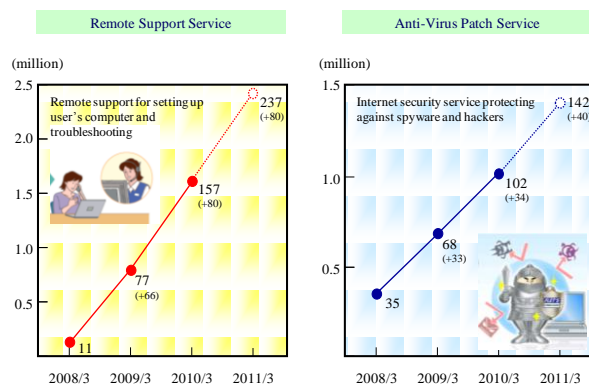


# Impact **Goals** of Research and Development Technology on **the** Business Strategy of NTT's FTTH Deployment

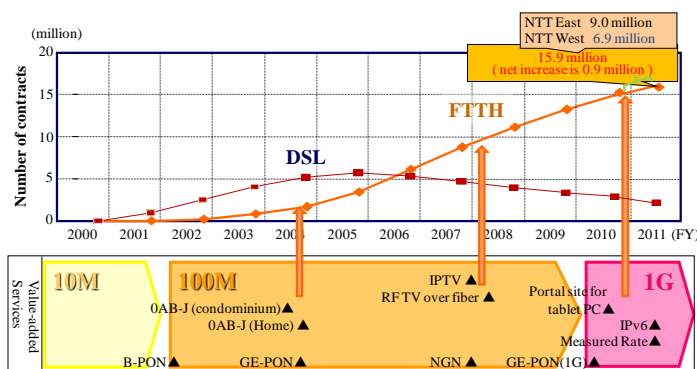
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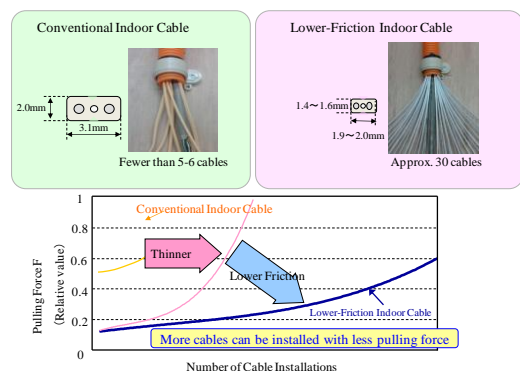
To respond to rising expectations for faster broadband in Japan, NTT groups have been making efforts for the provision and expansion of the FTTH service. For example, **NTT has** continued to introduce various network services such as 10Mbps, 100Mbps, 200Mbps and 1Gbps with low cost, and value-added services (Fig.1) such as remote support service and so on. **The chart in Fig. 2** shows the numbers of subscribers of NTT's FTTH and ADSL services over the last ten years. The number of subscribers of FTTH overtook ADSL in March, 2007. Now, the number of NTT's FTTH services is more than 17 million. As **the a** result, NTT's FTTH share in Japan is more than 70%. On the other hand, we must recognize that the growth of **the** number of FTTH subscribers **is becoming slower** as shown in Fig. 2, so we need new challenges based on technologies to increase the number of FTTH subscribers. In this paper, we introduced NTT's research and development **technology strategies** for expanding the number of optical subscribers. **These include** (1) access infrastructure technologies, (2) fibre technologies such as free bending optical cord and low friction cable (Fig.2) which can reduce FTTH installation cost, (3) transmission technologies and (4) wireless technologies.



**Fig.1** - Value-added services for expanding number of subscribers



**Fig.2** - Numbers of NTT's subscribers



**Fig.3** - Low friction cable technology