NerveNet
A Conventional Network Connection for Rural Areas

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Ministry of Posts Telecommunications of Cambodia

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About NIPTICT

Mission

▶ ICT training to government staff and students

▶ R&D

▶ Promote Innovation and entrepreneurship for better academic and society services

Research Areas

Khmer Language Processing

▶ Speech Recognition

▶ Text-To-Speech

▶ Optical Character Recognition (OCR)

▶ Machine Translation

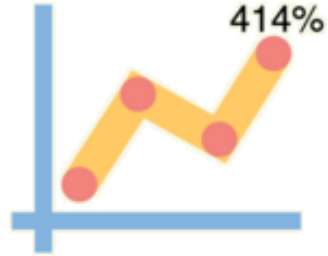Rural ICT

▶ Tele-Center

▶ Mobile4D

Internet in Cambodia

15.41 million population in Cambodia

1/3 of the population has access to the internet
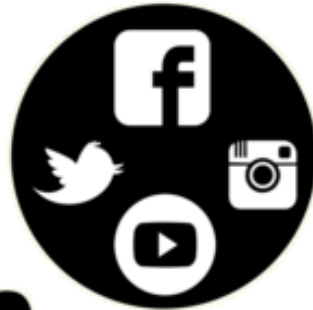
Active internet users greatly increased by **414%**

3.80 million people are now active online users

414%

Penetration for active social media users hit **16%**

100% rise since January 2014

= **2.40** million active social media users now in the Kingdom

In 2014, online subscriptions saw a significant increase by **31%**

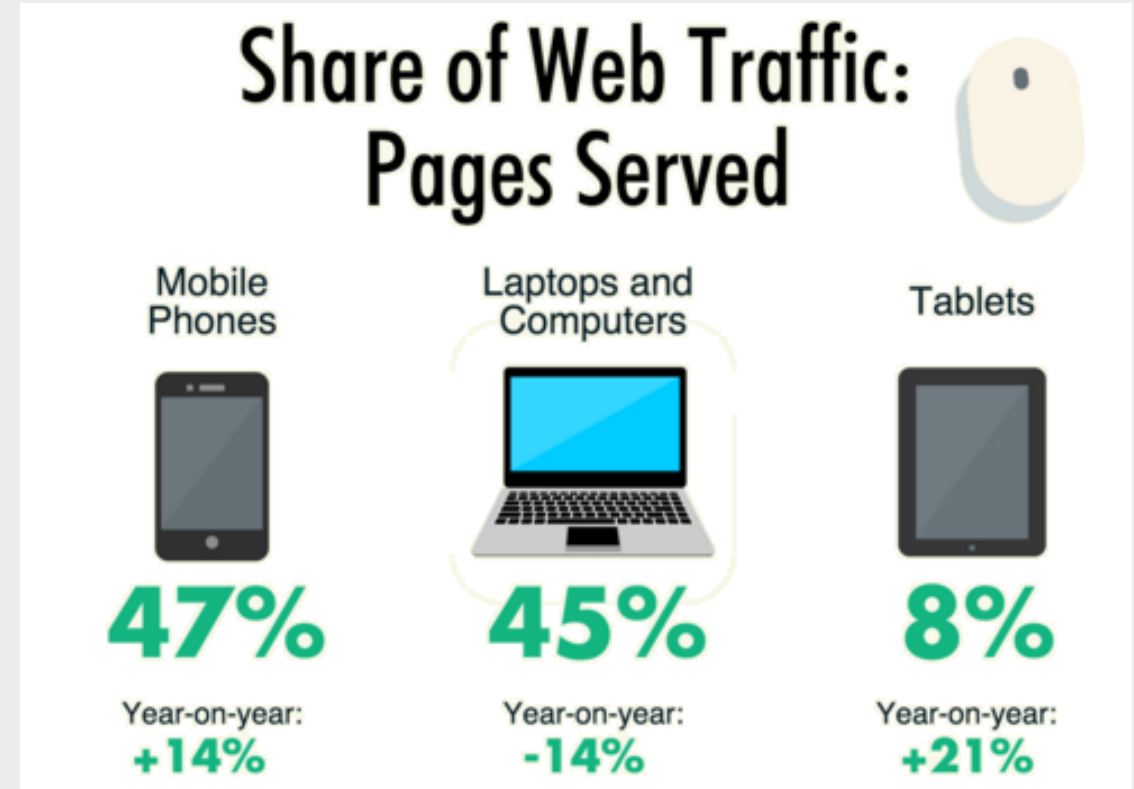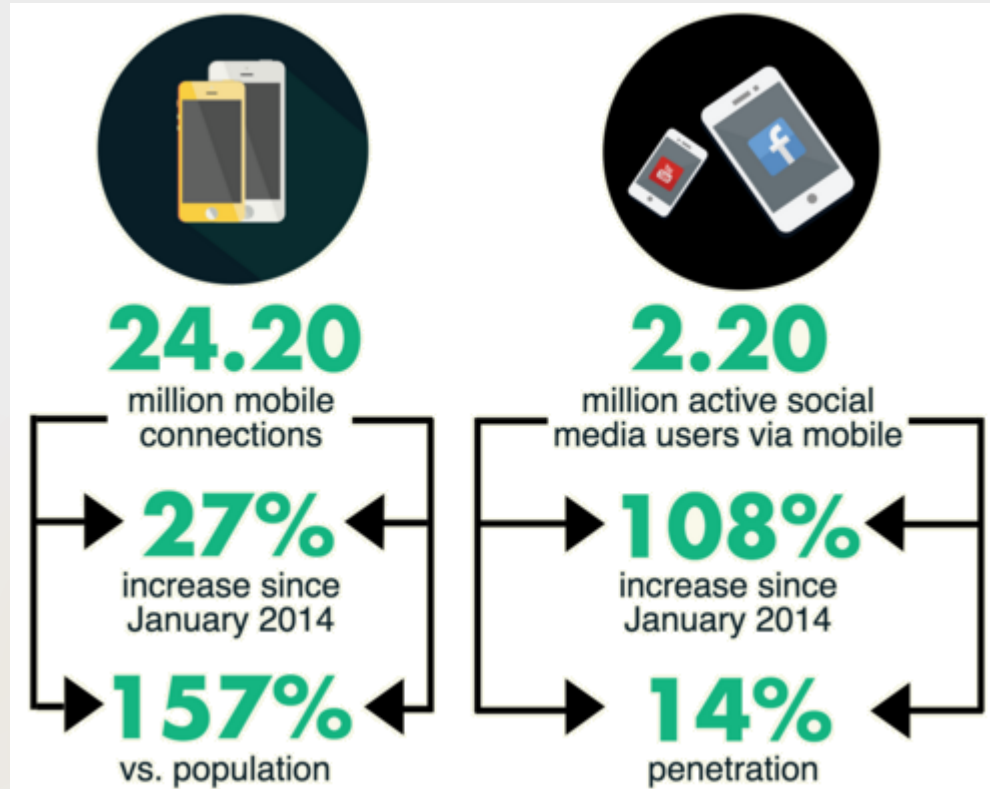**5** million: The current number of Internet subscriptions in Cambodia

98.67% of Internet subscriptions are from mobile devices

Source: http://geeksincambodia.com/infographic-digital-trends-cambodia-2015/

Internet in Cambodia (Cont)

24.20 million mobile connections

27% increase since January 2014

157% vs. population

2.20 million active social media users via mobile

108% increase since January 2014

14% penetration

Share of Web Traffic: Pages Served

Mobile Phones	Laptops and Computers	Tablets
47%	**45%**	**8%**
Year-on-year: +14%	Year-on-year: -14%	Year-on-year: +21%

Source: http://geeksincambodia.com/infographic-digital-trends-cambodia-2015/

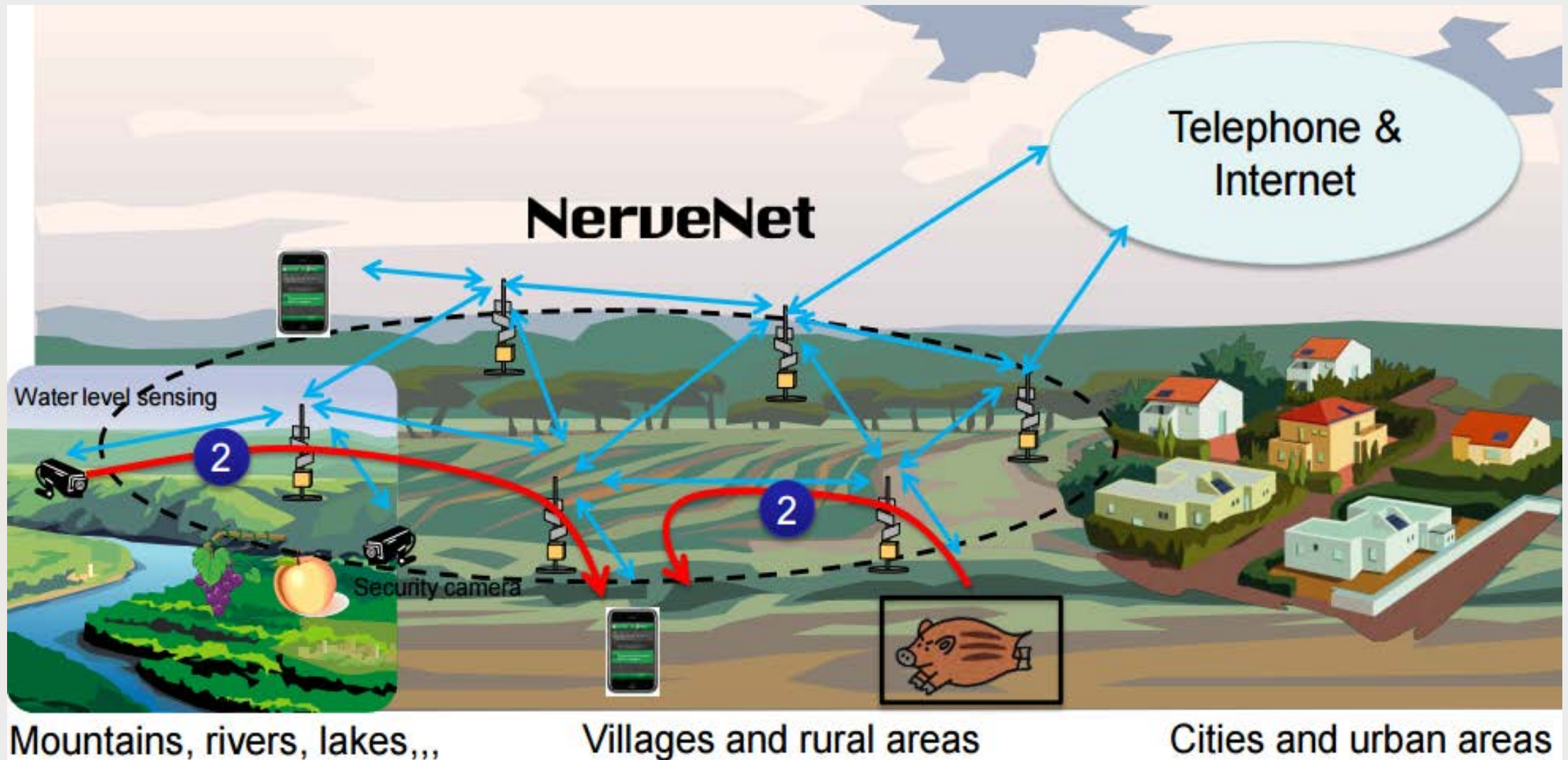# About NerveNet

- ▶ a regional network like a nervous system
- ▶ Provides universal access to the Internet at low cost
- ▶ Gives security against disasters and sensing/alert services
- ▶ Allows local communications without cell-phone network and the Internet

About NerveNet (Cont)

Pilot Project

- ▶ Oct 2014: Planning and site survey
- ▶ Nov – Dec 2014: Training technical staff at NICT
- ▶ Mar 2015: Installation two indoor BSs
- ▶ Jun – Jul 2015: Planning and site survey in Skoun and Sompong Chhey village
- ▶ Nov 2016: Completion of Installation
- ▶ Dec 2016: Operation
- ▶ 2017: Universal Service Obligation (USO)

Application

- Call Management
- Proxy
- Map, route
- Local News
- Agriculture Product
- Tele Health Center
- Weather Sensor

- E-Learning
- Social Media
- SME Application
- Entertainment
- Tourism

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Thank you!