Global Knowledge Sharing and Roles of Educational Institutions

Yuichiro Anzai Senior Advisor, National Institute of Informatics Former President, Keio University

30 September 2009, Tokyo International Workshop on Information Systems for Social Innovation 2009 National Institute of Informatics

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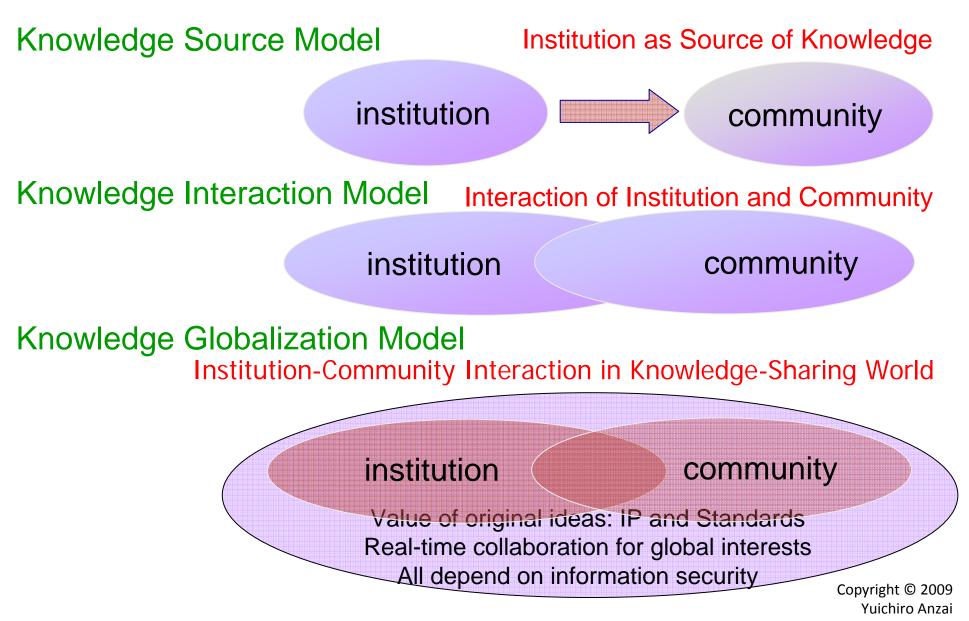
Change of the World and Higher Learning Environment

- Increasing diversity, complexity, and necessity of thoughtful mediation in politics, economy, foreign policy and social systems; nation, ethnicity, language, culture, religion and other (increasing number of) dimensions for diversity and complexity.
- Increasing speed and personalizability of communication media.
- Increasing size and complexity of databases, or the amount and the structure of knowledge shared globally across borders.

Change of the World and Higher Learning Environment

- People who think and act independently and collaboratively at the same time.
- Open and real-time communication for understanding each other, and for discovering and solving problems in the world.
- Creation, accumulation and distribution of knowledge logically and semantically robust enough against abuse of information, and spatio-temporally stable enough for peace, sustainability, and prosperity of our globe.
- Needs of learning environment for nurturing people who can be both independent and collaborative.
- Needs of globally distributed infrastructure for global communication and knowledge sharing based on innovative digital communication networks.
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Innovation through Institution-Community Collaboration



SOI (School On Internet) Asia

-based on satellite Internet technology

24 Partner Universities in 12 Countries

Thailand

Chulalongkorn University, Asian Institute of Technology, Chulachomklao Royal Military Academy, Prince of Songkla University Laos

National University of Laos Myanmar

University of Computer Studies

Brawijaya University, Sam Ratulangi University, Hasanuddin University Kampus Tamalanrea, Institut Teknologi Bandung, Universitas Syiah Kuala Malaysia

Universiti Sains Malaysia, Asian Institute of Medicine, Science & Technology

Vietnam

Institute of Information Technology Philippines

Advanced Science and Technology Institute, University San Carlos

Nepal

Tribhuvan University

Cambodia Institute of Technology of Cambodia University

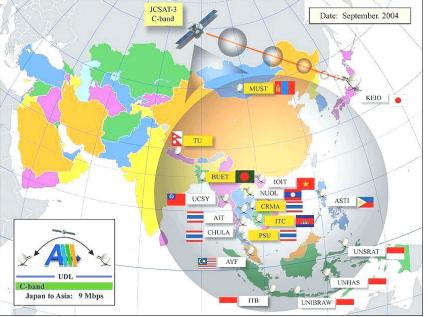
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Bangladesh University of Engineering and Technology Mongolia

Mongolian University of Science and Technology

<u>J</u>apan

Tohoku University, Tokyo University of Marine Science and Technology, Japan Advanced Institute of Science and Technology, Keio University





Brawijaya University, Indonesia



Indonesia



Indonesia



Asian Institute of Technology, Thailand



National University of Laos, Laos



Asian Youth Fellowship,



Chulalonkorn University, Thailand





Chulachomklao Royal Military Academy Thailand



Tribhuvan University, Nepal







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Advanced Science and University of Computer Technology Institute, Philippines



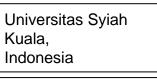
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University San Carlos,





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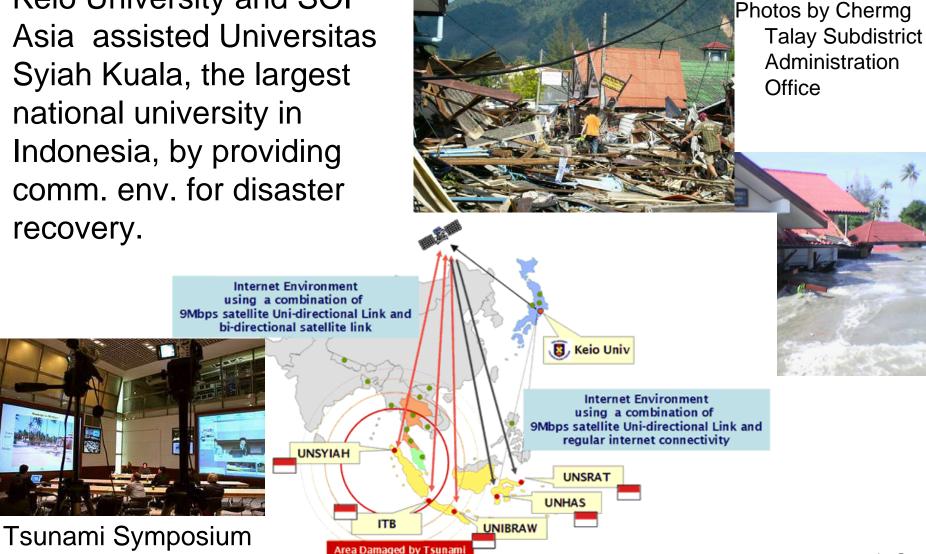
Prince of Songklang University Thailand



Institute of Technology of Cambodia, Cambodia

Understanding and Solving Real-world Problems at SOI Asia -Tsunami Disaster Recovery Project

Keio University and SOI Asia assisted Universitas Syiah Kuala, the largest national university in Indonesia, by providing comm. env. for disaster recovery.



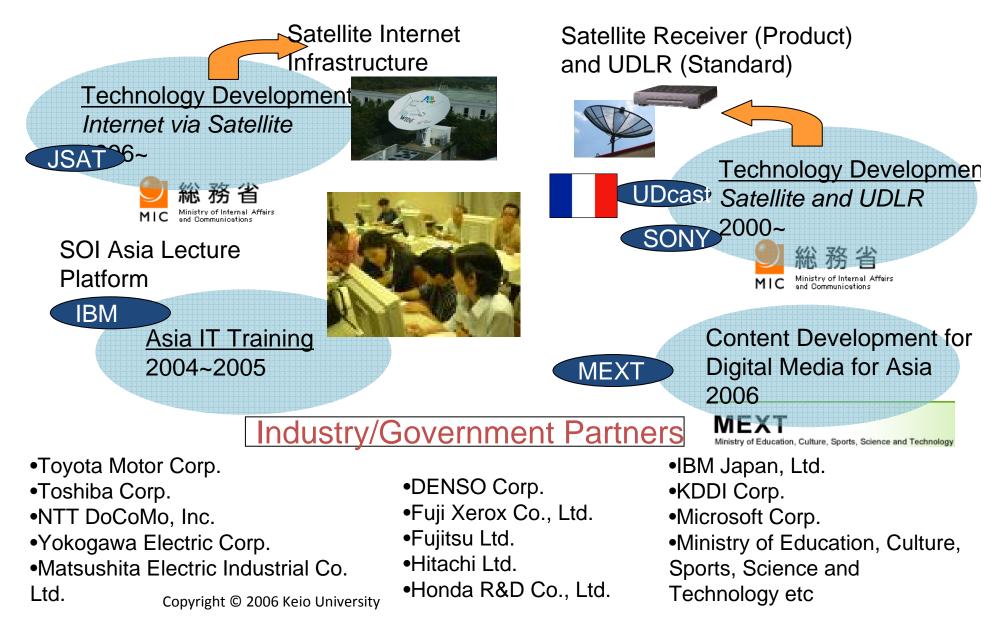
on SOI Asia network

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Remote e-Learning System for SOI Asia

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Industry-government-academia Collaboration for SOI Asia



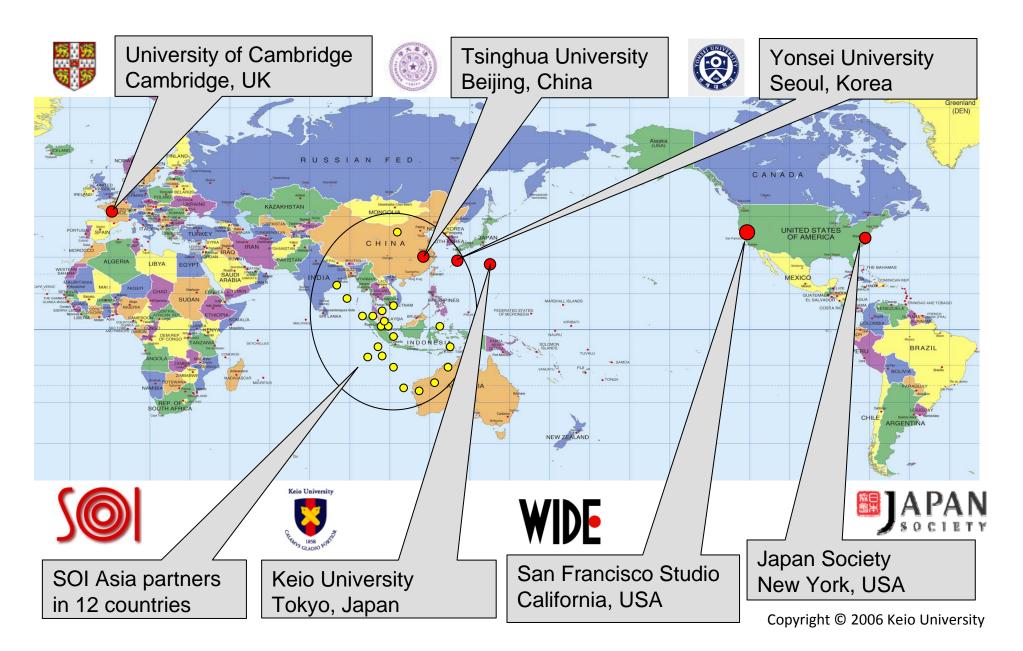
Operator Training for SOI Asia



Annual SOI Asia Operators Workshop (in 2005 at Brawijaya University, Indonesia, for the photo)

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Global Digital Studios (as of 2006)



What are Global Digital Studios?

• Studios are:

- Standardized digital communication spots
- ✓ With high quality digital video/audio facilities
- Located in key places for handling digital content
- Connected to each other through a global digital network
- Shared by diverse education and research communities
- Interoperable since they adhere to the same standard
- Autonomously operated by each partner
- Registered as shared resources among partners.
- Partner institutions can:
 - Make use of any/all registered studios for any convenient occasion through very simple procedures.

Examples of Self-operated Global Digital Studios

Studio at Tsinghua University

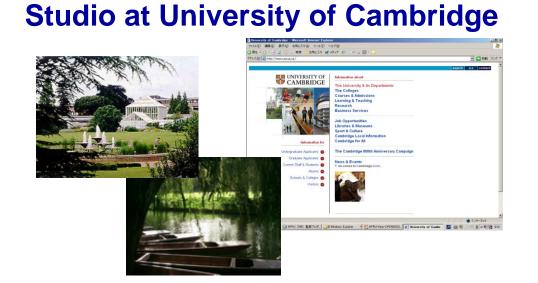




Studio at Yonsei University



Studio at Japan Society





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Studio at Keio University

- ✓ Location: Tokyo, Japan
- ✓ Operated by: Keio University
- ✓ DVTS and Polycom / Multipoint capable
- ✓ IPv4/IPv6
- ✓ Re-constructed in February 2006





Global Digital Studios Provide Excellent Opportunities

Creation and Distribution of Contextual Digital Content

✓ Digital content with context, such as real-time images, video clips, audio tapes, movie programs, animation programs, sport, music, performances, scientific experiments or other scenes, books, journals, reports or other edited pages of documents, a series of digitalized pictures or photographs, promotion videos for universities, industries, governments, and so on.

Knowledge Sharing in the Global Community

✓ Contextual digital content could constitute an enormous portion of our body of knowledge, to be shared & used for many purposes in global & local communities.

Research and Development

✓ How to create, store, send, distribute, share, retrieve, edit, use, & profit from contextual digital content in a global community is an open & challenging issue for R&D in media technology, human-machine interaction, knowledge handling, business management, financing, legal systems & others.

Benefits for Society

✓ Industries for contextual digital content are generally labor-intensive and/or cost-inefficient; better technologies & management will produce greater benefits for society.

Human Resources

✓ There are very few professionals in universities, industries or governments who can design and manage contextual digital content and its large-scale platforms. Thus, universities need to take a decisive role. Copyright © 2006 Yuichiro Anzai

Intellectual Property Rights and Standards related to Global Knowledge Sharing

✓Copyright Protection & Promotion of Distribution

 Encouraging the improvement and clarification of contractual practices in business and academia

Supporting the development of content protection schemes

✓ More control over copyright infringement

✓ Establishment of a legal framework for dealing with transborder copyright infringements

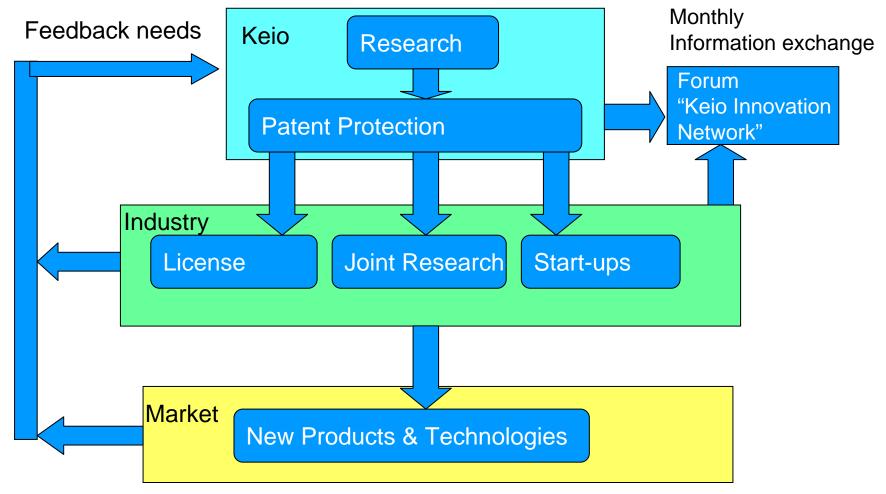
✓ Stricter control over P2P-based infringements

✓ Proactive efforts for international standardization

✓ Improving awareness of the importance of standardization, including training of standardization specialists
 ✓ Promoting collaborative research for the establishment of international standards

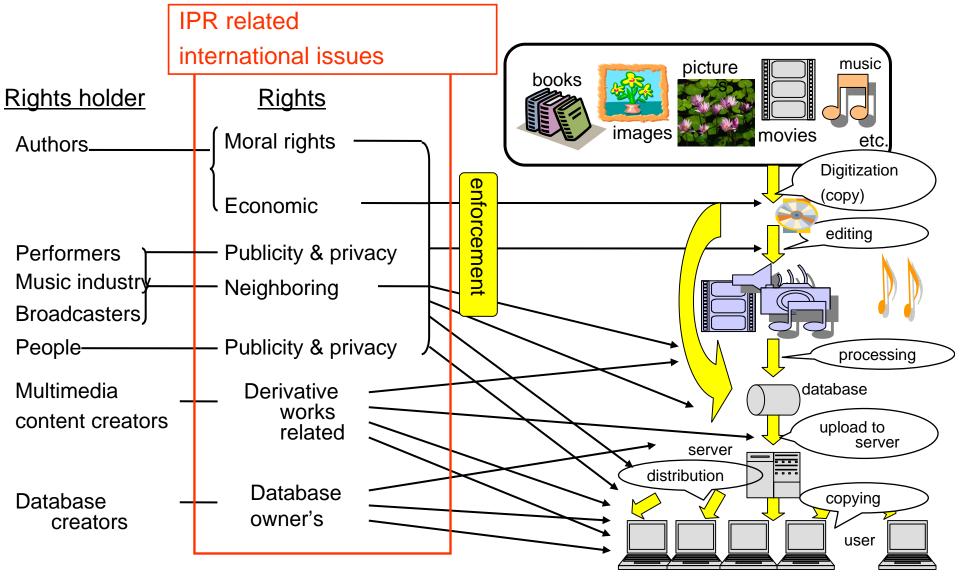
Intellectual Property Center at Keio University

Key Mission: to convert "research results" to commercial products & technologies in order to disseminate Keio's knowledge to the public



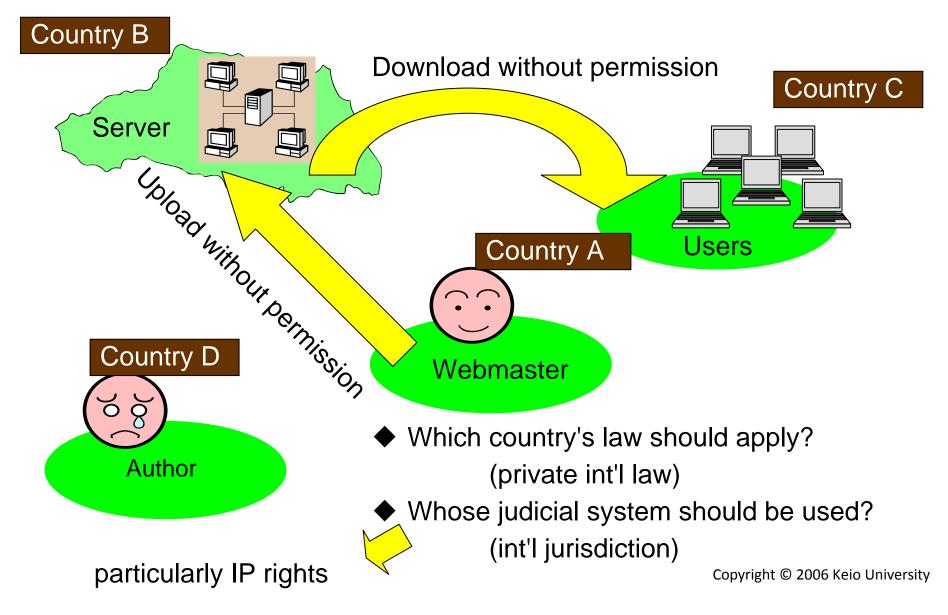
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IPR related International Issues



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IPR related International Issues: An Example



Contribution to International Standardization: An Example

Contribution to International Digital Cinema Standard

- Approved as an international standard by DCI (Digital Cinema Initiative)
- Newest system adopting JPEG2000
- ✓ Can deliver hi-res Digital Cinema imagery (3840x2048)





4K Digital Cinema "Birthday Cake"

O O Cine	LIVE N	AB Get all of you
	gital Cinema Design In Motion Director's 2-popHD.com SonyMPEG-IMX.com S	World Editor's Net Post Industry VF3 onyUSACineAlta.com SonyUSADVCAM.com
PC Home	News	
Go	D-Cinema's 2K to 4K Future	
	By Sheigh Crabtree	
ee Newsletter	Feb 10, 2003, 16:06 PST	
Text C HTML Submit Remove	RANCHO MIRAGE, Calif High definition video may be television's rising star, but it doesn't have the right look for digital cinema. That's the consensus drawn by members of Digital Cinema Initiatives, originally dubbed NewCo Digital Cinema, the seven-studio consortium formed last	
ee Subscription	May to set uniform technical specifications and define business	
diakit	models for deploying d-cinema	HPA d-cinema panelists (from left):
bs	systems.	Walt Ordway (Digital Cinema Initiatives); David Schnuelle (Dolby);
rums	DCI's brief progress report on future specs which will ultimately	Doug Darrow (Texas Instruments); Charles Swartz (USC's ETC); Charles Poynton (author);
nd News to Editor stina@creativeplanet.com	influence the industry's digital cinema workflow, distribution and	Glenn Kennel (Kodak). Click for large image
PC Contact info	projection efforts - was revealed duri Alliance Technology Retreat on Satur	

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Content Industries and Content Management Policy



Post production, editing, encoding

- Dedication to a specific area
- New competition & collaboration
- Alliance of industry and academia
- Paradigm-shift to a new business model
- Needs for strategy, leadership & policy to encourage momentum

Audience, subscribers

Content

storage

Content distribution, hosting service

Content rights management, new advertising scheme, new business model

Delivery through the network

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Content Industries and Content Management Policy

Different types of content go digital in different ways

✓ Text and Picture
 ✓ Text
 ✓ Picture
 ✓ Photo
 ✓ 2D- and 3D- graphics

✓ Sound
 ✓ Music
 ✓ Speech
 ✓ Lecture
 ✓ e-Learning text

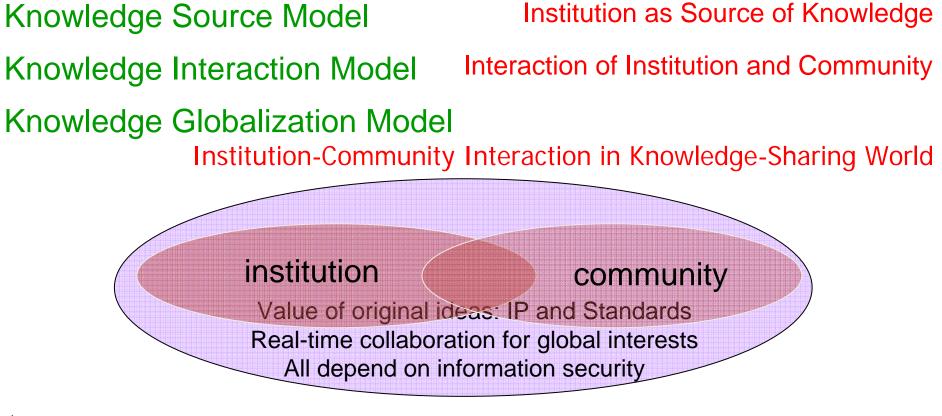
✓ Motion Picture
 ✓ Movie
 ✓ Video
 ✓ 2D- and 3D-graphics
 ✓ e-Learning Content
 ✓ News
 ✓ Drama
 ✓ Animation

✓ Multimedia Title
 ✓ TV Game
 ✓ Encyclopedia, Almanac
 ✓ Virtual Environment

Issues in Global Knowledge Sharing: Examples

- Regulation against sending moving images with pictures and sounds for remote education
- Regulation against heavily repeated use of commercial videos/films for educational purposes
- Rapid shift to oligopolization of copyrights and publication rights for academic products
- **Difficulty in cooperation** with content industries
- Difficulty in coping with heavy load to digitize paper and film products
- Underdevelopment of secured global communication networks with reasonable cost
- Underdevelopment of international and domestic laws for copyright, publication right, and distribution of information
- Underdevelopment of protection systems for information security
- Difficulty in standardization of formats and handling procedures for to-beglobally-shared materials
- Others

Global Knowledge Sharing: Roles of E&R Institutions



- Respect for Values of Originality and Creativity
- Nurturing Humans with Global Knowledge, Wisdom and Sincerity
- Globally Significant Academic Production and Archiving
- Social Innovation and Contribution to Global/Local Societies
- Collaboration for Solving Global/Local Issues

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