Research Group on Culturally-Informed Engineering

"Interdisciplinary Innovations in Engineering"

Institute of Industrial Science (IIS)

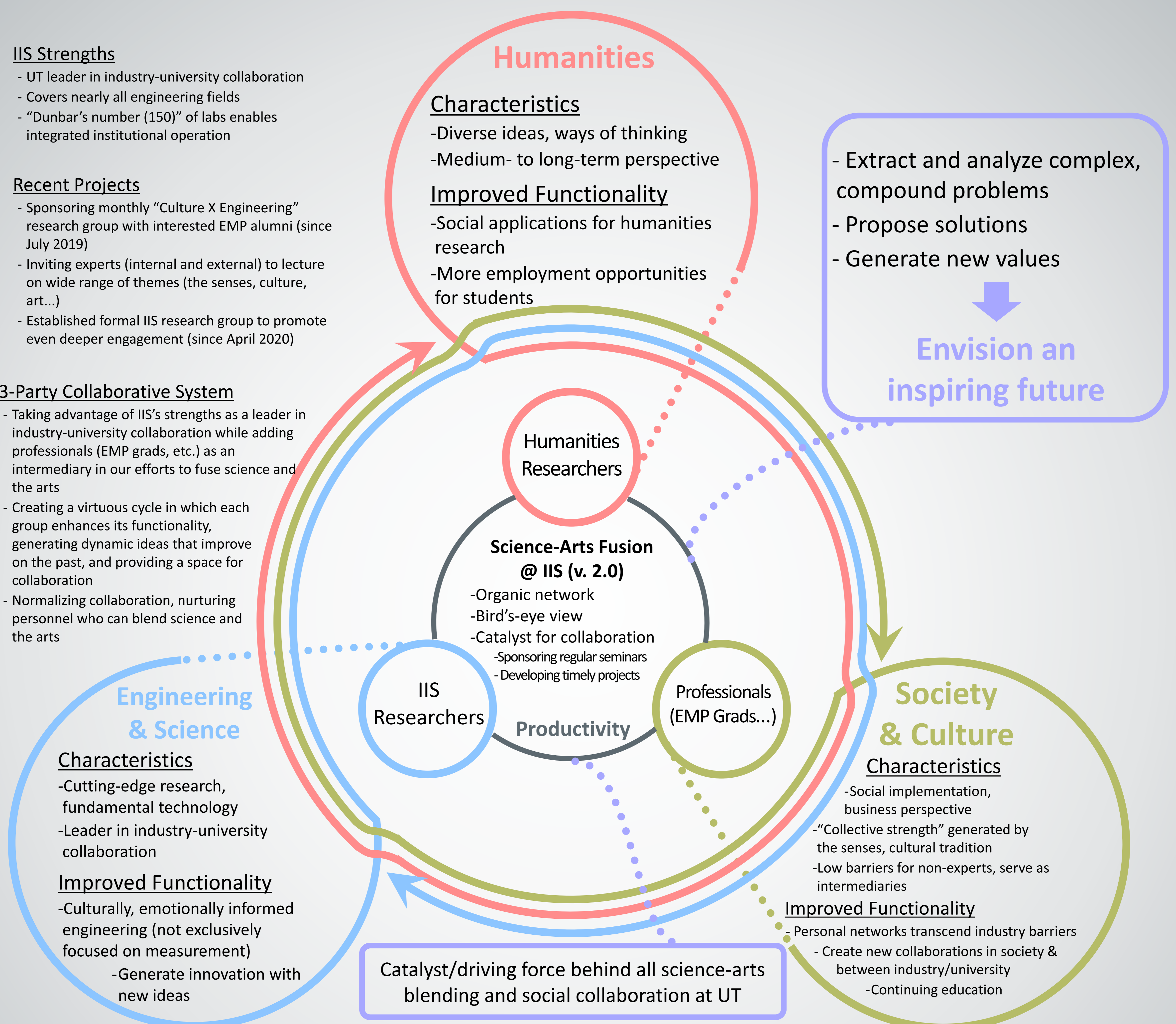https://www.cue.iis.u-tokyo.ac.jp

IIS Strengths
- UT leader in industry-university collaboration
- Covers nearly all engineering fields
- "Dunbar's number (150)" of labs enables integrated institutional operation

Recent Projects
- Sponsoring monthly "Culture X Engineering" research group with interested EMP alumni (since July 2019)
- Inviting experts (internal and external) to lecture on wide range of themes (the senses, culture, art...)
- Established formal IIS research group to promote even deeper engagement (since April 2020)

3-Party Collaborative System
- Taking advantage of IIS's strengths as a leader in industry-university collaboration while adding professionals (EMP grads, etc.) as an intermediary in our efforts to fuse science and the arts
- Creating a virtuous cycle in which each group enhances its functionality, generating dynamic ideas that improve on the past, and providing a space for collaboration
- Normalizing collaboration, nurturing personnel who can blend science and the arts

Humanities

Characteristics
- Diverse ideas, ways of thinking
- Medium- to long-term perspective

Improved Functionality
- Social applications for humanities research
- More employment opportunities for students

- Extract and analyze complex, compound problems
- Propose solutions
- Generate new values

Envision an inspiring future

Humanities Researchers

Science-Arts Fusion @ IIS (v. 2.0)
- Organic network
- Bird's-eye view
- Catalyst for collaboration
  - Sponsoring regular seminars
  - Developing timely projects

IIS Researchers

Professionals (EMP Grads...)

Productivity

Engineering & Science

Characteristics
- Cutting-edge research, fundamental technology
- Leader in industry-university collaboration

Improved Functionality
- Culturally, emotionally informed engineering (not exclusively focused on measurement)
- Generate innovation with new ideas

Society & Culture

Characteristics
- Social implementation, business perspective
- "Collective strength" generated by the senses, cultural tradition
- Low barriers for non-experts, serve as intermediaries

Improved Functionality
- Personal networks transcend industry barriers
- Create new collaborations in society & between industry/university
- Continuing education

Catalyst/driving force behind all science-arts blending and social collaboration at UT

Faculty: Prof. ISHII Kazuyuki, Prof. IMAI Kotaro, Assoc. Prof. KAWAZOE Yoshiyuki, Prof. SHIMURA Tsutomu, Assoc. Prof. TOYA Riina, Prof. NOMURA Masahiro, Assoc. Prof. HONMA Yudai, Prof. MATSUNAGA Yukiko

(N.B.) In this group, "humanities researchers" refers to UT liberal arts faculty in "humanities" fields.