

Strategic Management of University

***- for Creative Human Resource Developments
in International Environment -***

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Outline

- 1. Overview**
- 2. Excellent education programs**
- 3. Outstanding research programs**
- 4. International Strategy and Collaboration**

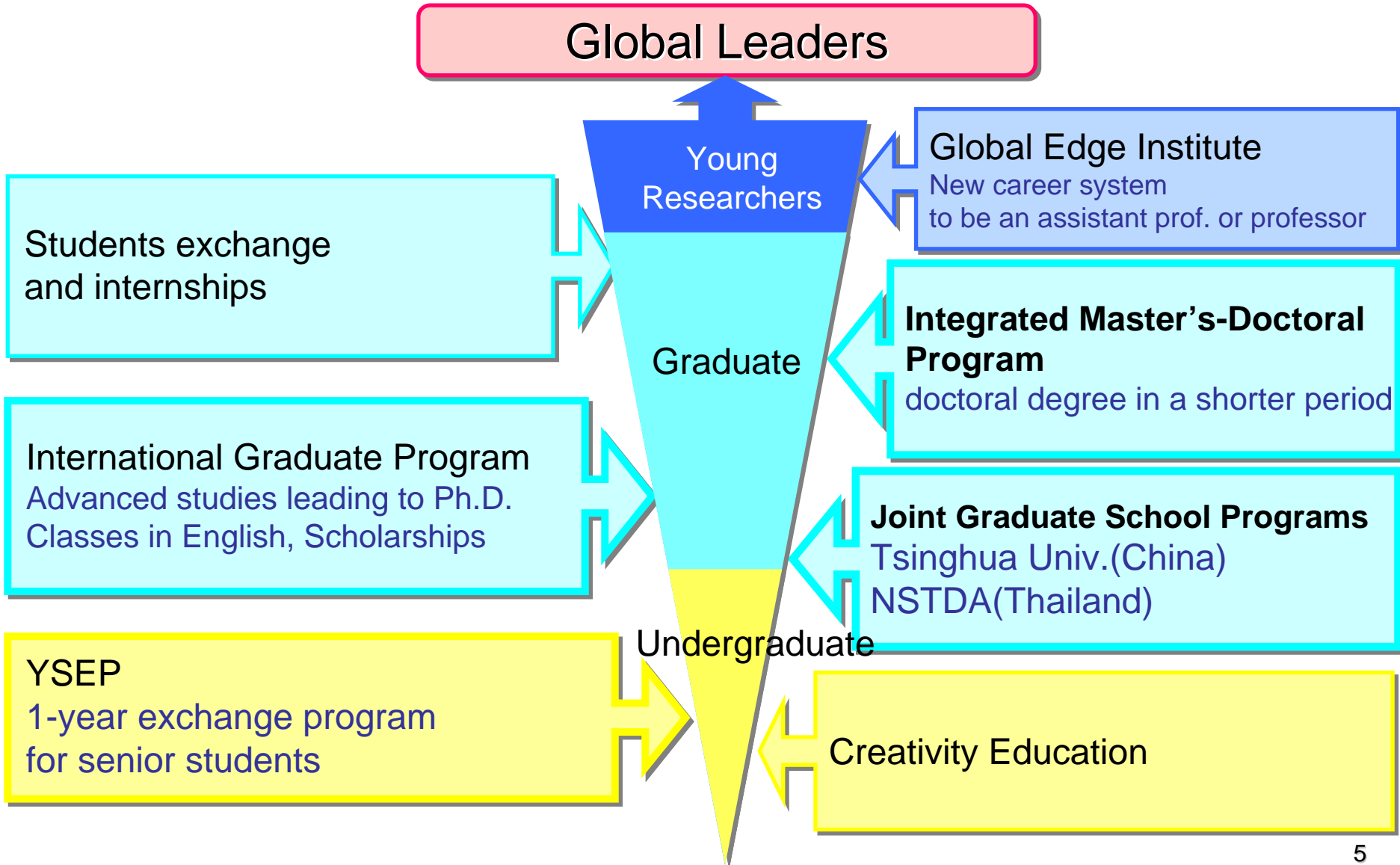
- 1881** Established as **The Tokyo Vocational School.**
- 1929** Promoted to a degree-conferring university as **Tokyo Kogyo Daigaku (Tokyo Institute of Technology)**
- 2004** Reorganized as an independent administrative institution “**National University Corporation Tokyo Institute of Technology**”

As of May 1st, 2009	Number (rounded)
Undergraduate Students (International students)	4,900 (300)
Graduate Students (International students)	5,000 (800)
Faculty	1,100
Administrative Staff	500

We, Tokyo Institute of Technology, aim at

- **creating global human capabilities *par excellence*:**
 - to pioneer research and higher education in science and engineering
 - to lead industrial technology and management.
- **educating** students to acquire scientific expertise, liberal arts and ethics;
- **researching** thoroughly from basic theory to practical application;
- **advancing** science and technology by academic mastery, thereby contributing to civilization, peace and prosperity in the world.

Higher Education Open to the World



Tokyo Institute of Technology – Tsinghua University Joint Graduate Program

- The first “dual degree” program on graduate level between China and Japan
- Joint supervision by professors of both universities
- Master’s degrees awarded by both universities in 3 years
- Expenses in Japan supported by scholarship



Sep. '08

Oct. '09

Sep. '10

Aug.-Sep. '11

Tsinghua University

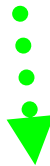
Studying in China 1-1.5 year

Studying in China 0.5 year

Lectures by Tokyo Tech Professors

Tokyo Tech

Studying in Japan 1-1.5 year



YSEP (Young Scientist Exchange) Program

- Research oriented education for undergraduate students (senior)
- About 30 world-wide students participate each year.
- Lectures in English language



The Program includes:

- **Individual research project at research lab under the guidance of a faculty supervisor.**
- **Japanese language and society/culture courses.**
- **Opportunities for a scholarship provided by Japan Student Services Organization (JASSO).**
- **A variety of events such as Factory Study Tours.**

The Global COE (Center of Excellence) Program

9 Programs (adopted in 2007, 2008, 2009)

- Evolving Education and Research Center for Spatio-Temporal Biological Network (2007)
- Education and Research Center for Material Innovation (2007)
- Education and Research Center for Emergence of New Molecular Chemistry (2007)
- Computationism as Foundations of Sciences (2007)
- Photonics Integration - Core Electronics (2007)
- Nanoscience and Quantum Physics (2008)
- International Urban Earthquake Engineering Center for Mitigating Seismic Mega Risk (2008)
- Multidisciplinary Education and Research Center for Energy Science (2008)
- From the Earth to “Earths” (2009)

International Strategy & Collaboration

Strategic Plan and Goal

Development of International research center (team) for high-level research on the world emerging issues of science & technology as an Asian hub.

In the era of accelerating globalization, the borderless collaboration among universities is becoming more important.

An establishment of a strategic network of the leading universities of science and technology (in Asia) is proposed. This will act as a hub for innovation and contribute to realize sustainable world through the advancement of research and human resource development in science and technology.

Through this network, our mutual cooperation in the field of research, education and innovation is further enhanced.

The collaboration with similar consortia in other parts of the world, such as Europe and America, will be pursued.

Consortium of the World Leading Universities of Technology

Asia

The Hong Kong University of Science and Technology
Korea Advanced Institute of Science and Technology
Nanyang Technological University
Tsinghua University
Tokyo Institute of Technology



Europe

Imperial College London
ETH Zurich
Paris Tech
RWTH Aachen
TU Delft

Example: Research and Collaboration Method

•Establishment of
evolutional and
Flexible System
based on Social
Needs

Research Group of
Other Universities

Collaboration

Collaboration

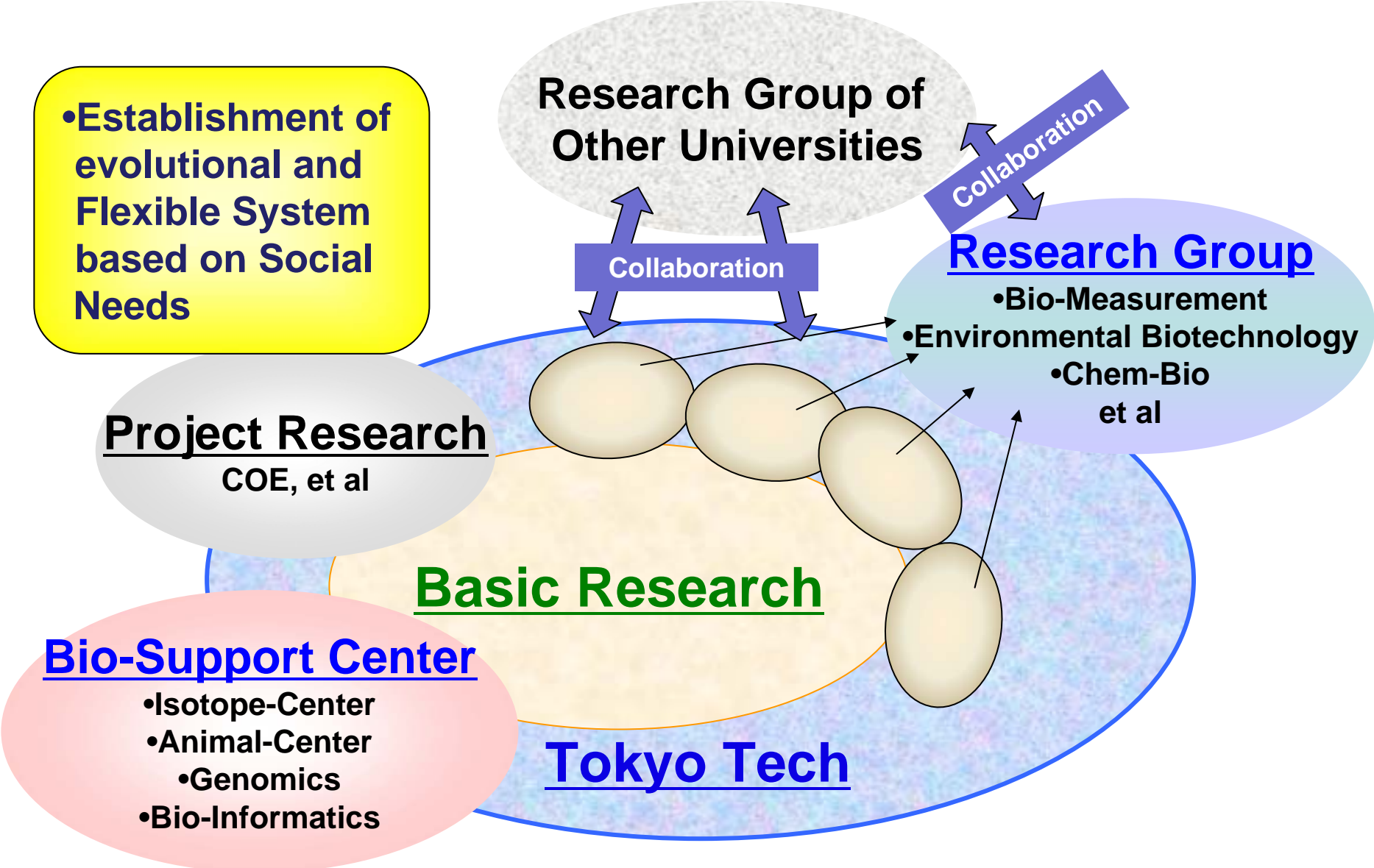
Research Group
•Bio-Measurement
•Environmental Biotechnology
•Chem-Bio
et al

Project Research
COE, et al

Basic Research

Bio-Support Center
•Isotope-Center
•Animal-Center
•Genomics
•Bio-Informatics

Tokyo Tech



Initiating Global Leadership in Research and Education

Tokyo Institute of Technology
The 130th Anniversary in 2011



Thank you

