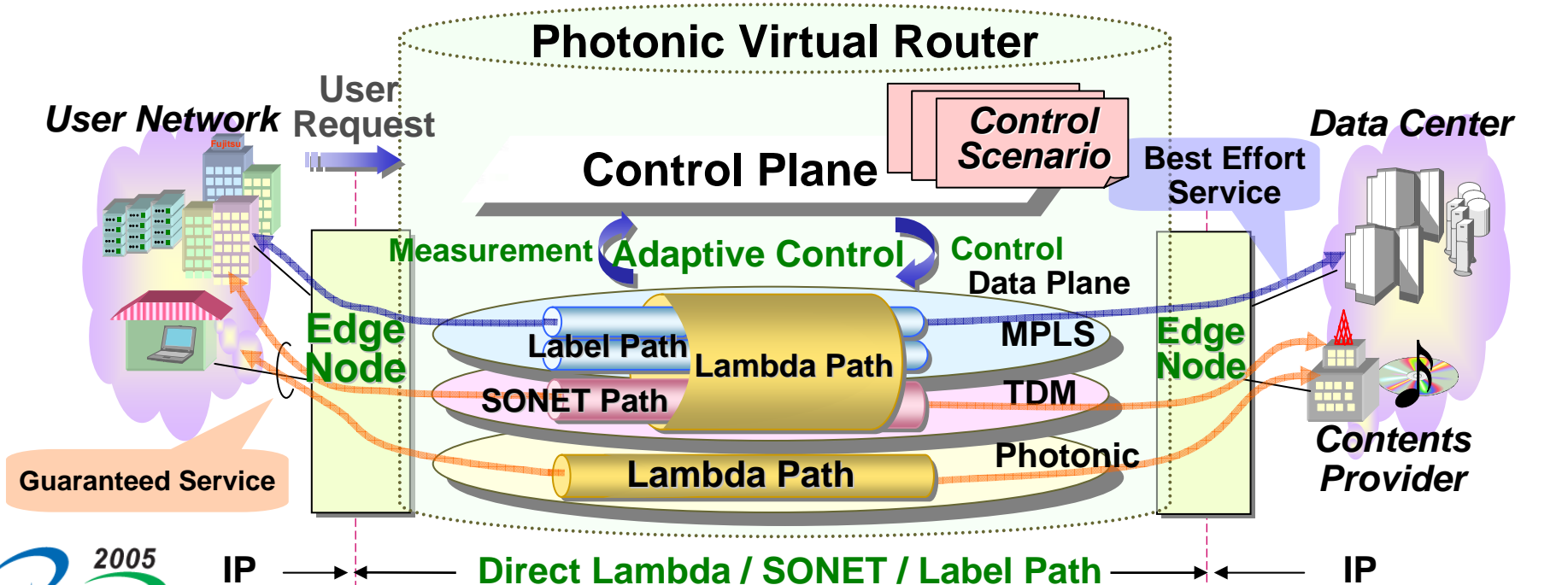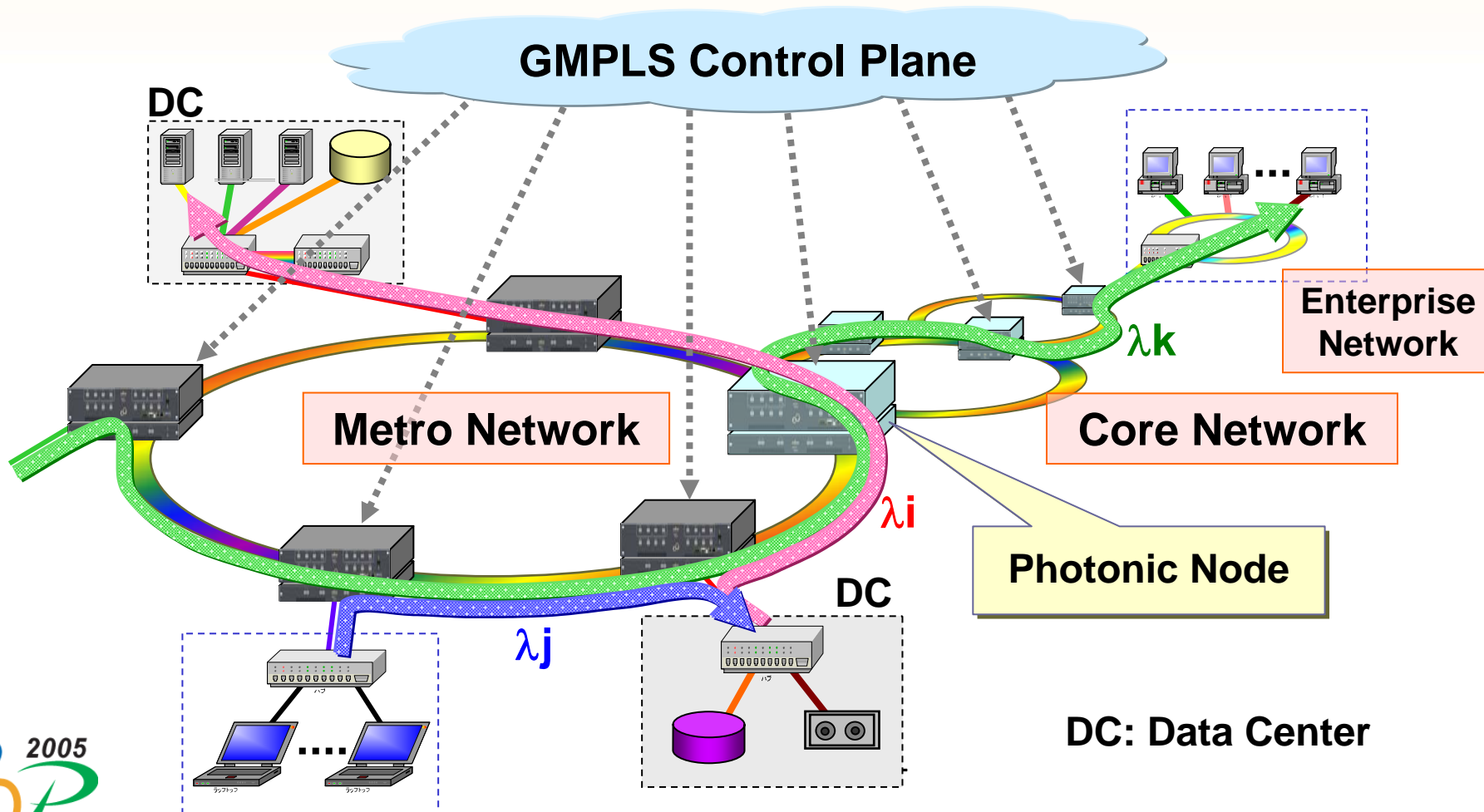**FUJITSU**

Photonic Virtual Router

- **Introducing photonic technologies into IP network**
- **Autonomous and automatic network control using control plane**
- **Offer of various transport plane pipes according to a network service**
- **Provide new services and reduce OPEX/CAPEX**

OPEX : Operational Expenditure
CAPEX : Capital Expenditure

GMPLS Application

- **Deployment of GMPLS Photonic Networks to Enterprise Area**
- **On Demand Optical VPN based on GMPLS control**

GMPLS Control Plane

DC

λk

Enterprise Network

Metro Network

Core Network

λi

Photonic Node

λj

DC

DC: Data Center

2005
iPOP
IP+Optical Network