




OPEN EDGE COMPUTING INITIATIVE

OEC JOURNEY AND BEYOND

ROLF SCHUSTER

22 APRIL 2022, VALEDICTORY EVENT

EDGE COMPUTING AND OEC – THE JOURNEY

Year	Events			
2009			◆ 1 st Edge Paper (Satya)	Edge Vision
2010		◆ 1 st Edge Ideas @ Vodafone		
2011	◆ Vodafone-IBM-NSN Edge Task-Force		◆ 1 st Contact Rolf and Satya ◆ 1 st Vodafone Funding	
2012	◆ Tactile Internet Idea (Prof. Fettweis)	◆ ETSI MEC created	◆ Start Cooperation between Intel, Huawei, Vodafone etc.	Edge Ideation
2013	◆ MWC Demonstrator, First Edge Conference		◆ Development of OpenStack version for Edge (Discovery, Handoff etc.)	
2014	◆ Product Launch "Liquid Computing"		◆ Formation of OEC	
2015		◆ 1 st Edge Conference	◆ Edge OpenStack presentation at OpenStack Summit in Tokyo	

EDGE COMPUTING AND OEC – THE JOURNEY

Year	Events		
2016	◆ Start Edge API-harmonisation	◆ Edge Deep Dives	Product Development
2017	◆ Start building the Living Edge Lab		
2018	◆ Formation of MobileEdgeX, Akraino, LF Edge	◆ Deliver Edge-Native Applications	
2019	◆ 1 st Cloud Provider Edge Products	◆ TPOD, OpenScout launched	
2020	◆ 1 st Edge Services Telco Operators	◆ Interconnect Work published	Product Improvement
2021	◆ Many Edge Products & Services	◆ META – Arm Project started	
2022	◆ ...many more steps	◆ OEC Valedictory	

OPEN EDGE COMPUTING INITIATIVE - CURRENT PARTNERS (AS OF DECEMBER 2021)

Industry Partners

- Arm
- AWS
- CableLabs
- Crown Castle
- Deutsche Telekom
- Facebook Connectivity
- Intel
- InterDigital
- Microsoft
- MobilEdgeX
- Seagate
- Verizon
- VMware
- Vodafone



Academic Partner

- Carnegie Mellon University



EDGE COMPUTING – SITUATION TODAY AND THE ROAD AHEAD

- **We have successfully**

- ...solved quite a few technology and business challenges
- ...established edge computing as the next big thing complementing cloud computing
- ...positioned edge computing as a business opportunity that grows rapidly



- **We still have to**

- ...develop more edge-native applications
- ...further harmonize edge API's (platforms, telco edge, cloud edge)
- ...further reduce E2E latency in 5G and 6G networks
- ...develop technology to guarantee latency and jitter
- ...establish new business models for “Guaranteed Edge QoS”

Example Technology for Guaranteed Edge QoS:

5G Network-Supported Rate Adaptation (L4S)

→ Ericsson & Deutsche Telekom

<https://www.youtube.com/watch?v=tODSxNjO9Vc>



I very much look forward to continue to work with all of you in the context of the Living Edge Lab