

Conceptual Design of the Information Infrastructure for the Quality Assurance System of Higher Education in NIAD-QE

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National Institution for Academic Degrees and Quality Enhancement of Higher Education (NIAD-QE)



NIAD-QE

National Institution for Academic Degrees and Quality Enhancement of Higher Education

Overview

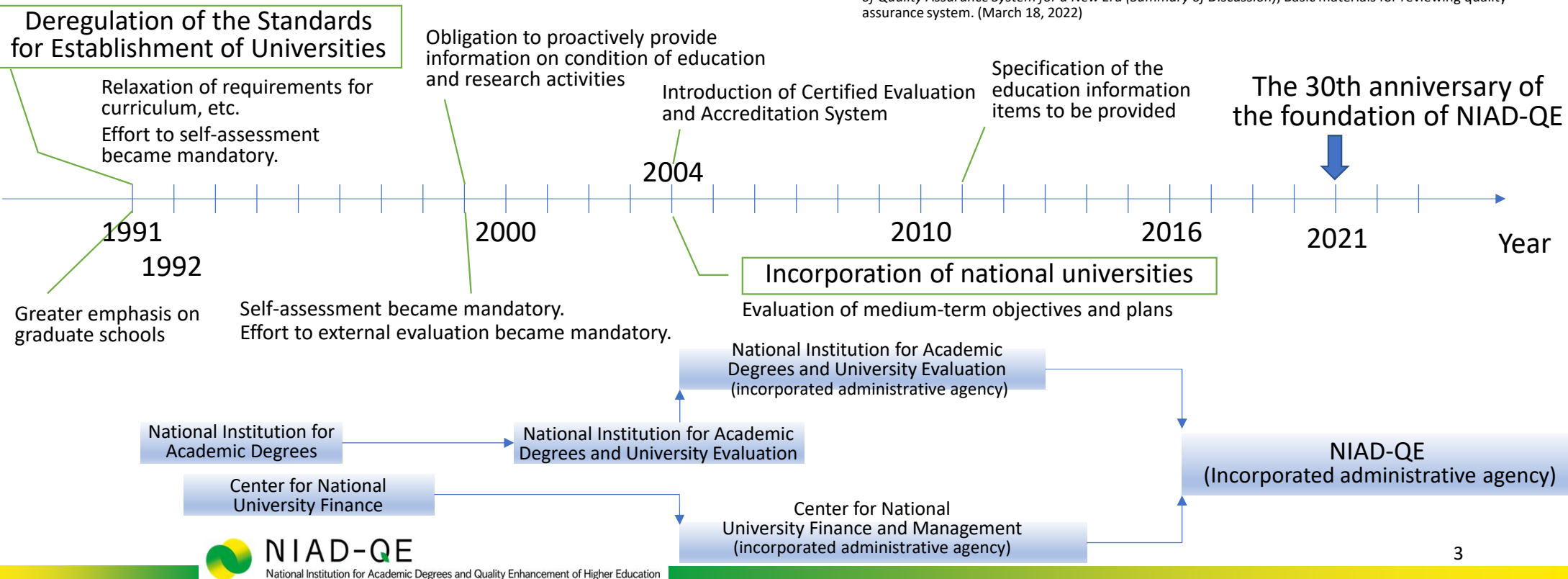
- Data on higher education at NIAD-QE
- Japanese College and University Portraits (JPCUP)
- Issues and challenges pertaining to the higher education data at NIAD-QE



History of university reforms

Historical changes in relevant laws, council reports, etc.

(Source 1) Kawaguchi, A. (2009) NIAD-UE University Evaluation Series. p.178.
 (Source 2) Subcommittee for Quality Assurance System of University Committee, Central Council for Education, Ministry of Education, Culture, Sports, Science and Technology (MEXT). *Toward Improvement and Enhancement of Quality Assurance System for a New Era (Summary of Discussion)*, Basic materials for reviewing quality assurance system. (March 18, 2022)



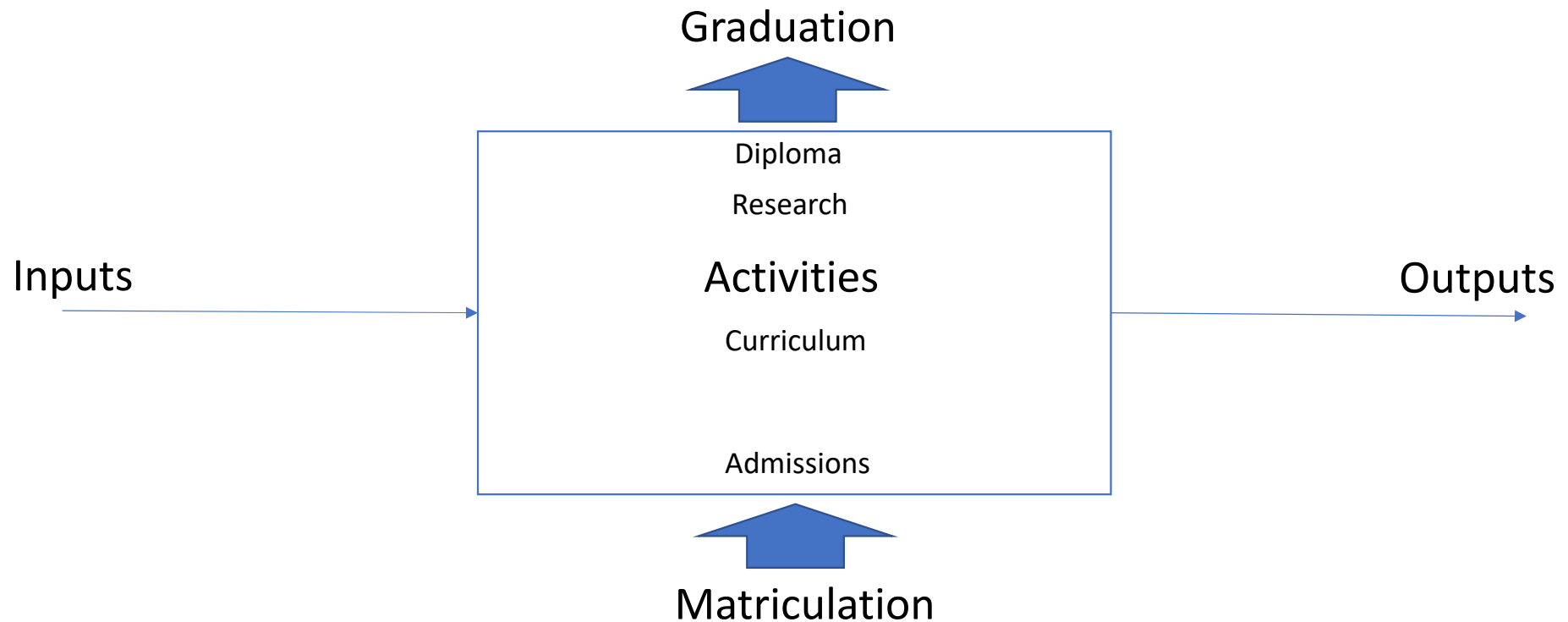
Data collected for each business category at NIAD-QE

- Basic School Survey equivalent data collection (for national universities, public universities, for-profit universities, and public junior colleges)
 - Basic university information
 - University information utilization system (a business intelligence tool)
- Certified evaluation and accreditation (for universities, colleges of technology, and professional graduate schools)
 - Self-assessment reports
 - Evaluation reports
 - Evidence (materials and data)
 - Common basic data format
- National university corporation evaluation (for national universities and inter-university research institute corporations)
 - Performance reports
 - Performance evaluation reports
 - Evidence (materials and data)
 - Input data collection, data analysis collection
 - Judgment of the level of research achievement
- Japanese College and University Portraits (JPCUP) (for national universities, public universities, for-profit universities, and public junior colleges)
 - JPCUP for domestic public release
 - JPCUP for international public release
- Other business categories
 - National Information Center for Academic Recognition Japan (for universities, junior colleges, colleges of technology, professional training colleges, and educational institutions operated by government ministries and agencies)
 - Survey of public universities (BI tool)
 - National university corporations' financial statements



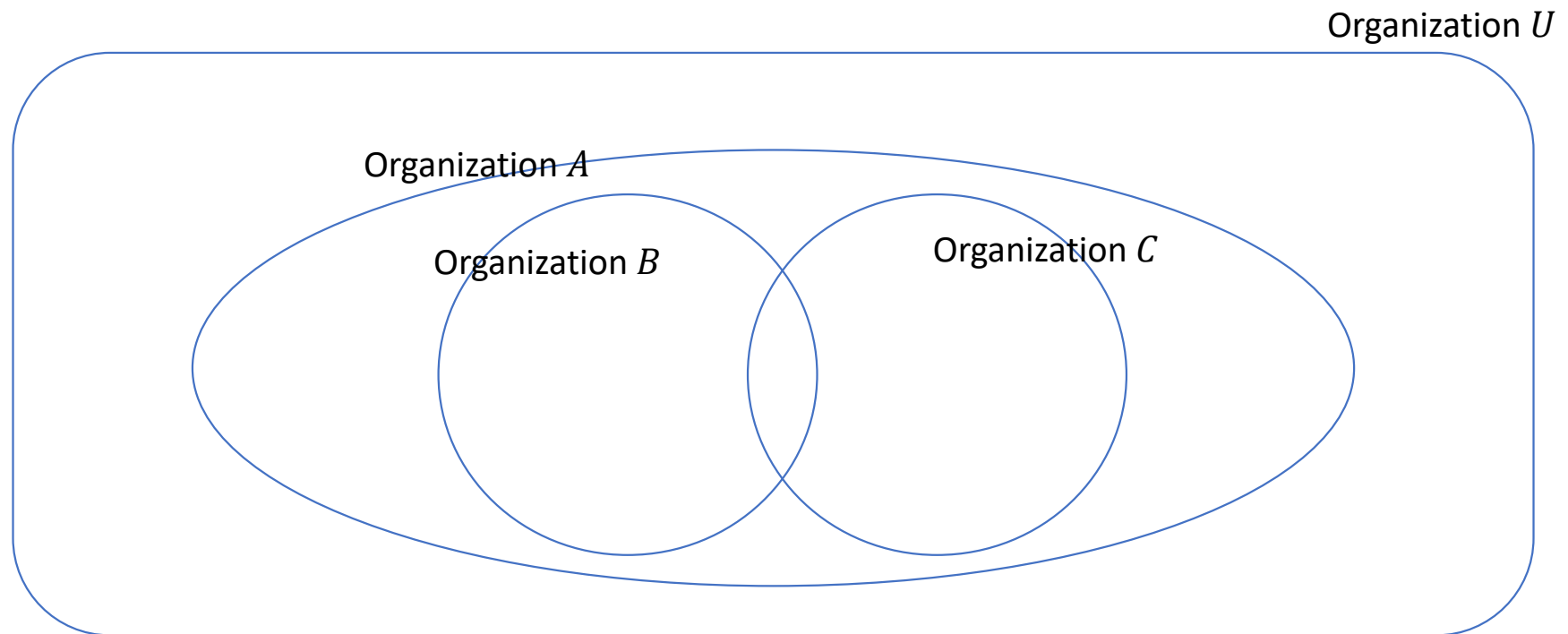
Information model for observing university conditions

NIAD-QE collects various types of information at the whole organization or sub-organization level.



Organizational structure

Each organization refers to a set of persons.

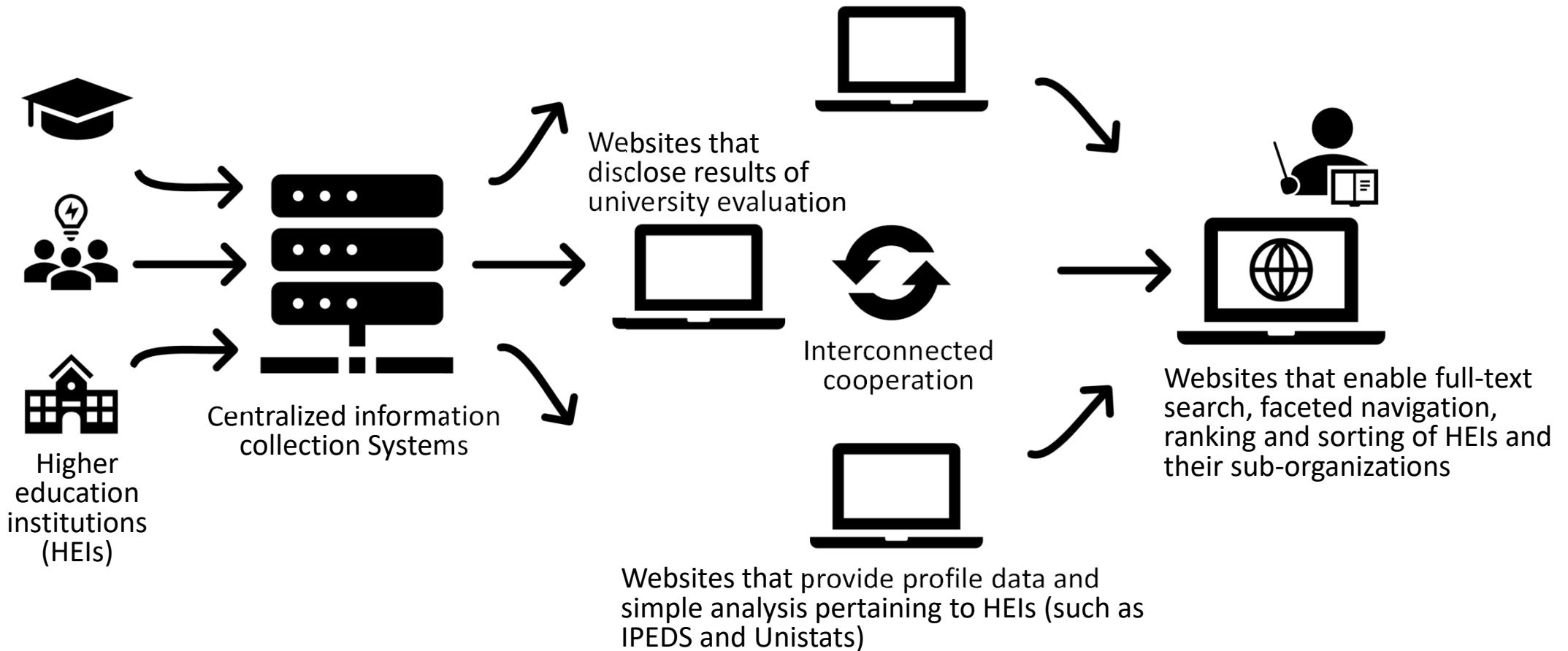


Organizational survey according to an information model

- Organization
 - Institution
 - ~~Academic staff organization~~
 - ~~Administrative organization~~
 - Organizational principle for education and research
 - Education and research programs
 - Inputs
 - Members of the organization
 - Academic staff
 - Administrative and clerical staff
 - School sites, facilities, and equipment
 - Empty spaces
 - Athletic grounds
 - School buildings
 - Books and libraries
 - Attached facilities
 - Machines, instruments and specimens
 - Research Inputs
 - Outputs
 - Research outputs
 - Outputs of social engagement
- The Standards for the Establishment of Universities were revised and entered into force on October 1, 2022, and organizational classification changed.
- Activities
 - Education Policies
 - School mottos
 - Admissions policies
 - Curriculum policies
 - Diploma policies
 - Education services and support
 - Curricula
 - Extracurricular programs
 - Student financial support
 - Students' learning status
 - Research activity status
 - Matriculation
 - Entrance exams
 - Students
 - Graduation
 - Graduate outcomes
 - Financial statements



Conceptual diagram of the information infrastructure for the quality assurance system of higher education in NIAD-QE

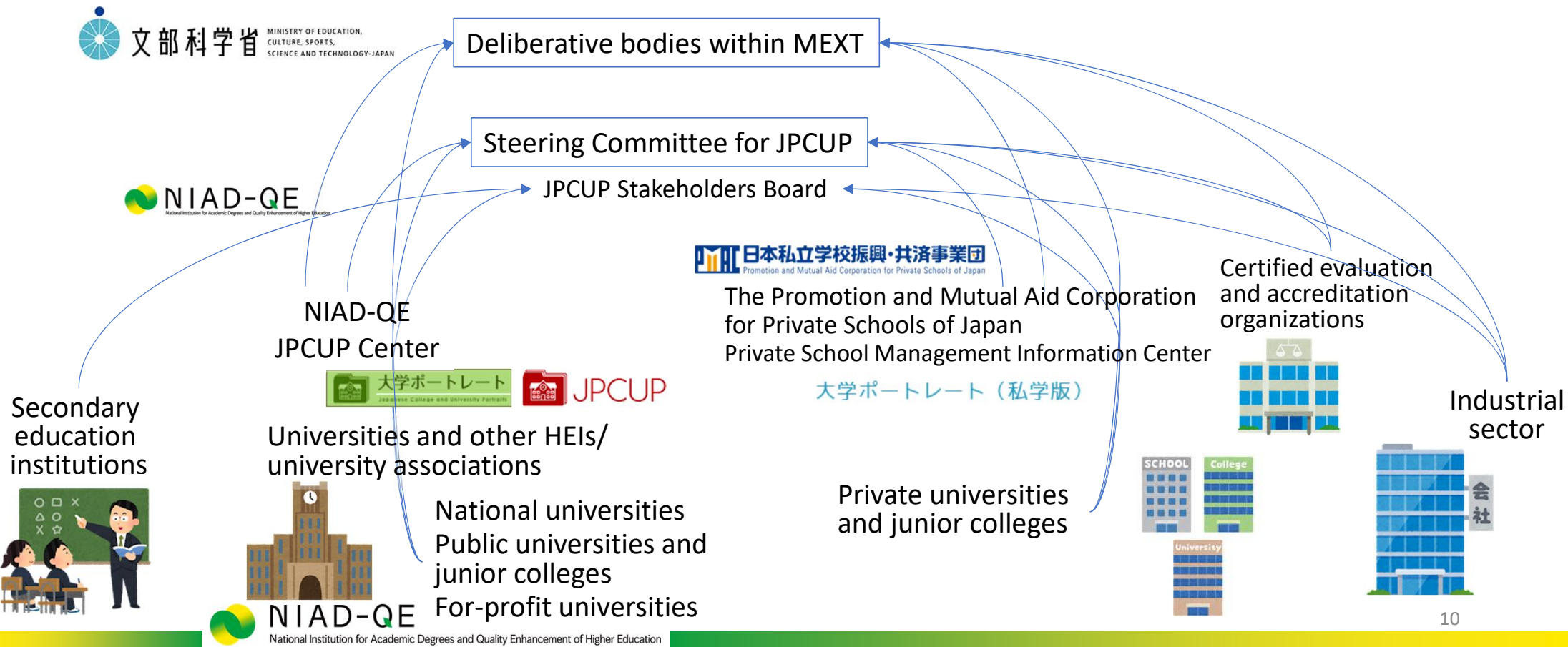


Internal and external expectations for JPCUP

- In 2010, the higher education database services (university information provision services) were terminated after the government's budget screening process.
 - National Center for University Entrance Examinations/University Information Provision Service (Heart System, etc.)
 - Japan Student Services Organization (JASSO)/University Information Provision Service (Student Support Information Database, etc.) as part of the student support programs
 - National Institution for Academic Degrees and University Evaluation (NIAD-UE, the predecessor of NIAD-QE)/University information provision service (University Information Database, etc.) as part of the duty of information collection, organization, and provision
 - Center for National University Finance and Management (CUFM)/University information provision service (National University Corporation Management Handbook, etc.) as part of the duty of information provision for supporting improvement of finance and management
- In April 2011, the information on education and research activities to be provided has been specified, as stipulated in Paragraph 1 of Article 172-2, the Regulation for Enforcement of the School Education Act.
- "Interim Report on the Utilization and Public Provision of Education Information at Universities" (August 2011), Expert meeting for supporting the utilization and promoting the public provision of education information at universities, MEXT
 - Each university should voluntarily and autonomously engage in the use and public provision of education information.
 - In this regard, it is important for university associations and other relevant organizations to support and complement the efforts of each university.
 - Furthermore, through voluntary cooperation among university associations and other relevant organizations, the development of a common infrastructure for the use and public provision of education information should be promoted.
- Three Objectives of the JPCUP
 - To clearly illustrate the mission of each university and the condition of its education and research activities and to promote the analysis of education information that will contribute to enhancing the quality of education.
 - To provide information in an accessible manner to stakeholders and interested parties in university education, both domestically and internationally, including prospective students, local authorities, and industry representatives.
 - To help universities and colleges respond to various surveys.



The decision-making organization of JPCUP



Public provision of education information through JPCUP

Common search page for national, public, and private institutions

The screenshot shows the search interface of the Japanese College and University Portal (JPCUP). It includes a header with navigation links and a main search area with several filter sections:

- 設置形態 (Institution Type):** Includes checkboxes for 国立 (National), 公立 (Public), 私立 (Private), and 株式会社 (Company).
- 課程区分 (Course Division):** Includes checkboxes for 学士課程 (Bachelor's), 修士課程 (Master's), 博士課程 (Doctoral), and 専門修士課程 (専門修士課程) (Specialized Master's).
- 学校名 (School Name):** A text input field.
- 学部・研究科名 (学部・短期大学の学科名) (Faculty/Department Name):** A text input field.
- 学科・専攻名 (Faculty/Department Name):** A text input field.
- キャンパスの所在地 (Campus Location):** Includes a map and checkboxes for various regions like 北海道, 東北, 関東, etc.
- 詳細検索条件 (Detailed Search Conditions):** A section for more specific filters like 専攻分野 (Specialty), 取得可能な資格 (Qualifications), and 実施している入試方法 (Admission Methods).

Result page (national and public)

The screenshot shows the search result page for 東京外国語大学 (Tokyo University of Foreign Studies). It features the university's logo and a list of departments and programs:

- 言語文化学部 (Faculty of Language and Culture)
- 国際社会学部 (Faculty of International Sociology)
- 国際日本学部 (Faculty of International Japanese Studies)
- 総合国際学研究科 (博士課程 (前期)) (Graduate School of International Studies (Pre-graduate))
- 総合国際学研究科 (博士課程 (後期)) (Graduate School of International Studies (Post-graduate))

Navigation buttons like "お気に入りリスト" (Favorites) and "一覧へ" (View All) are visible.

Result page (private)

The screenshot shows the detailed result page for 津田塾大学 (Tsuda University). It includes a navigation menu, a list of photos of the campus, and a detailed information table.

基本情報目次 (Basic Information Table of Contents)	
■ 概要 (Overview)	
■ 学校名 (School Name)	津田塾大学
■ ホームページ (外部サイトへ) (Homepage (External Site))	http://www.tsuda.ac.jp/
■ 資料請求 (外部サイトへ) (Request for Materials (External Site))	http://www.tsuda.ac...
■ 本部所在地 (Main Campus Location)	小平キャンパス
郵便番号 (Postal Code)	187-8577
所在地 (Location)	東京都小平市津田町2-1-1
アクセス (外部サイトへ) (Access (External Site))	http://www.tsuda.ac...
問い合わせ先 (外部サイトへ) (Contact Information (External Site))	http://www.tsuda.ac...

Public provision of education information for students planning to study in Japan

English-language version

The screenshot shows the English-language version of the JPCUP website. The header includes the JPCUP logo, language options (English, 中文), and a search bar. Below the header is a navigation menu with links like HOME, Advanced Search, Updates, and What is JPCUP?. The main content area features a large banner with the text "Find Your University" and a search icon. Below the banner are two dropdown menus for "MAJOR" and "INSTITUTE TYPE". A red banner highlights the selected university: "Tokyo University of Agriculture and Technology". Below this, there are icons and text indicating the university type: "University/Junior College University" and "Co-ed/Women Only Co-ed". The year of foundation is listed as "1949". There are also links for "History" and "Official Website". At the bottom, three donut charts show enrollment statistics: Total Enrollment (5690 students), Undergraduate Enrollment (3821 students), and Graduate Enrollment (1869 students).

Chinese-language version

The screenshot shows the Chinese-language version of the JPCUP website. The header includes the JPCUP logo, language options (English, 中文), and a search bar. Below the header is a navigation menu with links like 主页, 详细检索, 大学的更新信息, 关于我们, and 关于日本留学. The main content area features a large banner with the text "适合您的大学" and a search icon. Below the banner are two dropdown menus for "学科领域" and "学校类别". A red banner highlights the selected university: "室兰工业大学". Below this, there are icons and text indicating the university type: "大学, 短期大学 大学" and "男女同校, 女子大学 男女同校". The year of foundation is listed as "1949". There are also links for "校史" and "教育研究的目的以及建校精神等". At the bottom, there is a section for "大学官网" with a link to the English version and a section for "大学特色" with a paragraph of text.



NIAD-QL

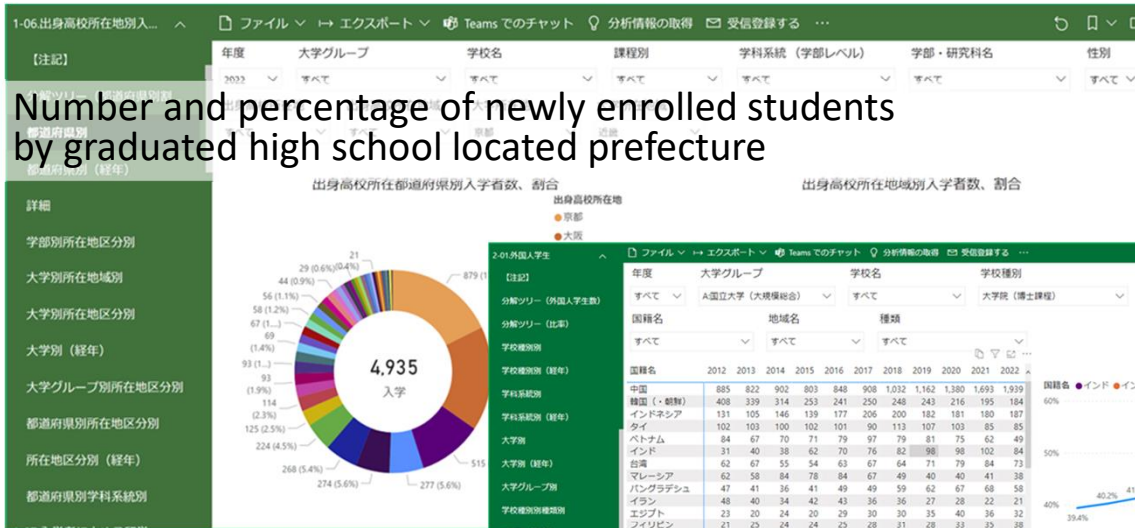
National Institution for Academic Degrees and Quality Enhancement of Higher Education

Providing a resource platform for the analysis of education information and data (1)

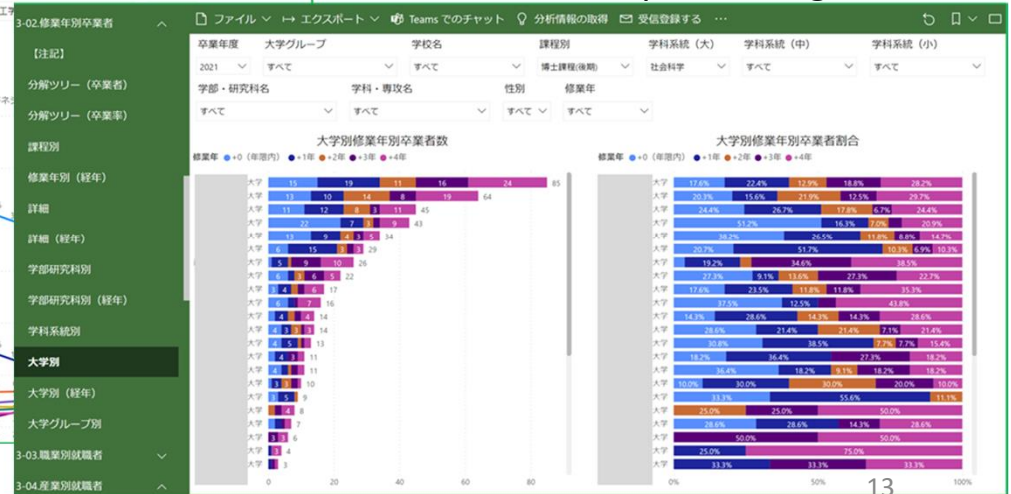
Resource platform for the analysis of Basic University Information

Data from 2012 to 2022

Number and percentage of newly enrolled students by graduated high school located prefecture



Number of graduates by years required for graduation



Percentage of international students by nationality

Percentage of international students by nationality

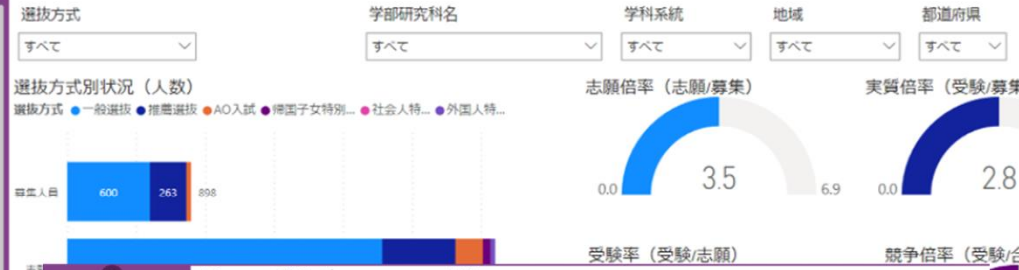


NIAD-QE

National Institution for Academic Degrees and Quality Enhancement of Higher Education

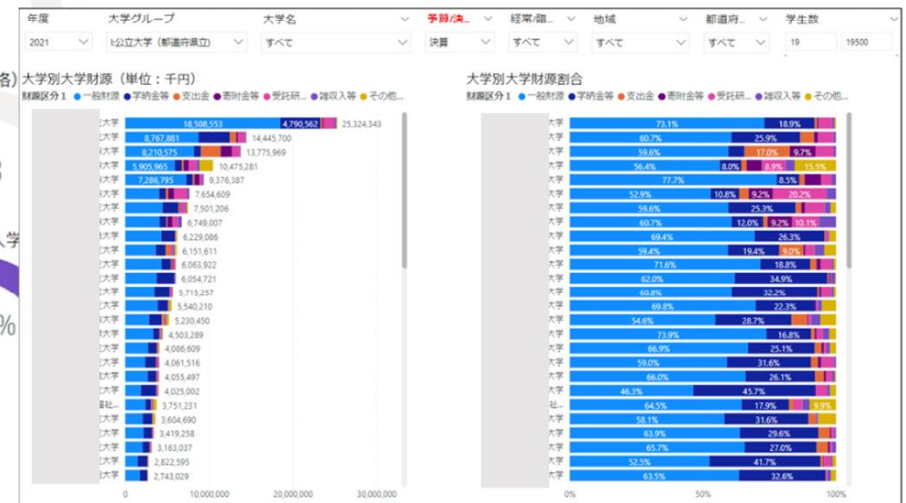
Providing a resource platform for the analysis of education information and data (2)

Number of examinees by selection method

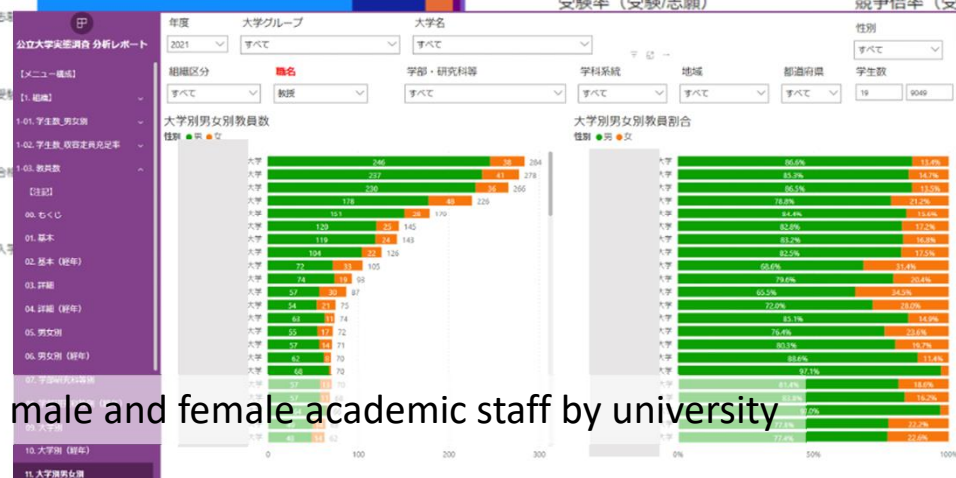


Resource platform for the analysis of Survey of Public Universities

Financial resources by university



Number of male and female academic staff by university



Issues and challenges pertaining to the higher education data at NIAD-QE

- It is necessary to enhance our capabilities at all levels.
 - Expertise in higher education data
 - Understanding the purpose of using higher education data
 - Definition of higher education data
 - Understanding the future development of higher education data
 - Provision of higher education data and interaction with the user community
 - Personnel of the management strategy office, institutional research (IR) office, information infrastructure department, and other departments who handle university data
 - Researchers working with higher education data
 - Service innovation and delivery strategies pertaining to higher education data
 - Meaningful collaboration with public and private entities that operate higher education data management
 - NIAD-QE, The Promotion and Mutual Aid Corporation for Private Schools in Japan
 - National Institute for Educational Policy Research (NIER), National Institute of Science and Technology Policy (NISTEP)
 - National Center for University Entrance Examinations, Japan Student Services Organization (JASSO)
 - The Japan Association of National Universities (JANU), The Japan Association of Public Universities, Japan Association of Public Junior Colleges, The Japan Association of Private Universities and Colleges (JAPUC), Association of Private Universities of Japan (APUJ), The Association of Private Junior Colleges in Japan
 - Certified evaluation and accreditation organizations
 - Non-profit organizations that perform IR and student surveys
 - Private enterprises in the university entrance exam industry, university enrollment information industry, and higher education information industry, etc.

