- EC Grant Contract (ACA 2016/376-562) -

Asi@Connect (TEIN)

Connecting People, Network and Technology

Louis Hyunho Choi

Bangkok, Thailand

27 November 2018

TEIN* Cooperation Center

What Is Asi@Connect?

Asi@Connect provides a dedicated regional high capacity and high quality Internet network, Trans Eurasia Information Network(TEIN), for research and education communities across Asia-Pacific and Europe, and leverage the e-infrastructure developed for public service projects.

- **Asi@Conncet Project (ACA 2016/376-562)**
  - has finally been signed on 21 December 2016 between the EC and TEIN*CC
  - Implementation of the Action shall begin: on 1st September 2016.(60 months.)

- **Financing the Action**
  - The total eligible costs: EUR 36,549,126.
  - EC finance a maximum of EUR 20,000,000, limited to 54.7% of the total eligible cost.

Asi@Connect

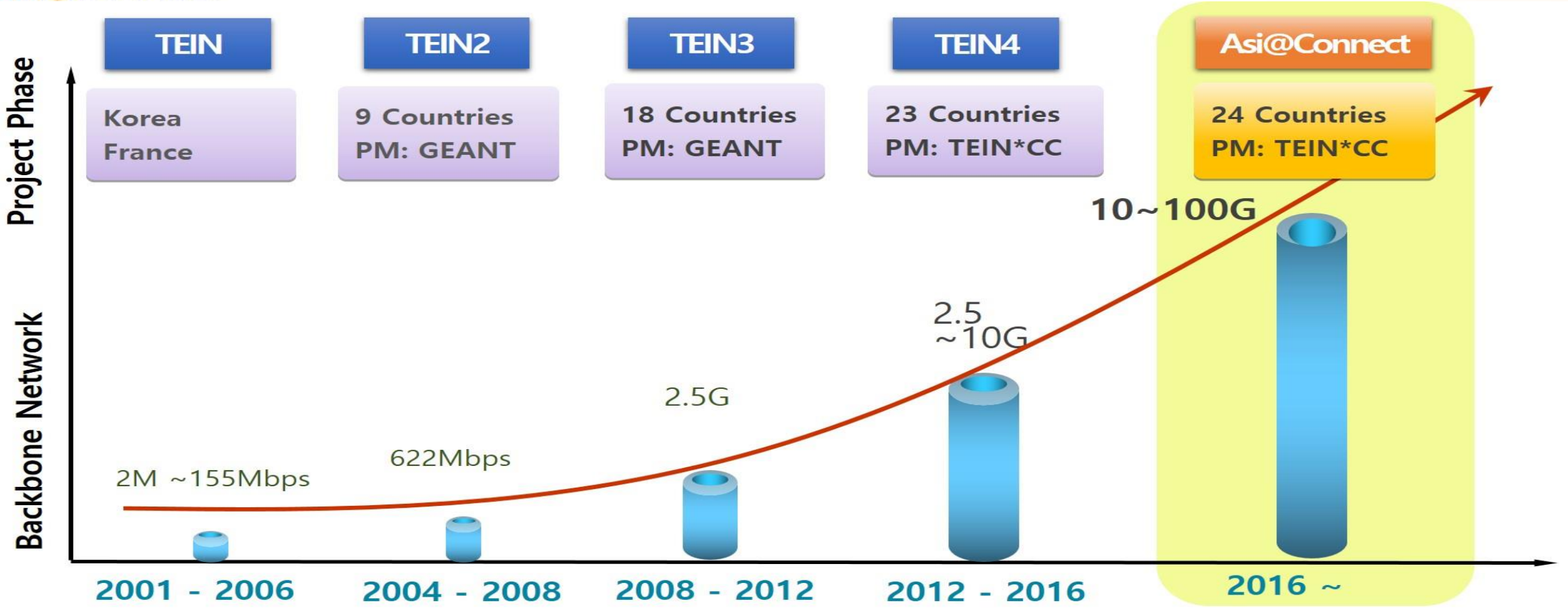
1’12”

This project is co-funded
by The European Union

TEIN*CC
COOPERATION CENTER

This project is implemented
By TEIN*CC

Evolution of TEIN/Asi@Connect Projects

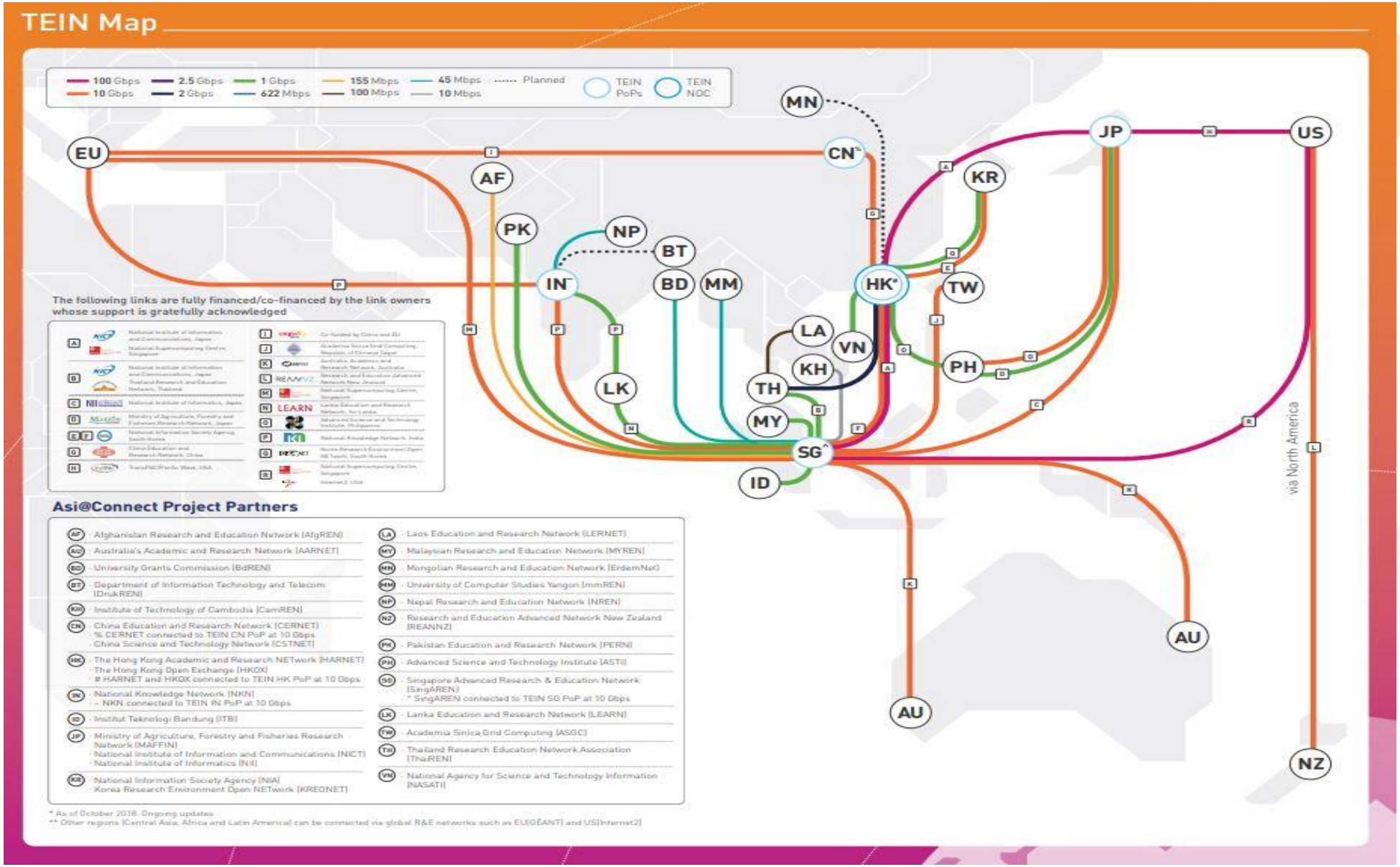


TEIN	TEIN2	TEIN3	TEIN4	Asi@Connect
KR & FR	DANTE (UK)	DANTE(UK)	TEIN*CC(KR)	TEIN*CC(KR)
KR, FR	North Asia (CJK) Southeast Asia	TEIN2 partner + South Asia (IN)	TEIN3 partner + MN, LA, MM, BT, AF	TEIN4 partner + NZ, HK, TW

Asi@Connect Project Partners (24 Countries)

Afghanistan	· Afghanistan Research and Education Network (AfgREN)
Australia	· Australia's Academic and Research Network (AARNET)
Bangladesh	· University Grants Commission (BdREN)
Bhutan	· Department of Information Technology and Telecom (DITT)
Cambodia	· Institute of Technology of Cambodia (CamREN)
China	· China Education and Research Network (CERNET) · China Science and Technology Network (CSTNET)
Hong Kong	· The Hong Kong Academic and Research NETwork (HARNET)
India	· National Knowledge Network (NKN)
Indonesia	· Institut Teknologi Bandung (ITB)
Japan	· National Institute of Information and Communications (MAFFIN) · National Institute of Informatics (NICT) · Ministry of Agriculture, Forestry and Fisheries Research Network (NII)
Korea	· National Information Society Agency (NIA)
Laos	· Lao Education and Research Network (LERNET)
Malaysia	· Malaysian Research and Education Network (MYREN)
Mongolia	· ErdemNET (ErdemNet)
Myanmar	· Yangon University (Computer Science Dept. NREN) (mmREN)
Nepal	· Nepal Research and Education Network (NREN)
New Zealand	· Research and Education Advanced network New Zealand (REANNZ)
Pakistan	· Pakistan Education and Research Network (PERN)
Phillippines	· Advanced Science and Technology Institute (ASTI)
Singapore	· Singapore Advanced Research & Education Network (SingAREN)
Sri Lanka	· Lanka Education and Research Network (LEARN)
Taiwan	· Academia Sinica Grid Computing (ASGC)
Thailand	· Thailand Research Education Network Association (ThaiREN)
Vietnam	· National Agency for Science and Technology Information (NASATI)

Network Topology as of July 2018



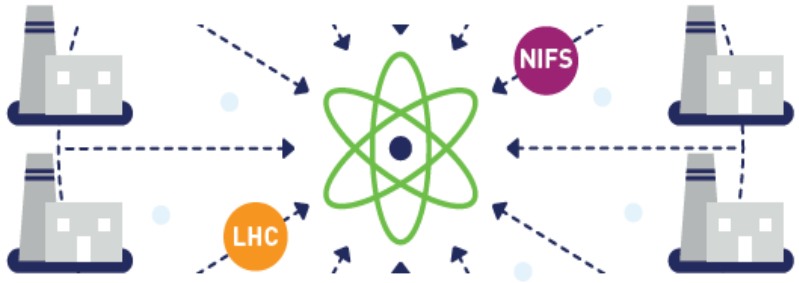
Case Study : Tele-medicine

Tele-medicine

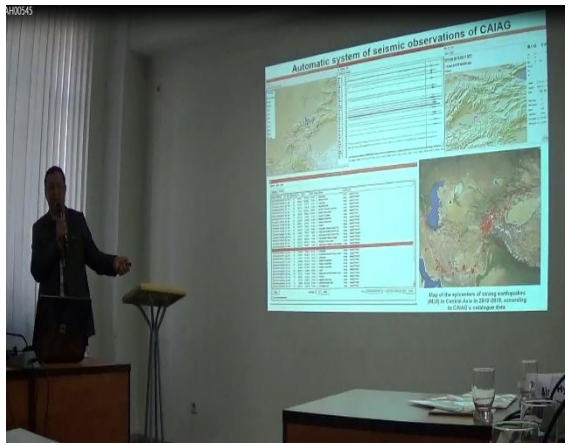
Medical doctors and experts share experiences and knowledge for epidemic disease prevention & better public health service.

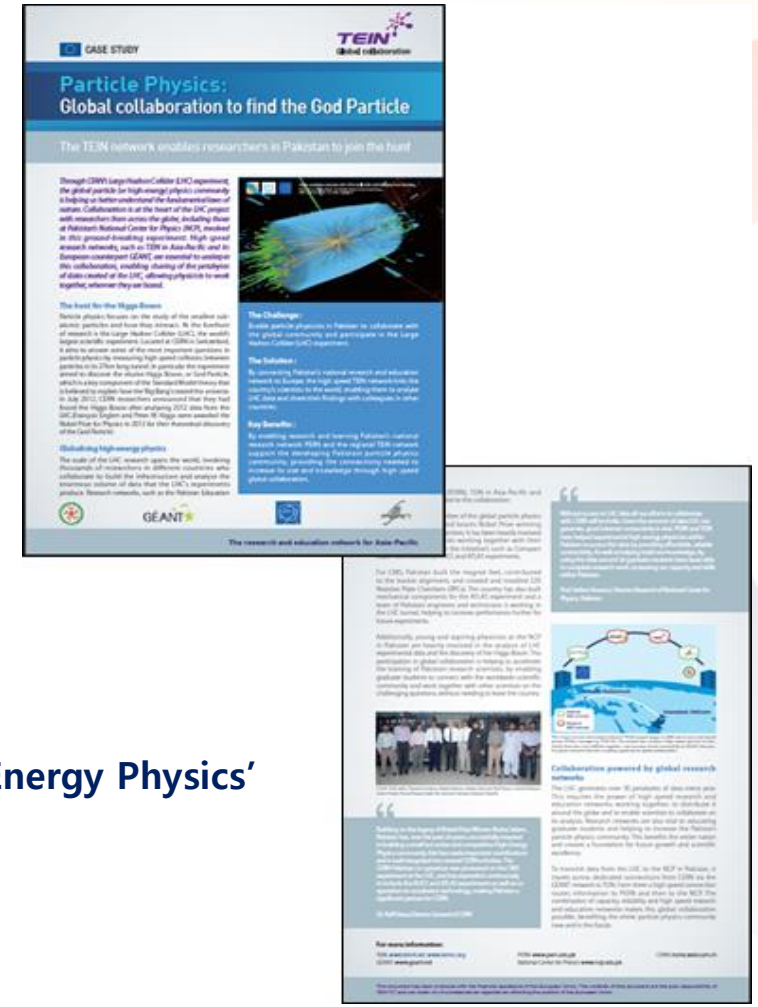
Asi@Connect provides high-quality network connectivity for supporting the live surgery and tele-surgical training.

e-Science



Researchers and institutions collaborate in a diverse range of subjects in natural science: Particle Physics such as Large Hadron Collider(LHC), Nuclear Fusion Science(NIFS), computational lenses, and grid computing.





'High Energy Physics'

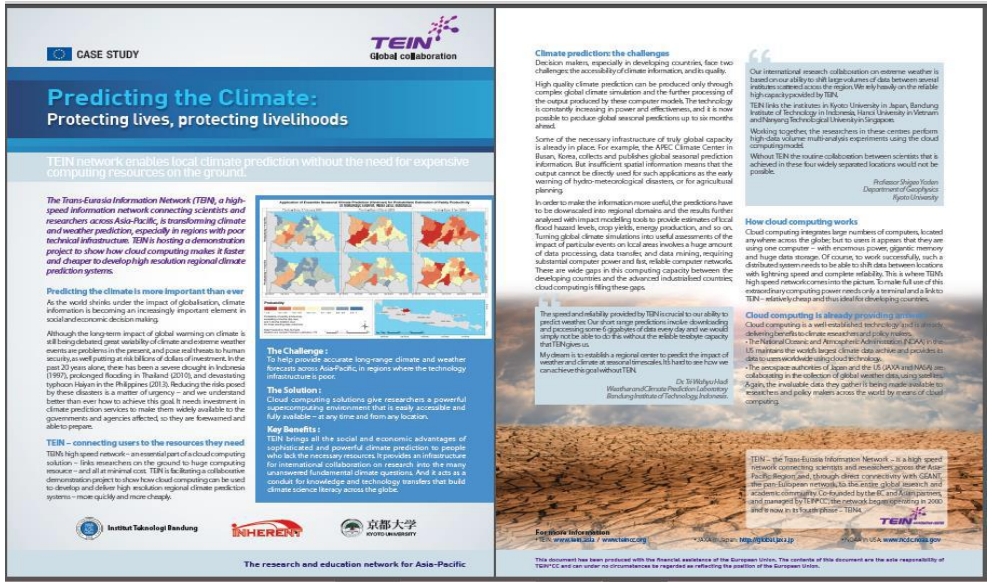
Earth Observation

‘Crop Research’

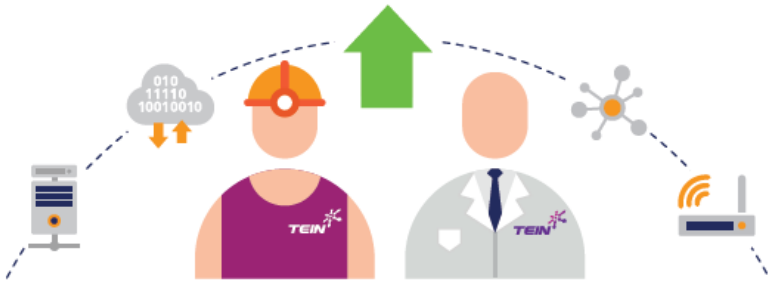
Asi@Connect allows the real-time data exchange through computing systems for the climate and weather prediction.

People in remote rural areas benefit from high resolution regional prediction systems providing faster and more accurate forecasts.

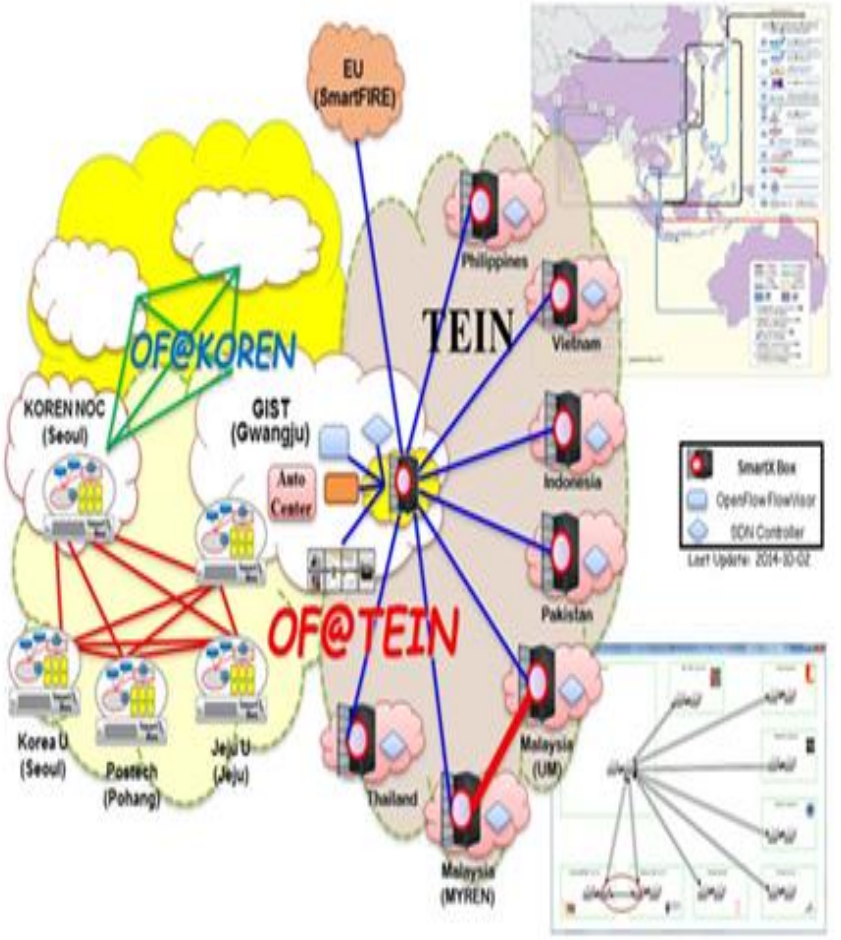
‘Climate Research’



Advanced ICT Technology



Asi@Connect supports researchers and engineers to develop and deliver innovative network technologies such as future internet that make networks more reliable, compatible and sustainable.



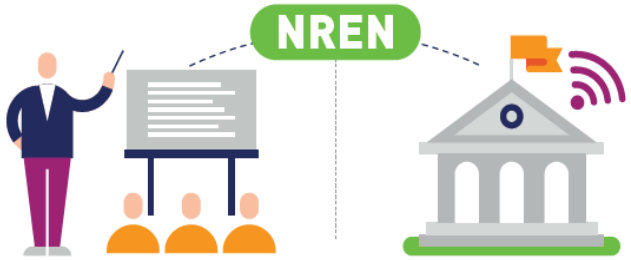
Case Study : Cyber Performance

‘Cyber Performance’

- Art Exchange
- Choreographed on traditional Malaysian movements & costumes
- Worked with NRENs on testing the link

- Performed traditional music for Hong Kong and Korea along with modern dance of Vietnam (APAN42, Aug. 2016)
- Tried to deliver multi channel sound effect through TEIN networks linking three countries

Capacity Building Program



Training Activities

Asi@Connect workshops and training programs helps NREN engineers and administrative staff for their capacity building.

Campus Network Design

Well-developed campus network infrastructure allows universities to connect to their National Research and Education Network(NREN) and to local Internet Exchange Points.

- Strengthen Capacity Building
- Deliver customized programs on network engineering and operations as well as applications and non-technical areas

Launch Events (’17~’18)

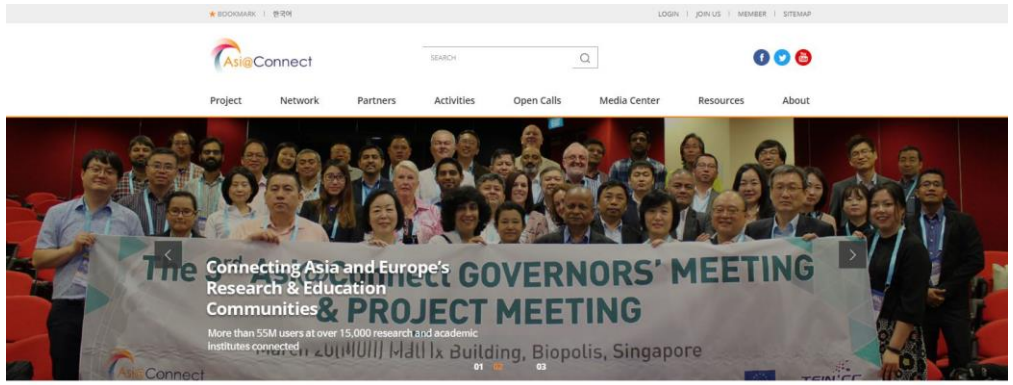
❖ To raise awareness of launching Asi@Connect and continuation of TEIN initiative through the new project

- Invite stake holders like as EU delegations, Government officers and funding bodies
- Hold seminars targeting to NREN members and user group

Date	NREN (Country)
Feb. ’17	NKN (India)
Jun. ’17	LEARN(Sri Lanka)
Oct. ’17	BdREN (Banladesh)
Dec. ’17	ASTI (Philippine)
Nov. ’18	ThaiREN(Thailand)

“We had a very engaging session and our stakeholders are now aware of the project” – Roshan Ragel, CEO of LEARN (Sri Lanka)

Visibility & PR : Communication Platform



@AsiaConnectProject

Editorial

On behalf of TEIN*CC, I would be pleased to publishing the First TEIN*CC Newsletter stepping with launching Asi@Connect project. TEIN*CC will publish this Newsletter for project development by enthusiastic and lively research activities. I hope that this Newsletter will be a starting point to the Global Networking.

During the TEIN4 project, we have achieved remarkable results by increasing backbone capacity with network traffic volume. In Asi@Connect phase, we have one of the main goals to develop more various joint

@AsiaConnectNews

Asi@Connect Activities

The 3rd Asi@Connect Governors Meeting in Singapore, 26 March 2018

The Asi@Connect Governors and Project Meeting brings Asi@Connect partners, NREN managers and researchers across Asia-Pacific, and discuss and share idea for Asi@Connect project. The 3rd meeting was held in Singapore co-located with APAN45. Out of 24 Asi@Connect partners, 23 representatives were attended and there was productive discussion for year 2018 activities.

Read more

National Launch Event in Bangladesh (30 Oct 2017)

Research and education community in Bangladesh celebrated the national launch of Asi@Connect. BdREN, the national research and education network of Bangaldesh, invited high-level officers of Bangladesh government, higher education commissions, academia and researchers. They shared BdREN's vision and possibility of global collaborations through Asi@Connect.

ขอบคุณครับ

Thank you

www.tein.asia

hhchoi@teincc.org