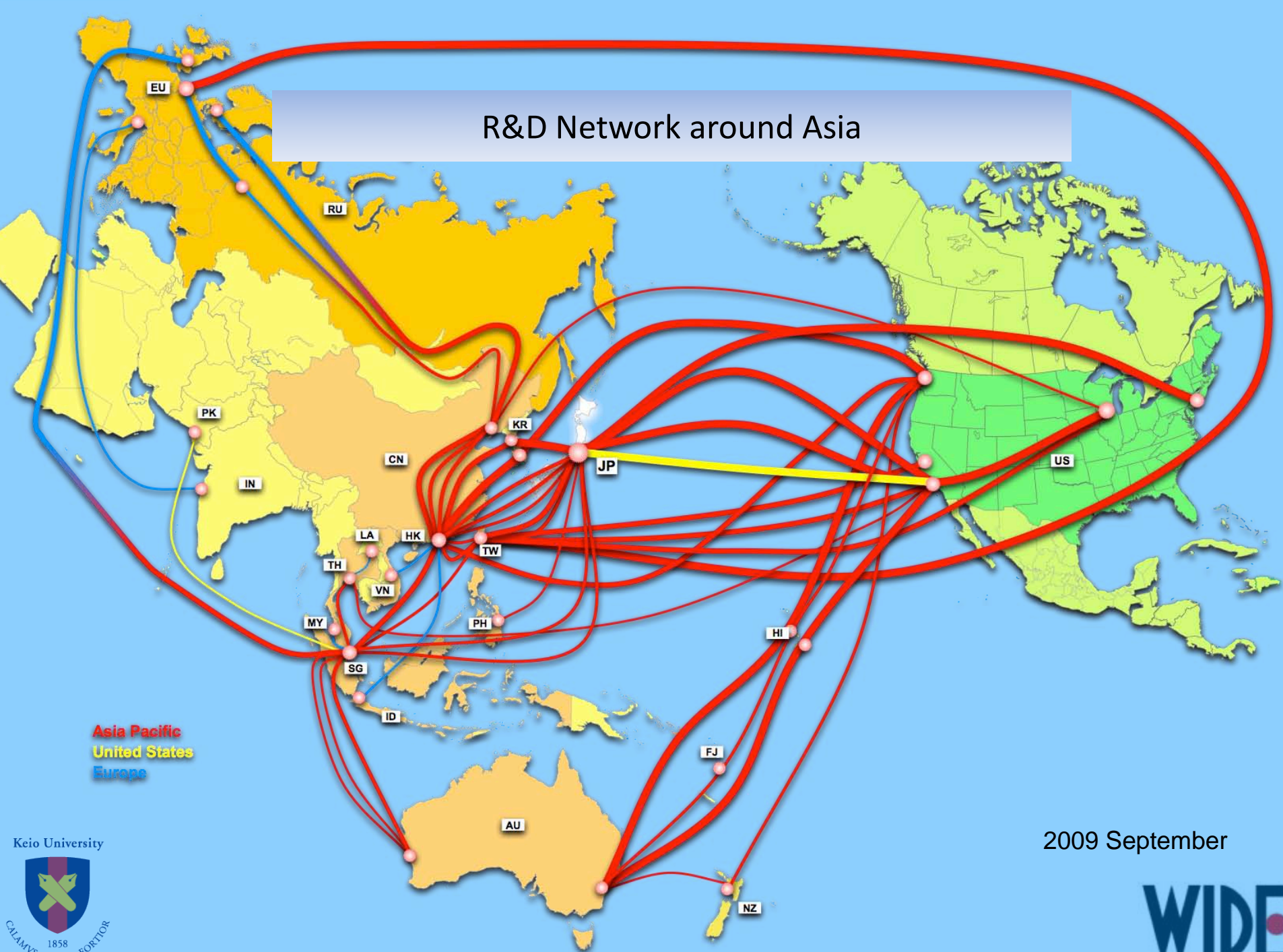


Keio University

ICT network development in India  
and status of joint R&D in academics

# R&D Network around Asia



Asia Pacific  
United States  
Europe

2009 September

WIDE

Keio University



# US Expansion to Asia

## GLORIAD-Taj Expansion



Blue  
GLORIAD

Orange  
GLORIAD-Taj Extension

NSF Fund

TATA communications  
Sponsor for Cable

The new Taj expansion is highlighted in orange on this map

Global Ring Network for Advanced Applications Development



Based on Illustration (2007) by Natasha Bulashova, GLORIAD Russia



Keio University



Hong Kong – Singapore – Mumbai – Alexandria - Amsterdam  
Over 1Gbps Connection  
Hong Kong – Seattle 2.5Gbps up to 10Gbps





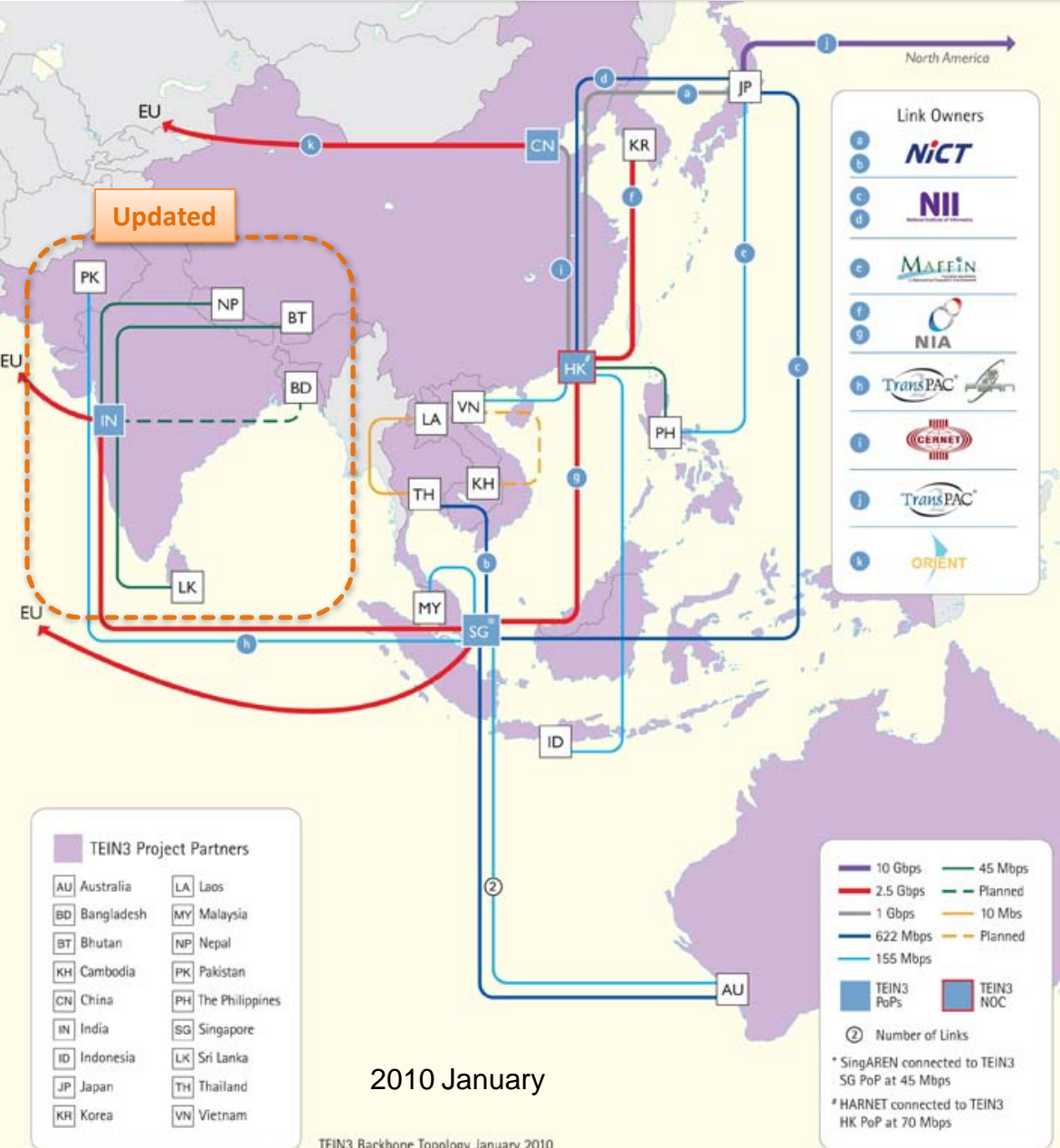
# EU Expansion to Asia

## ★ TEIN3

Cooperative Project EU and ASEM  
 12,000,000 Euro from EU  
 6,000,000 Euro from Asia

Hong Kong and Singapore as Hub

- The first India's High Bandwidth
  - Mumbai to Singapore 2.5Gbps
  - Mumbai to EU 2.5Gbps
- India as new Hub
  - Connecting Nepal, Bhutan, Sri Lanka
  - Planning Bangradish



# Cooperation for establishment of the new IIT Hyderabad

## 5 Research Areas

- Environment & Energy
- Digital Communications
- Design & Manufacturing
- Nanotechnology & Nanoscience
- Civil & Urban engineering

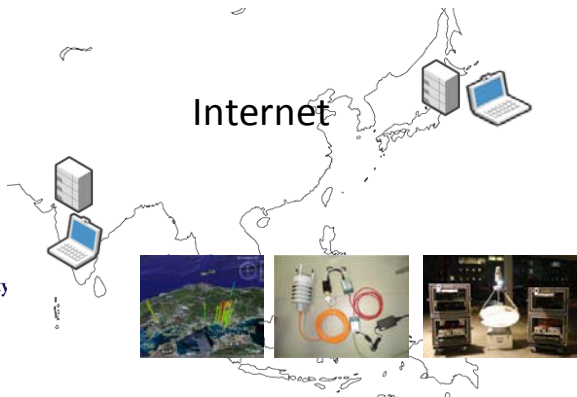
## Research Project (Digital Communications Group)

- Information Network for Natural Disaster Mitigation and Recovery
- Funded by Japanese Government "Science and Technology Research Partnership for Sustainable Development (SATREPS): JST(2009-2015)/JICA (2010 -2015)
- India : IIT Hyderabad, NGRI (NATIONAL GEOPHYSICAL RESEARCH INSTITUTE) and IMD( INDIA METEOROLOGICAL DEPARTMENT)
- Japan: Keio University and Tokyo University

# Information Network for Natural Disaster Mitigation and Recovery

## Research Topics

1. Earthquake Disaster Mitigation
2. Weather Monitoring Platform
3. Sustainable Communication Infrastructure
4. ICT platform and resource development for emergency and disaster mitigation



Research Agreement, August, 2009

# Current Status

2009 July/August:

2 Workshops at Hyderabad



Research Agreement, August, 2009

2010 July:

1st Joint Coordinating Committee Meeting

(official launch of the project)

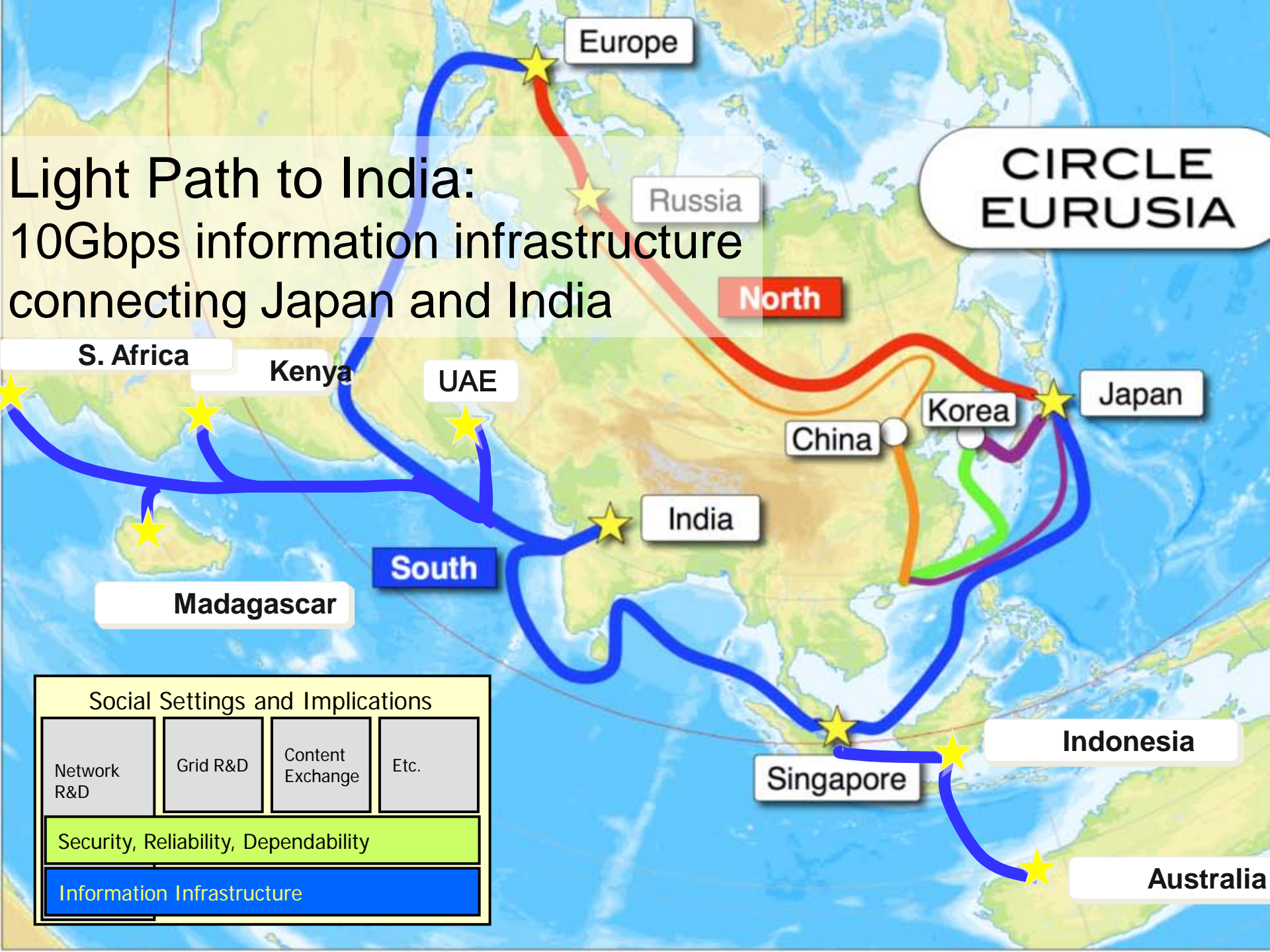
Official launch of H.E. E. S. L. Narasimhan  
the Governor Andhra Pradesh



2010 August/September Research Meeting in Japan



# Light Path to India: 10Gbps information infrastructure connecting Japan and India



**CIRCLE  
EURUSIA**

| Social Settings and Implications     |          |                  |      |
|--------------------------------------|----------|------------------|------|
| Network R&D                          | Grid R&D | Content Exchange | Etc. |
| Security, Reliability, Dependability |          |                  |      |
| Information Infrastructure           |          |                  |      |