



Title	Development of Cyber Science Infrastructure (CSI)
Author(s)	Murakami, Yuko; Ojiro, Koichi; Adachi, Jun
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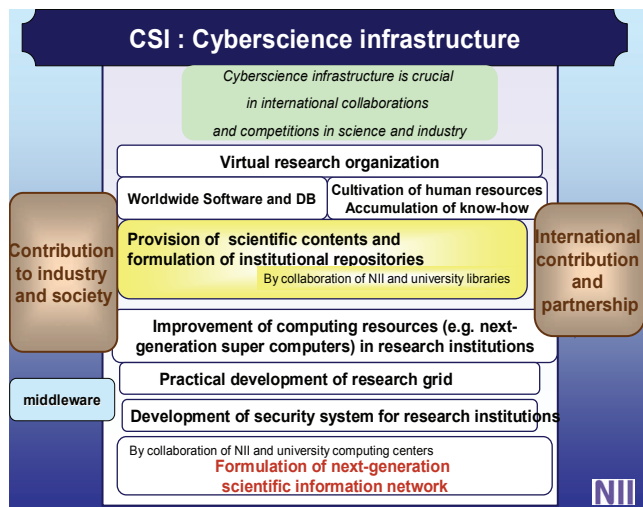


MURAKAMI Yuko, OJIRO Koichi, ADACHI Jun

{murakami, ojiro, adachi}@nii.ac.jp

National Institute of Informatics

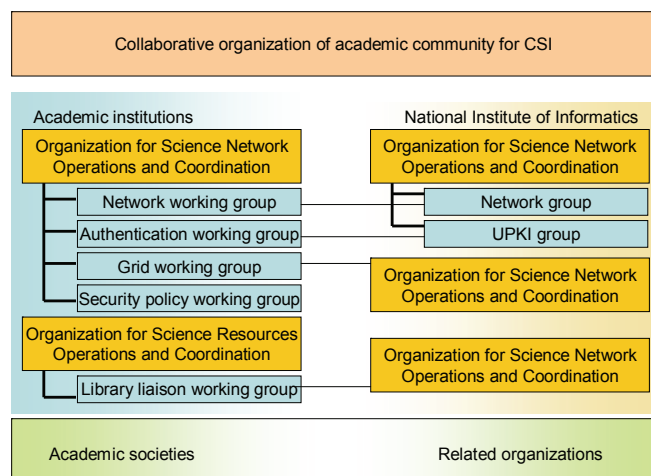
2-1-2 Hitotsubashi, Chiyoda-Ku Tokyo, 101-8430 JAPAN



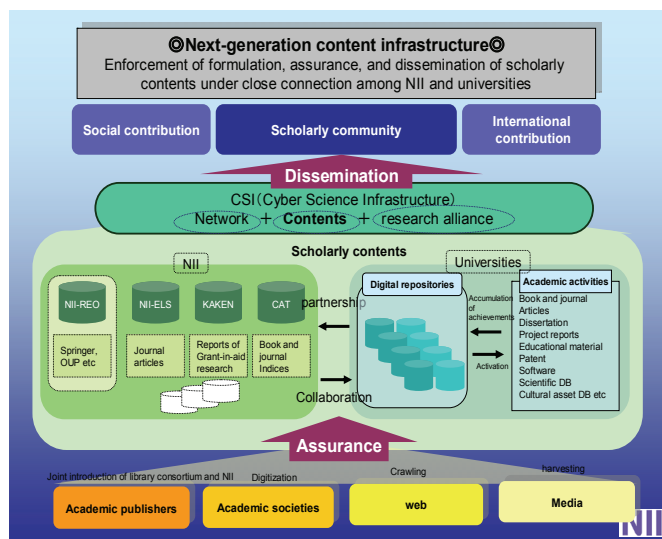
●Cyber Science Infrastructure (CSI)

- Science Information Network SINET3: 40Gbps highly reliable network<Organization for Science Network Operations and Coordination>
- Integrated middleware for CSI<Center for Grid Research and Development>
- Next-generation scientific content infrastructure, content service<Organization for Scientific Resources Operations and Coordination>
- UPKI (University Public Key Infrastructure) joint public key infrastructure for universities <Organization for Science Network Operations and Coordination>
- E-Science Project

NII is promoting the development of the Cyber Science Infrastructure (CSI) **through cooperation with universities and other organizations**, in order to vitalize Japan's academic research and educational activities and to further strengthen whose international competitiveness. CSI is an information environment that incorporates and utilizes various research activities and results from universities and research institutions such as supercomputers and other distinctive scientific utilities and resources, scientific software and databases, and human resources over a super high-speed network, transcending the borders of organizations or scientific fields. This infrastructure will guarantee an environment that enables the promotion of cutting-edge higher education as well as research and development of technology in universities, research institutions, and industry. The NII put in strategic efforts to the following three areas within the framework of the CSI, as expanding the various development projects and operations it has ever implemented.



- 1 . Establishment of **next-generation academic networks**, their infrastructure for grid environment nationwide authentication systems through cooperation between the NII, the university IT centers and other organizations
- 2 . Establishment of **the infrastructure for next-generation scientific resources** through cooperation between the NII, university libraries and other organizations
- 3 . Formation of **a nationwide informatics research alliance** for future value creation The NII, universities and other research institutions will collaborate and cooperate closely to facilitate the above, and Japan's academic community will work as one to prepare and vigorously promote the framework for advancing CSI construction.



Next-Generation Academic Information Infrastructure Support for institutional repositories

GeNii/ Catalog information service
NII electronic journal repository
SPARC Japan /Scitern
Academic society home village

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