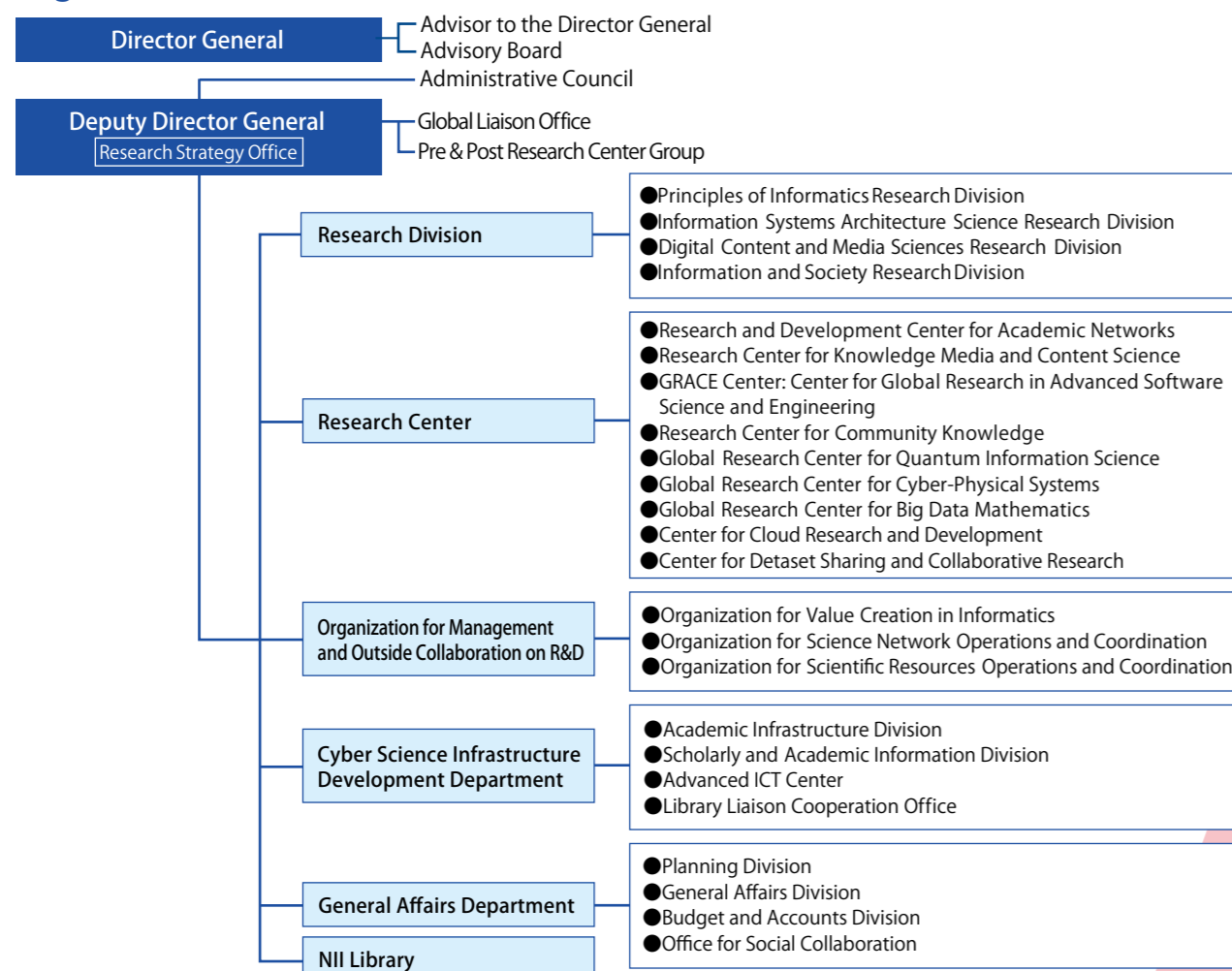## International Activities

The National Institute of Informatics (NII) actively makes International Exchange Agreements(MOU, memorandum of understanding) with overseas universities and research institutions. Among institutions that have concluded MOUs, NII also holds exchange activities such as international joint research projects and interactions between researchers and students. To ensure the effectiveness of these research exchanges, NII has established systems such as the "MOU Grant" and "NII International Internship Program", and promotes research exchanges with overseas universities and other institutions in a wide range of research fields. NII promotes research exchanges through coordination and cooperation, in particular, through the NII Shonan Meeting in the Asian region, and European-based research institutes such as the Japanese- French Laboratory for Informatics (JFLI), and the German Academic Exchange Service (DAAD) program.

Graduate Education

NII joined the Graduate University for Advanced Studies and established the Department of Informatics to provide graduate education (5-year and 3-year Ph.D. programs). The department covers six research areas: Foundations of Informatics, Information Infrastructure Science, Software Science, Multimedia Information Science, Intelligent Systems Science, and Information Environment Science. NII also accepts excellent students from overseas, as we give a large number of lectures in English. In addition, NII cooperates to provide graduate education for students pursuing Master's or Ph.D. degrees at universities in Japan and abroad.

NII
Inter-University Research Institute Corporation
Research Organization of Information and Systems
National Institute of Informatics

2015

Weaving Information into Knowledge

As Japan's only general academic research institution seeking to create future value in the new discipline of informatics, National Institute of Informatics (NII) seeks to advance integrated research and development activities in information-related fields, including networking, software, and content.
These activities range from theoretical and methodological work through applications.
As an inter-university research institute, NII promotes the creation of a state-of-the-art academic-information infrastructure (the Cyber Science Infrastructure, or CSI) that is essential to research and education within the broader academic community, with a focus on partnerships and other joint efforts with universities and research institutions throughout Japan, as well as industries.

Organization

- Director General
  - Advisor to the Director General
  - Advisory Board
  - Administrative Council
- Deputy Director General
  - Research Strategy Office
  - Global Liaison Office
  - Pre & Post Research Center Group

Research Division
- Principles of Informatics Research Division
- Information Systems Architecture Science Research Division
- Digital Content and Media Sciences Research Division
- Information and Society Research Division

Research Center
- Research and Development Center for Academic Networks
- Research Center for Knowledge Media and Content Science
- GRACE Center: Center for Global Research in Advanced Software Science and Engineering
- Research Center for Community Knowledge
- Global Research Center for Quantum Information Science
- Global Research Center for Cyber-Physical Systems
- Global Research Center for Big Data Mathematics
- Center for Cloud Research and Development
- Center for Dataset Sharing and Collaborative Research

Organization for Management and Outside Collaboration on R&D
- Organization for Value Creation in Informatics
- Organization for Science Network Operations and Coordination
- Organization for Scientific Resources Operations and Coordination

Cyber Science Infrastructure Development Department
- Academic Infrastructure Division
- Scholarly and Academic Information Division
- Advanced ICT Center
- Library Liaison Cooperation Office

General Affairs Department
- Planning Division
- General Affairs Division
- Budget and Accounts Division
- Office for Social Collaboration

NII Library

NII
Inter-University Research Institute Corporation
Research Organization of Information and Systems
National Institute of Informatics

National Center of Sciences Bldg.
2-1-2 Hitotsubashi, Chiyoda-ku, Tokyo 101-8430
TEL +81-3-4212-2000
http://www.nii.ac.jp/

■ NII Video Channel
See movies of NII lectures and symposia on NII Video Channel
http://www.nii.ac.jp/event/videos/

■ NII Today
Offers an easy-to-understand guide on the details of NII's advanced research.
http://www.nii.ac.jp/en/about/publications/today/

Subway Toei Shinjuku Line
Subway Hanzomon Line
Jimbocho
Yasukuni-dori Ave.
National Institute of Informatics
Entrance
Jimbocho Sta. Exit (A9)
Kyoritsu Women's University
Gakushi Kaikan
Kanda Keisatsu-dori Ave.
Josui Kaikan
Subway Toei Mita Line
Mainichi Newspapers
Sta. Exit 1b
The National Museum of Modern Art
Takebashi
Subway Tozai Line
National Archives of Japan

[Research]
Seeking to establish a new academic discipline through the promotion and systemization of a wide range of informatics research ranging from natural science to human and social sciences, NII aims to create future value through new theories, methodologies, and application deployment, thereby contributing to the development of informatics.

[Partnerships between industry, academic and government sectors]
NII encourages close partnerships between universities, public research institutions and private institutions to conduct project-based joint studies, as well as human resource development and to promote the utilization of its research results in society.

[Interdisciplinary information processing]
To further the development of new domains through synergistic efforts between cross-functional interdisciplinary research and diverse academic disciplines, NII undertakes cross-functional transdisciplinary integration research at the Transdisciplinary Research Integration Center of the Research Organization of Information and Systems.

[International exchange]
NII strives to further the international contribution of informatics through the active promotion of international exchanges between researchers and students and an approach focused on the formation of an informatics research center through international collaboration, in addition to publishing its research results internationally.

[Social contribution]
NII seeks to achieve harmony between society, culture, and social systems in addition to creating platforms and portals that make effective use of content to disseminate and enliven social and public activities in the field of academic, cultural, education, publishing, environmental, regional, and NPO activities.
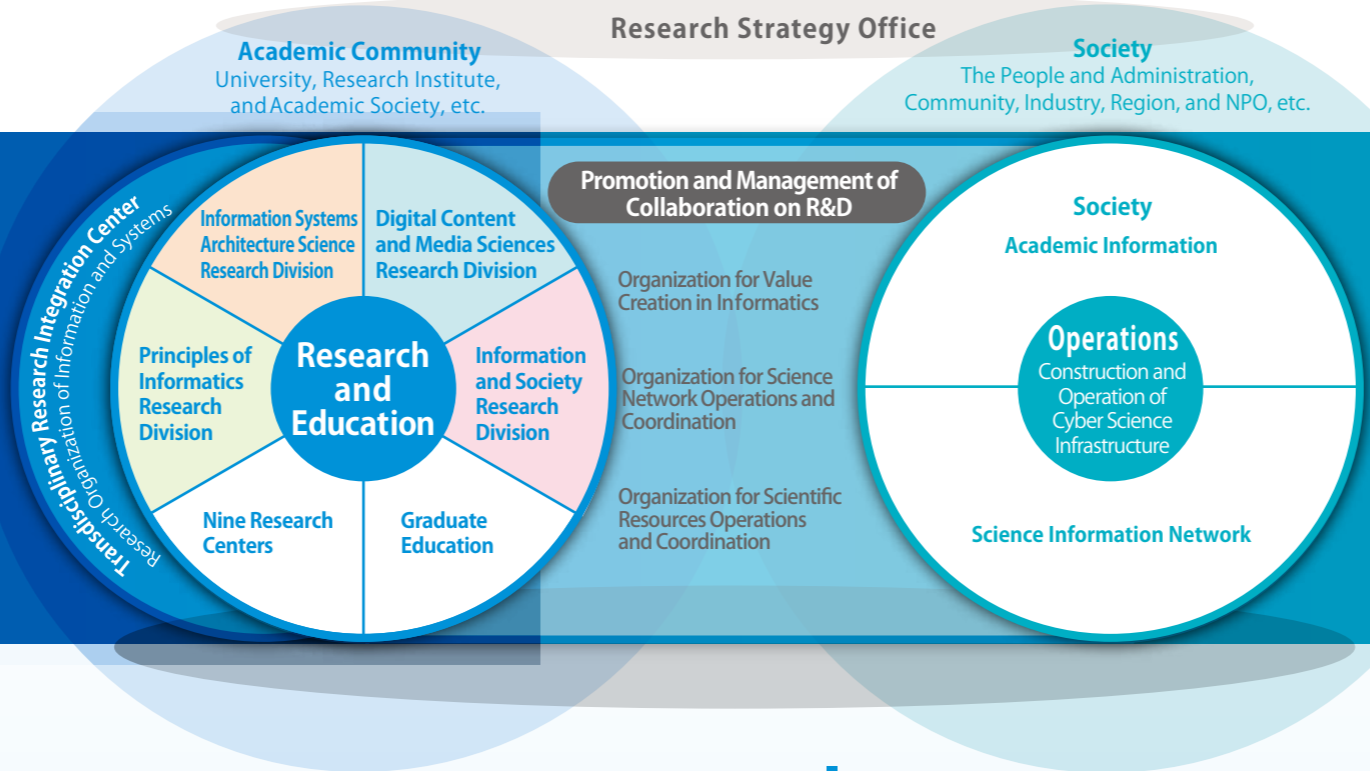
[Graduate education and human resource development]
In the Ph.D. program for informatics in the School of Multidisciplinary Sciences at the Graduate University for Advanced Studies, NII aims to nurture world-class researchers in the field of informatics. We seek also to establish a base for the development of engineers with the skills to link industry with academia as we develop professionals with high-level skills.

Future Value Creation through Informatics by Advancing Research and Operations in Tandem

Research Strategy Office

Academic Community
University, Research Institute, and Academic Society, etc.

Society
The People and Administration, Community, Industry, Region, and NPO, etc.

Advancing integrated research and education in the field of informatics

Informatics is a new academic discipline based not just only on computer science and information technology, but on the human, social, and life sciences. NII advances informatics research with the goals of creating future value; furthering social and public contributions; promoting interdisciplinary approaches to information processing; forming partnerships among industry, government, and academic organizations; and pursuing international research activities and operations. NII has established four research divisions, nine research centers, the Organization for Management and Outside Collaboration on R&D.

Transdisciplinary Research Integration Center
Research Organization of Information and Systems

Research and Education
- Information Systems Architecture Science Research Division
- Digital Content and Media Sciences Research Division
- Principles of Informatics Research Division
- Information and Society Research Division
- Nine Research Centers
- Graduate Education

Promotion and Management of Collaboration on R&D
- Organization for Value Creation in Informatics
- Organization for Science Network Operations and Coordination
- Organization for Scientific Resources Operations and Coordination

Society
Academic Information

Operations
Construction and Operation of Cyber Science Infrastructure

Science Information Network
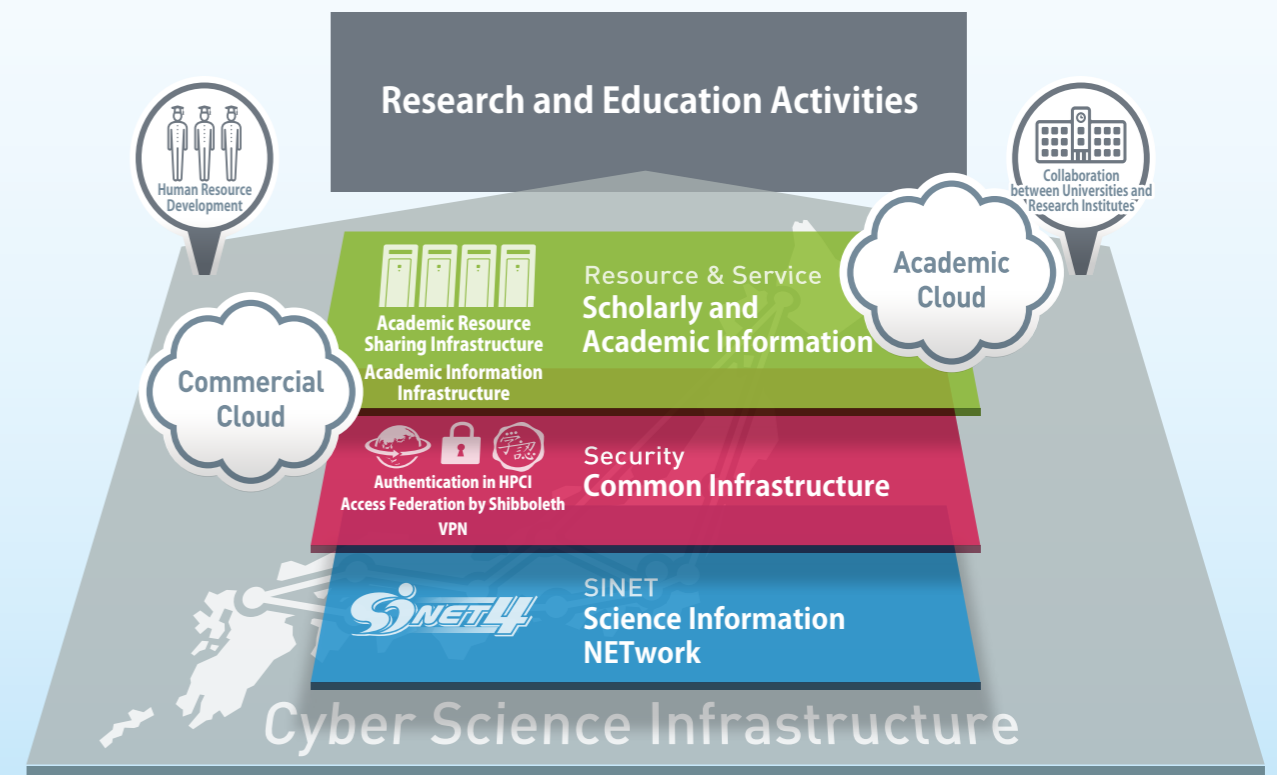
Promoting the Cyber Science Infrastructure (CSI)

NII advances the formation and operation of the CSI, a state-of-the-art academic information infrastructure. Through these efforts, the entire research organization comprising the Organization for Scientific Network Operations and Coordination and the Organization for Scientific Resources Operations and Coordination, that which plan and manage partnerships and cooperation with universities and other institutions throughout Japan; the Cyber Science Infrastructure development Department, that which handles development and operation of information systems; and the research centers that promote researcher participation and incorporation of the results of research contributes to the academic community and the society.

Principles of Informatics Research Division
Seek to discover new principles and theories in informatics, as well as the development of technology and new domains that will support the future society.

Information Systems Architecture Science Research Division
Conduct research in to the architecture and systemization of software and hardware for computers and networks.

Digital Content and Media Sciences Research Division
Conduct research spanning theories on the analysis, generation, accumulation, use and processing methods regarding diverse content and media, such as texts and video images, to their systemization.

Information and Society Research Division
Conduct interdisciplinary research on information and system technology and issues in the human and social sciences in a society in which the information society and the real world are integrated.

Nine Research Centers

Research and Development Center for Academic Networks
Develops and offers new services and functions for increasing the operational efficiency of the Science Information NETwork 4 (SINET4), which constitutes part of the Cyber Science Infrastructure (CSI).

Research Center for Community Knowledge
Develop next-generation information and communications technology and information sharing platform system by creating "Net Commons" and "ReaD&Researchmap".

Global Research Center for Big Data Mathematics
Engaged in cutting-edge research and human capital development to establish NII as a world-class hub for Big Data Mathematics with a central focus on developing high-speed algorithms.

Research Center for Knowledge Media and Content Science
Promote cutting-edge research on the analysis and use of knowledge content in academic fields.

Global Research Center for Quantum Information Science
Promote activities such as cutting-edge research and personnel development to establish NII as a world-class international hub for quantum information.

Center for Cloud Research and Development
Upon the updating of the Science Information NETwork (SINET), we established a cloud-based cutting-edge science information platform to promote research and education, and support university reform.

GRACE Center: Center for Global Research in Advanced Software Science and Engineering
Develop top software engineers and top researchers by integrating research, practical application, and education in advanced software engineering.

Global Research Center for Cyber-Physical Systems
Promote researches on cyber and physical(real) world collaboration aiming at solving social issues and creating new values through the research.

Center for Dataset Sharing and Collaborative Research
Establish and provide datasets useful for informatics research, research and develop platforms for using datasets, and conduct research on joint use in informatics.

Cyber Science Infrastructure

Research and Education Activities

Human Resource Development

Collaboration between Universities and "Research Institutes"

Academic Cloud

Commercial Cloud

Resource & Service **Scholarly and Academic Information**

Academic Resource Sharing Infrastructure **Academic Information Infrastructure**

Authentication in HPCI Access Federation by Shibboleth VPN

Security **Common Infrastructure**

SINET **Science Information NETwork**

SINET4

Cyber Science Infrastructure

Creation of future value through informatics
— Opening up new frontiers

ERATO
Kawarabayashi Large Graph Project

Artificial Intelligence project

Social contribution
— Adding new colors to society though the wisdom of informatics

net commons
NetCommons, an information sharing infrastructure system that can be used by everyone

IMAGINE
"So (thought) – IMAGINE," An associative search that reels cultural memories from diverse sources of information

A place to connect the theories of the university with the actions of the industry

サイエンスによる 知的ものづくり教育プログラム
トップ エス イー
EDUCATION PROGRAM FOR TOP SOFTWARE ENGINEERS

An intellectual monozukuri (manufacturing) education program based on science Nurturing outstanding software engineers by the TOPSE Project

Supporting academic research and educational activities
— Promotion of the Cyber Science Infrastructure (CSI)

SINET4
SINET4 Science Information NETwork

JAIRO Cloud
JAIRO Cloud, a SaaS type IR cloud service

GakuNin
The Academic Access Management Federation in Japan

CiNii
Indispensable Tool for Researchers and Students