

The First Japan-EU Symposium on the New Generation Network and the Future Internet

Core R&D for New Generation Network and Future Internet

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What is New Generation Network ?

- NXGN (NeXt Generation Network): NGN

Replacement of legacy telephone

networks using **IP-based** networks to provide triple-play/quadruple-play services over them

Industry is investing their resources to NXGN deployment.

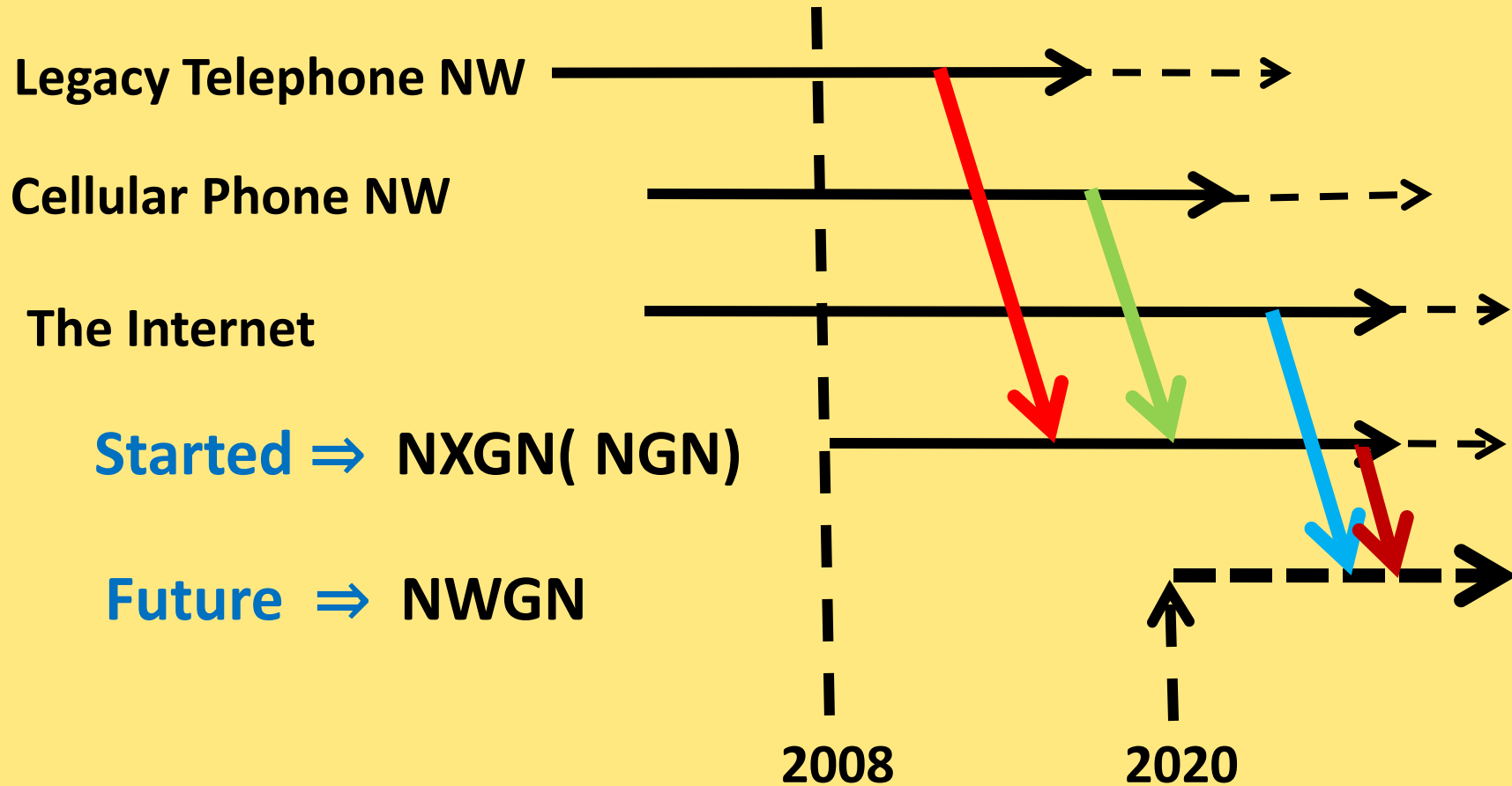
- NWGN (NeW Generation Network)

A network with **Clean-slate Designed** architectures and main protocols different from IP-based

networks, they can be **post-Internet/NGN**

NICT is contributing to promote R&D on NWGN.

An image of a network evolution



NXGN: Next Generation Network (NGN)

NWGN: New Generation Network

Japanese Strategy for NWGN

All Japan Forum ⇒ **NWGN Promotion Forum** established

NICT **NWGN Strategic Headquarter** established

Core of NWGN Architecture Research ⇒ **AKARI Project**
started

Network Testbed ⇒ **JGN2plus** started

Funding for R&D on NWGN in Industry, Academia & NICT

\ 2.1 billion for NWGN technology

\ 3.6 billion for photonic network technology

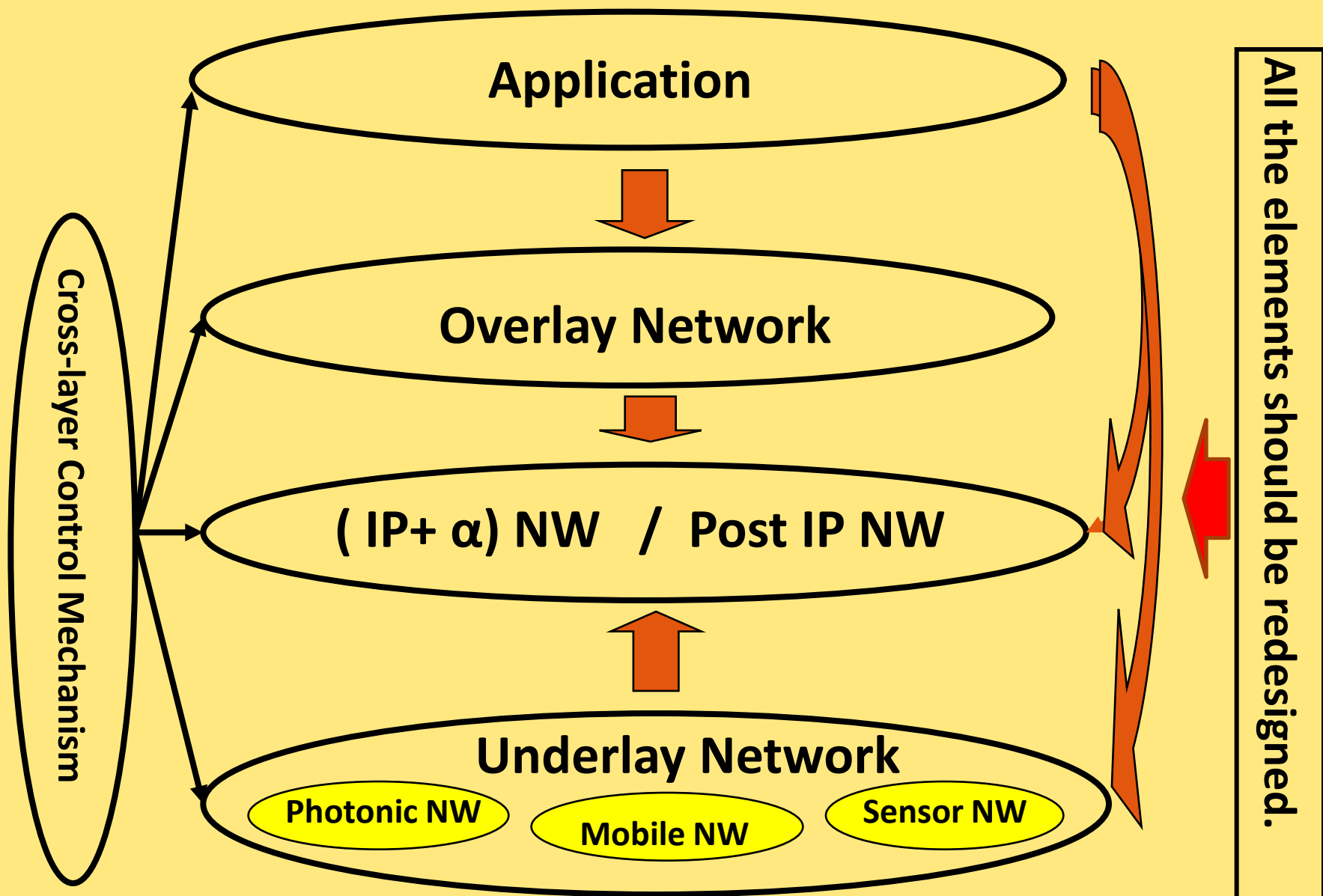
\ 1.5 billion for ubiquitous network platform

} 2008 Fiscal
Year

Collaboration with EU, NSF & C&K

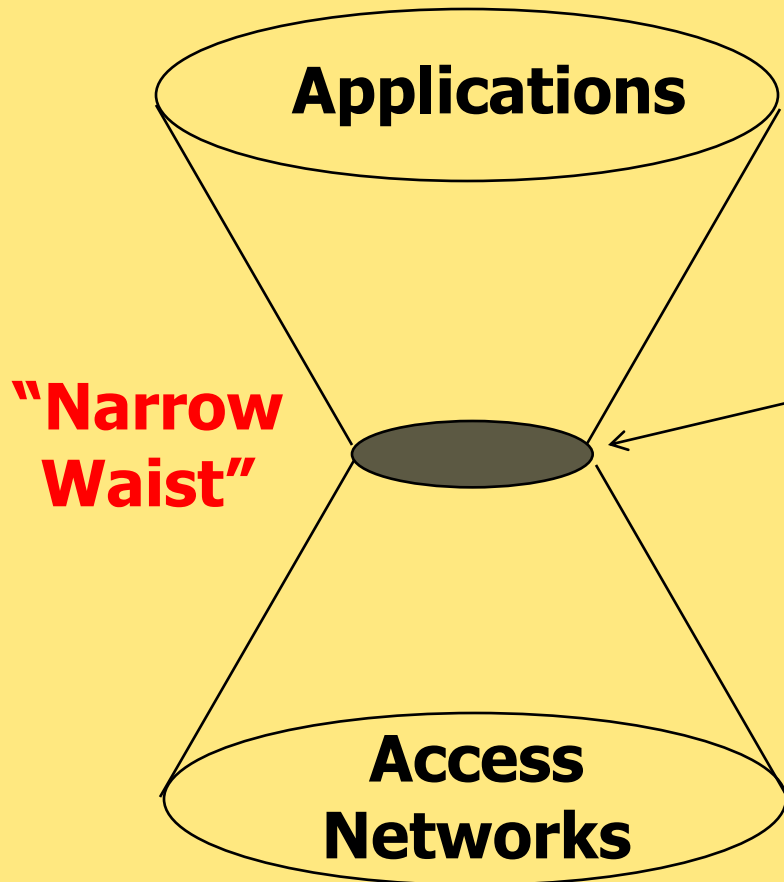
Proposed discussion topics in this session

- What requirements and demands for an ubiquitous information society in 2020s should be considered ?**
- What are the main design principles for NWGN/FI architecture ?**
- What are the key technologies that make impact on a NWGN/FI architectures and protocols?**
- What kind of applications can be considered to make impact on NWGN/FI architectures and protocols ?**



Study Items for NWGN Architecture

Can IP Protocol alone handle the explosion of information in 2020s ?



- Applications
 - Web
 - Email
 - Video/Audio
- **TCP/IP**
- Access Networks
 - Ethernet (LAN)
 - Wireless (LMDS, WLAN, Cellular)
 - Cable
 - ADSL
 - Satellite

Let's climb up to the top !



Keio University

