in six core application areas

Smart City



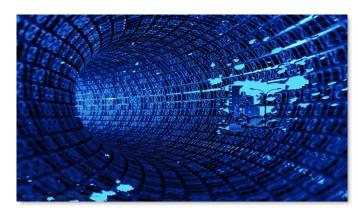
Reindustrialisation & Intelligent Manufacturing



FinTech



Application Specific Integrated Circuits



Digital Health



Metaverse



Slide 4

ASTRI taking the lead with a big vision





Launching ASTRI University Technology Transfer Scheme Bridging upstream research with industry needs





















- Identify collaboration opportunities between ASTRI research teams and University professors
- Bridge industry requirements with joint ASTRI-University research capabilities
- Facilitate project-specific research agreement and IP agreements among ASTRI, University and professor(s)
- Oversee commercialisation of research deliverables through ecosystem partners





Enhancing talent and technology transfer ecosystems

- 1 Strengthen innovation impact by combining research strengths between ASTRI and universities
- Complementary and synergistic background IPs
- Co-ownership of new foreground IPs based on inventive contribution, with benefits and obligations shared
- Professor funded under ASTRI-led ITF projects

- 2 Improve utilization of university IPs by bridging technology transfer gaps
- From "0 to 1" with demand-centric innovations involving ASTRI and university IPs addressing industry painpoints
- From "1 to 10" under 4 technology transfer models through ecosystem partners

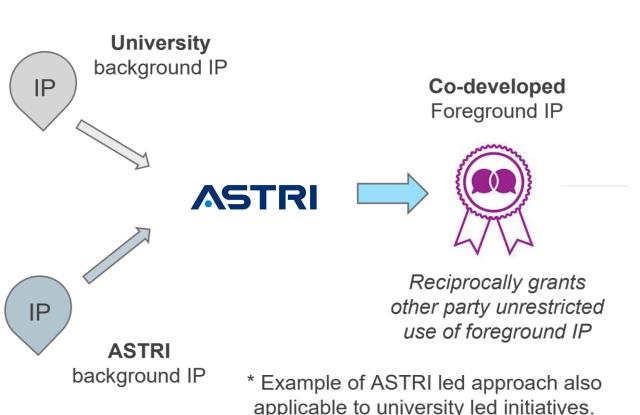
3 Enhance technology research talent ecosystem through industry partnerships

- Develop university talents with applied research skills
- Life-long development partnerships with professors
- Career development options for PhD and Post Docs



Already built a foundation to co-own foreground IPs sharing obligations and benefits

In collaboration with University Knowledge Transfer Offices



Agreements on Joint research, IP coownership, and commercialisation **CityU CUHK HKBU HKUST PolyU** HKU Centre for **Eve and Vision SUST**ech



Commitments on joint research and IP commercialisation



Focus areas:

AI, FinTech and Advanced Semiconductor, Smart sensing for recyclable wastes







Focus areas:

AI, cybersecurity, data privacy, metaverse





3rd Gen Semiconductor based power and energy storage, Data Science, IoT Sensing for reindustrialisation







Focus areas:

Rehabilitation Science, Information Engineering





Microelectronics, Materials, Packaging and Reliability

Machine Vision for Semiconductor Manufacturing and Inspections







Focus areas:

Art Tech, Digitech for Chinese Medicine, Communications and FinTech







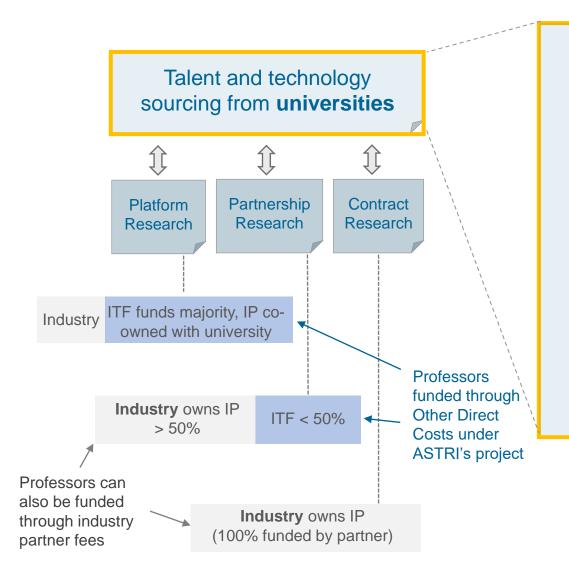








Mechanism for professors to participate in ITF projects





- Commits research expertise and resources for project
- Delivers research outcomes in collaboration with ASTRI to meet client requirements

ASTRI

- 1. Applies for ITF funding
- 2. Secures industry sponsors
- 3. Funds Professor via Other Direct Costs
- 4. Manages project and commercialises outcomes with ecosystem partners
- Shares IP ownership, future obligations and commercialisation benefits







Public sector



Commercial

Transferring technology innovations to the industry

Corporate IP Licensing



3 Existing Start-ups



2 System Integrator



4 Venture Capital / Spin-off





An all-win value proposition



For university talents, including PhDs and Post Docs

More opportunities to receive **on the job training** on leading edge technologies

More opportunities to **turn innovations** into real-world applications

More research or industry-based **career pathways** post graduation



For university and professors

For **renowned professors** – more pathways to commercialise leading edge technologies

For **young professors** – more options to advance career within university or in the industry

For **university** – improved IP utilisation and commercialisation benefit generation

ASTRI

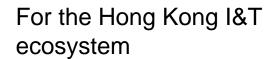
More **seasoned talents** to engage in applied technology research

More **effective technology transfers** in collaboration with ecosystem players

Better **commercialisation impact** through joint research with universities







Tighter collaboration among upstream, midstream and downstream ecosystem players

More **ecosystem players benefitting** from technology transfers

Greater economic, societal, and environmental impact for Hong Kong



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