

Research on DHX (Digital Heritage Exchange)

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Research Issues

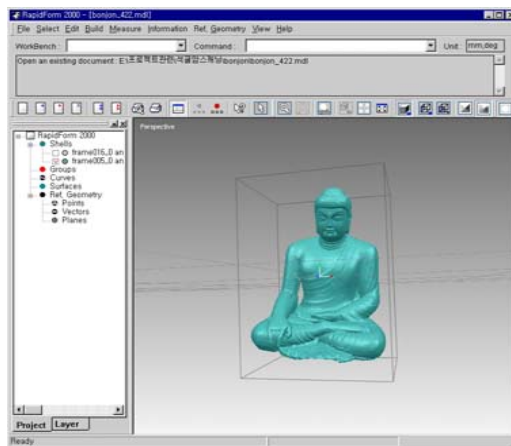
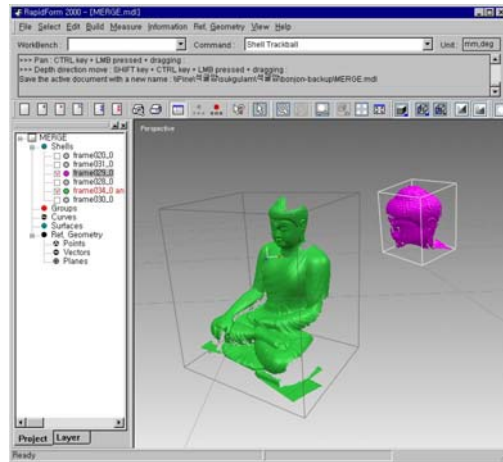
- *How to Model VH*
- *How to Manage VH*
- *How to Present VH*

- *How to use Network*
for the Share and Exchange of VH

Virtual Heritage & Contents

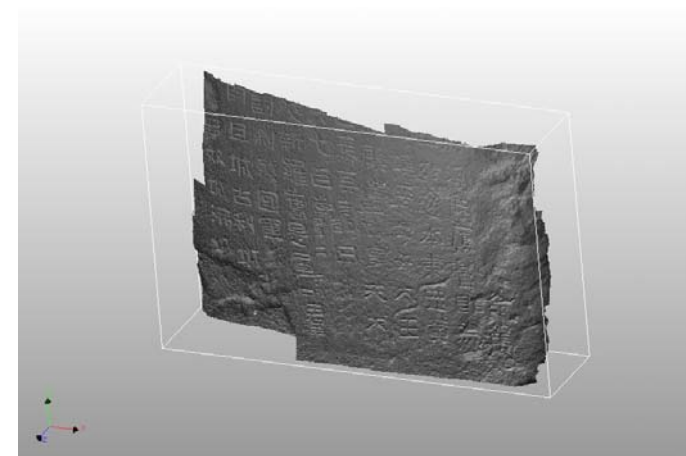
- **3D Modeling**
 - Image-based 3D Modeling (IBM) Approach
 - 3D Laser Scanning Approach
- **Camera Imaging**
 - Infrared Reflectography: Mural Painting
 - X-Ray Imaging: Old Sword
 - Digital Camera: Panorama, TIP

UNESCO World Heritage 新羅 (BC57– AD935) SukGulAhm



高句麗 (BC37 ~ AD668) Stone Monument (廣開土大王碑 Replica) KIST

Korea Institute of Science and Technology



KIST, Solutionix Co., & Inus Technology Inc.

百濟 (BC18 ~ AD660) Stone Monument (砂宅智積碑, Original)

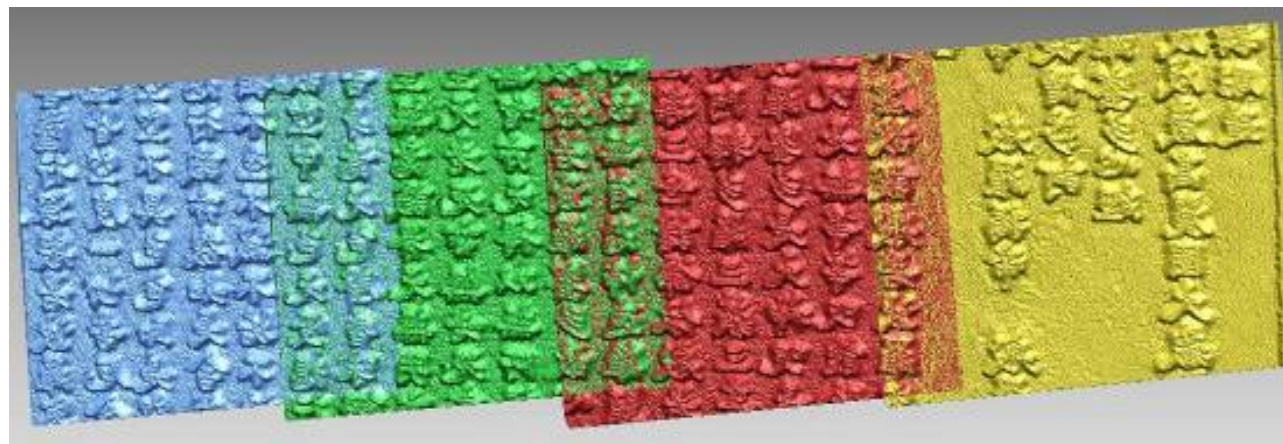
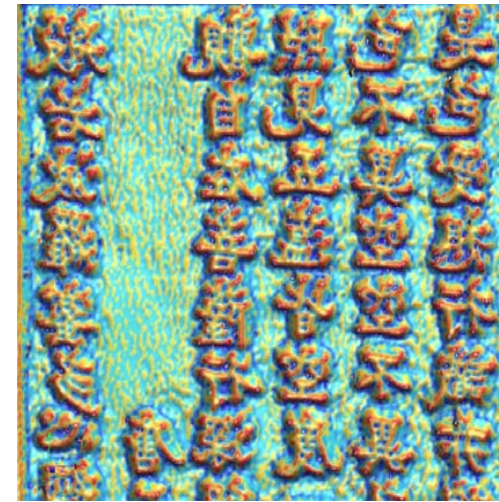


KIST, Solutionix Co., & Inus Technology Inc.

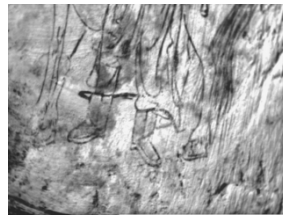
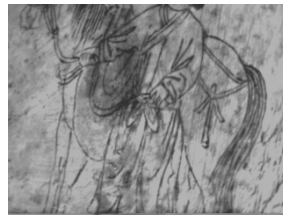
高麗 (AD918- AD1392) Wooden Block Monument

The Tripitaka Koreana consisting over eighty thousand blocks

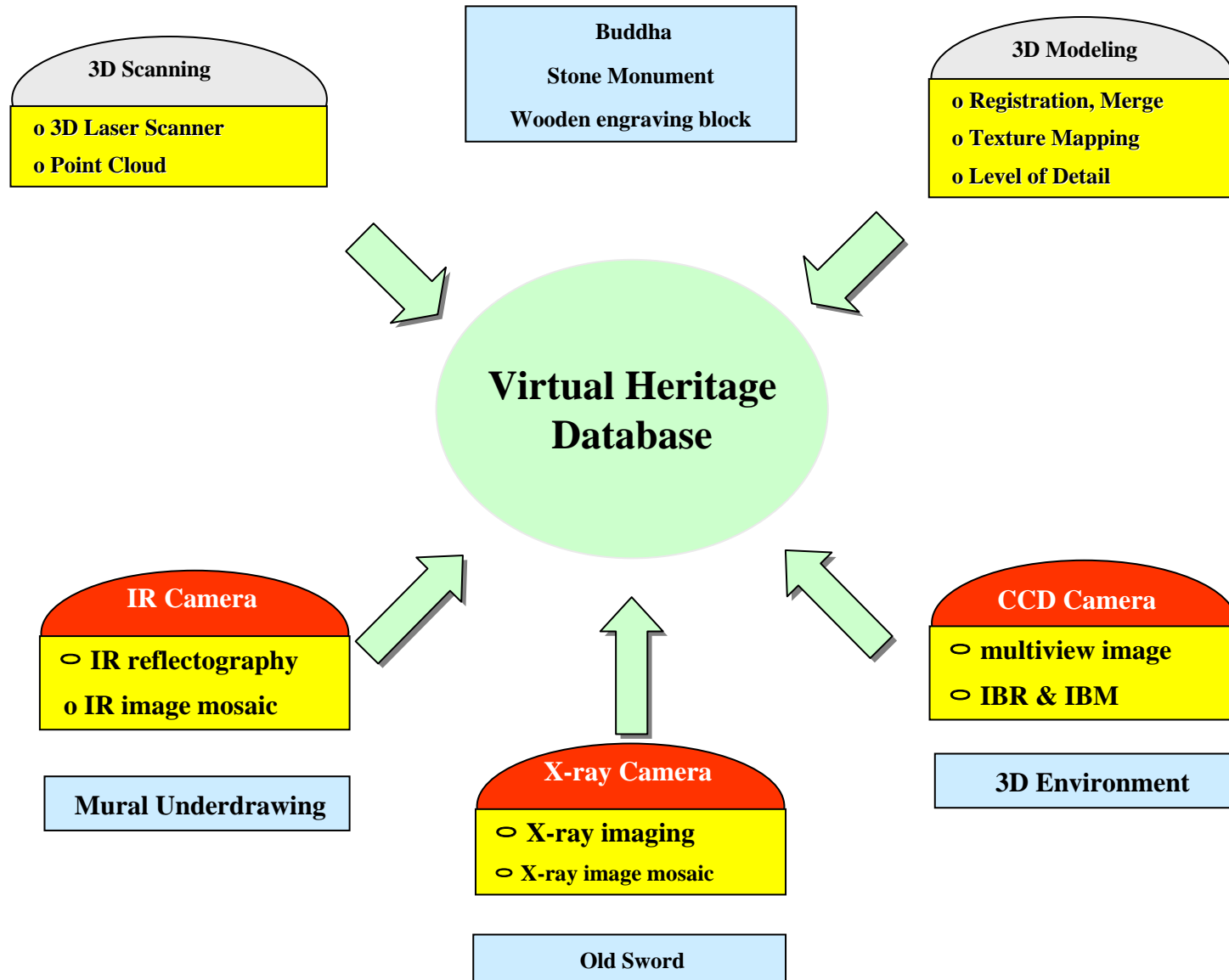
(八萬大藏經 Replica)



李朝 (AD1392~ AD1910) Mural Underdrawings



Virtual Heritage Database

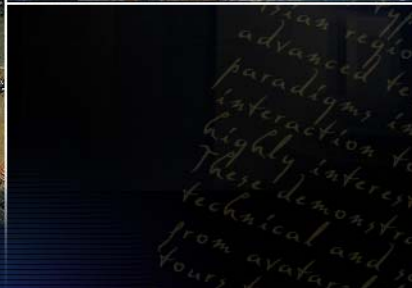


DHXY

digital artistic and ecological heritage exchange
transcontinental Guidance and Exploration in globally shared cultural heritage



Presentation



Overview of DHX

- **The 3rd ASEM Meeting, Seoul (2000, 10)**
 - **Direct Networking Issue b/w Asia and Europe**
 - **TEIN (Trans-Eurasia Information Network)**
 - **Cyber Silk Road**

- **IST Program Research Project**
 - **Research Member Consortium with EU**
 - *Digital Artistic and Ecological Heritage Exchange (DHX)*
transcontinental Guidance and Exploration in globally shared cultural heritage

- **Research Period: 2002. 4. 1 ~ 2005. 3. 31 (3Yr)**

- **Budget: 5,174,000 Euro (Korea: 1,282,100 Euro)**



IST-2001-333476

DHX

Digital Artistic and Ecological Heritage Exchange:
transcontinental Guidance and Exploration in globally shared
cultural heritage

IST Key Action III – Multimedia Contents & Tools
Action Line III.5.1 x-Contents futures
(Shared-cost RTD)

KIST Matching Project

2001-2002: 3D Cyber Museum Technology, MIC

2003-2005: Tangible Space Initiative (TSI), KIST



Fraunhofer Institut
Medienkommunikation

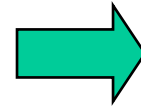


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Dipartimento di Scienze dell'Informazione



Research Direction

- Cultural Heritage (traditional)
 - Single site
 - Limited knowledge/heritage sharing and discussion
 - Multimedia animations / terminals

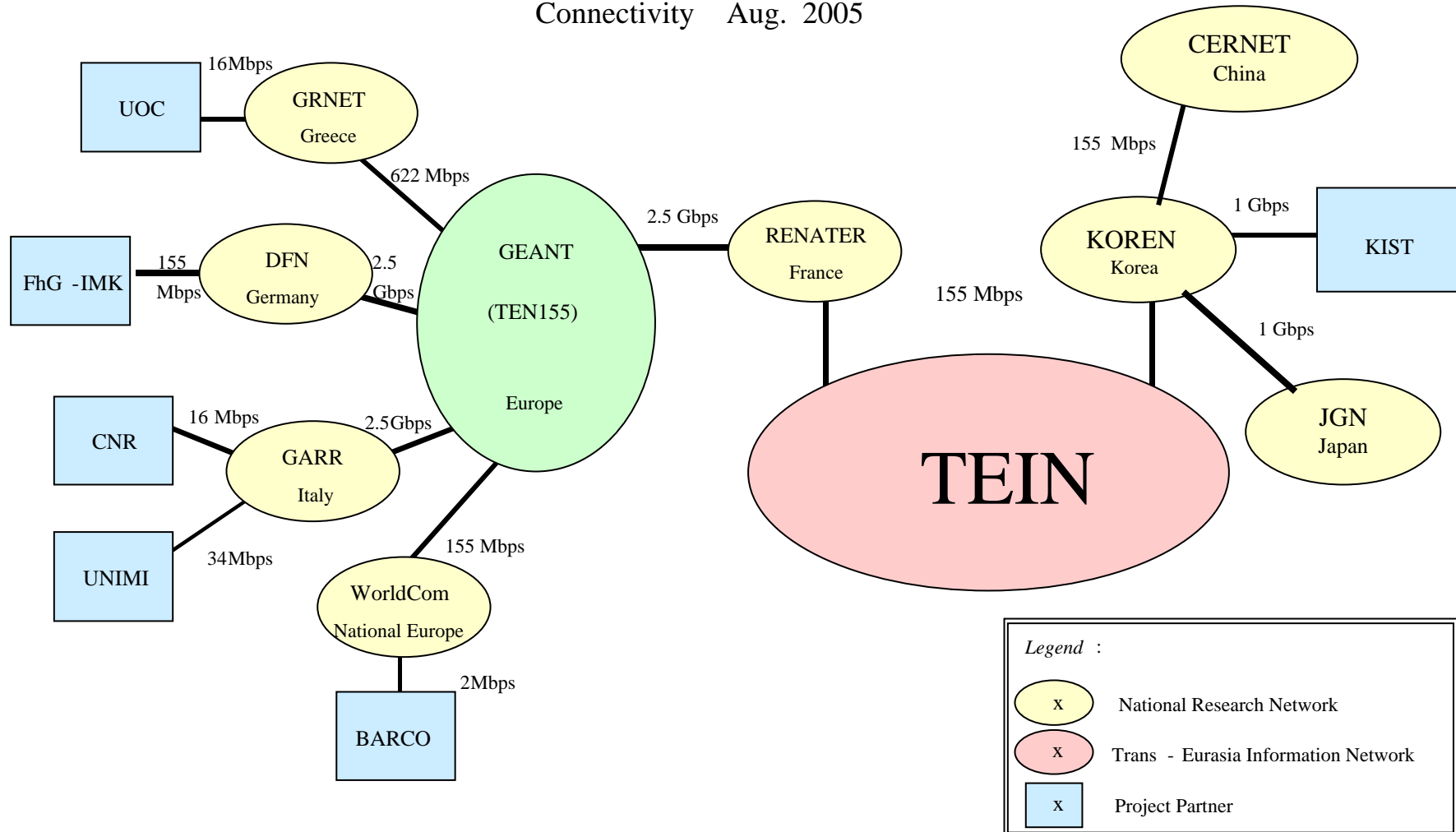


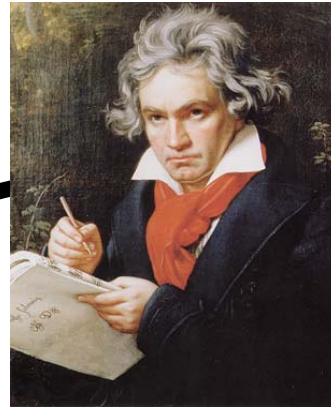
⊕ Virtual Reality

- Multiple site, distributed
- Highly collaborative and interactive knowledge / heritage sharing and discussion
- New era of museum applications
- Added value for industry

Network Connectivity b/w Asia & Europe

Connectivity Aug. 2005





Digital Beethoven (Bonn)



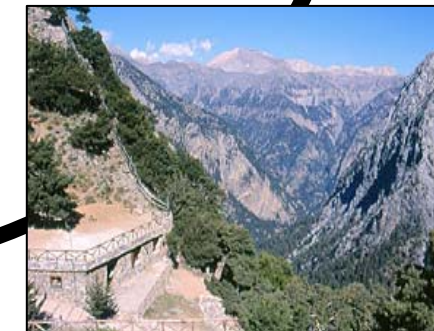
Shilla Culture



Baptistry of Pisa



Milano Theatre



Samaria Gorge (Crete)


http://www.eurasian-dhx.org

DHX Website | background - Microsoft Internet Explorer

파일(F) 편집(E) 보기(V) 즐겨찾기(A) 도구(T) 도움말(H)

뒤로 - - - - - 검색 ☆ 즐겨찾기

주소(D) http://www.eurasian-dhx.org/background.htm



background | project outline | partners | publications

public material | contact

Background

[What is DHX?](#)
[Benefits](#)
[Contents](#)
[How does it work?](#)
[Events and demonstrations](#)

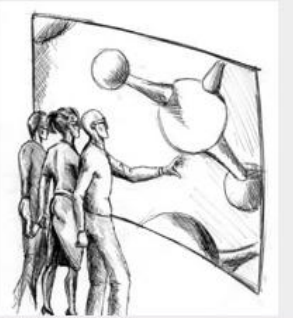

This section introduces the different aspects of the project. If you are interested in more details, please also visit the [project outline](#) section.

What is DHX ?

DHX stands for Digital Artistic and Ecological Heritage Exchange, a research project, funded by the European Union. We aim at developing a virtual platform for museums to create, display and share cultural content with each other.

The DHX platform is a new way to present cultural and natural heritage from all over the world. The visitor is given the opportunity to experience a variety of contents inside an attractive three-dimensional immersive virtual reality environment.

Virtual reality technology allows the reconstruction and deployment of artifacts far in space and time: Along a virtual tour the visitor feels the presence of inaccessible objects and environments or gains access to additional layers of information that complements an existing exhibition.

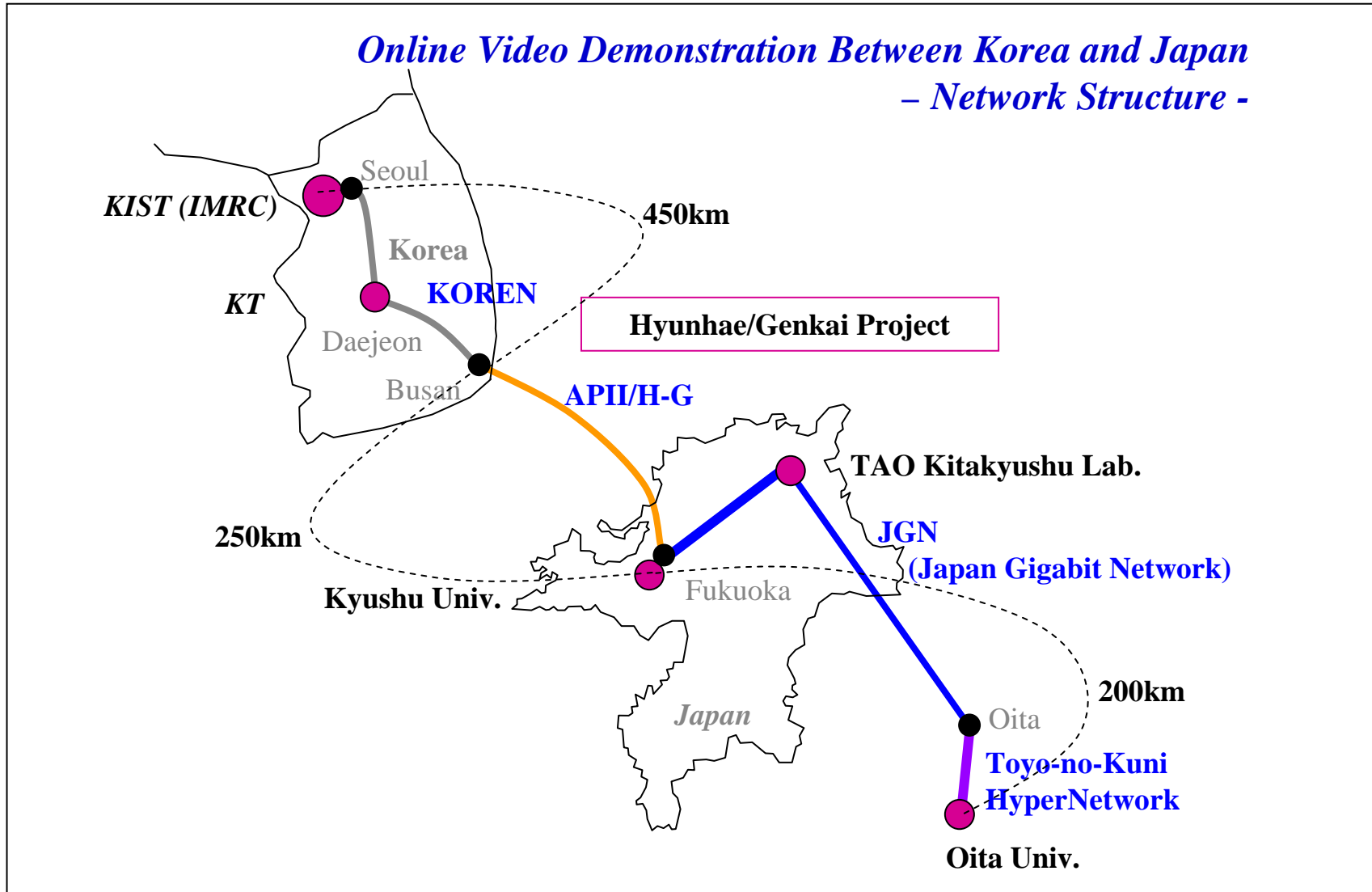


시작 | 발표-20041029 | DHX Website | ba...

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Asian DHX

Networking b/w Korea-Japan



Virtual Heritage Introduction to Oita, Japan ('03.06.10)

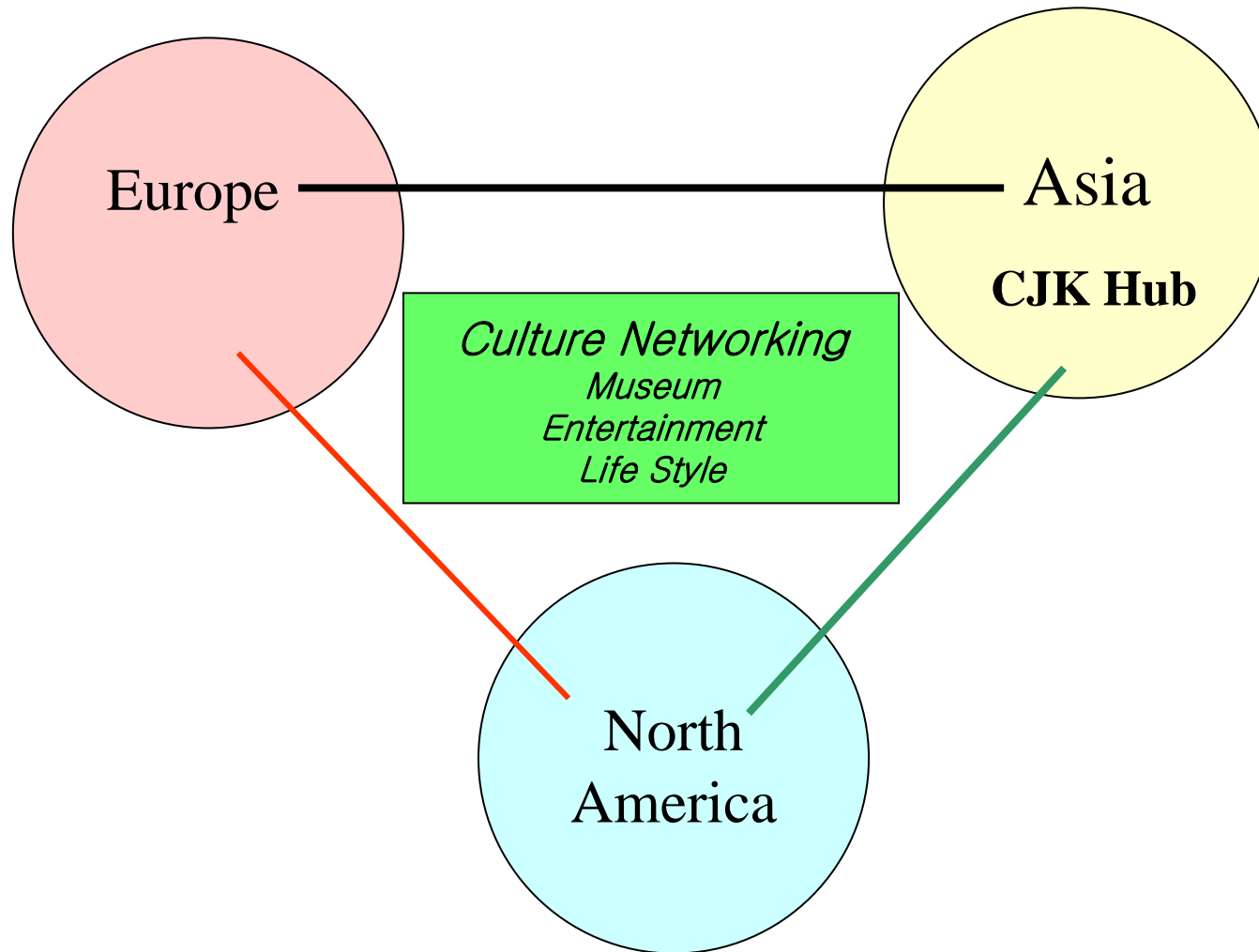
DVTS connection
with KIST/IMRC

H.323 conference connection
With Kyushu Univ. (Japan) & KT (Korea)



Meeting Place (Oita, Japan)

Future Research Direction





Thank you !
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