Progress Report on 1ˢᵗ &2ⁿᵈ Call
-Overview & Progress update-
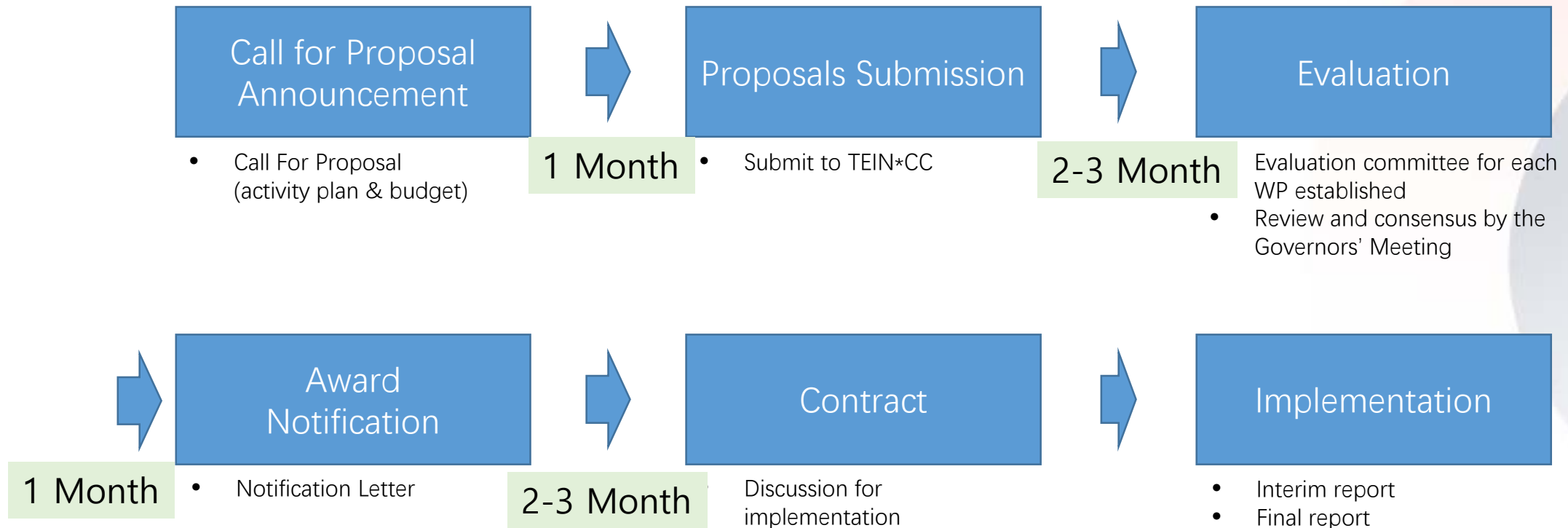
3ʳᵈ Asi@Connect Project meeting

2018.3.26.

Overview of Asi@Connect Call

- Focus on **promoting TEIN utilization with network technologies and services development & collaborations**
- Work Package (WP)
  - WP2. Capacity Development of Developing Country NRENs
  - WP3. R&E Net. Design & Operations and Associated Capacity Building
  - WP4. Deployment of Specialized Network Products, Services, Applications and Associated Capacity Development
  - WP5. Promoting R&E Collaboration for Societal Benefits
  - WP6. Helping to Bridge the Digital Divide in Developing Countries
- 30 proposals awarded out of 116 applications for Call1,2
  - 1st Call(13/52), 2nd Call(17/64) total 5.2M euro

Asi@Connect Call

- Process & Timeline

Call for Proposal Announcement		Proposals Submission		Evaluation
• Call For Proposal (activity plan & budget)	1 Month	• Submit to TEIN∗CC	2-3 Month	• Evaluation committee for each WP established • Review and consensus by the Governors' Meeting

Award Notification		Contract		Implementation
• Notification Letter	2-3 Month	Discussion for implementation		• Interim report • Final report

1 Month

Asi@Connect Call

- Evaluation Criteria

① Quality of programs

② Aligned with WP purpose and scope

③ Clear benefits for the community

④ Regional diversity and balance

⑤ Clear objectives and well-structured methodology

⑥ Capacity of proposers

⑦ Cost factors, realistic budget and timeframe proposed

⑧ Potential for growth/further development

⑨ Relationship with other existing projects at a regional/global level

⑩ Visibility & PRs, etc.

Evaluation Results

Work Package (WP)	Allocated Budget for each WP	No of Applicants	No of Awarded	Combined Budget of Awarded
WP2. Capacity Development of Developing Country NRENs	EUR 150K	12	5	EUR 103K
WP3. R&E Network Design & Operations and Associated Capacity Building	EUR 430K	3	1	EUR 13K
WP4. Deployment of Specialized Network Products, Services, Applications and Associated Capacity Development	EUR 690K	13	2	EUR 632K
WP5. Promoting Research and Education Collaboration for Societal Benefits	EUR 670K	20	3	EUR 745K
WP6. Helping to Bridge the Digital Divide in Developing Countries	EUR 780K	4	2	EUR 1037K
TOTAL	**EUR 2,720K**	**52**	**13**	**EUR 2,530K**

Awarded proposals(13)

No	Title	WP	Country	Organization(leader)	Budget (EUR)
1	Capacity Development for AfgREN Network Engineers		AF	Manaka Technology Serv.	27,790
2	Training for Maintaining Campus Network		BD	Patuakhali S & T Univ.	9,965
3	SecureAsi@: Asi@Connect Security Training	WP2	MY	MYREN	38,420
4	CSIRT Asi@Connect and Mini-TRANSITS		NL	GEANT	16,736
5	Information and Network Security (and Monitoring)		BT	MoIC (Ministry)	10,000
6	Campus Network Security	WP3	BD	University of Dhaka	13,130
7	TEIN eduroam 2017	WP4	AU	AARNET	350,000
8	OF@TEIN+: Open/Federated or Future Networks		MY	Univ. of Malaya	281,860
9	Establish a Tech-culture Fusion Platforms		KR	NEXT	225,655
10	Disseminate Telemedicine Across the Beneficiary Countries	WP5	JP	TEMDEC, Kyushu Univ.	200,000
11	Extending Asian Soundscape Monitoring Network & …		TW	ASGC	320,119
12	A Pilot Project for Community Based Internet Service	WP6	NP	ICT4D Nepal	258,750
13	Bridging the Digital Divide in Emerging Countries in Asia		US	Internet Society	778,534

Results on WP2-3

No	Title	Country	Organization(leader)	Event Date	Remarks
1	*SANOG 29*	*PK*	*PERN*	*23-30 Jan.*	
2	*APRICOT 2017*	*VN*	*VinaREN*	*20-24 Feb.*	
3	Capacity Development for AfgREN Network Engineers	AF	Manaka Tech. Serv.	22-25 Jul.	
4	Training for Maintaining Campus Network	BD	Patuakhali S & T Univ.	18-22 Aug.	
5	SecureAsi@: Asi@Connect Security Training	MY	MYREN	23-25 Oct.	Awarded from 1st CFP
6	CSIRT Asi@Connect and Mini-TRANSITS	NL	GEANT	31 Aug. – 1 Sep.	
7	Information and Network Security (and Monitoring)	BT	MoIC (Ministry)	Oct.	
8	Campus Network Security	BD	University of Dhaka	26-30 Nov.	

Results on WP2-3

Title/Country	AF	BD	BT	KH	CN	IN	ID	LA	MY	MN	MM	NP	PK	PH	LK	TH	VN	SUM
APRICOT 2017				1			1	1	1		1			1		1	2	9
AfgREN workshop(AFG)	20																	20
WS on maintaining Campus network(BD)		27																27
CSIRT Asi@Connect(NL)	1			1								1	1	1				5
Info & net security WS(BT)			52															52
SecureAsia security training workshop (MY)	2	1	2	2		1		2	*6*		2	2	2	1	1	3		27
Campus Network security Workshop (BD)		26													1			27
TEIN NOC 2017(PK)	2	2							2			2	21		1		1	31
Total	25	59	54	4	0	1	1	3	9	0	3	5	24	3	3	4	3	201

*based on participants list

Eduroam

Title	TEIN eduroam 2017 (WP4)		
PI	John Batchelder	**Organization**	AARNET
Country	Australia	**Budget**	EUR 350,000
Project Period	18 Months during 2018~2019		
Activities	- Establishment of basic eduroam infrastructure in the countries where there is limited or no existing eduroam coverage - Provision of knowledge required to operate as an eduroam National Roaming Operator for their respective country through training - Prospective target countries: Afghanistan, Bangladesh, Cambodia, India, Laos, Mongolia, Myanmar, Thailand and Vietnam		

Future Network(OF@TEIN+)

Title	OF@TEIN+: Open/Federated Playgrounds for Future Networks		
PI	Dr. Teck Chaw LING Dr. JongWon Kim (GIST, Korea)	**Organization**	University of Malaya
Country	Malaysia	**Budget**	EUR 281,860
Project Period	1 Aug 2017 to 31 May 2019 (22 Months)		
Activities	• Expanding the OF@TEIN Community and Sharing the Knowledge about Open and Federated SDN/NFV/Cloud-integrated Playground amongst the Members • Deployment and Upgrade of Open/Federated Playground with Distributed SmartX Box Playground Resources and Centralized Data Lake/Analytics Hardware • Collaboration to enable Automated DevOps-style Operation of Playground Resources and Platforms and to Experiment and Visualize "Plays over Playground", etc.		

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E-Culture

Title	Training Programs to Establish a Tech-culture Fusion Platforms for the Beneficiary Countries		
PI	Boncheol Goo	**Organization**	Next
Country	Korea	**Budget**	EUR 225,655
Project Period	1 Jul 2017 to 31 Dec 2018 (18 Months)		
Activities	• Regular workshops as a tech-culture fusion platform • Exchange of cultural performance among participating countries • Collaboration among TEIN beneficiary countries and NRENs through cyber performance workshops • Training to gain experience and skills to conduct cyber performance for future showcase of cultural performance and exchange of intangible cultural heritage • Target countries: India, Malaysia, Vietnam, Bangladesh, Pakistan and South Korea		

Telemedicine

Title	Training Program to Disseminate Telemedicine Across the Beneficiary Countries		
PI	Dr. Shuji Shimizu	**Organization**	TEMDEC, Kyushu University
Country	Japan	**Budget**	EUR 150,000
Project Period	1 Jun 2017 to 31 May 2018 (12 Months)		
Activities	• Training of hospital engineers – Hands on training at APAN sessions and engineering workshops / Training the trainers • Symposium/Workshops – Asia Telemedicine Symposium in Malaysia / domestic telemedicine workshop in beneficiary countries (Philippines, Indonesia and Vietnam)		

Soundscape

Title	Extending Asian Soundscape Monitoring Network and Moving Towards Open Science Platform		
PI	Eric Yen	**Organization**	ASGC
Country	TW	**Budget**	320,119
Project Period	FEB 2018 to Dec 2019		
Activities	- Establishing soundscape collaboration network and enhancing the capacity of ecology and biodiversity monitoring by soundscape for both the country-level and Asia regional level - Investigating the temporal and spatial change of aquatic and ultrasonic soundscape - Facilitating the monitoring of aquatic biodiversity and ecosystem through the soundscape information - Developing a cost-effective acoustic tool for monitoring bat diversity in response to environment changes in the Southeast Asian tropics		

Broadband Solution(Nepal)

Title	**Effective Broadband Solution for Bridging the Digital Divide – A Pilot Project for Community Based Internet Service Provider and Services**

PI	Dr. Haruo Okamura	**Organization**	ICT4D Nepal
Country	Nepal	**Budget**	EUR 258,750

Project Period	1 Sep 2017 to 31 Dec 2018 (16 Months)
Activities	• Feasibility/baseline study of the proposed project • Broadband internet services extension to rural communities situated in Mt. Everest • Provision of value added services over IP like tele-medicine and online learning/education by connecting the local schools and hospitals with their counterparts in urban areas

Evaluation Result

Work Package (WP)	Allocated Budget for each WP	Max. per proposal	Awards	Total Budget
WP2. Capacity Development of Developing Country NRENs	EUR 200K	EUR 50K	6/18	EUR 298K
WP3. R&E Network Design & Operations and Associated Capacity Building	EUR 400K	EUR 200K	2/5	EUR 398K
WP4. Deployment of Specialized Network Products, Services, Applications and Associated Capacity Development	EUR 450K	EUR 200K	3/10	EUR 748K
WP5. Promoting Research and Education Collaboration for Societal Benefits	EUR 450K	EUR 200K	5/28	EUR 1078K
WP6. Helping to Bridge the Digital Divide in Developing Countries	EUR 500K	EUR 300K	1/3	EUR 250K
TOTAL	**EUR 2M**		**17/64**	**EUR 2.77M**

Awarded Proposals(17)

No	Title	WP		Organization(leader)	Budget (EUR)
1	Performance Data Transfer and Measurements Workshop - India	2	US	Indiana University	69,850
2	Performance Data Transfer and Measurements Workshop - Laos		US	Indiana University	68,650
3	Workshop on wireless network and security management		BD	Department of Computer Science and Information Technology, Patuakhali Science and Technology University	42,066
4	SecureAsi@ V2.0: Asi@Connect Advanced Security Training Workshop		MY	Internet Security Working Group, MyREN	44,735
5	Campus Network Design and Security Workshop		PK	Pakistan Education and Research Network (PERN)	39,305
6	Workshop on IPv6 Deployment in R&E Networks		BD	Bangladesh Research and Education Network (BdREN)	33,622
7	CSIRT Capacity Building in Asia	3	NL	GÉANT	199,281
8	Master of Cybersecurity: Distance Master Program in Cybersecurity		LK	University of Colombo School of Computing	199,340

Awarded Proposals(17,cont')

No	Title	WP	Country	Organization(leader)	Budget (EUR)
9	Data-Centric IoT-Cloud Service Platform for Smart Communities (IoTcloudServe@TEIN)	WP4	Thailand	Department of Electrical Engineering, Faculty of Engineering, Chulalongkorn University	248,500
10	Distributed and Cloud-based Network Defense System for NRENs		Malaysia	National Advanced IPv6 Centre, Universiti Sains Malaysia	249,908
11	Broadening Asi@Connect Knowledge on Federated Identity, Roaming and E-infrastructure (BACKFIRE)		Netherlands	GÉANT	249,726
12	Continuous training programs for hospital engineers, coupling with doctors, to expand telemedicine across the beneficiary countries	WP5	Japan	Telemedicine Development Center of Asia (TEMDEC)	250,000
13	Deeper Understanding of Natural Disaster – Instrumental for Disaster Mitigation (UND)		Taiwan	Graduate Institute of Hydrological and Oceanic Sciences, National Central University	250,000
14	Facilitating Distance Learning using Digital Conferencing Facility		Bangladesh	Bangladesh Research and Education Network (BdREN)	196,415
15	Enhancement of Nuclear Medicine Performance using Asi@Connect in Asian Countries		South Korea	Nuclear Medicine, Seoul National University	176,886
16	LandSage: Decision Support for Monitoring and Mitigation of Natural Disasters in Southeastern Asia via the Cyber-enabled Collaboration, Analysis, Navigation and Observation Environment		USA	Laboratory for Advanced Visualization & Applications, University of Hawaii at Manoa	205,373
17	Cable Operators Neutral Network Exchange for Community Transformation (CONNECT)	WP6	Philippines	Electrical and Electronics Engineering Institute, U of the Philippines Diliman	250,000

Overview for WP2

- Main topics are

Network Measurement

Wireless network Mgt

Security Management

Campus network design

Ipv6 Deployment

No	Title
1	Performance Data Transfer and Measurements Workshop - India
2	Performance Data Transfer and Measurements Workshop - Laos
3	Workshop on wireless network and security management (BD)
4	SecureAsi@ V2.0: Asi@Connect Advanced Security Training Workshop(MY)
5	Campus Network Design and Security Workshop(PK)
6	Workshop on IPv6 Deployment in R&E Networks(BD)

Overview for WP3

- R&E Network Design & Operations and Associated Capacity Building

CSIRT Capacity Building in Asia
- GEANT / 22Months
- Creating a self-sufficient trusted network in Asia-Pacific region for R&E security experts and Providing affordable, state of the art high quality training to CSIRT personnel in the region

Master of Cybersecurity: Distance Master Program in Cybersecurity
- U of Colombo / 24Months
- Offer Master of Cybersecurity Postgraduate Degree qualifications for network engineer, and Publish new courses and learning materials in the area of cybersecurity to meet the specific needs in the region with enhancing cybersecurity knowhow by hands-on training experience

Overview for WP4

- Related technology development & implementation

Data-Centric IoT-Cloud Service Platform for Smart Communities (IoTcloudServe@TEIN)
- Chulalongkorn University / 22Months
To design, develop, and operate a centralised **IoT-cloud service platform** site (called "IoTcloudServe@TEIN") in Thailand, that is accessible over TEIN communities with the supports from the OF@TEIN+ underlay network infra.

Distributed and Cloud-based Network Defense System for NRENs
- Universiti Sains Malaysia(MY) /24Months
Setup a Distributed and Cloud-based Network Defense System, which consists of distributed monitoring nodes and cloud based web security service platform

Broadening Asi@Connect Knowledge on Federated Identity, Roaming and E-infrastructure (BACKFIRE) – GEANT(NL)/24Months
Establish and develop identity federations within Asi@Connect beneficiaries for eduroam and eduGAIN participation from the campus and NREN level to the global R&E community.

Overview for WP5

- Promoting Research and Education Collaboration for Societal Benefits

Continuous training programs for hospital engineers, coupling with doctors, to expand telemedicine across the beneficiary countries- Kyushu University(JP) /12Months
To provide good technical training for hospital engineers and to share the information with doctors & To expand our activities across each beneficiary countries and to new regions and medical fields

Deeper Understanding of Natural Disaster – Instrumental for Disaster Mitigation (UND)
- National Chinese University(TW) /24Months
Capacity building and disseminating deeper knowledge of the disaster mitigation in Asia

Facilitating Distance Learning using Digital Conferencing Facility – BdREN /22Months
Deploy a Digital Conference Platform / Transfer of Knowledge and Enhancement of Collaboration
Facilitate Distance Learning /Enhance TEIN Utilization / Reduce Digital Divide

TEIN CC COOPERATION CENTER

Asi@Connect

Overview for WP5

- Promoting Research and Education Collaboration for Societal Benefits

Enhancement of Nuclear Medicine Performance using Asi@Connect in Asian Countries
- Seoul National University Hospital(KR) /24Months
Enhancement of Nuclear Medicine Performance using Asi@Connect in Asian Countries

LandSage: Decision Support for Monitoring and Mitigation of Natural Disasters in Southeastern Asia via the Cyber-enabled Collaboration, Analysis, Navigation and Observation Environment
- University of Hawaii(US) /12Months
To prototype, demonstrate and provide training for a revolutionary approach to emergency management through data and visualization-rich decision support for natural disasters using cyber-infrastructure.

Overview for WP6

- Helping to Bridge the Digital Divide in Developing Countries

•Cable Operators Neutral Network Exchange for Community Transformation (CONNECT)
CONNECT aims to foster interconnectivity among cable TV operators and provide technologies to enable the delivery of Internet access and new services. This will be done by establishing an industry-initiated open and neutral Internet exchange point, interconnection with PHOpenIX, intensive training, advocating best practices and standards such as IPv6, and harnessing new technologies such as software defined networking.