OpenFog Consortium

Introduction and Overview

March 2017

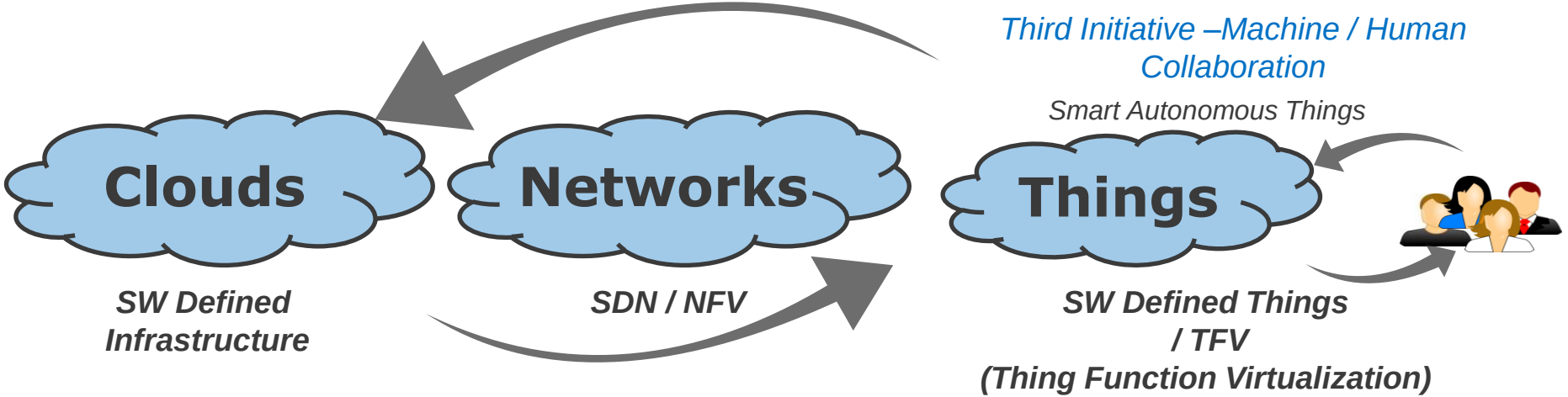
IoT Consortia Initiative Investments

First Initiative -OT/IT Convergence

Industrial Internet -Connect Things to the Cloud

Third Initiative –Machine / Human Collaboration

Smart Autonomous Things



SW Defined Infrastructure

SDN / NFV

SW Defined Things / TFV (Thing Function Virtualization)

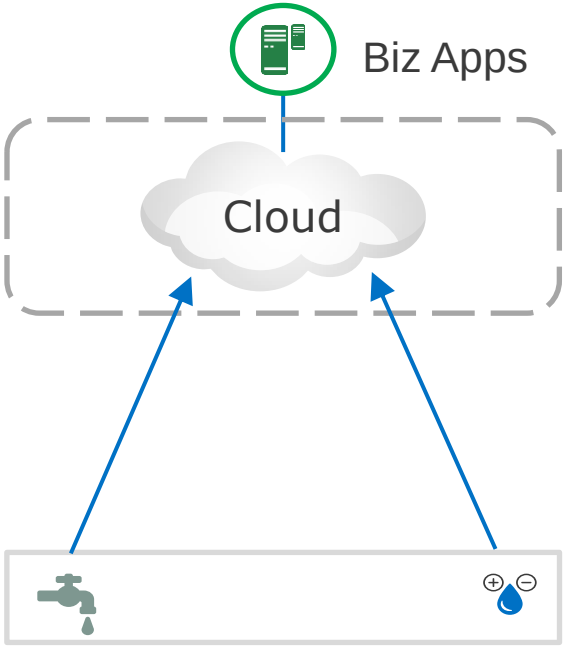
Second Initiative –OT/IT/5G Convergence

Fog Computing -Bring Cloud to the Things

Edge Computing in IoT

■Cloud Computing

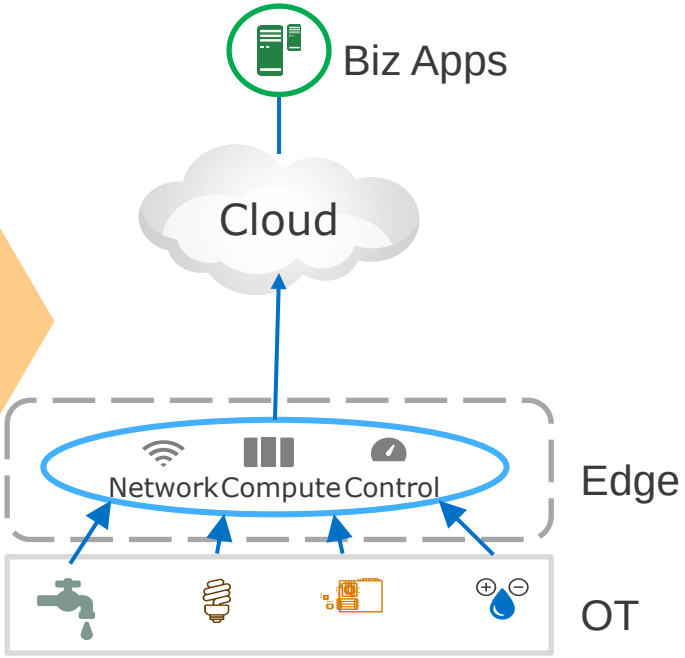
The delivery of various hosted services over the Internet



Direct Connection to Cloud cannot meet Needs for:
- Latency
- Bandwidth
- Security

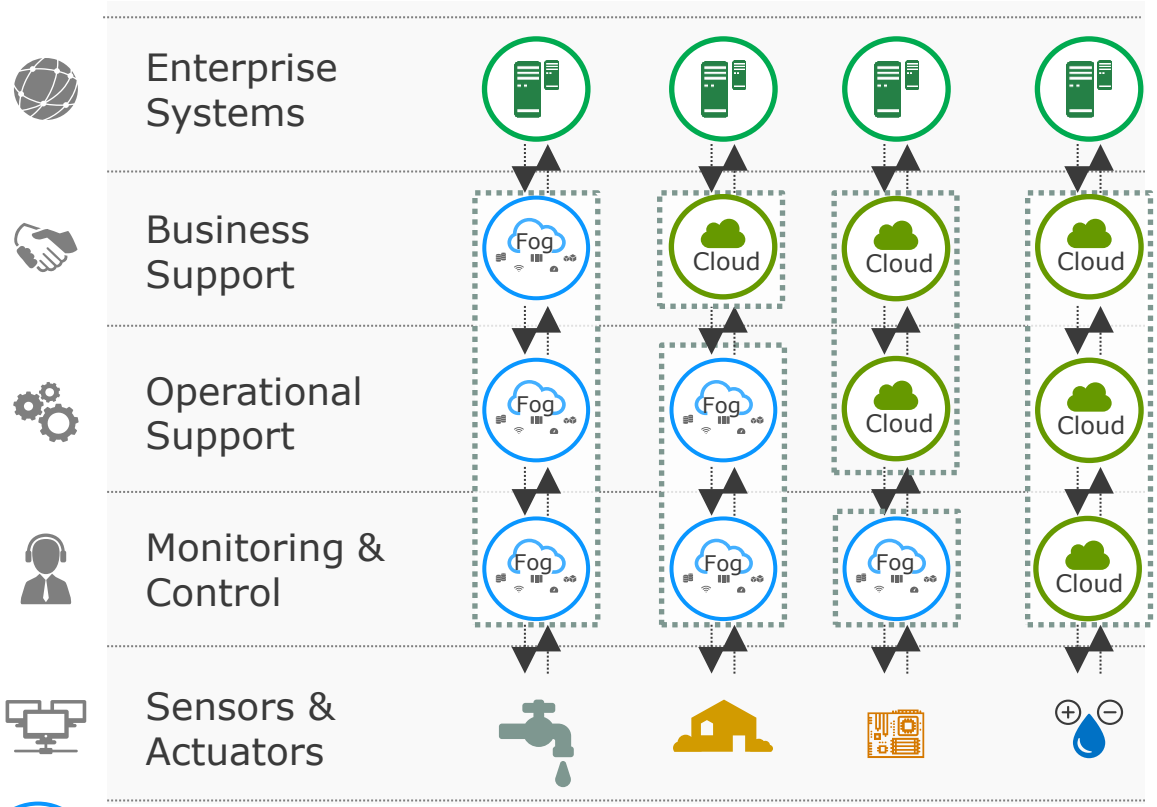
■Edge Computing

Places applications, data and processing at the logical extremes of a network



OT: Operational Technology

Hierarchical Fog Deployment Models



What is fog computing?

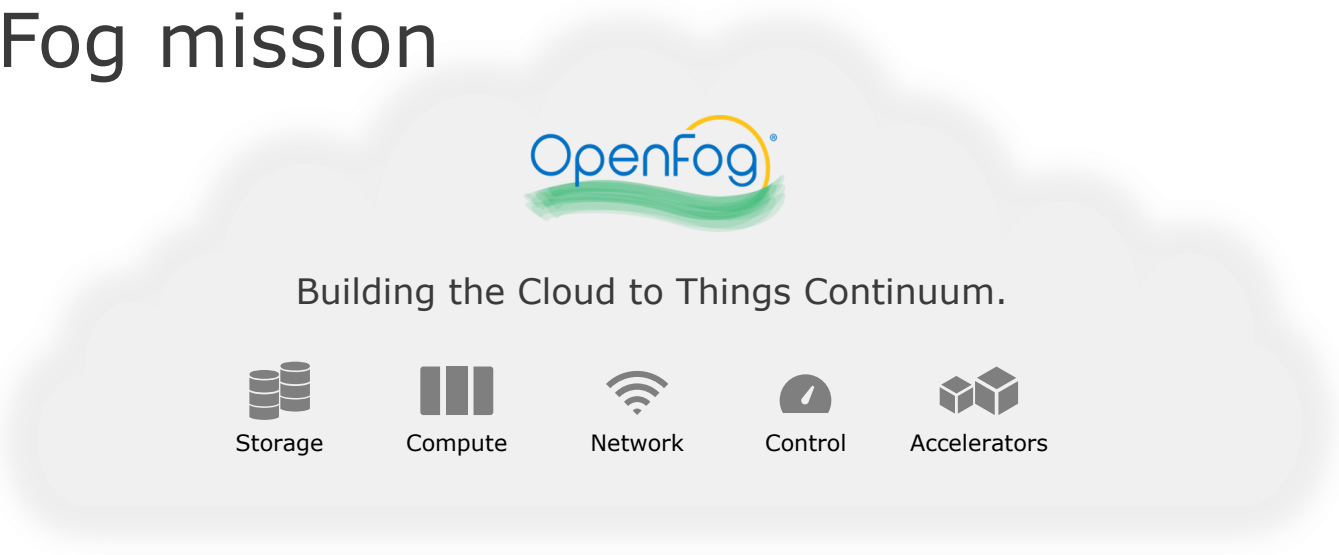
CLOUD

FOG COMPUTING

A system-level horizontal architecture that distributes computing, storage, and networking closer to users, and anywhere along the Cloud-to-Thing continuum

System-Level | **Horizontal** | **Architecture** | **Cloud-to-Thing Continuum**

OpenFog mission



Mission Statement: To drive industry and academic leadership in **fog computing architecture**, testbed development, and a variety of **interoperability** and **composability** deliverables that seamlessly leverage cloud and edge architectures to **enable end-to-end IoT** scenarios.

OpenFog Consortium

55 members strong, headquartered in 14 countries as of February 2017

OpenFog Consortium goals

Technology

Develop, Solve, Identify & Create

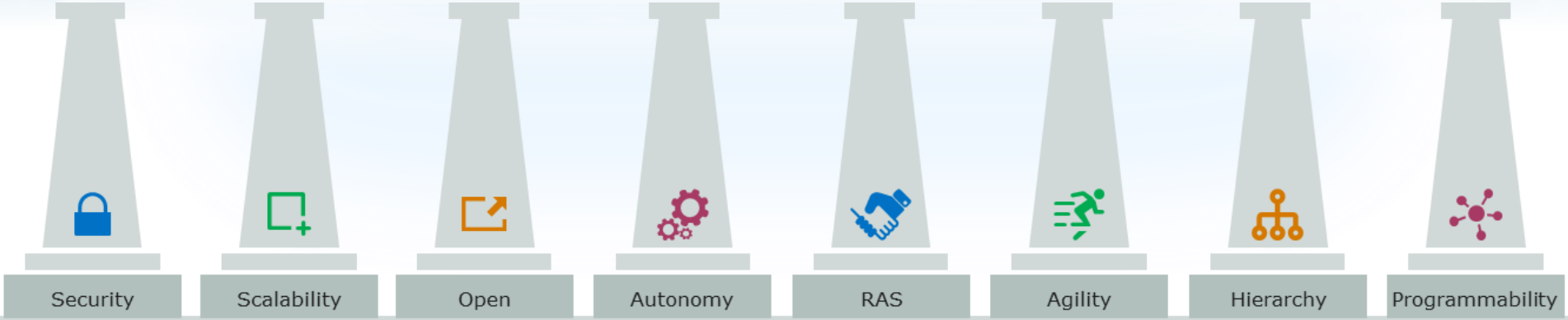
Innovation

Foster, Initiate, Provide & Influence

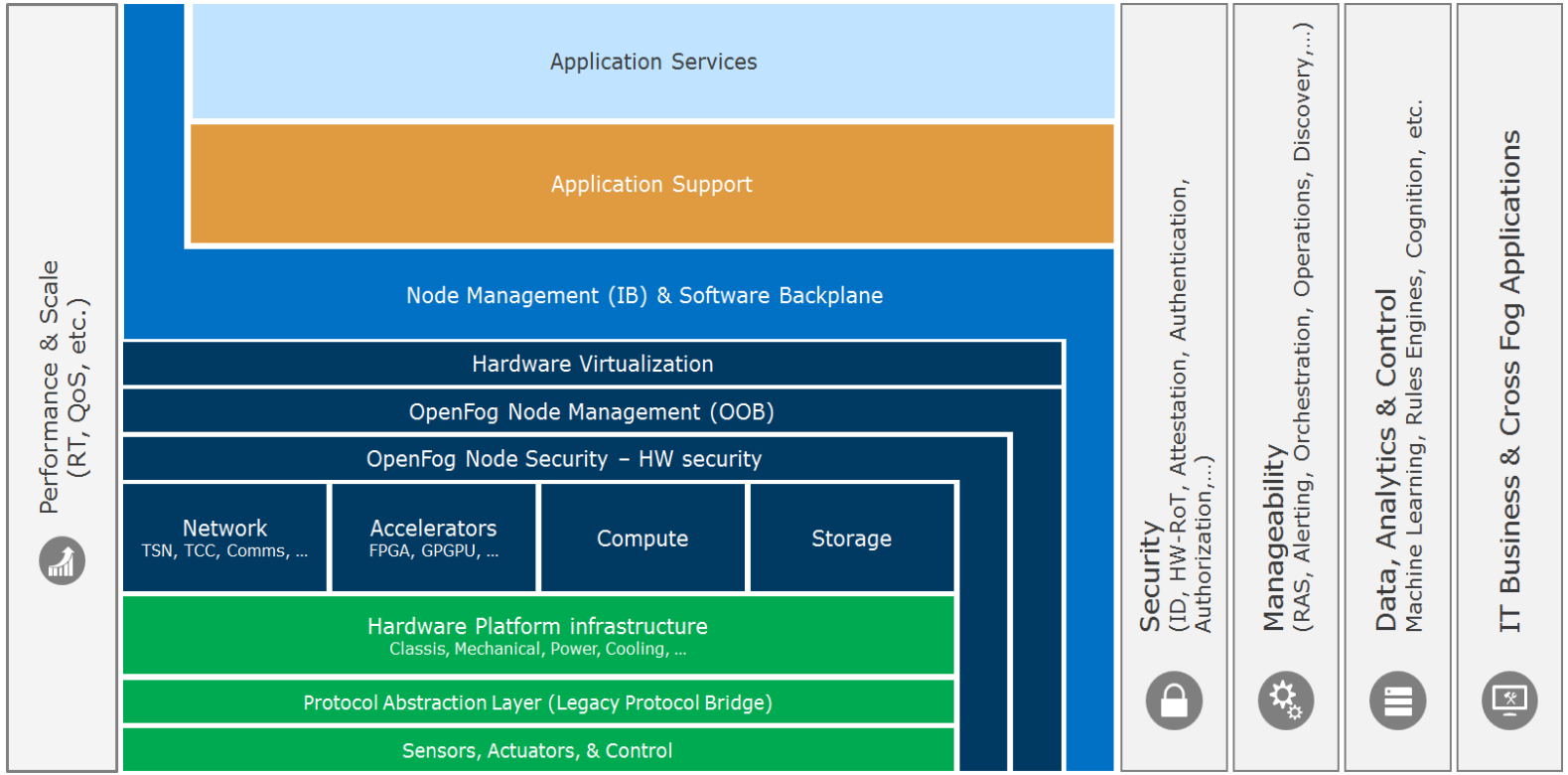
Education

Gain, Promote, Evangelize & Educate

Key pillars of the OpenFog architecture framework



Architecture description with perspectives



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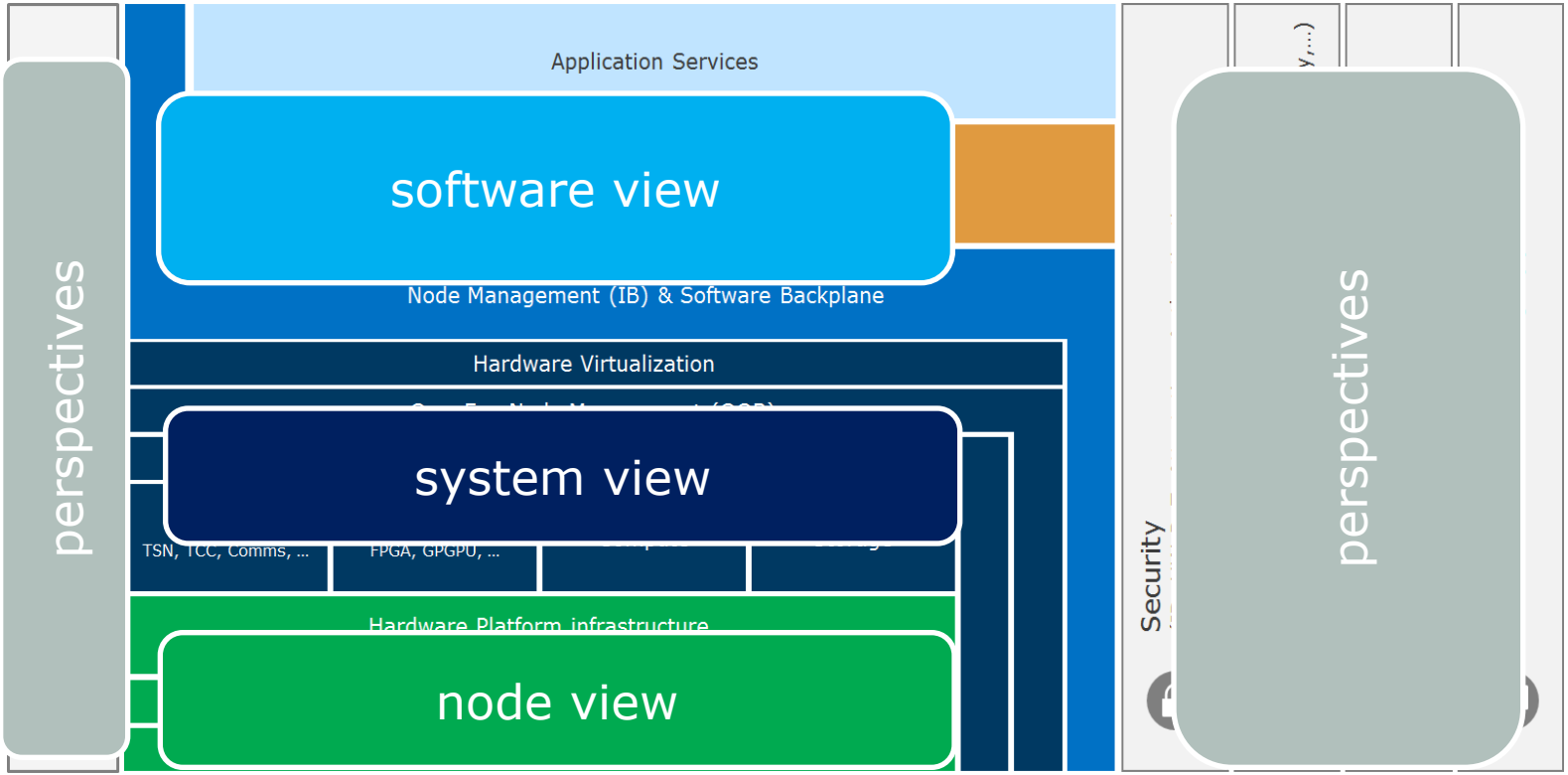
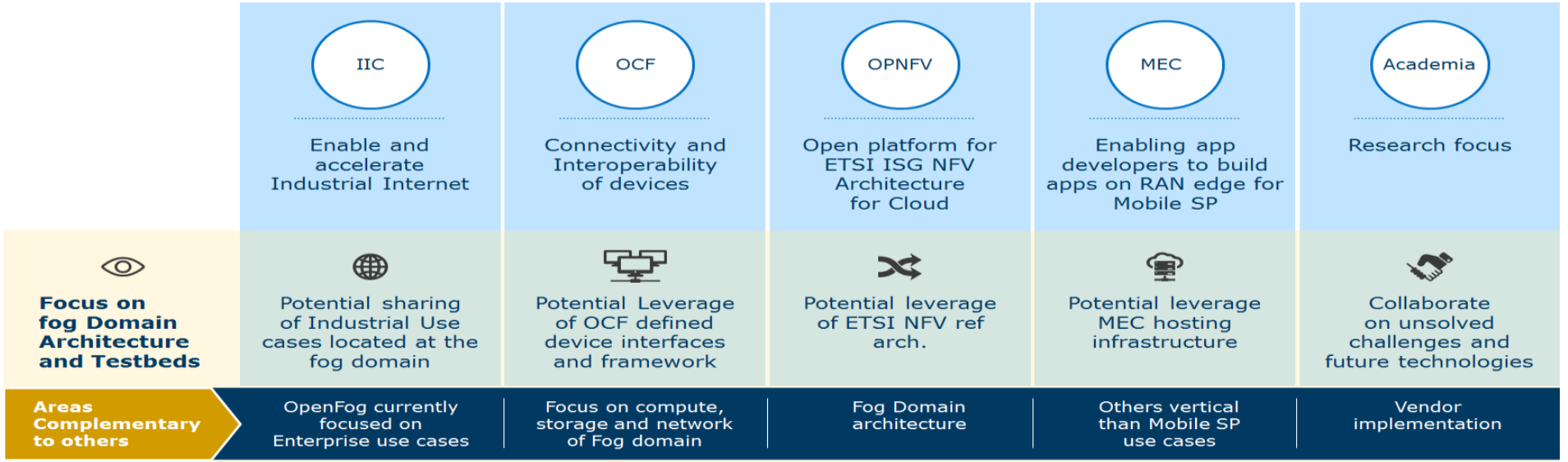


OpenFog Consortium and Other Consortia



OpenFog®

www.OpenFogConsortium.org