



# ACCESS 4.0

## PROGRAM ACCESS 4.0

Thomas Haag (Lead Architect)

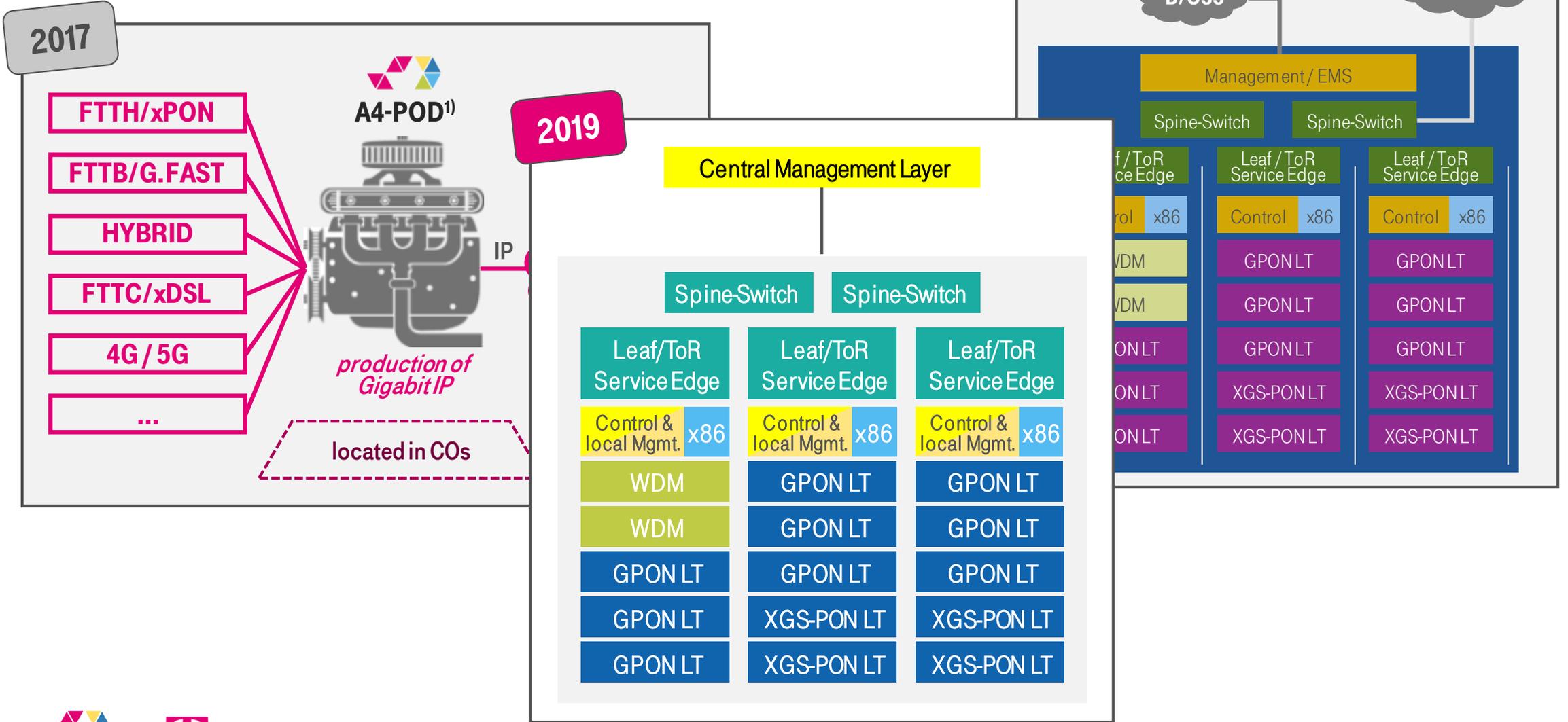
Hans-Jörg Kolbe (Head of SSQ Access4.0)

Robert Soukup (Head of Program)



LIFE IS FOR SHARING.

# RECAP – WHAT IS ACCESS4.0?



# RECAP – WHAT DO WE WANT TO ACHIEVE?



**WE DEVELOP A COST-EFFICIENT, LEAN-TO-OPERATE AND SCALABLE ACCESS PLATFORM TO DELIVER GIGABIT PRODUCTS.**



## WIN WITH (THE RIGHT) PARTNERS

- **Business logic** remains with DT
- **Independence** of single supplier's specifics
- True **DevOps** processes



## REDUCE TIME-TO-MARKET

- **One change per day** (CI/CD)
- **Open source / ecosystem** to foster innovation



## INCREASE AUTOMATION

- **Decouple** network scale and necessary effort
- **Increased quality** by improved testing (scope, scale)



## ENSURE BOTTOM-UP PRICING / ALLOW FOR D2C

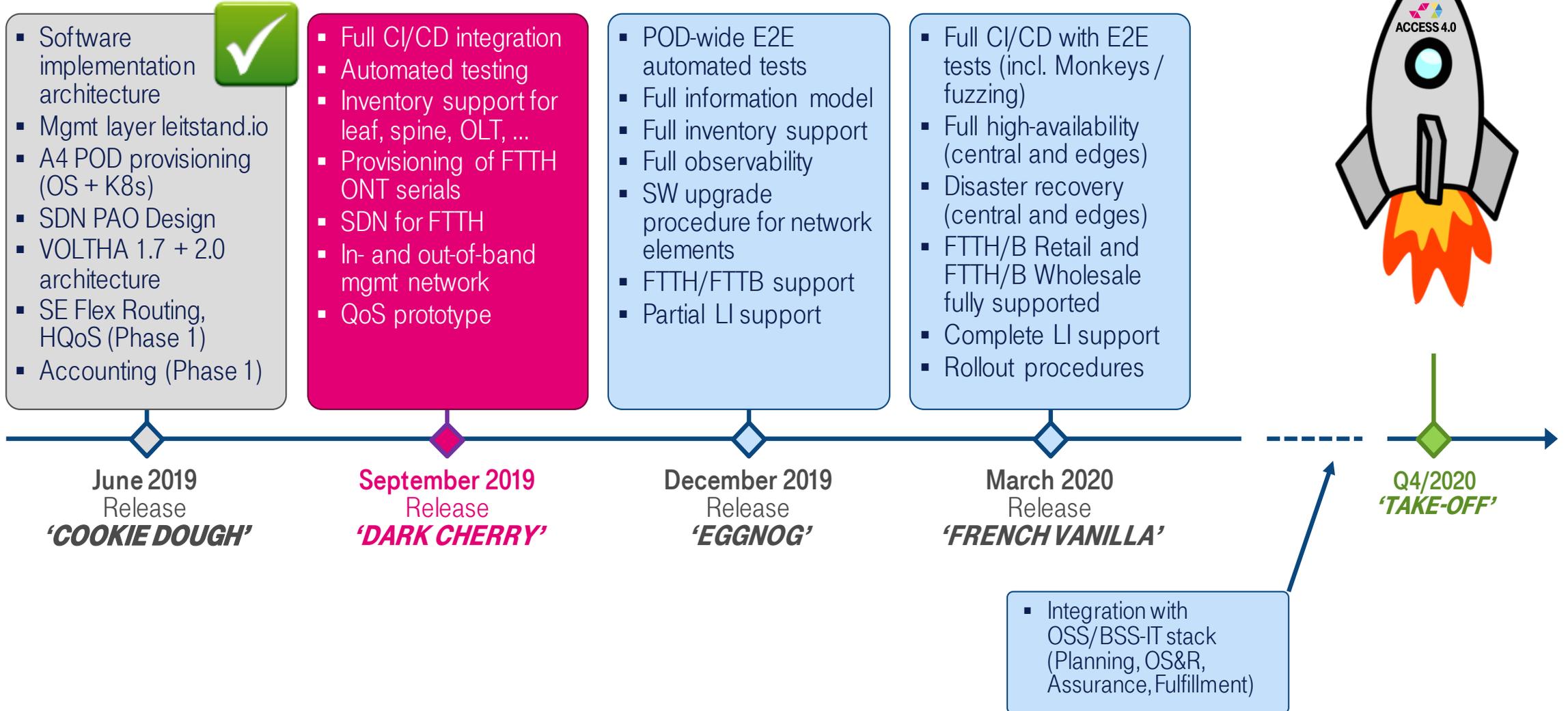
- Enable **design-to-cost**
- **Open source** as benchmark



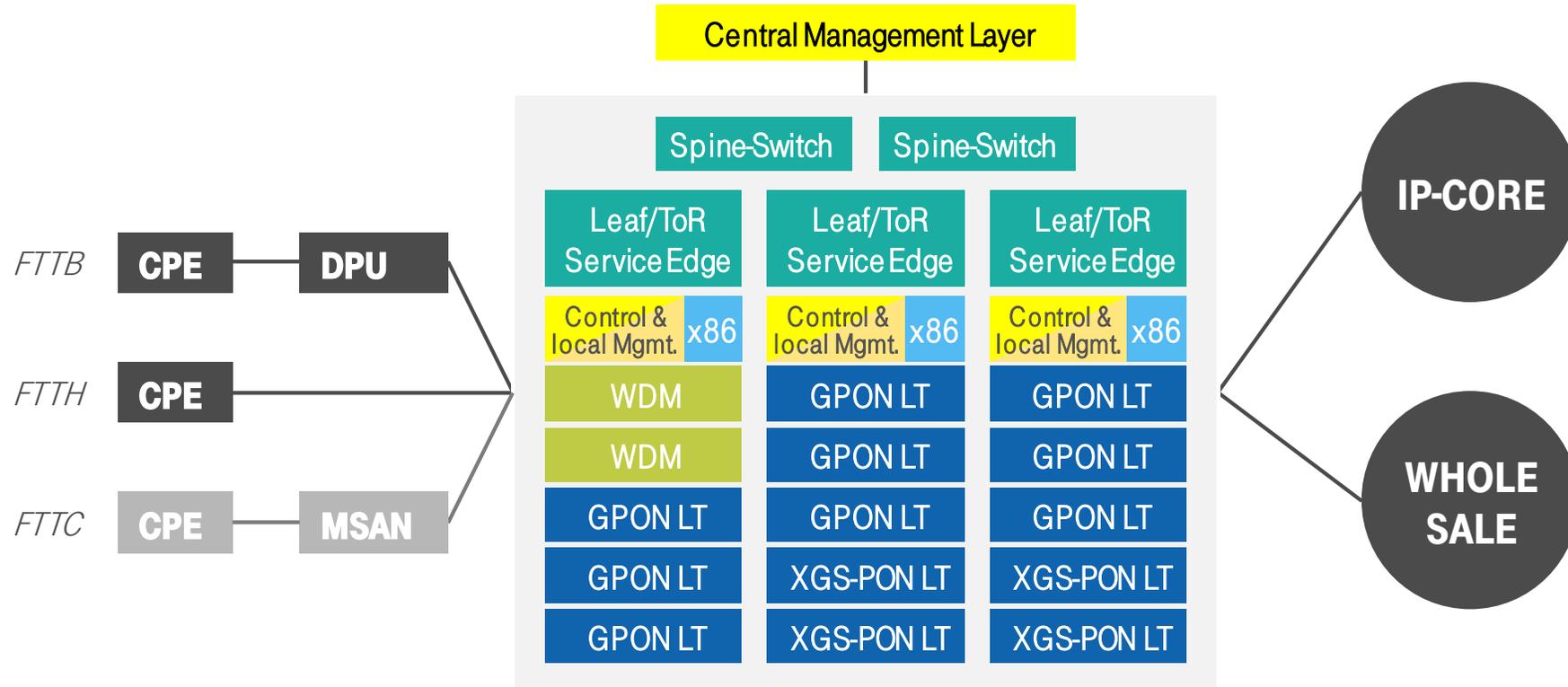
## ALL POWERED BY EDGE CLOUD AND READINESS FOR 5G

- **CUPs enabled** to cope with data scale
- **Edge service** at lowest possible costs

# ACCESS4.0 – CURRENT SCHEDULE



# ACCESS4.0 IS A MINI DATA CENTER AT THE NETWORK EDGE (AKA DT'S SEBA INCARNATION)



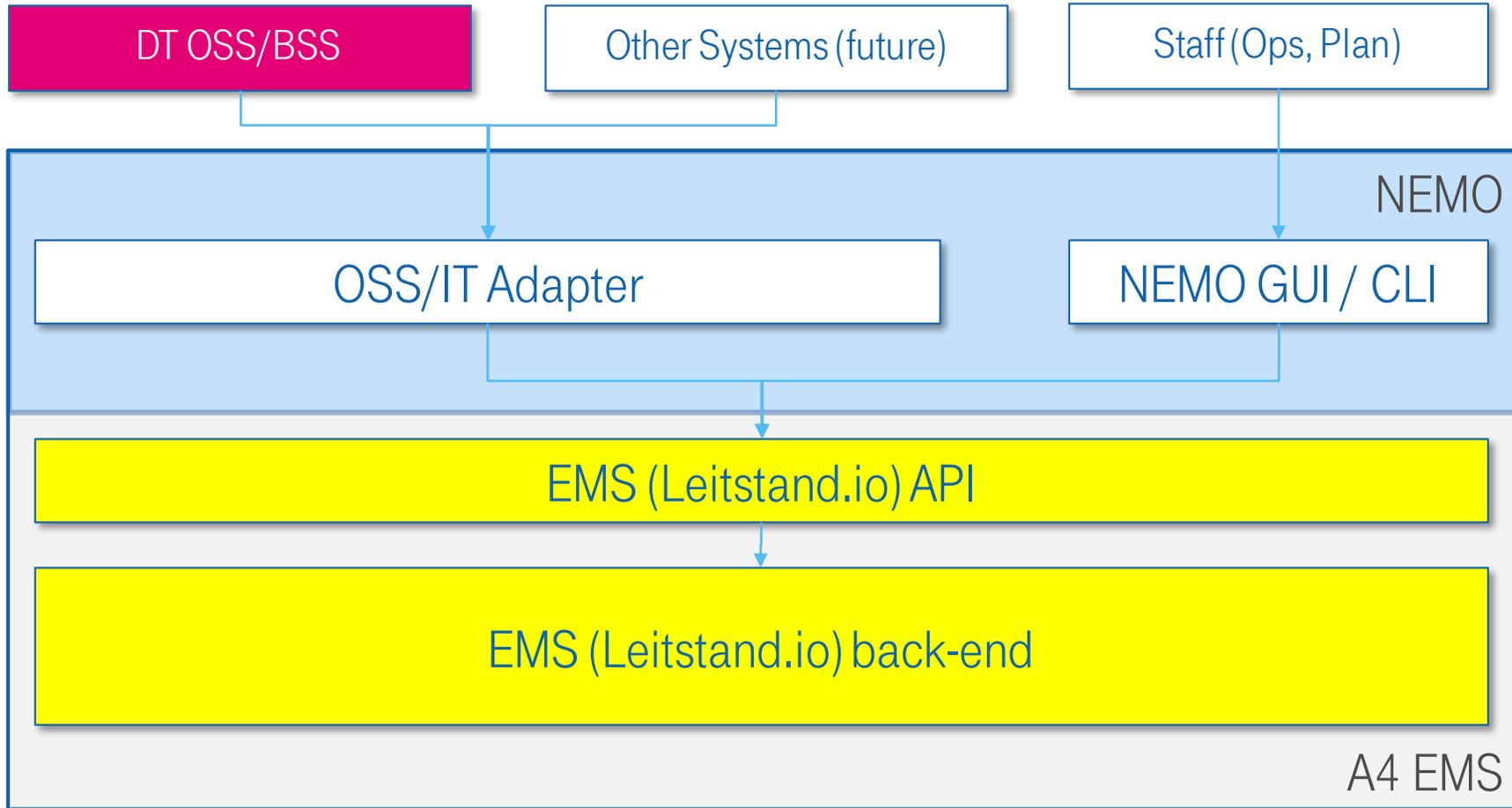
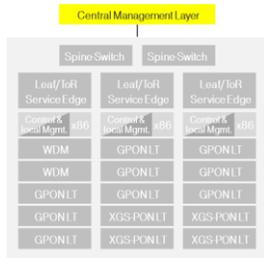
✓ **MERCHANT SILICON BARE METAL**

✓ **HW / SW SPLIT (CUPS, ...)**

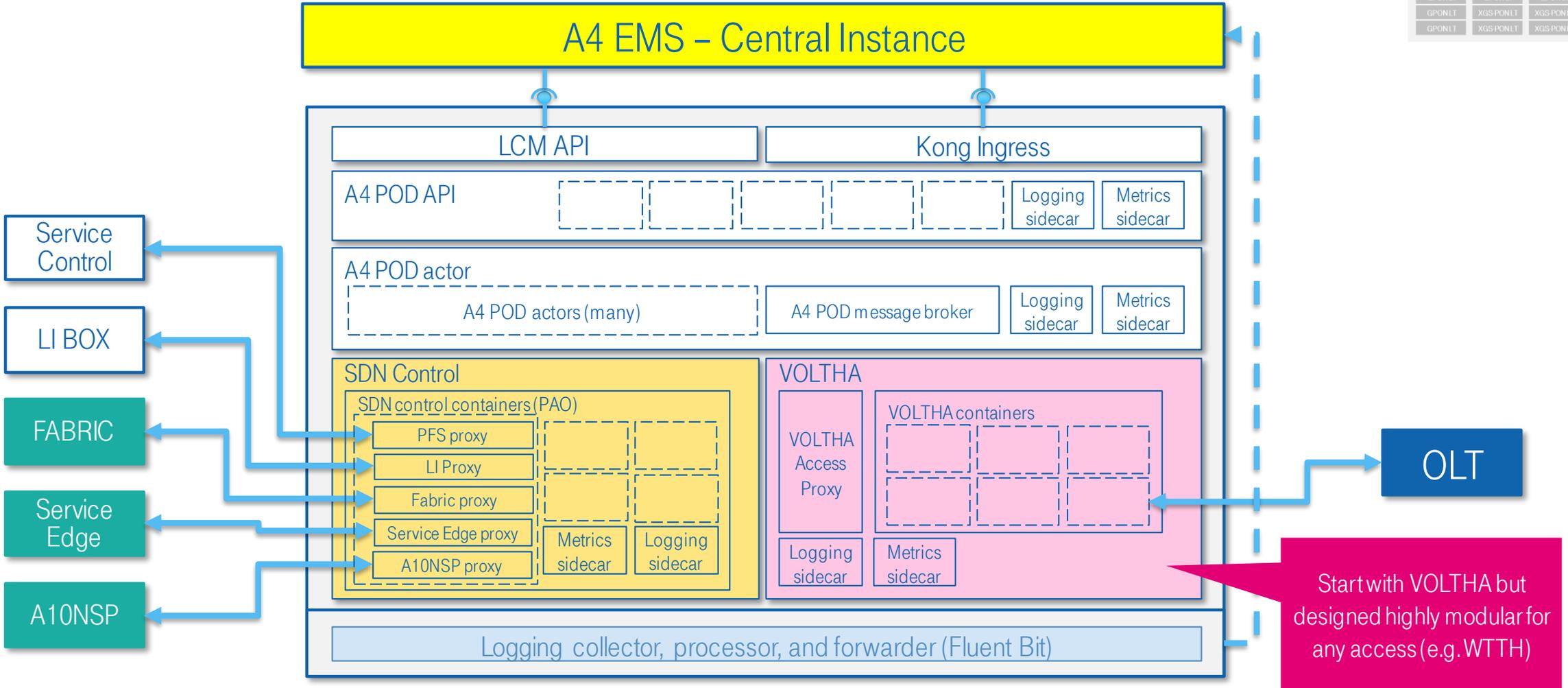
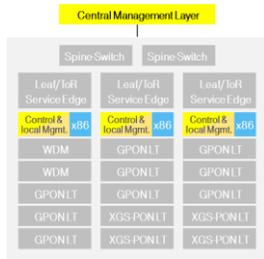
✓ **COMMUNITY & OPEN SOURCE**

✓ **HORIZONTALLY & VERTICALLY SCALABLE**

# ... BUT WHAT'S INSIDE? **CENTRALIZED MANAGEMENT**



# ... BUT WHAT'S INSIDE? COMPONENTS & INTERFACES



# ACCESS4.0 IS TECHNOLOGY BUT ALSO ABOUT CHANGE – SOME LESSONS FROM AN INCUMBENT NETWORK PROVIDER 😊

**1** Working agile (e.g. according to Scrum) is pretty rigid (meeting cycle, roles, ...). 2-week sprints are tough – especially for those, who are in touch with non-agile units  
→ **it's all worth the effort; we get real results quickly.**

**2** Software Implementation Architecture, code guidelines, requirements documentation etc. are project guidelines  
→ **be bold & strict!**

**3** Code developed varies in quality  
→ **have empowered code maintainers in-house**

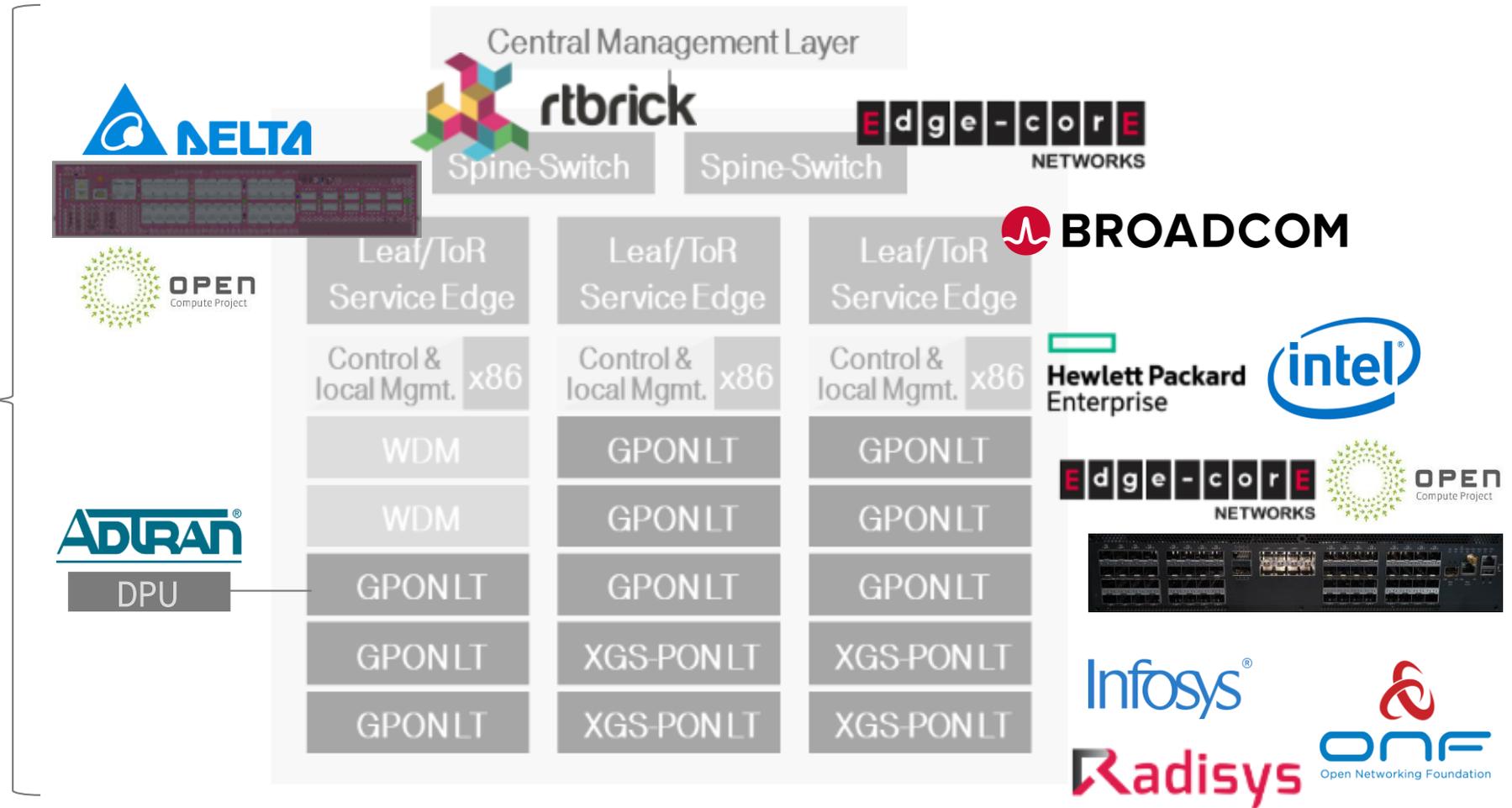
**6** Transformation requires the right partners → **be strictly picky about the right one; rather postpone milestones**

**5** Scrum, SAFe, Nexus, ... require new roles, processes etc. → **Benefit from coaches to help you to communicate and practice over and over ...**

**4** You can teach a network person IT, but becoming a software engineer is a different thing  
→ **establish a nucleus of true IT people**

# A4 PARTNER ECOSYSTEM FOR THE MVP FTTH/B

## JUST THE BEGINNING



# DEUTSCHE TELEKOM @ ONF CONNECT 2019

## DEEP DIVES ON ACCESS4.0 AND MUCH MORE



Jochen Appel, **10:00AM**  
**KEYNOTE: ACCESS NETWORK TRANSFORMATION**

Dr. Hans-Joerg Kolbe, **11:00AM**  
**INSIDE VIEW INTO OPERATOR BUSINESS CASES**

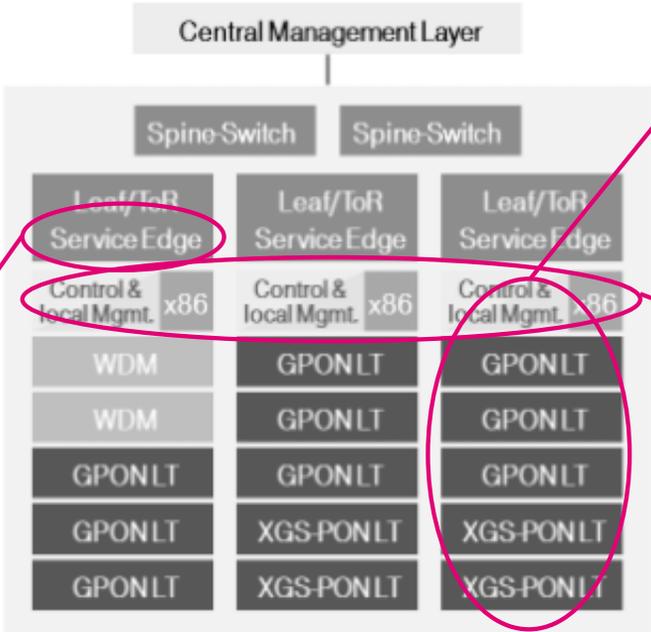


Manuel Paul, **4:30PM**  
**COMAC AND OMEC AT DT**

Bjoern Nagel, **2:15PM**  
**VOLTHA ROADMAP**



Dr. Hans-Joerg Kolbe, **2:30PM**  
**IMPLEMENTING THE PROGRAMMABLE SERVICE EDGE**



Dr. Fabian Schneider, **5:30PM**  
**SEBA REALITY CHECK! HOW TO TAKE THE DESIGN TO THE NEXT LEVEL?**



Robert Soukup, **4:30PM**  
**ACCESS4.0 PROGRAM UPDATE**

Manuel Paul, **11:55AM**  
**PANEL: TECHNICAL LEADERSHIP TEAM (TLT)**



Michal Sewera, **5:30PM**  
**OPEN SOURCE EPC**



Michal Sewera, **11:45AM**  
**5G AND OPEN SOURCE**



ERLEBEN, WAS VERBINDET.

# BACKUP