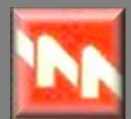


IEC Future Internet Vision

Yosi Shneck
VP, Information Systems &
Communication
Israel Electric



IEC – Who we are?



2010 April 15

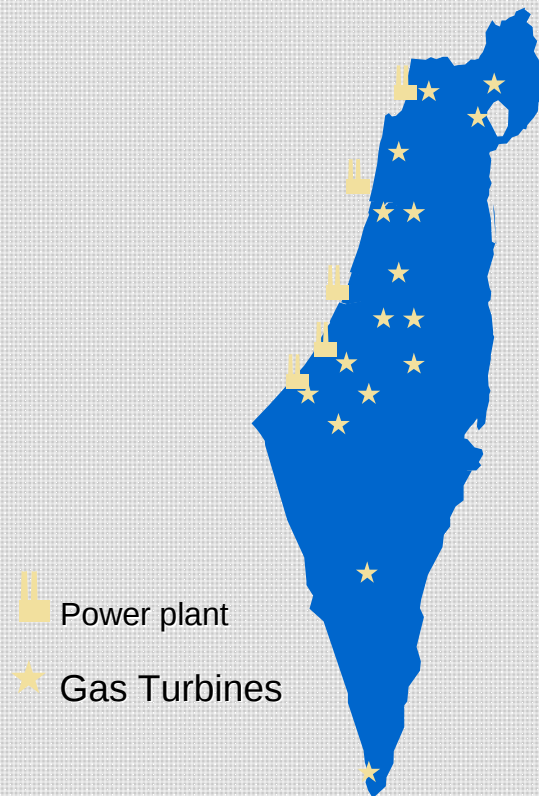
Future Internet Forum, Valencia

2



Israel Electric

Israeli Energy Market Operating Statistics



Capacity (MW)	12,000
Peak Demand (MW) ¹	10,200
Electricity Sales (GWh)	49,323
Population (millions)	7.2
Customers (millions)	2.4
Revenue (\$ in millions)	5,009
Total Assets (\$ in millions)	17,934

Our Vision

- Creating countrywide “neutral” end to end high speed communication infrastructure to support national and bussiness goals by enabling:
 - Supper broadband applications
 - Cloud computing infrastructre
 - Smart grid infrastructure
 - Mobility infrastructure

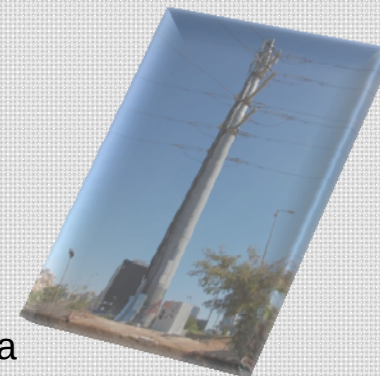


IEC assets & advantages

- 2.600Km FO backbone
- 270 premises for main backbone nodes
- Thousands of premises for equipment installations
- Right of way
- High level trained and experienced workforce
- Better T2M
- More attractive price for end user

Way of Action

- **FTTH using the overhead & underground electrical grid**
 - Domestic
 - Commercial & Industrial
 - Culture, Sports & Education
- **RAN – Radio Access Network for cellular providers**



Main Technology

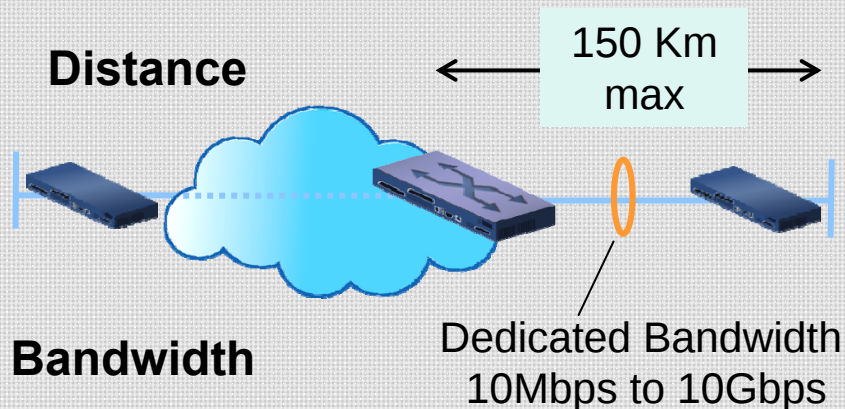
- **Backbone – High voltage grid**
 - FO: OPGW (90%), WRAP (9%), UG(1%)
 - PRO: IP/MPLS
- **Access – Medium & LV Grid**
 - FO: Figure 8, ADSL (All-Dielectric self Supporting)
 - PRO: GPON, EP2P
- **Services**
 - Carrier Ethernet Service
 - RAN – Wimax, LTE



Optical Technologies – Access Network

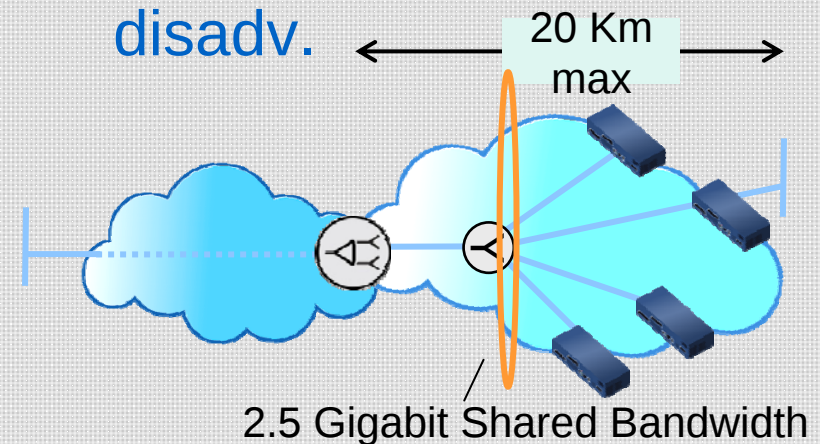
EP2P

- Active optical network
- Based on P2P links
- Distance & bandwidth adv.



GPON

- Passive optical network
- Based on passive optical splitters
- Price attractive
- Distance & bandwidth disadv.



Carrier Ethernet Services

- **E-Line service:**

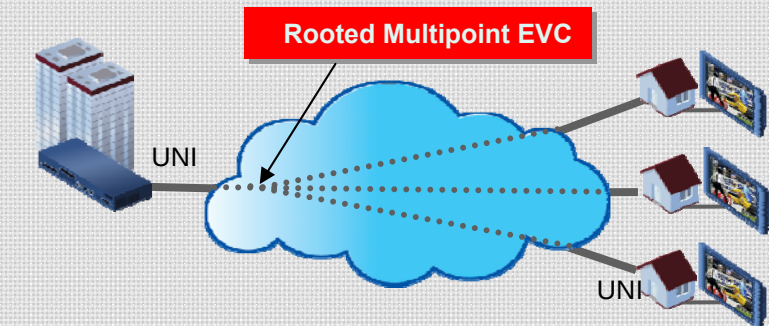
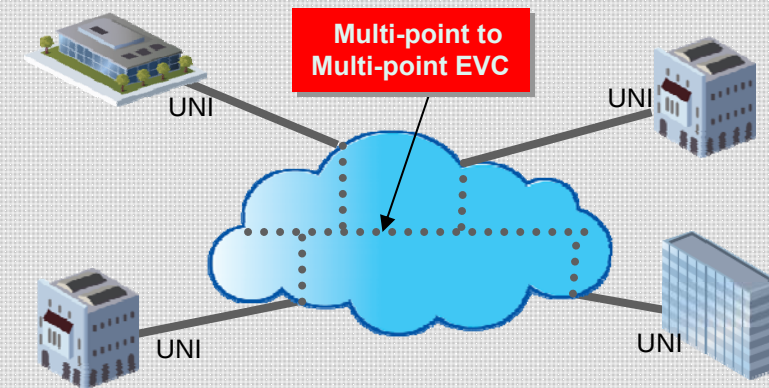
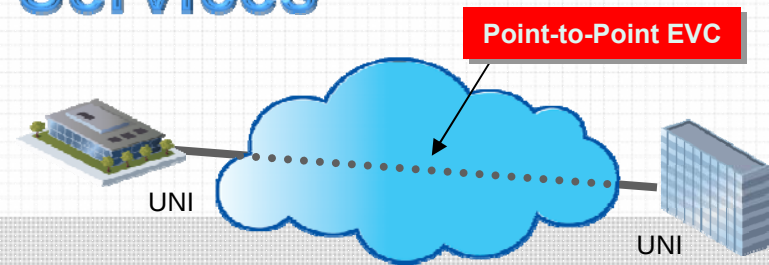
- Ethernet Private Line EPL
- Virtual Private Line
- Fast Internet Access
- IP-VPN & etc. services

- **E-LAN service:**

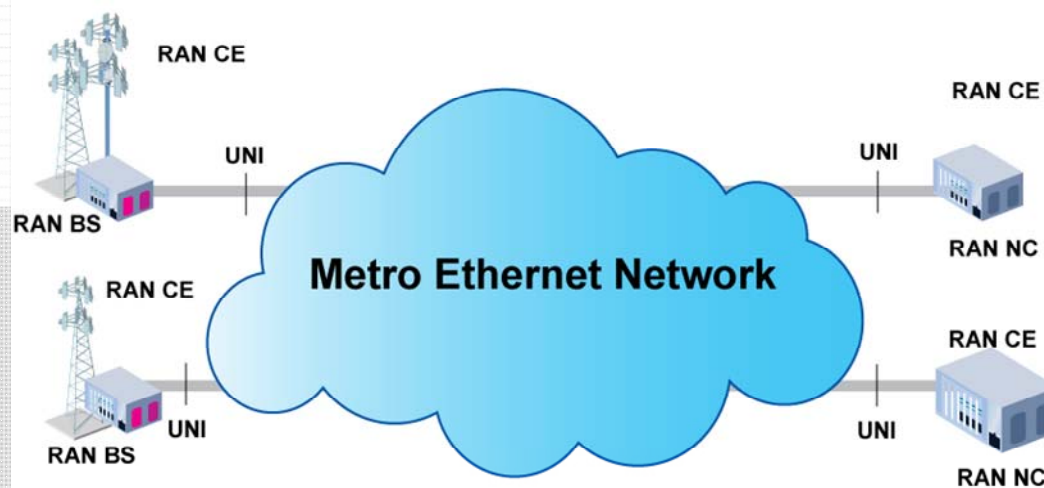
- Layer 2 Private Virtual Network
- Transparent service
- Multicast

- **E-Tree service:**

- Point to Multipoint(P2MP)



Access Network Services

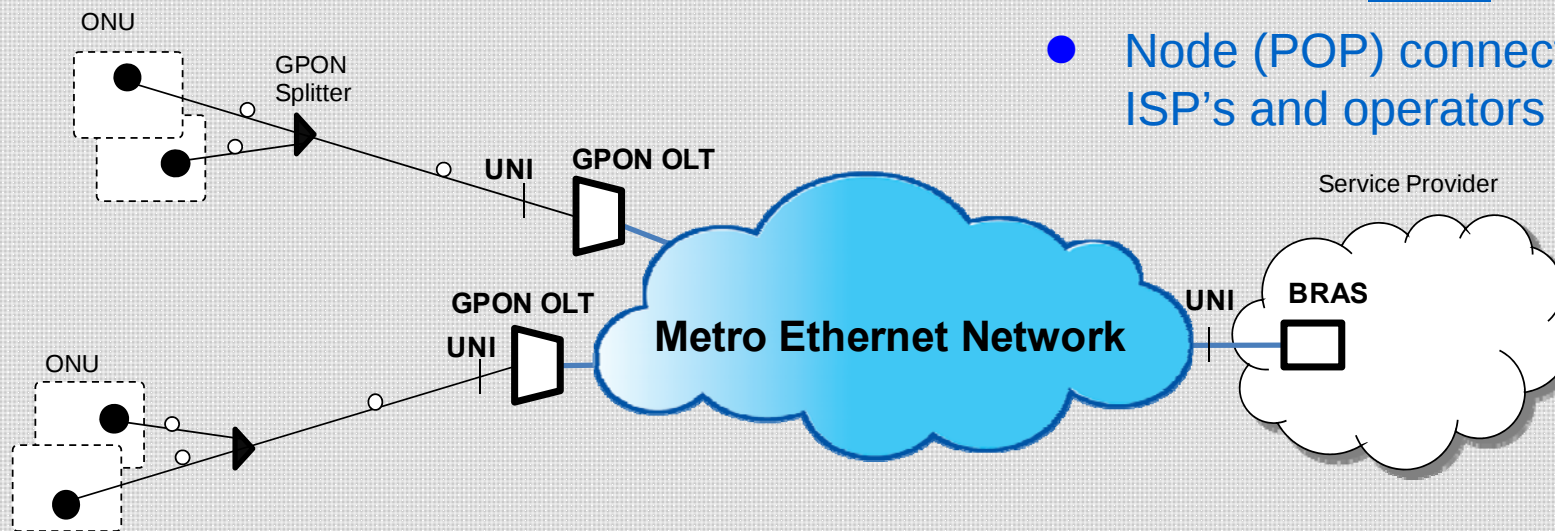


Mobile Backhaul

- Base station network to the cellular operator

FTTH

- Node (POP) connection for ISP's and operators



Process & Volume

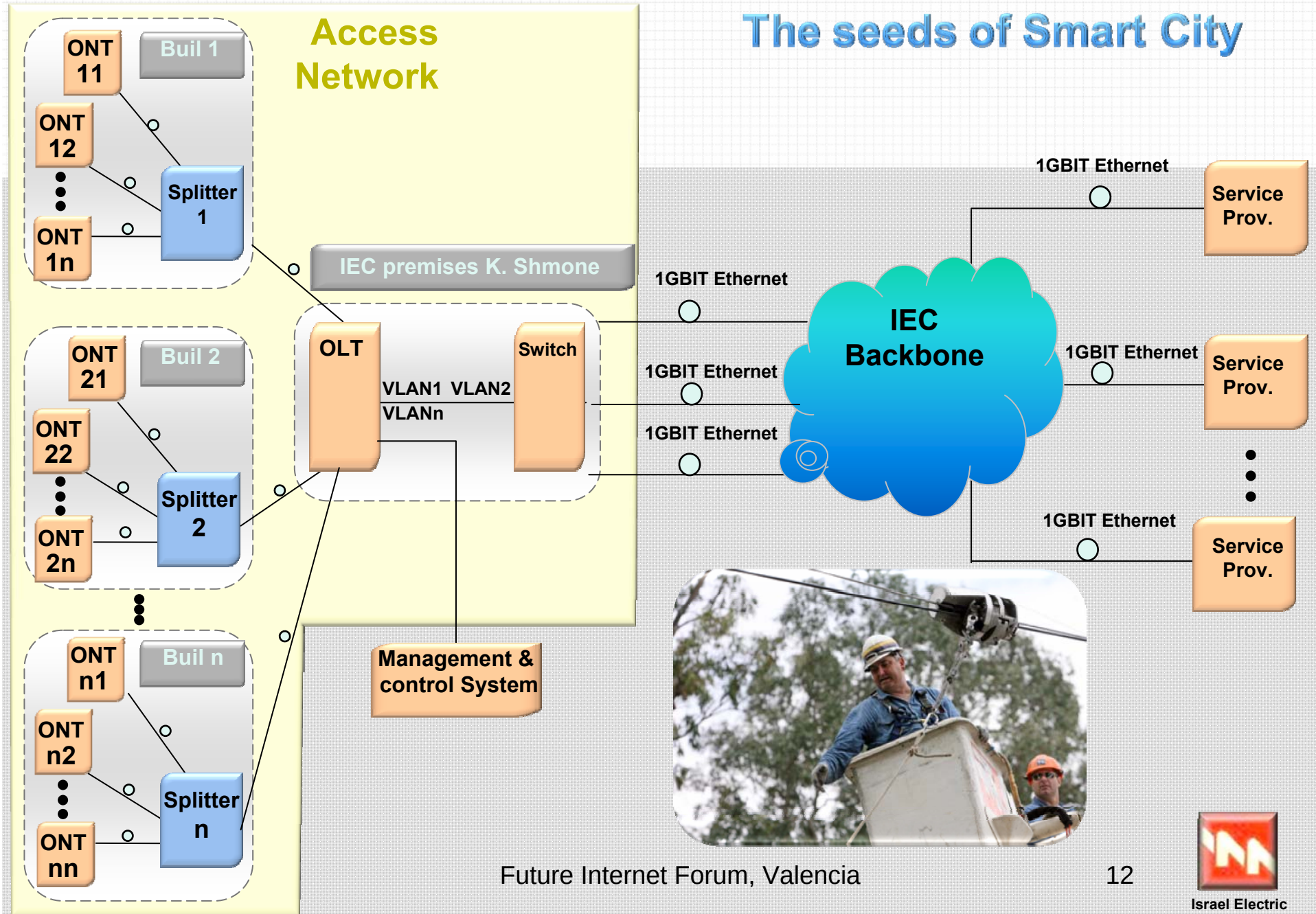
Process - Action	Status
FTTH POC pilot at Kiriat Shmone (150 customers)	In progress
RAN POC pilot	In progress
FTTH commercial pilot approval (15,000 customers)	Expected end of 2010
FTTH final approval	Q2/2011
RAN final approval	Q4/2010
FTTH & RAN start of application	2011

Volume – Action (5 years)	Qty
Backbone Fiber	1,000 Km
Access Fiber	30,000 Km
Main Nodes	30
POP's	1,200
RAN base stations	2,500
Commercial and industrial customers	3,000
Domestic customers	500,000



Kiriat Shmone Pilot

The seeds of Smart City



Thank You

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