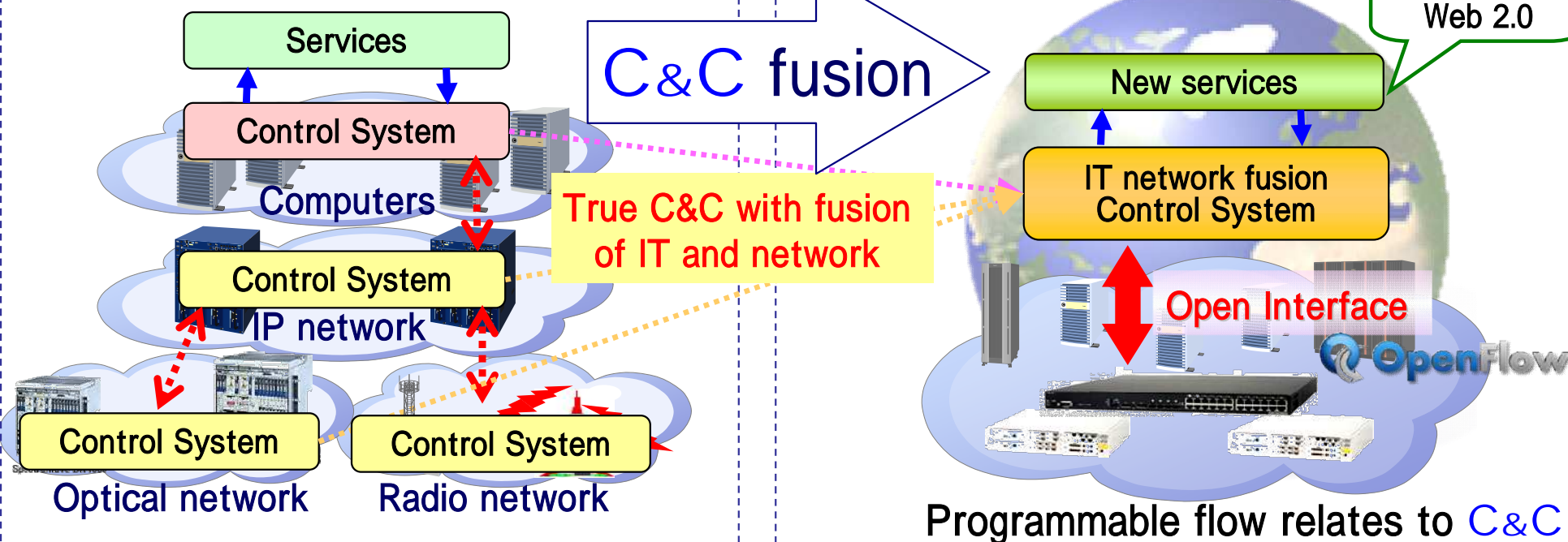


Programmable Flow Switch for Clean-slate Design of Future Internet Architecture

What does it solve?

Computers and network evolve independently to form the ICT infrastructure
 (ready-made infrastructure)
 Uniform setup of provided services

Uses worldwide distribution of computers and network to construct dynamic ICT infrastructures
 (made-to-order infrastructure)
 Allows flexible provision of various services on cloud infrastructure



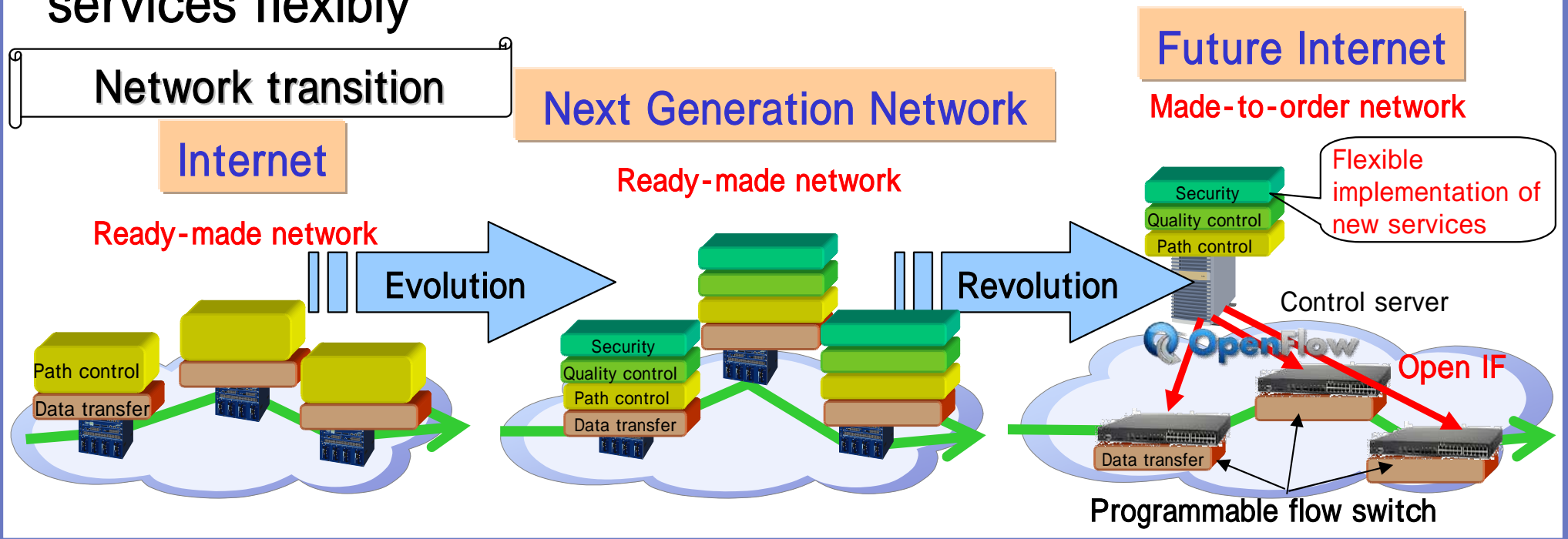
Programmable flow switch

Merits of the technology

Separation of data transfer and network control functions to centralize control function

Free construction of networks suited to various services with Open Interface

✓ Service providers and network providers can implement new services flexibly



Programmable flow switch

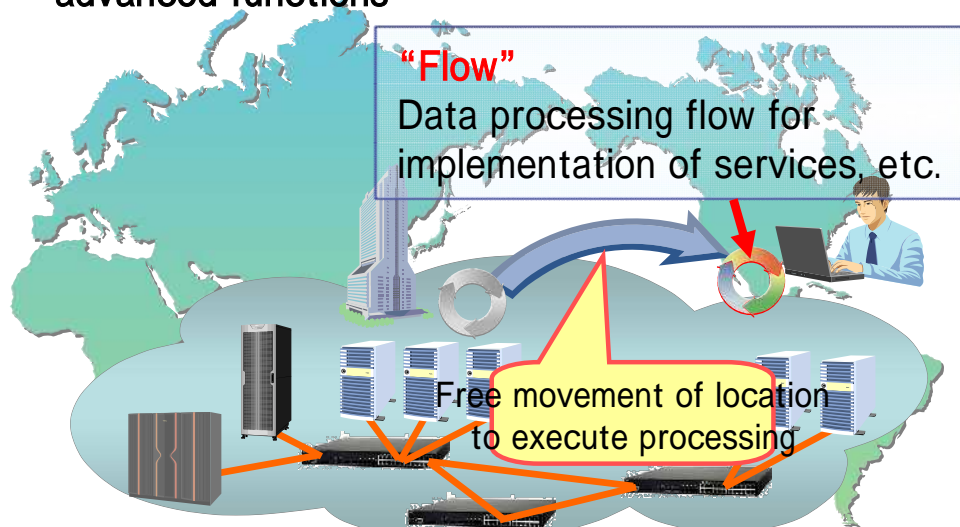
Future development

Market needs/technical prospects

Cloud infrastructure that supports SaaS/PaaS tasks

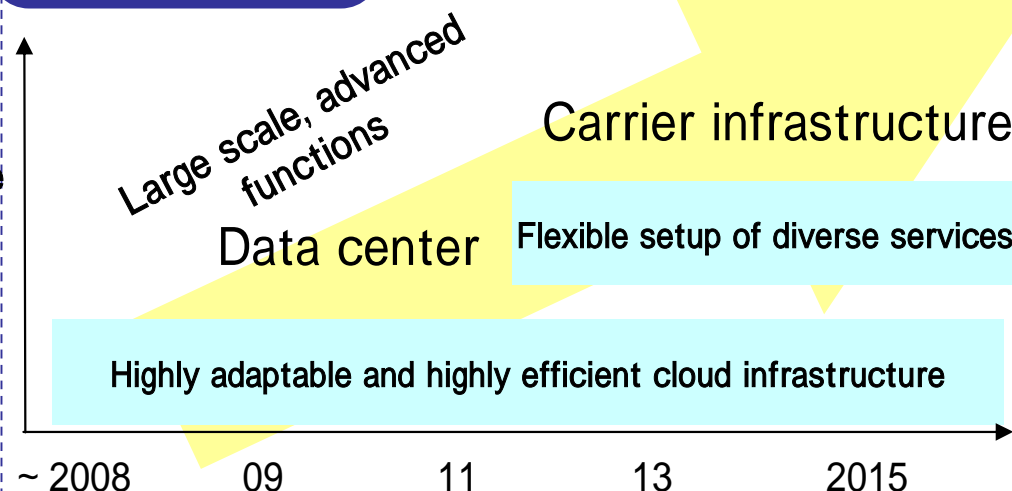
- ✓ Seamless connection of network and computers
- Required services can be provided any time, anywhere
- Coping with data explosion and increased complexity of social systems

Development from datacenter to carrier infrastructure through larger scale and more advanced functions



Made-to-order infrastructure achieved with programmable flow switch

R&D roadmap



Establish global No. 1 technology through promotion of technical innovation by open innovation

- ✓ Success in **world's first** operation of actual system and international cooperation in verification (NEC+NICT+Stanford Univ., Dec. 2008)
- ✓ Collaboration with Stanford University (Clean Slate Laboratory established in Dec. 2008)

Revolutionize the ICT infrastructure field with a programmable flow technology that completely changes Internet mechanisms