

# 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 <sup>st</sup> Edge Paper (Satya)	on
2010	1 <sup>st</sup> Edge Ideas @ Vodafone		Edge Vision
2011	Vodafone-IBM-NSN Edge Task-Force	1 <sup>st</sup> Contact Rolf and Satya 1 <sup>st</sup> Vodafone Funding	Edg
2012	Tactile Internet Idea (Prof. Fettweis)	eated Start Cooperation between Intel, Huawei, Vodafone etc.	
2013	MWC Demonstrator, First Edge Conference	Development of OpenStack version for Edge (Discovery, Handoff etc.)	leation
2014	Product Lauch "Liquid Computing"	Formation of OEC	Edge Ideation
2015	1 <sup>st</sup> 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	nent
2017		Start building the Living Edge Lab	elopn
2018	Formation of MobiledgeX, Akraino, LF Edge	Deliver Edge-Native Applications	Product Development
2019	1 <sup>st</sup> Cloud Provider Edge Products	TPOD, OpenScout launched	Prod
2020	1 <sup>st</sup> Edge Services Telco Operators	Interconnect Work published	ent
2021	Many Edge Products & Services	🔷 META – Arm Project started	Product Improvement
2022	↔many more steps	OEC Valedictory	L dm



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

CC CROWN CASTLE \$\$ interdigital.

Deutsche
 Telekom

FACEBOOK CONNECTIVITY

intel.

Microsoft

arm

aws

**Cable**Labs<sup>®</sup>

Carnegie

University

Mellon



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

#### **Academic Partner**

Carnegie Mellon
 University



vodafone

Mobiledge

verizon

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SEAGATE

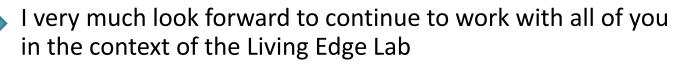
### EDGE COMPUTING - SITUATION TODAY AND THE ROAD AHEAD

#### • 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