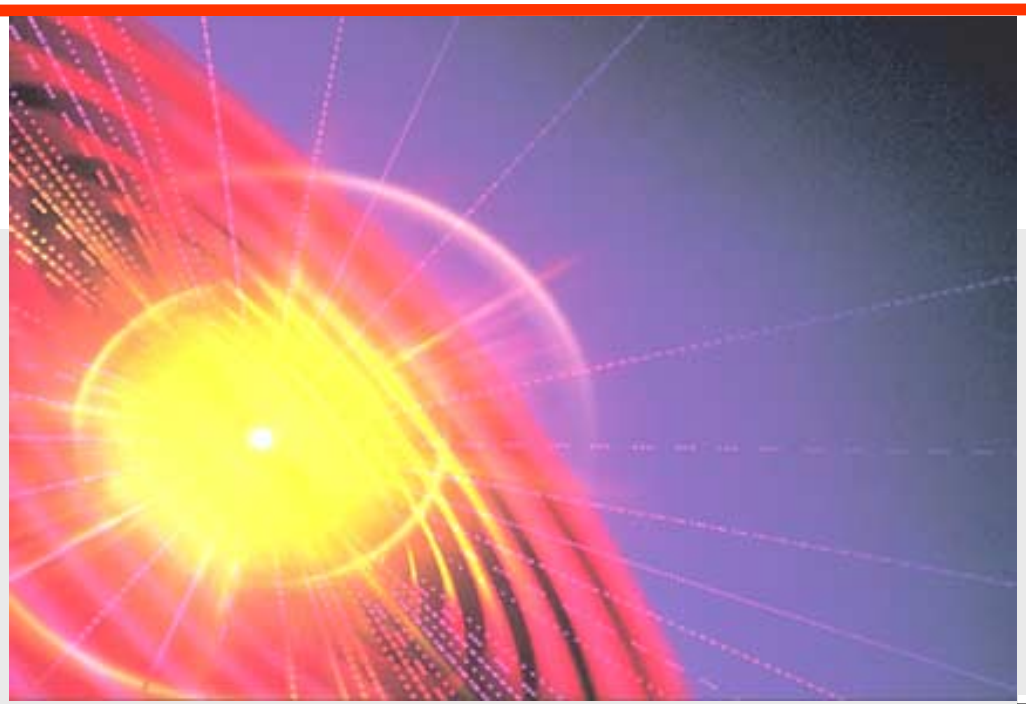

….. Access solutions

CH-6592 San Antonino Switzerland
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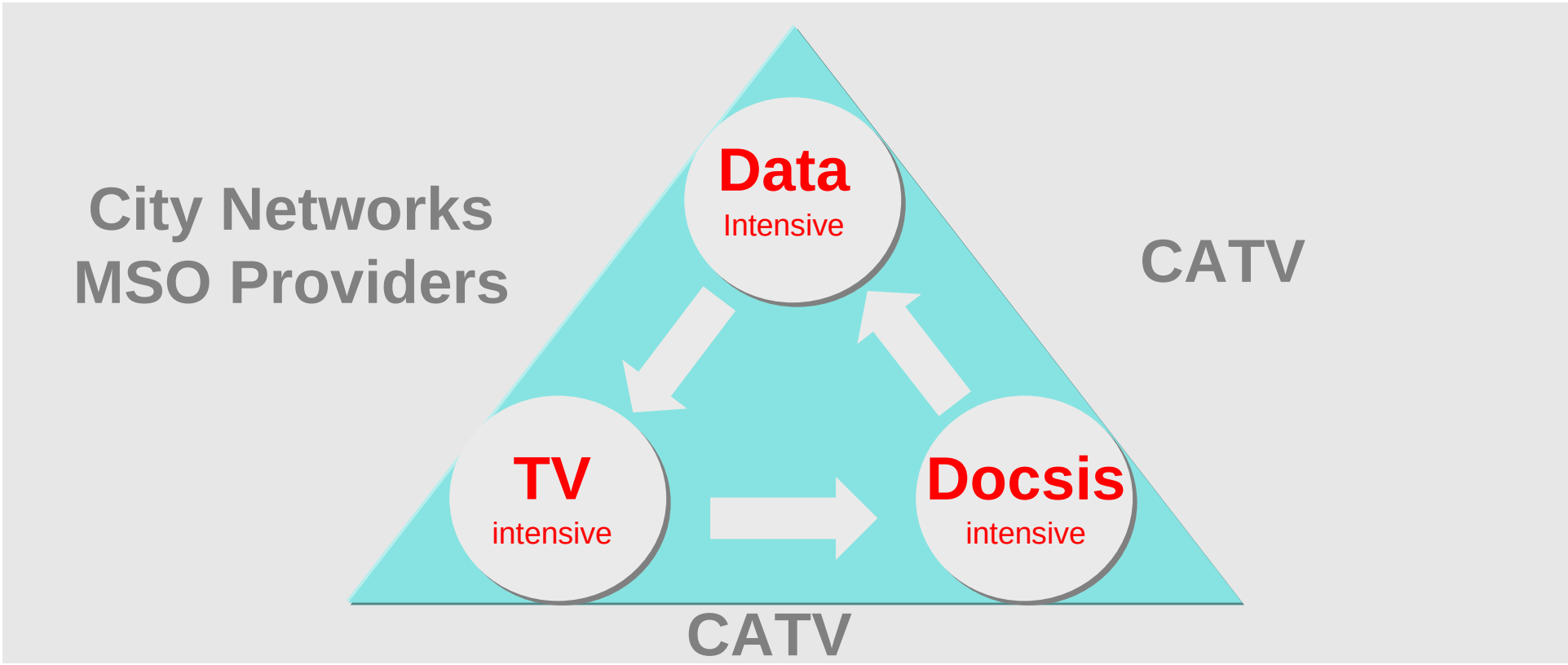
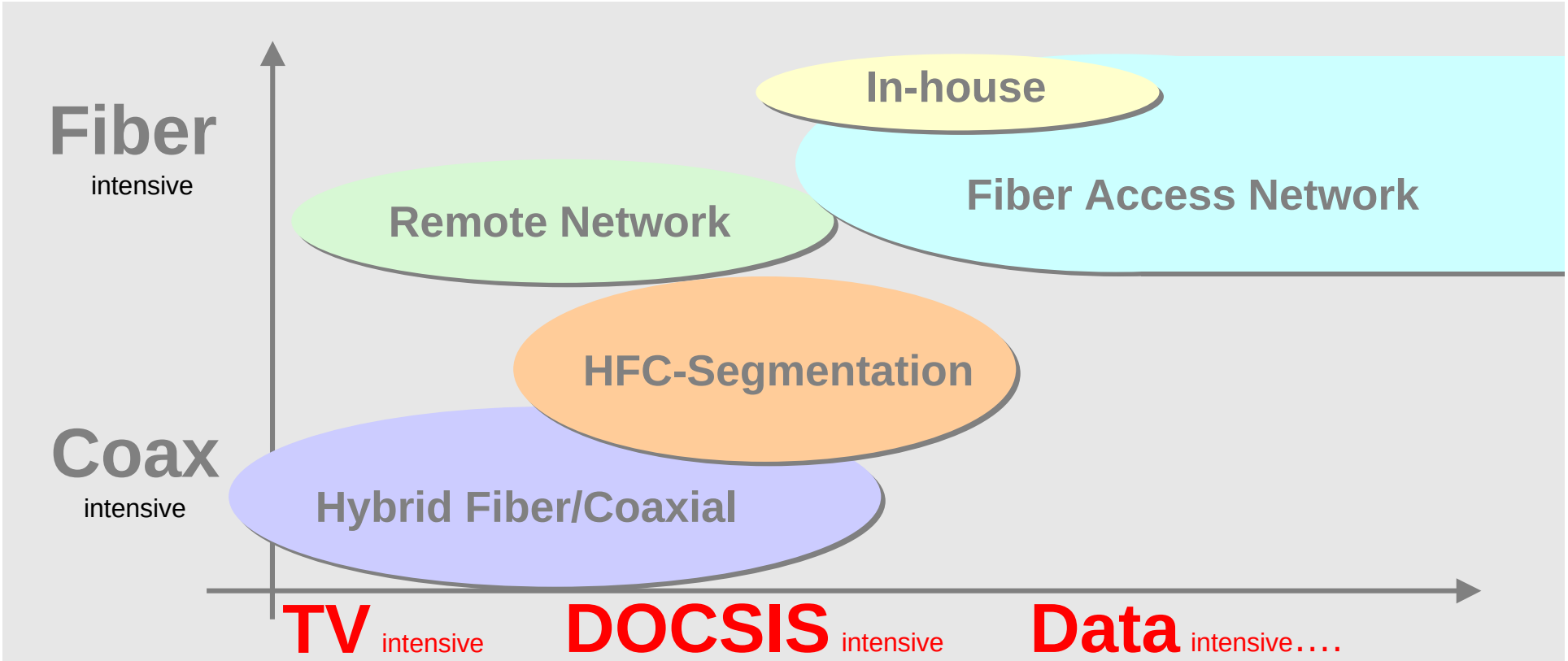
Migration


City Networks
MSO Providers
Data
Intensive
CATV
TV
intensive
Docsis
intensive
CATV

Objectives vs. Access solutions



Access solutions - Applications

HFC Network Hybrid Fiber/Coaxial	Conventional Fiber-Node CATV Architecture
HFC-Segmentation	Evolution of deployed CATV Fiber-Node Architectures
Remote Network	Low Density Community CATV Architectures
Fiber Access Network	Home-run Fiber Architectures
In-house	Internal Fiber Cabling

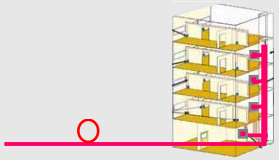
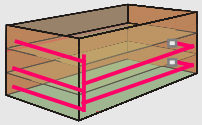
Access solutions - Key Benefits

HFC Network Hybrid Fiber/Coaxial	Excellent for TV broadcast. Mature and well understood system architecture Long experience
HFC-Segmentation	Increase DOCSIS Bandwidth capabilities. Use of standard-based product
Remote Network	Excellent for low Density Community environment. Eliminates outside plant electronics Minimise operation & maintenance costs
Fiber Access Network	Adapts well to IP emerging services, 10/100Mbs Ethernet Facilitate customer expansion Seamless integration with legacy topologies. Eliminates need of RF Amplifiers
In-house	Convergence of services Immunity, Space saving Minimise operation & maintenance costs

Access solutions - Motivations

HFC Network	CATV - Conventional Fiber-Node Architecture
HFC - Segmentation	CATV - Increase DOCSIS Bandwidth capabilities
Remote Network	CATV - Low Density Environment Solutions
Fiber To The User	CATV - Migration towards IP Multimedia Network
Tree Network	CATV - Fiber Saving Architectures
Fiber Access	MSO Provider - IP Emerging Services and Broadcast TV
In-house	LAN Network - Broadcast TV “Overlay” solutions

Fiber Access Configurations

	Fiber optic ends:
FTTC Fiber-To- The Cabinet	 ***at local cabinets**, typically a Node cabinet.* *Distribution/internal cabling over Copper-based infrastructure*
FTTB Fiber-To- The Building	 ***at basement** of Multitenant or Business Buildings* *Internal cabling over Copper-based infrastructure*
FTTH Fiber-To- The Home	 ***at basement** of residential houses.* *Internal cabling over TP/coax-based infrastructure*
FTTU Fiber-To- The User	 ***Inside the house**, typically the living room.* *Internal cabling over Fibre optic-based infrastructure*
FTTD Fiber-To- The Desk	 ***at the desktop**, office environment.* *Internal cabling over Fiber optic-based infrastructure*

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Access solutions - Overview