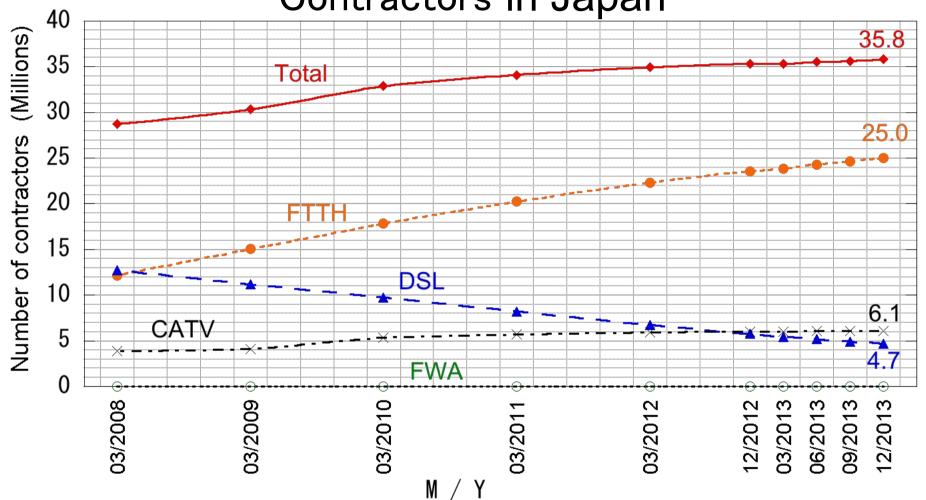
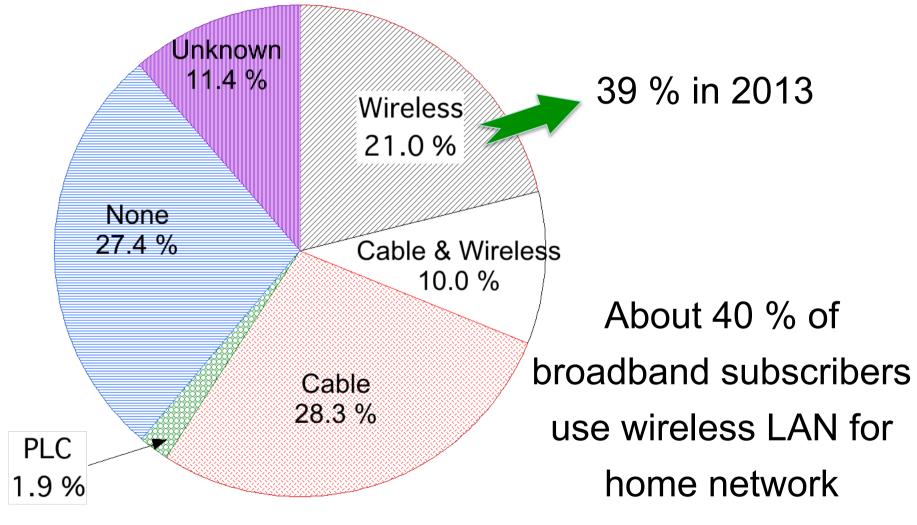
The Numbers of Fixed Broadband Access Service Systems Contractors in Japan



Source: Japan Ministry of Internal Affairs and Communications

Broadband Access service spread widely in Japan

Media Used for Home Network in Japan



Source: ALICE Forum (Jan. 2009)

Standardization Organization in OITDA (Optoelectronic Industry and Technology Development Association) Japan

Standardization General Committee

Standardization Technical Committee

Fiber Optics Standardizatin Committee

Subcommittees

Administrative Advisory

Dynamic Module

In-House Optical Fiber Distribution System

established in 1997

Optical Fiber
Standardizatin Committee

Optical Conector
Standardizatin Committee

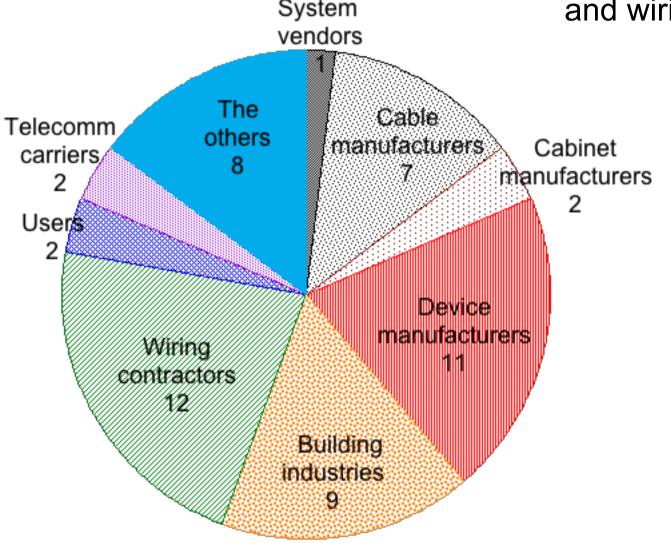
Optical Passive Device Standardizatin Committee

Optical Active Device
Standardizatin Committee

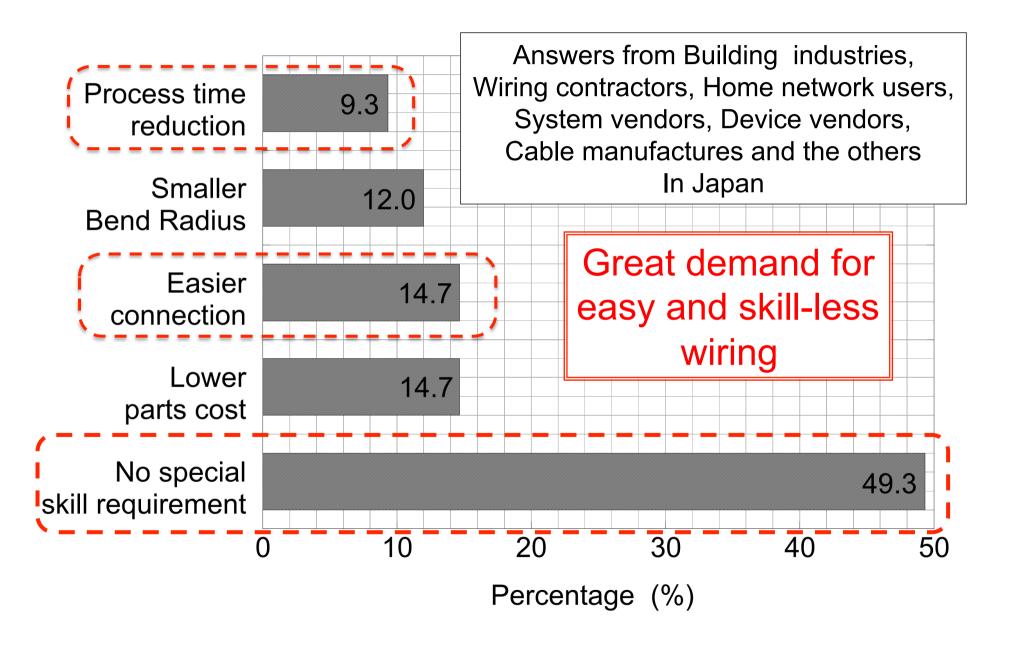
Questionnaire samples

77 answers from OITDA committee members, constructors

System and wiring contractors



Demands for Optical Wiring



Home Network Status in Japan

- 100Mb/s at present =>Wireless may be enough
- NAS in home network and 4k TV require GbE
- 4k IPTV service will be started in 2015
 => Wired network system will be necessary
- Demand for skill-less and low cost wiring
 - => POF is a greatly promising candidate POF increase market potential of Ethernet

Need standardization

The ATM Forum Specified 50m Physical interfaces

AF-RBB-0099.000

4.1 Infrastructure

This specification includes a home infrastructure reference model, which is described below. This is based on two guiding principles:

1. the required reach is 50 meters rather than the 100 meters used in the commercial building wiring environment, due to the smaller area of the home. There is an advantage in using a shorter reach from the transmission point of view for both copper and plastic fiber (POF) based systems

AF-RBB-PHY-0101.000

One of the major house developers in Japan installed POF cables

in their most luxury model with 3 floors.

Maximum cable length was 28 m.

Total length: 140mMaximum length: 28m (Closet - 3F Bedroom)

Sekisui heim

