













IoTcloudServe@TEIN Project

- Approved in 2nd call for proposals for Asi@Connect
- WP4: Deployment of Specialised Network Products, Services and Applications and Associated Capacity Development
- Co-Principal Investigators:
 - Associate Prof Dr Chaodit Aswakul
 Chulalongkorn University: Financial corresponding
 - Prof JongWon Kim
 Gwanju Institute of Science and Technology, South Korea
- 22 + 5 months (20 June 2018 19 September 2020)
- Budget 248,500 Euro



















• Thailand:

Chaodit Aswakul, PhD (Chulalongkorn University) Krerk Piromsopa, PhD (Chulalongkorn University) Panita Pongpaibool, PhD (NECTEC) Aimaschana.Niruntasukrat, PhD (NECTEC) Panjai Tantatsanawong, PhD (UNINET, ThaiREN)

Laos:

Khamphao Sisaat, PhD (NUOL) Khamxay Leevangtou, MEng (NUOL) Senglathsamy Chanthaminavon, MEng (NUOL)

- Malaysia: Teck Chaw Ling, PhD (University of Malaya)
- Japan: Hideya Ochiai, PhD (University of Tokyo)
- Korea: JongWon Kim (GIST)

















IoTcloudServe@TEIN Objectives

To establish and operate IoTcloudServe@TEIN testbed infrastructure

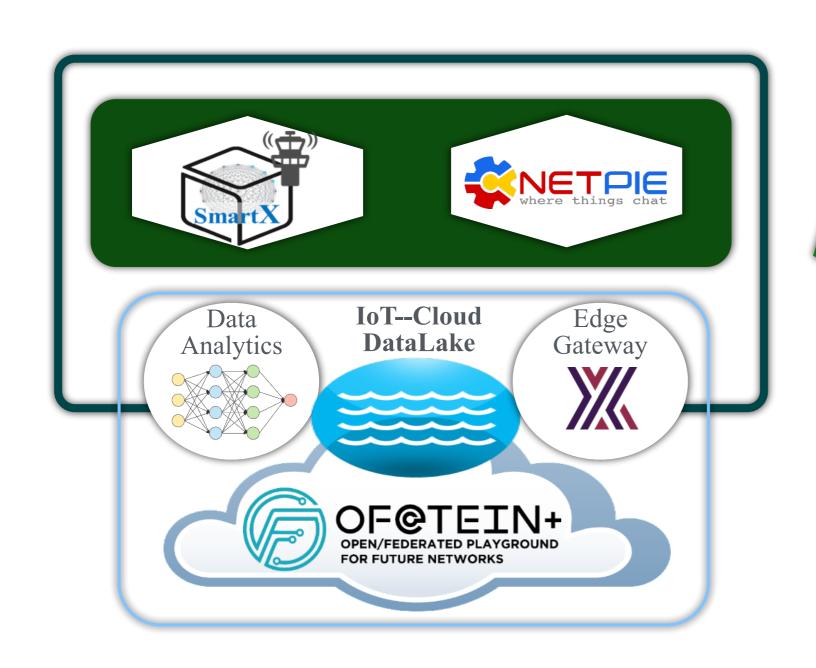
To gather & learn together

To design, develop and operate IoTcloudServe@TEIN service platform

To demonstrate "data-centric" IoT-cloud services running with IoTcloudServe@TEIN



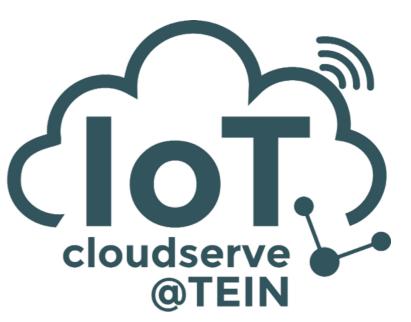
IoTcloudServe@TEIN: Data-Centric IoT-Cloud Service Platform for Smart Communities (2018~)













































To demonstrate "data-centric"

loT-cloud services

running with
loTcloudServe@TEIN

Smart-energy@Chula (Thailand)
Supported by Todai (Japan)

Smart-mobility@Chula (Thailand)
Supported by GIST (Korea)

Smart-agriculture@NUOL (LAO)
Supported by NECTEC (Thailand)

Data-Centric

IoT-Cloud Service Platform

for Smart Communities

(IoTcloud Serve@TEIN) To design, develop and operate loTcloudServe@TEIN service platform





Supported by GIST (Korea) / Todai (Japan)

To establish and operate loTcloudServe@TEIN testbed infrastructure Testbed Infrastructure (Data Lake)



Compute Analytics Pool loT Access Gateway

Chula / NECTEC (Thailand)

Supported by UM (Malaysia) / GIST (Korea)













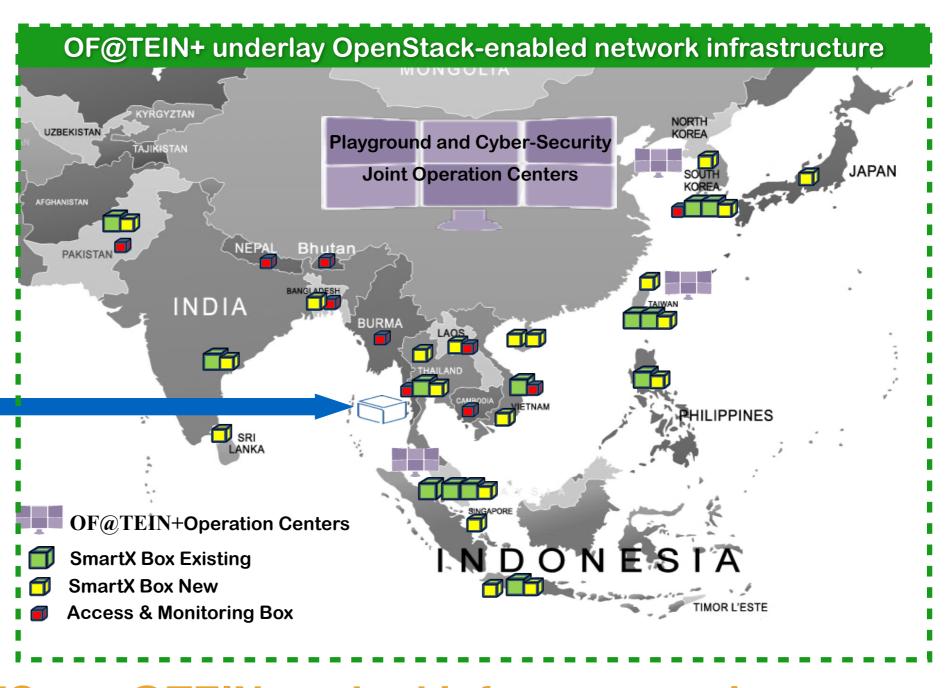




IoTcloudServe@TEIN "Data Lake"

(IoT-cloud storage, compute analytics pool and IoT access gateway)

To be established and jointly operated by Chula & NECTEC (Thailand) for resource sharing accessible by TEIN R&E communities



IoTcloudServe@TEIN testbed infrastructure in Thailand, that is accessible over TEIN communities with the supports from the OF@TEIN+ underlay

















Deliverable Outcomes from IoTcloudServe@TEIN Project

- 3 collaboration community meetings (NZ, KR, TH-LA-KR)
- 2 international workshops (LA)
- 2 demo sites at Chula (TH) and NUOL (Laos)
- 3 demo services Smart-Energy@Chula, Smart-Mobility@Chula and Smart-Agriculture@NUOL
- 14 research publications
- 1 best poster presentation award
- 1 container-based IoTcloudServe@TEIN infrastructure interconnected and sharable with TEIN communities





















Facebook Page

https://www.facebook.com/iotcloudserve/





Github

https://github.com/IoTcloudServe





Chula (Electrical Engineering)

https://www.elec.eng.chula.ac.th/grad



Associate Prof Dr Chaodit Aswakul Email: chaodit.a@chula.ac.th

Wireless Network & Future Internet Research Unit Chulalongkorn University, Bangkok, Thailand