



# 7th International Skills Forum

## Anticipating and Preparing for Emerging Skills and Jobs

12-14 December 2017  
Asian Development Bank  
Manila, Philippines

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# Collaborative Innovation between Shenzhen City Government and Tsinghua University

(<sup>1</sup>Graduate School at Shenzhen, Tsinghua University, <sup>2</sup>Tsinghua-UC Berkeley Shenzhen Institute, Tsinghua University, China)

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## Outline

1. Introduction of GSSTU & TBSI
2. Innovative Aspect of Shenzhen
3. Collaborative Innovations



## Graduate School at Shenzhen, Tsinghua University

- The Graduate School at Shenzhen, Tsinghua University, was jointly founded by Tsinghua University and the Shenzhen Municipal Government in 2001 for cultivating top level professionals and carrying out scientific and technological innovations.
- Directly affiliated with Tsinghua University in Beijing, the Graduate School plays an important role in Tsinghua's commitment to achieve international prominence.
- The primary goal of the Graduate School is to cultivate professionals with leadership capability, international vision, enterprising spirit and a wide range of knowledge.

Fact:

Students population is around 3027 including 344 Ph.D students. Alumni is 7841.

Faculty numbers: full-time 175, part time 200

Features: **Inter-disciplinary , Innovation and Internationalization**

➤ 7 Divisions and 1 Institute:

- **Life & health; Energy & Environment; Information Technology**
- **Logistics & Transportation; Advanced Manufacturing;**
- **Ocean Sci. & Tech.; Social Sci. Mang.; Hospital Management**



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### Tsinghua-UC Berkeley- Shenzhen Institute (TBSI)

- April 21, 2014, Berkeley Chancellor Dirks and President Chen of Tsinghua University signed the MOU for confirming the ***Establishment of the Berkeley-Tsinghua Alliance for Transformational Technology Research and Education in Shenzhen.***
- September 7, 2014, Chancellor Dirks and President Chen signed two agreements to establish the Institute by end of 2014.



#### Fact:

- Students is 193 including 104 Ph.D students.
- Faculty numbers: full-time 20, part time 38

# Global Education Strategy

## Tsinghua University

中国高等教育的领先学府  
世界一流的生源质量  
综合多科性优势  
工科基础尤其

## UC Berkeley

全美最好的公立大学  
多学科综合优势  
硅谷附近，优秀的创业文化  
有着逾30年的密切伙伴关系

## TBSI

Best Students  
Top Professors & researchers  
Industrial and Financial Supports  
Industrial leadership & Engineering scientists

## Shenzhen

中国最早的经济特区  
年轻而务实的城市  
贡献了全国2.5%的GDP  
面临巨大的产业升级压力  
创新创业的热土

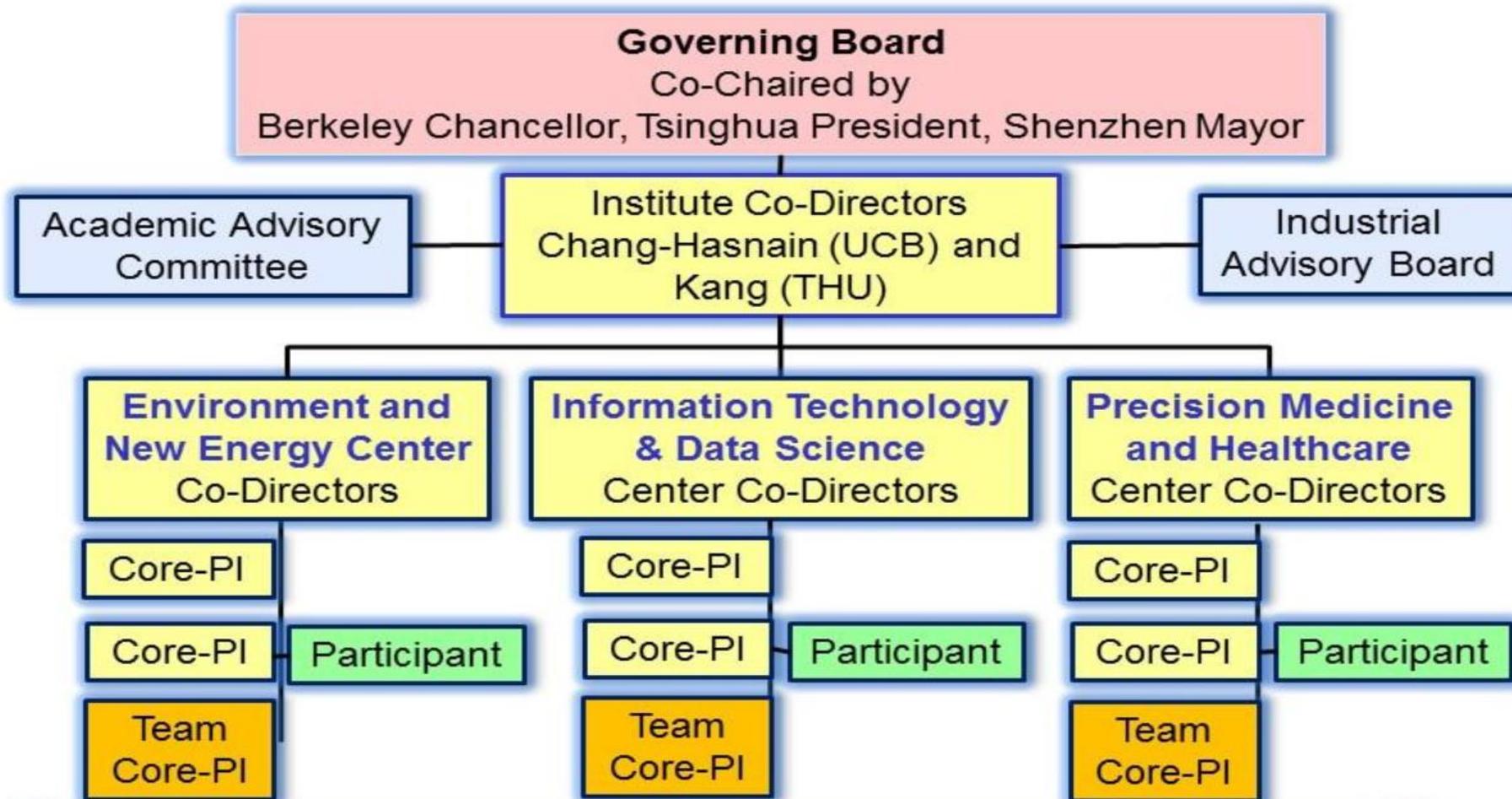


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## Organization



# Research Centers and Labs of TBSI

## 1. Environment and New Energy Technology

1a. Nano Energy Materials

1b. Environmental Tech.

1c. Smart Grid

1d. Intelligent Transportation System

1e. Low Carbon Economy and Policy System Simulation

## 2. Information Technology and Data Science

2a. MEMS

2b. Nano Device

2c. Sensor Networks

2d. Future Internet

2e. Big Data

2f. Future Media

## 3. Precision Medicine and Healthcare

3a. Medical Detection

3b. Nano Medicine

3c. Medical Equipment

3d. Bio Manufacturing

3e. Public Health



## Universities in Transitions

- Global megatrends create continuous needs for transitions.
- Meeting the global challenges ask for strategies of universities that target growth, continued academic relevance, and societal impact.
- To achieve their objectives universities have to excel in respect of their process efficiency, curriculum and program design, innovation support, and stakeholder influence.
- Increasing complexity implies that no organization can succeed on its own but there is a need for collaboration. This puts great demands on ecosystem orchestration.

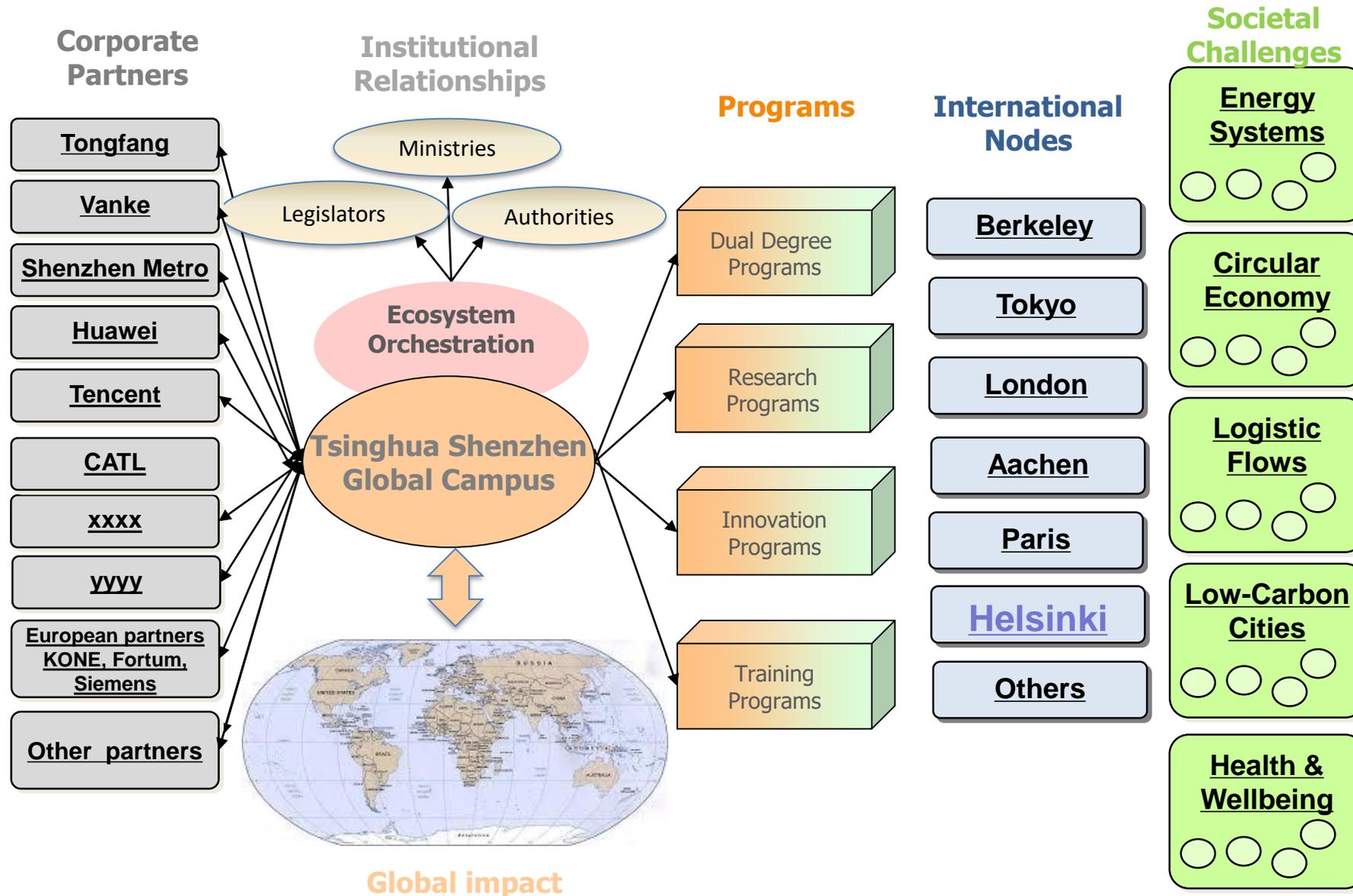
## Tsinghua University will use the positive experiences from TBSI to establish Tsinghua Global Campus at Shenzhen, which will triple the size of Tsinghua Shenzhen Campus by 2025

*Vision* – Build world-class transformative research, education and innovation partnerships with **selected international nodes**, such as **Helsinki**, to fuel economic growth and drive societal excellence.

*Mission* – Nurture transformational technology and social science research that addresses global challenges, builds new capabilities, and co-creates markets and ecosystems with **selected partners**, such as **Aalto University**.

*Engagement of Partners* – Tsinghua Shenzhen Global Campus will nurture the evolving ecosystems around **selected societal challenges** by allowing the partners to actively influence the formation of research, innovation and training programs.

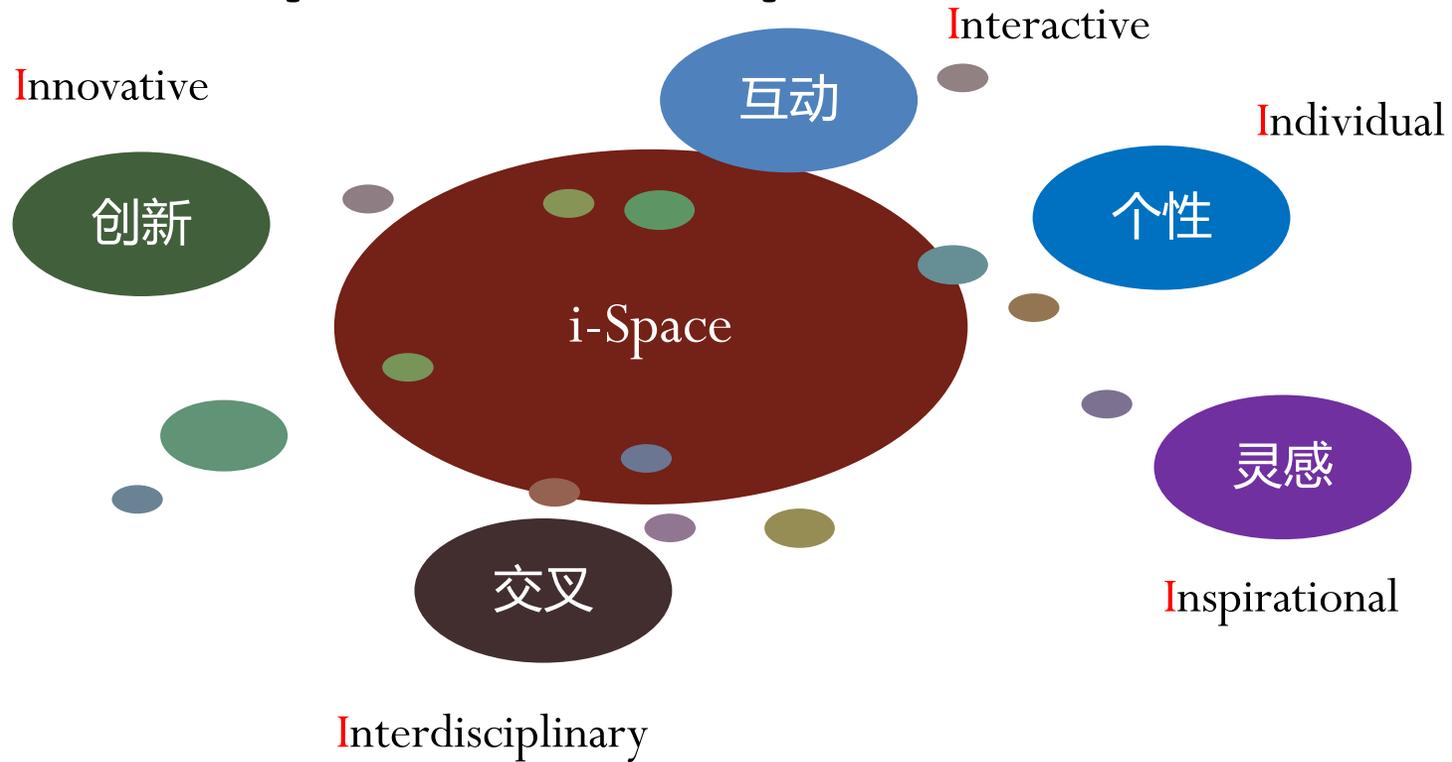
# The TSGC-Ecosystem; Driving Societal Excellence



# i-Space: Tsinghua-Nanshan District Entrepreneurship Center



创新无限 创业无疆



## Free Supports:

- 4000m<sup>2</sup> incubator space
- 11 million RMB fund

