

Workshop 5/1 There is Life After Fiber (Rollout)

Organised by:









Status of FttH roll out in the Netherlands

Mathieu Andriessen - managing director

































































































































































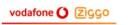






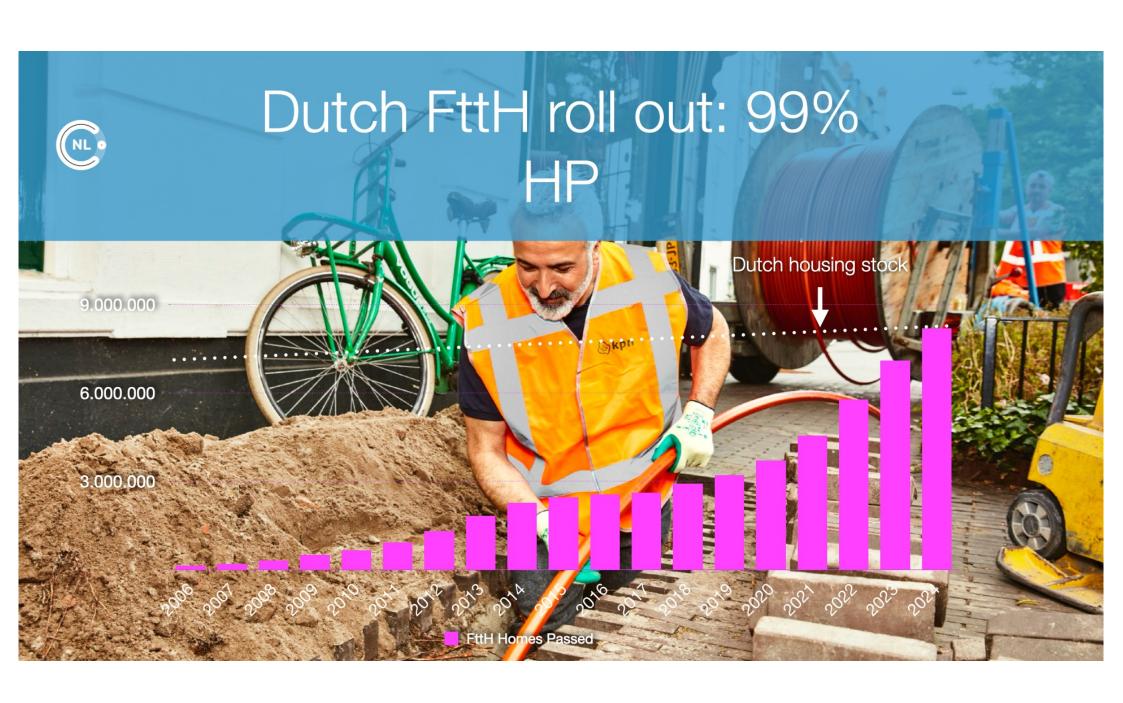






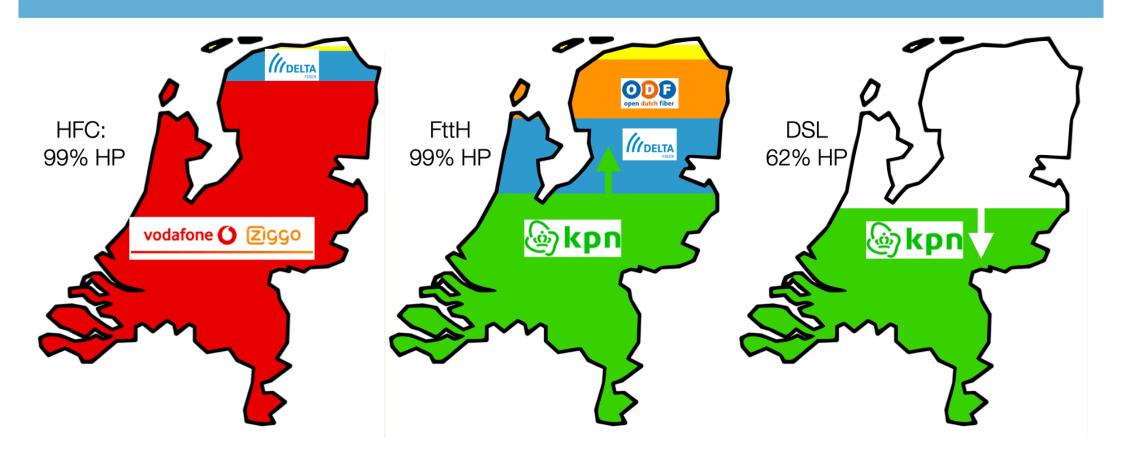






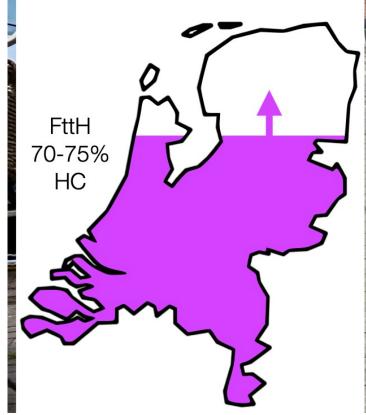


Two fixed gigabit networks + copper switch off

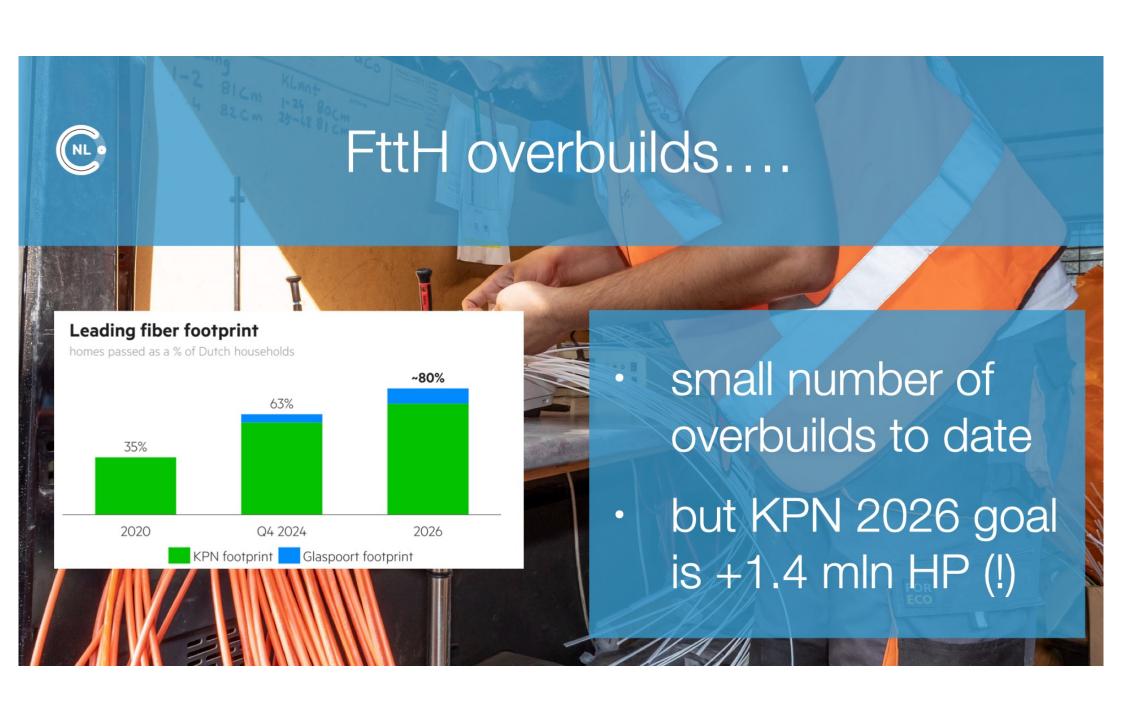




HP≠HC: ± 2.5 mln homes remain to be connected

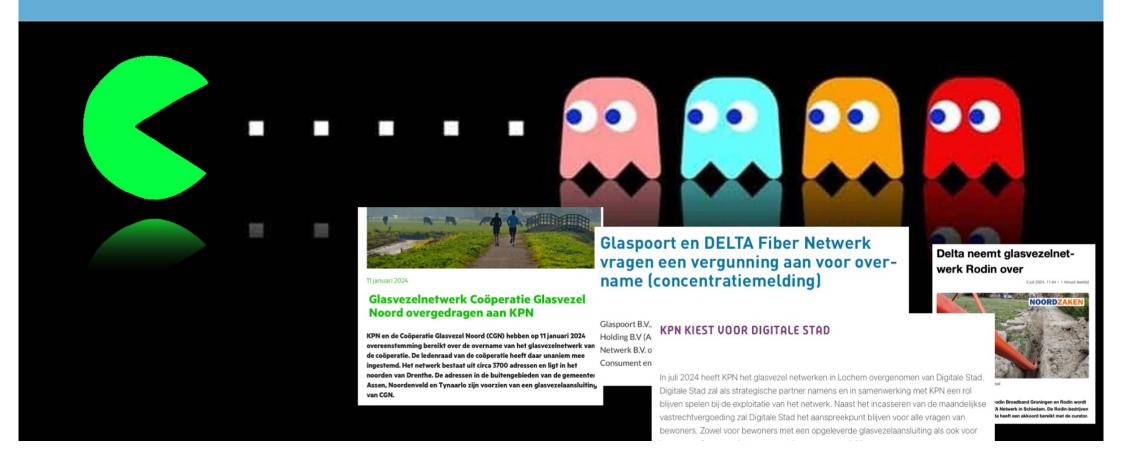








....or consolidation?





FttH due to overtake DOCSIS Homes Activated



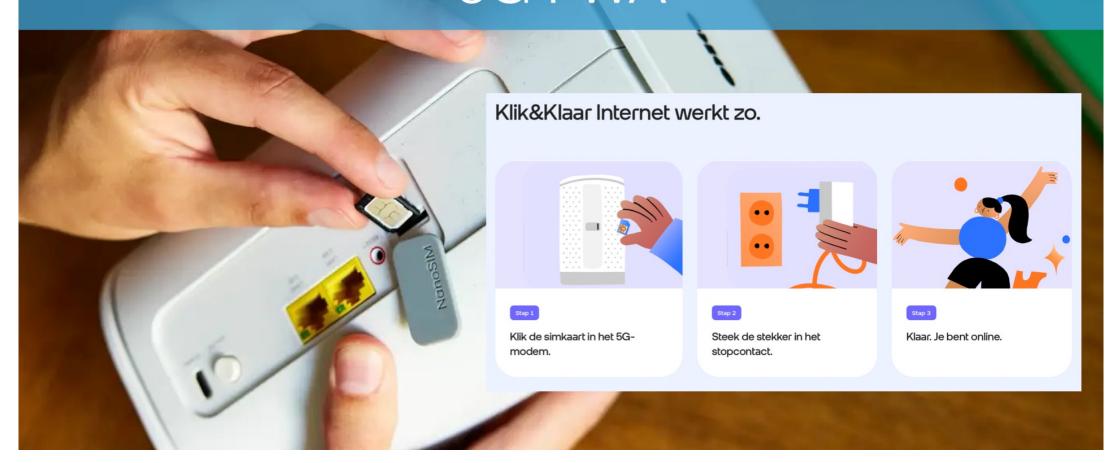


Opportunity for FttH growth: gigabit demand





Challenge for FttH growth: 5G FWA





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Building Resilient Networks for a Connected Future

NLconnect Workshop

AFIBER

March 25th 2025 – Jochem de Gruyter, CEO at AFIBER

AFIBER: PERSONAL. RELIABLE. TRUSTED.

- Dutch specialists in high-performance FTTO and Datacenter connectivity
- Providing reliable B2B network solutions: Dark Fiber, Wave, EPL, DIA
- Experience in secure, redundant, and high-availability networks
- National and international customers that require 24x7 uninterupted services



youfone







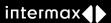










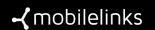
















CHALLENGE: CONSUMER NETWORKS AT RISK

- Animals, rodent damage
- Damage caused by vehicles, machinery (excavation damage), or maritime activities (dragging damage)
- Vandalism, terrorism, planned sabotage
- Natural disasters, storms, earthquakes
- Data intrusion, unauthorized eavesdropping/tapping, in-flight data manipulation
- Unauthorized access and activities



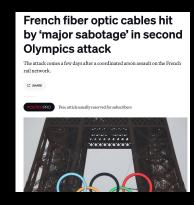




CHALLENGE: CONSUMER NETWORKS AT RISK

- Accidental fiber cuts (construction, gardening, roadwork)
- Cyber threats targeting home and business networks
- Increased **demand for reliability** with remote work, IoT, and home apps
- Critical impact of outages on communication, healthcare, and security











BEST PRACTICES FROM BUSINESS NETWORKS

- 1. Implementing diverse and redundant paths for resilience
- 2. Proactive network monitoring and Automated & Al-driven fault detection
- 3. Standardized security measures to protect consumer data
- 4. Collaboration between ISPs, infrastructure providers, and government bodies







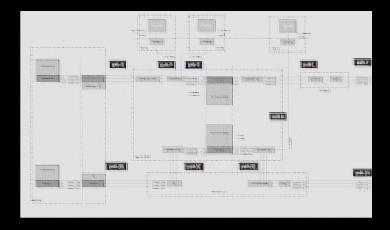






BEST PRACTICES FROM BUSINESS NETWORKS

- Addressing in-home network reliability (WiFi optimization, fiber-to-the-room)
- Strengthening cybersecurity for home networks (firewalls, encryption)
- Providing critical redundancy for smart homes and emergency services
- Policy and industry collaboration to drive resilient consumer networks







ENHANCING CONSUMER NETWORK STABILITY

- Deploying automated failover mechanisms to ensure uninterrupted service
- **Redundancy** at multiple levels: backbone, last mile, and in-home networks
- Improving ONT resilience and edge device robustness
- Disaster recovery and alternative routing for consumer fiber networks
- Create a national ISP backup programme to support emergency coverage





BUILDING RESILIENT FIBER NETWORKS FOR ALL

- **Network resilience** is key to uninterrupted digital experiences
- Lessons from enterprise fiber design can enhance consumer reliability
- Industry collaboration needed to protect consumer infrastructure
- Let's work together to ensure a more connected, secure future







THANK YOU

Physical Layer Components Security Risks in Optical Fiber Infrastructures

https://www.mdpi.com/1424-8220/22/2/588

Red Sea cables: How UK and US spy agencies listen to the Middle East

https://www.middleeasteye.net/news/red-sea-cables-how-us-uk-spy-agencies-listen-middle-east

Physical-layer security in evolving optical networks

https://ieeexplore.ieee.org/abstract/document/7537185

Security threats and protection procedures for optical networks

https://ietresearch.onlinelibrary.wiley.com/doi/full/10.1049/iet-opt.2016.0150

Analyzing vulnerability of optical fiber network considering recoverability

https://www.sciencedirect.com/science/article/abs/pii/S095183202100778X





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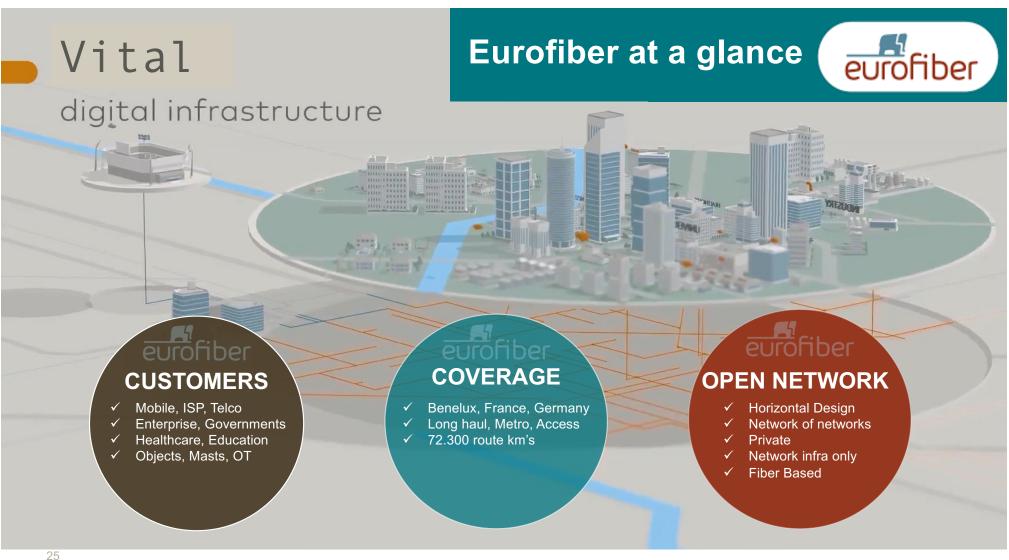














Where fiber-optic ends, we continue wirelessly

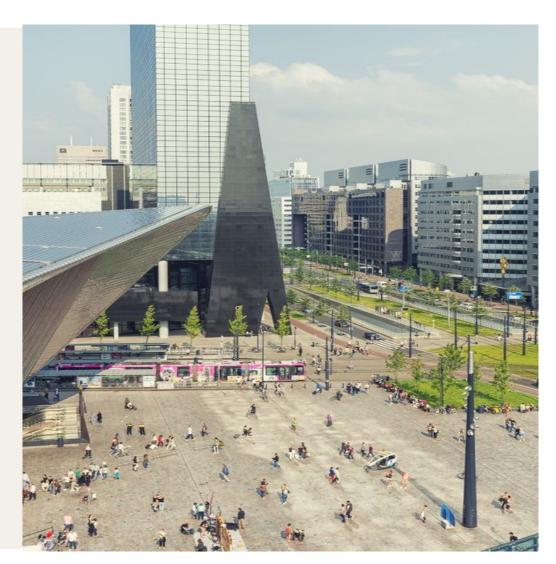
Eurofiber introduces the Connected Workspace

Maarssen, August 15, 2024. The announcement was already made during the Mobile World Congress 2024. Eurofiber introduces Mobile Private Network in collaboration with Nokia. With this, we combine business fiber-optic and private mobile networks into an intelligent connectivity solution for our customers. We call this solution Connected Workspace.

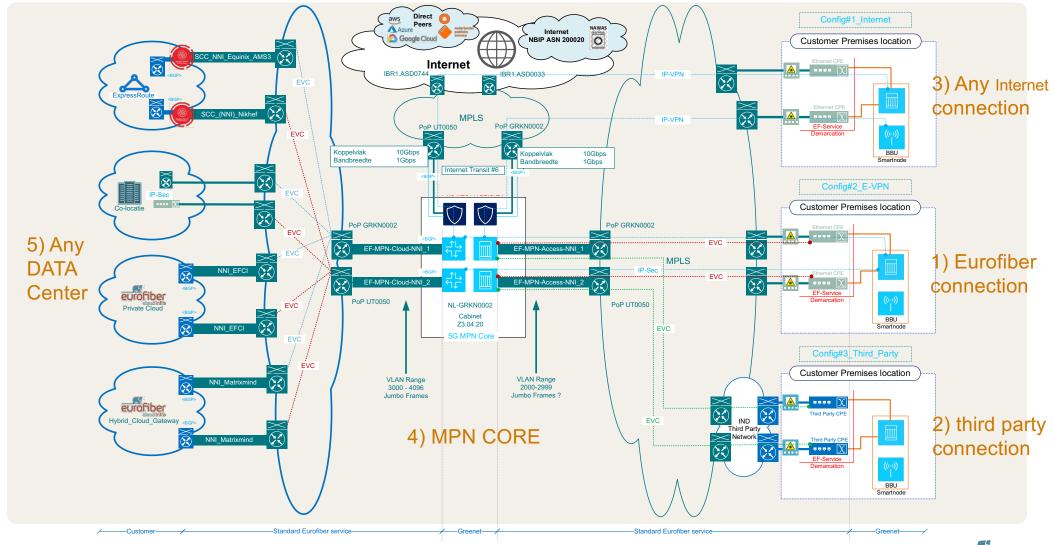


Mobile Private Networks fundamentals The Eurofiber open network strategy

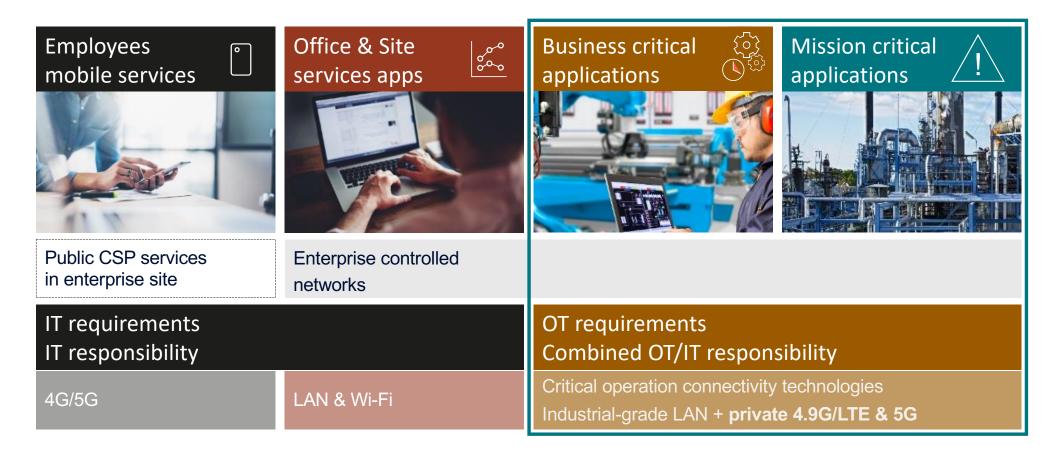
- We are an infrastructure player, and we would like to focus on the infrastructure- and network layer of MPN-networks.
- We are horizontally positioned, and we focus on the connectivity layer only, i.e. we are not an IT company and we do not have the intention of becoming one.
- We are looking for sustainable long-term partnerships (both commercial and operational) to accelerate our and your ambition.
- We have a nationwide open fiber network, a significant installed base and are part of the Dutch critical network infrastructure.
- We are unique in providing a Mobile Private Network solution as extension of the Eurofiber fixed connection. Like the fiber connection, the MPN will be SLA based and provided to you as a services.







Different application domains in same industrial site







Thank you!

Jeroen Thijsen

Business Development Eurofiber



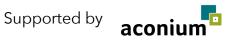


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WORKSHOP: There's life after fiber (rollout)





Introduction



Kees Jonker CEO Speer IT



Jort Wever VP Network Management KPN

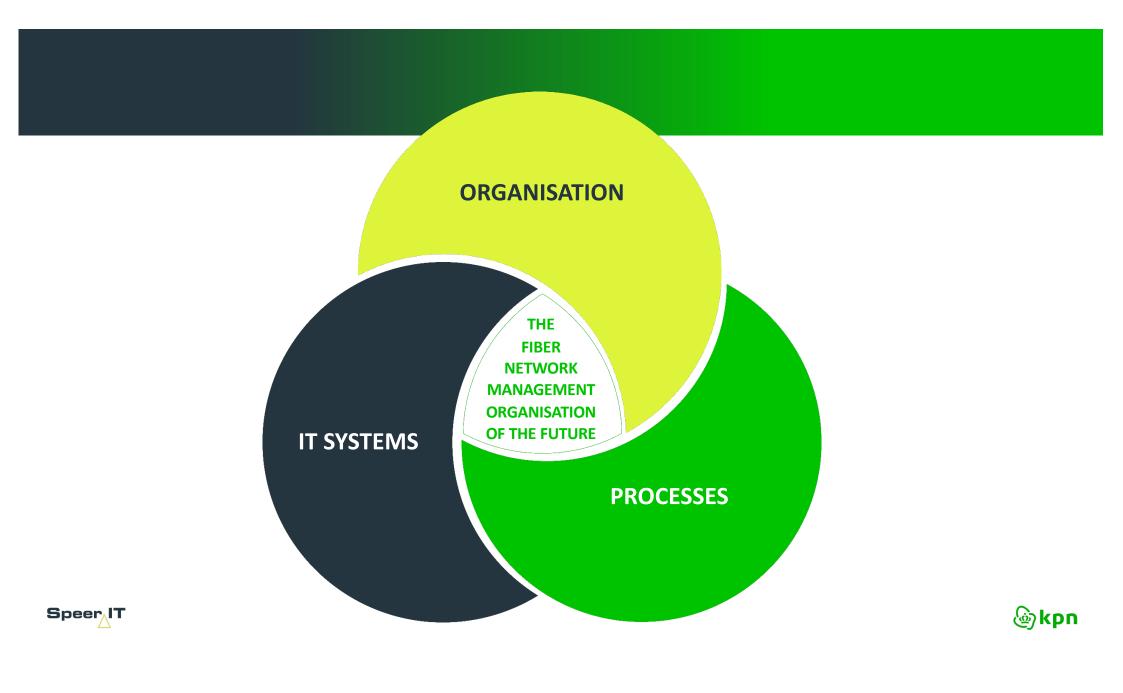




The Fiber Network Management Organization of the Future









IT systems and data-driven operations — high-quality data is the foundation for the network of the future.

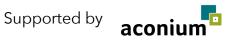


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