



Innovation China UK (ICUK) – Introduction

- ***ICUK is a model of collaborative research and technology transfer partnership supporting Chinese and UK HEIs in commercially exploiting their joint research worldwide***
- Won £5 million funding from HEFCE/DTI for the next 2 years
- Over 20 Chinese HEIs consulted during Jan.- May 2006.
- On-going discussion with MoE/MoST facilitated by Counsellor S&T with strong support of HEFCE/DTI
- Launch date Sept 2007



Need for International Collaboration and Technology Transfer

- Many joint China-UK research projects identified with potential to commercially exploit technology **but** without dedicated support commercialisation unlikely
- Examples of 50 potential projects identified in ICUK partnership of QMUL, KCL, RVC, UoN & UoS:
 - *High-performance aerospace composites; anti-virus/bacterial nano-materials; wind turbines; fly wheel energy storage; space bio-engineering, nano-propulsion and telecommunication; therapies and devices for vascular disease; vaccines for infectious diseases (HIV/Hepatitis/influenza); hydrogen storage; drug discovery (TCM); marine biology; stem-cell therapies; age-related diseases etc.*
- High-tech/innovative research requires Proof-of-Concept (PoC) funding to bridge gap between academic funding and VC funding
- ICUK will provide PoC funding and network for commercialisation
- PoC: common practice in UK, Europe and US. Widely welcomed by HEIs in both China and UK

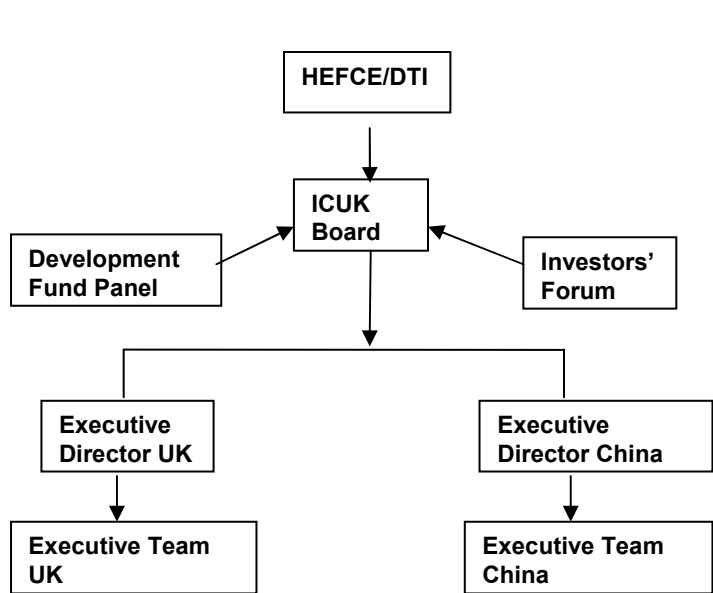


ICUK Activities and Deliverables

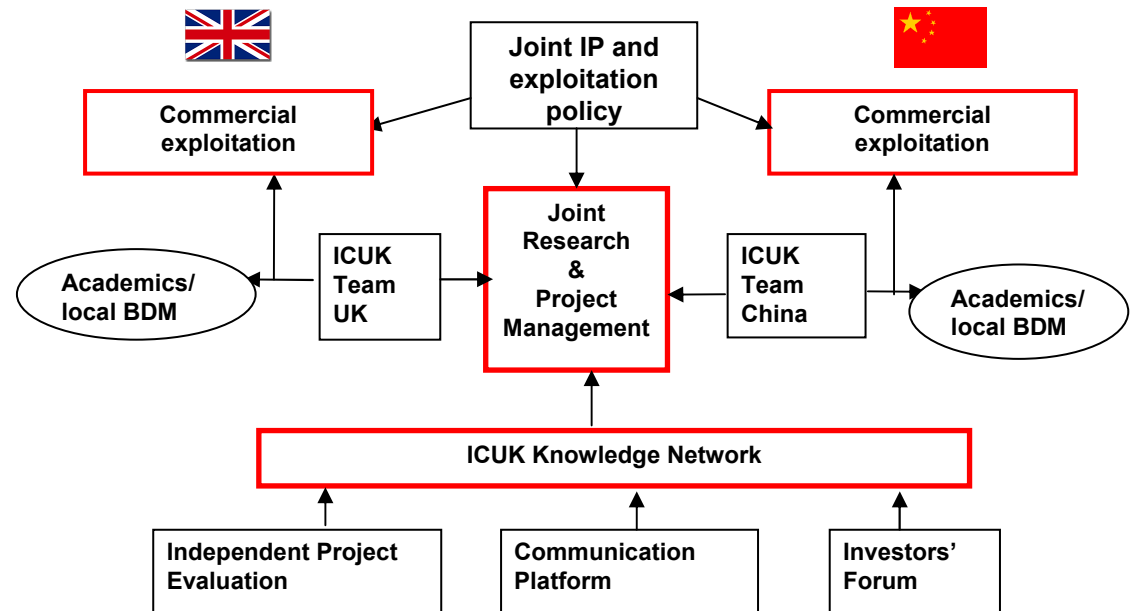
- **Activities**
 - ICUK Collaboration Development Fund (£3m from HEIF in 2 yrs - plus RMB 50m target)
 - ICUK Network events, seminars, web-based communications
 - Dedicated technology transfer staff located in UK and China
 - Guidance on collaboration provided to organisations involved but available to others eg IP framework agreements, investors database, help-desk etc.
- **Joint deliverables**
 - Substantial academic/industry involvement in both UK and China (>300)
 - Joint projects funded (>60), joint papers published (>50) and joint patents filed/enhanced (>30)
 - Leveraged R&D funding from commercial sources (e.g. VC, business angels) and public sources (e.g. EU, RC)
 - Licensing, assignment and option agreements with industry (>15)
 - Technology start-ups (>5)
 - Published guidance on collaboration, Intellectual Property, and technology transfer practice.



ICUK Governance and Operations



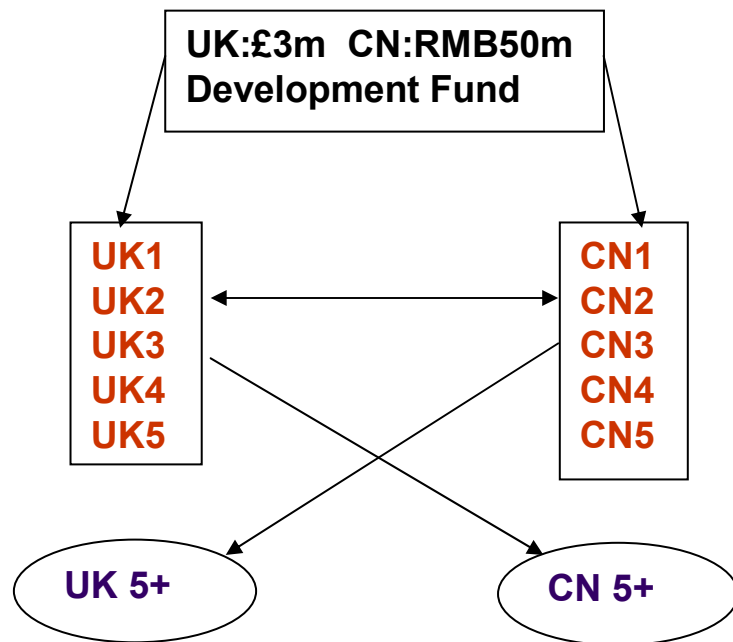
ICUK Governance



ICUK Operations



ICUK Development Fund Model C



- Two core groups of 5 HEIs in both UK and China (QM leads in UK, MOE leads in China)
- Joint CN/UK project proposals between the core groups submitted to the Bilateral Funding Panel for assessment.
- Collaborations between the core group and HEIs outside the core group (eg CN 1-5/ UK 5+) will also be encouraged and assessed under the same criteria.
- The top rated proposals involving a UK 1-5 partner are funded on the UK side by the UK's HEIF award. The top rated proposals involving a CN 1-5 partner are funded on the Chinese side by the MoE/MOST.



Suggested Development Fund Criteria

- At least one UK and one Chinese HEIs jointly submit proposal with support from commercial/industrial partner
- The novelty and innovation of the joint research
- The likelihood of being protected by intellectual property right
- Commercial potential and vehicle for exploiting the technology
- The experience and the involvement of principal investigators in both UK and China
- Feasibility of the research and development plan and costs



Actions and Timelines

- Confirm members of Bilateral Board
- Confirm source and timing of Chinese Development Funding
- Designate coordinating board in China
- Confirm members of ICUK Development Funding Panel (4 experts from each country)
- Agree on ICUK timelines
 - ICUK staff recruitment – June 2007
 - ICUK starting date (executive teams in place) – September 2007
 - 1st call on Development Fund – October 2007
 - 1st Development Panel meeting – Nov./Dec. 2007 in London
 - Development Fund calls and panel meetings will repeat every 3 months.



Lessons from ICUK so far

- Need a National perspective on collaborations (as well as bottom-up initiatives)
- Need dedicated UK funding with flexible timescales
- Collaboration infrastructure (eg networks) shortage
- Longer term commitment to UK-China collaboration required including knowledge/IP exploitation.