

ASEAN IVO Forum



Cambodia NerveNet Field Testing Project Review 2016

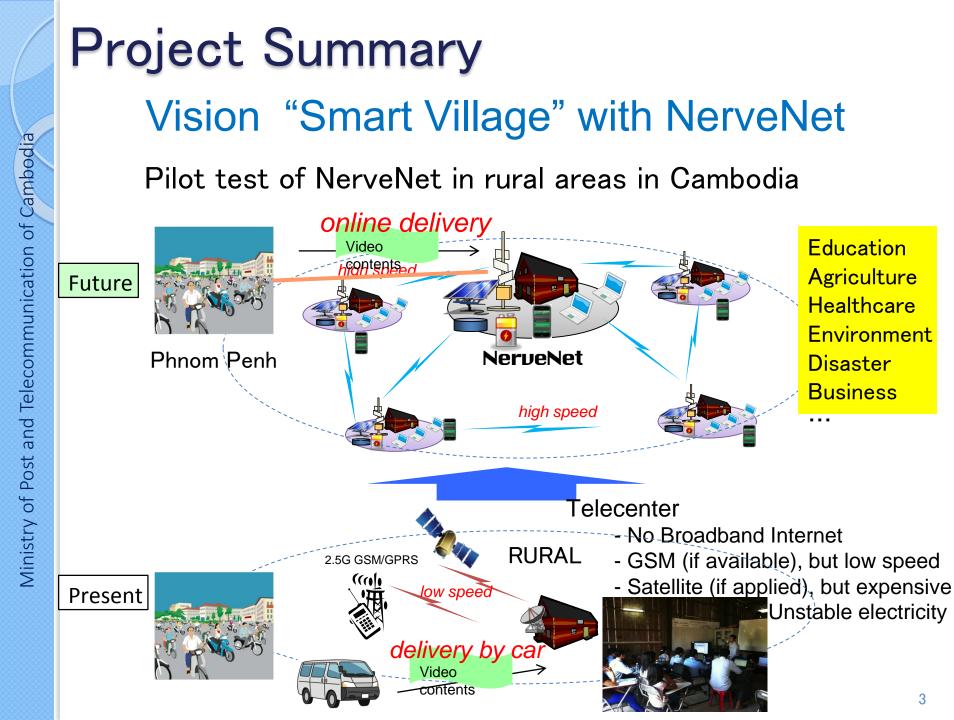
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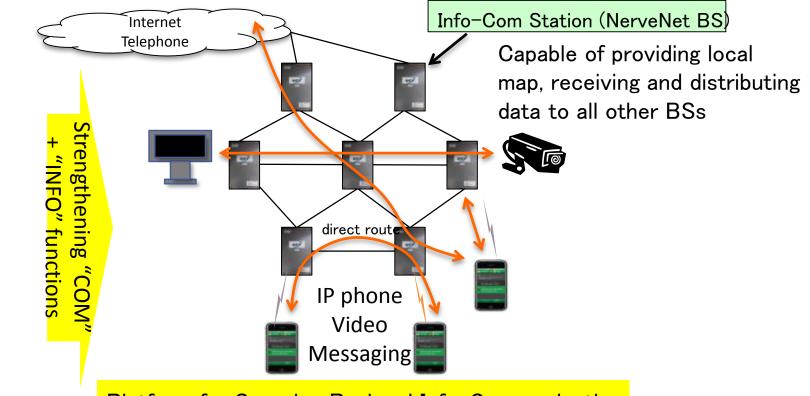
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Project Summary NerveNet : Info-Com Packaged Network

- Info-Com Station (NerveNet BS) developed by NICT, Japan.
- Mesh network securing against failures and allowing easy expansion.
- Applications: Voip, video, messaging, web, Database.



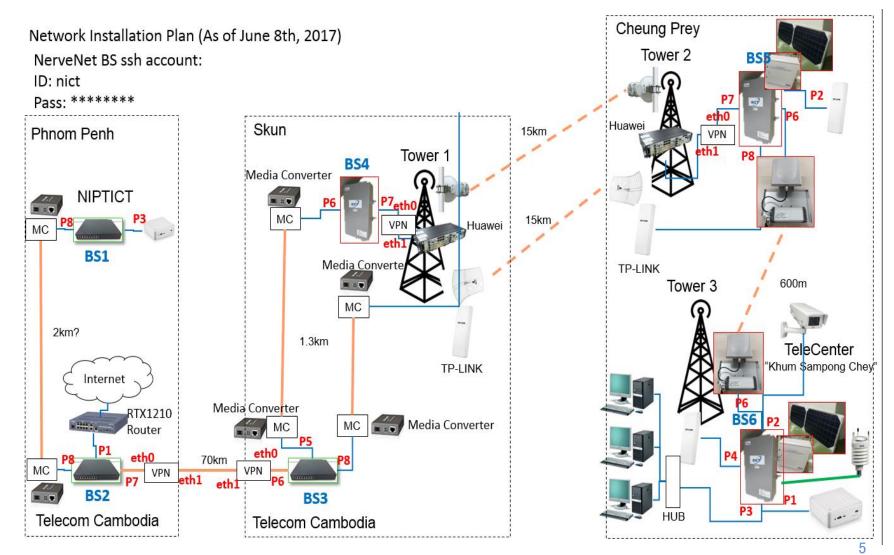
Platform for Securing Regional Info-Communications

Existing

Networks

Project Implementation

NerveNet Installation



Project Achievement

Applications

- Kids have enjoyed with learn English by e-learning application developed by NIPTICT
- Community access to agricultural information, health and business
- People have enjoyed with communication with their relatives working at oversea.

60 students in training center





New Issue

- Cambodia develops very fast, Our Tele-Center now is no more rural area
 - 4G
 - Fiber Optical cable
 - Stable electricity became available.

Future Plan

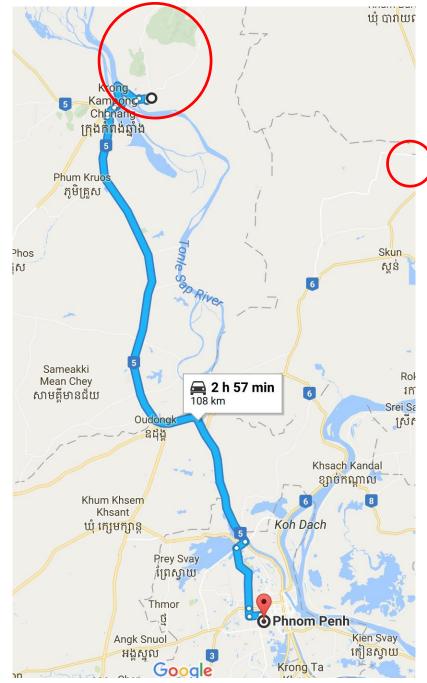
- To move the experimental NerveNet System to the new REAL Rural Area
- Pilot test new NerveNet system (Raspberry Pi)
- To evaluate the usefulness of the system and applications at the remote area.
- Allow Schools, government offices in remote areas (No mobile broadband, no stable electricity) to access and share multimedia contents.

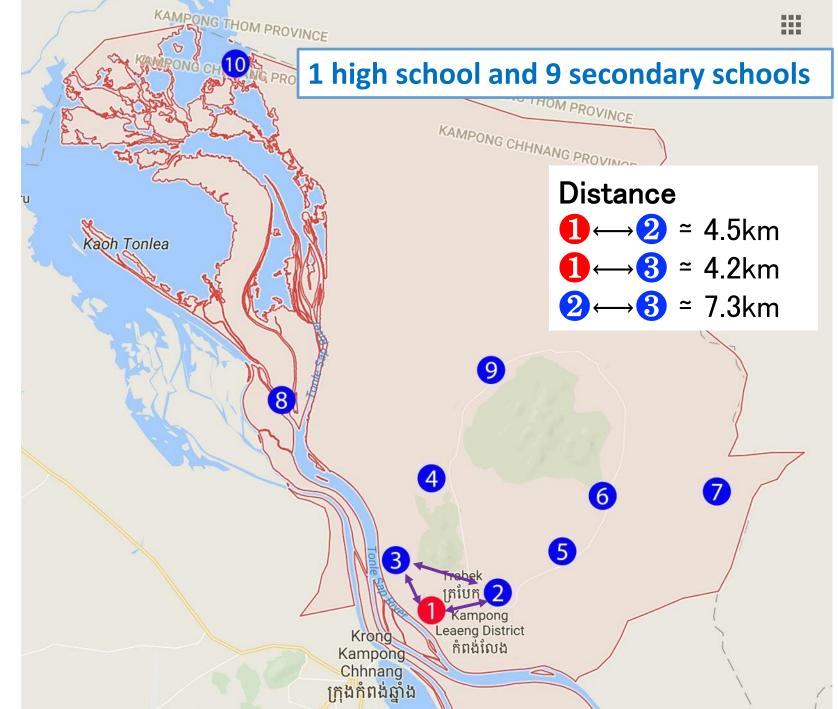
Future Plan

- Deployment location:
 - 108km from Phnom Penh to

Kampong Chhnang province

 1 high school and 2 secondary schools will be selected to test new NerveNet system for the first stage





Future Plan (New NerveNet system)

System organization:

- New Base Station: Raspberry Pi 3 with USB Ethernet adopter (5W)
- Solar Power
- Fixed Wi-Fi system (2 for each node) : candidate is CPE510 (10W max) (http://www.tp-link.com/us/products/details/cat-37_CPE510.html)
- Outdoor housing box
- 3G/LTE network system:
 - Using mobile router/USB dongle

Thank You