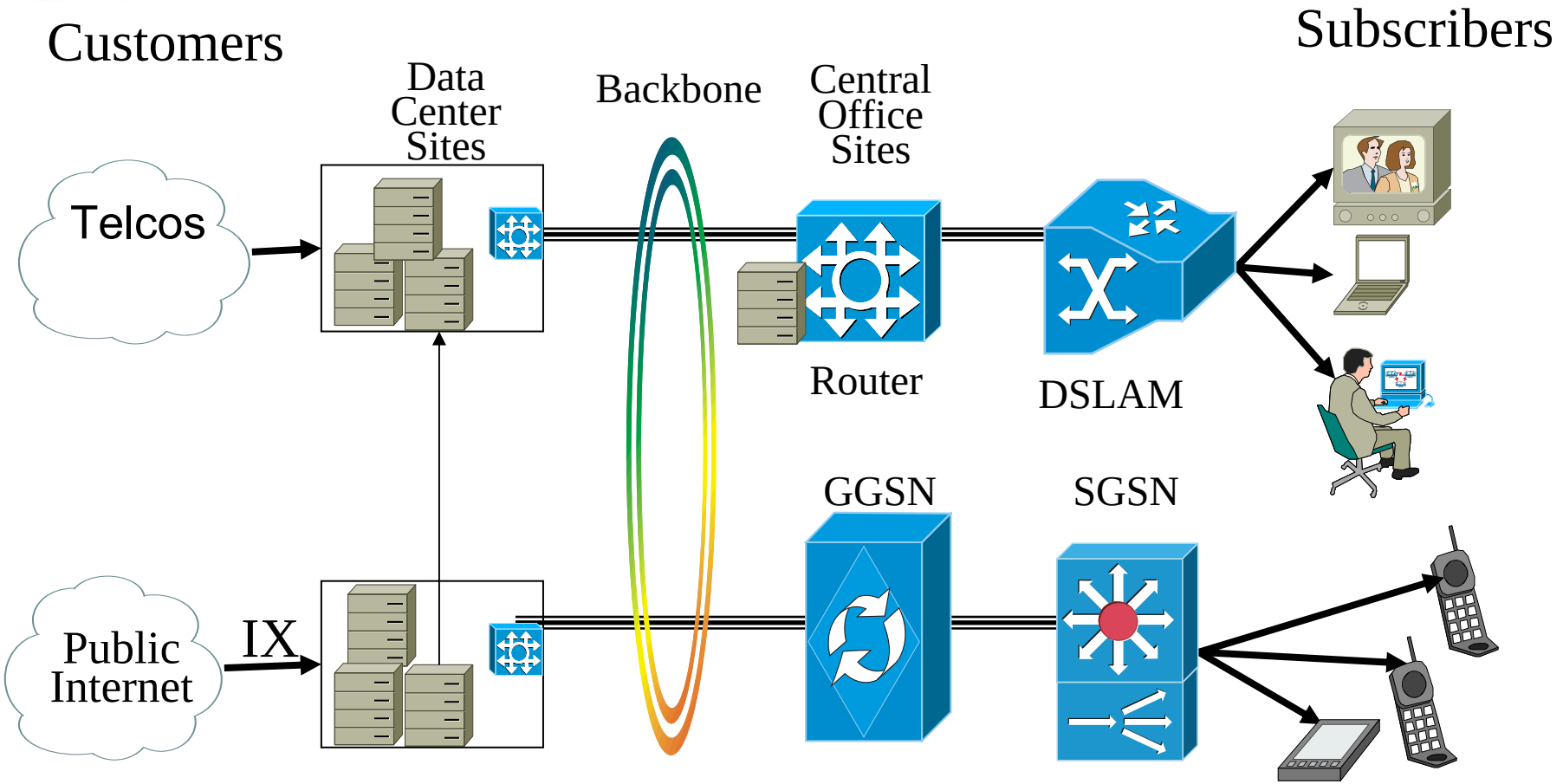
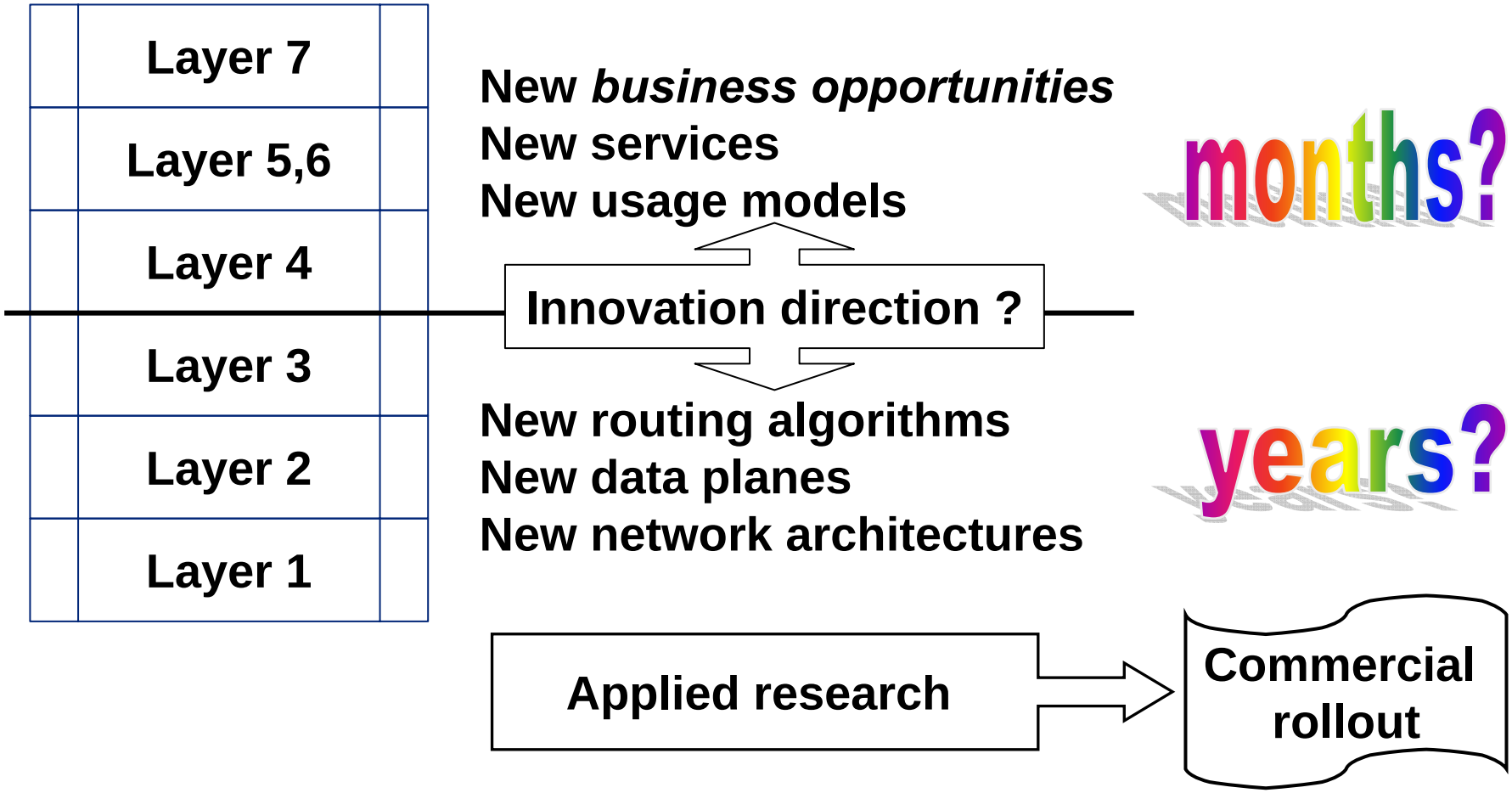
Fireworks initiative

Marcin Pilarski
2008 Orange Star
Polish Telecom

Commercial networks reality



Innovation is needed, but where needed most ?



Regarding: Fireworks Event, Paris City Hall

Services at PlanetLab/OneLab

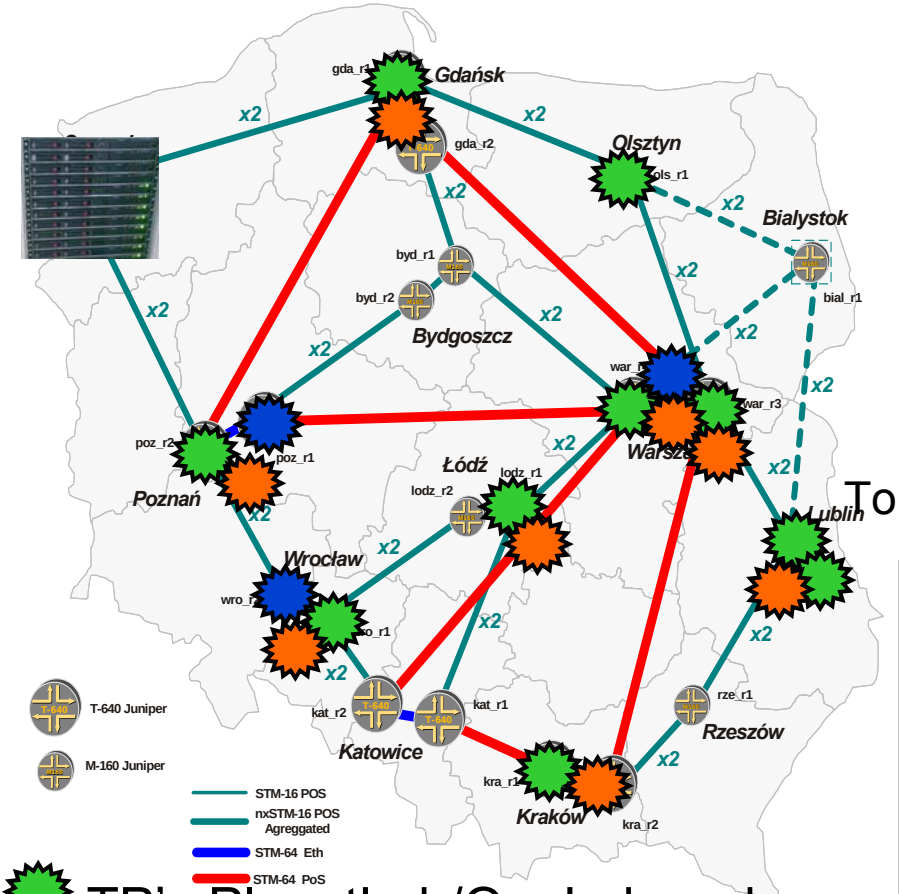
- Scalable Large-File Transfer: CoBlitz (Princeton), LoCI (Tennessee)
- Content Distribution: Coral (NYU), CoDeeN (Princeton), CobWeb (Cornell)
- Distributed Hash Tables: OpenDHT (Berkeley), Chord (MIT)
- Routing Overlays: I3 (Berkeley)
- Multicast Delivery Nets: End System Multicast (CMU), Tmesh (Michigan)
- Serverless Email: ePOST (Rice)
- Publish-Subscribe News Access: Corona (Cornell)
- Robust DNS Resolution: CoDNS (Princeton), CoDoNs (Cornell)
- Mobile Access: DHARMA (UPenn)
- Location/Anycast Services: OASIS (NYU), Meridian (Cornell)
- Internet Measurement: ScriptRoute (Maryland), iPlane (Washington)

Above services communicate with >1M real users and transmit ~4TB of data per day

PLANETLAB
An open platform for developing, deploying, and accessing planetary-scale services

OneLab
FUTURE INTERNET TEST BEDS

TP IP/MPLS backbone network topology and PlanetLab/OneLab nodes



TP's PlanetLab/OneLab nodes

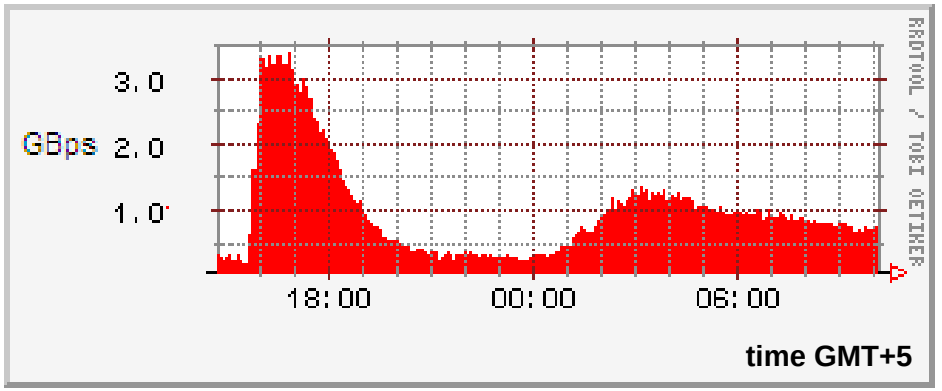
academia networks nodes

tpPLC network nodes

TP R&D focus at network services innovation:

1. Leverage PlanetLab architecture in order to deeply evaluate mature services from academia.
2. tpPLC is **first Telco** deployment of MyPLC service delivery platform for commercial services.

Tomasz Lis' debate content release Sep-27 2007



Aggregated traffic demand

Regarding: Fireworks Event, Paris City Hall

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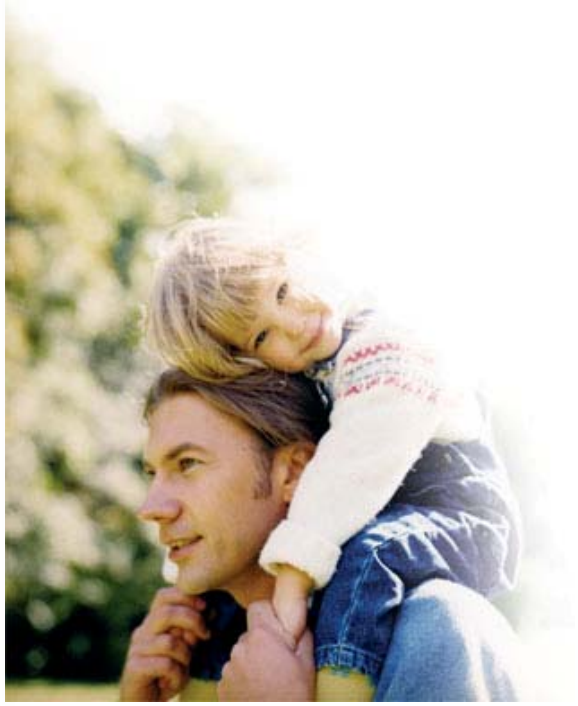

Thank you