



ONF SEBA Workshop

Orchestrating SEBA PODS with ONAP

Bora Eliacik, Turk Telekom/Netsia

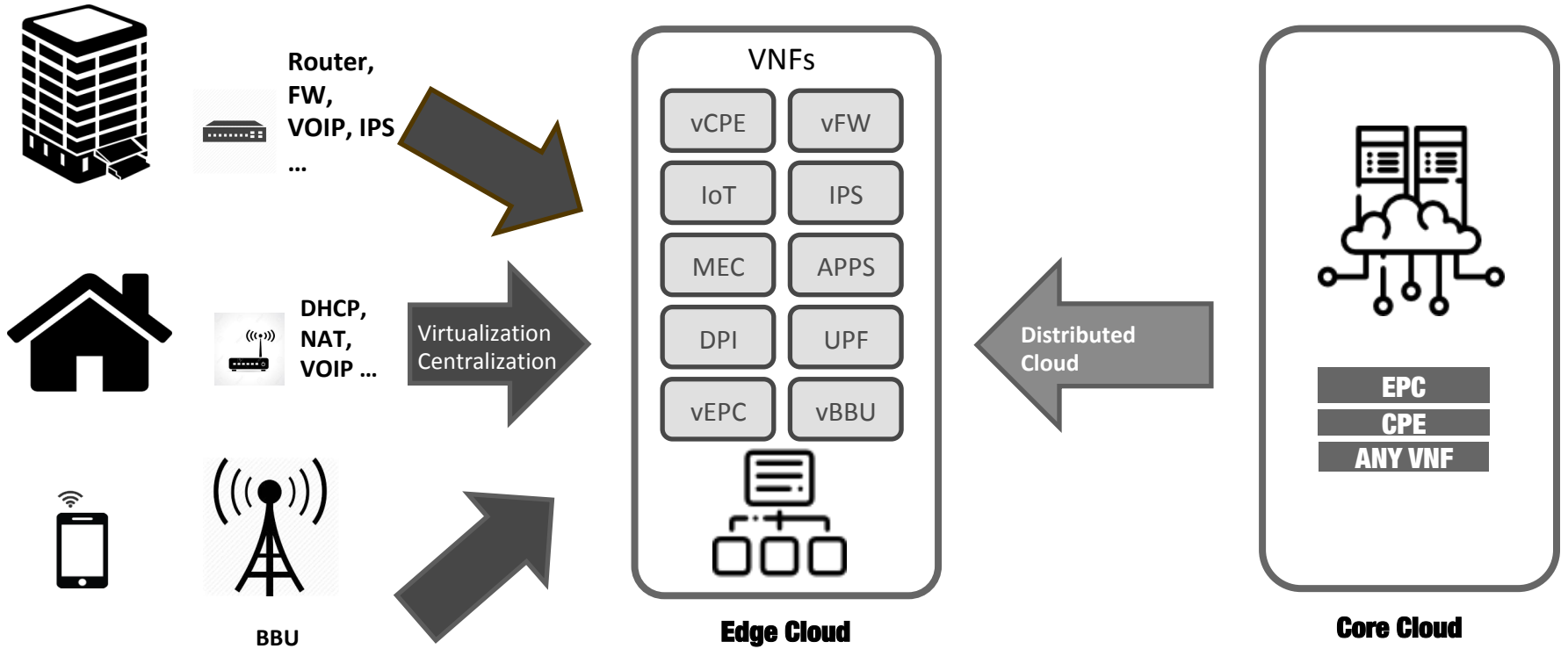
Santa Clara, December 4th 2018

An Operator Led Consortium

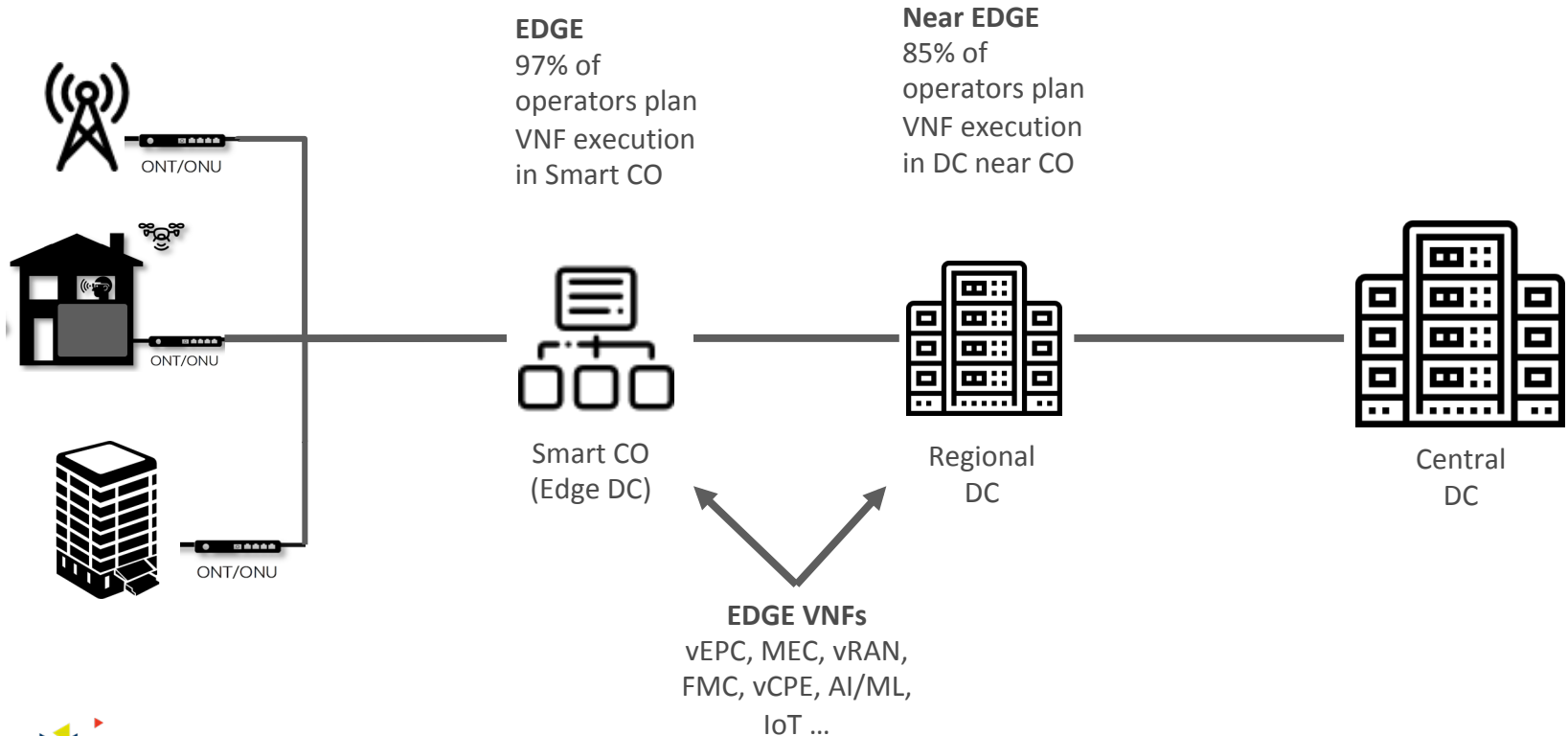


The trends

The Next Gen Central Office

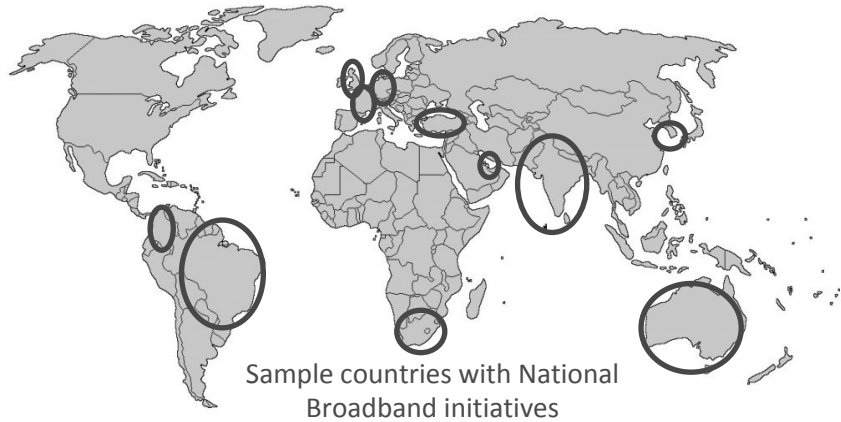


Where is the Edge ? – IHS Markit

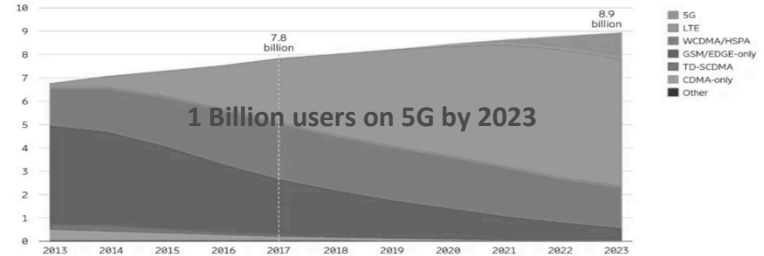


Broadband is the way to go

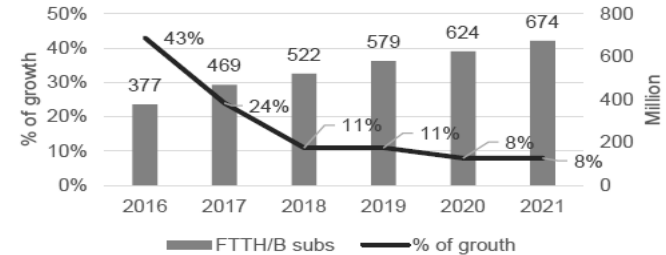
Globally, IP traffic will reach 278.1 Exabytes per month in 2021, up from 96.1 Exabytes per month in 2016.
 - Cisco VNI, Sep. 2018



Mobile subscriptions by technology (billion)



Note: IoT connections and fixed wireless access (FWA) subscriptions are not included in this graph
 Ericsson Mobility Report June 2018



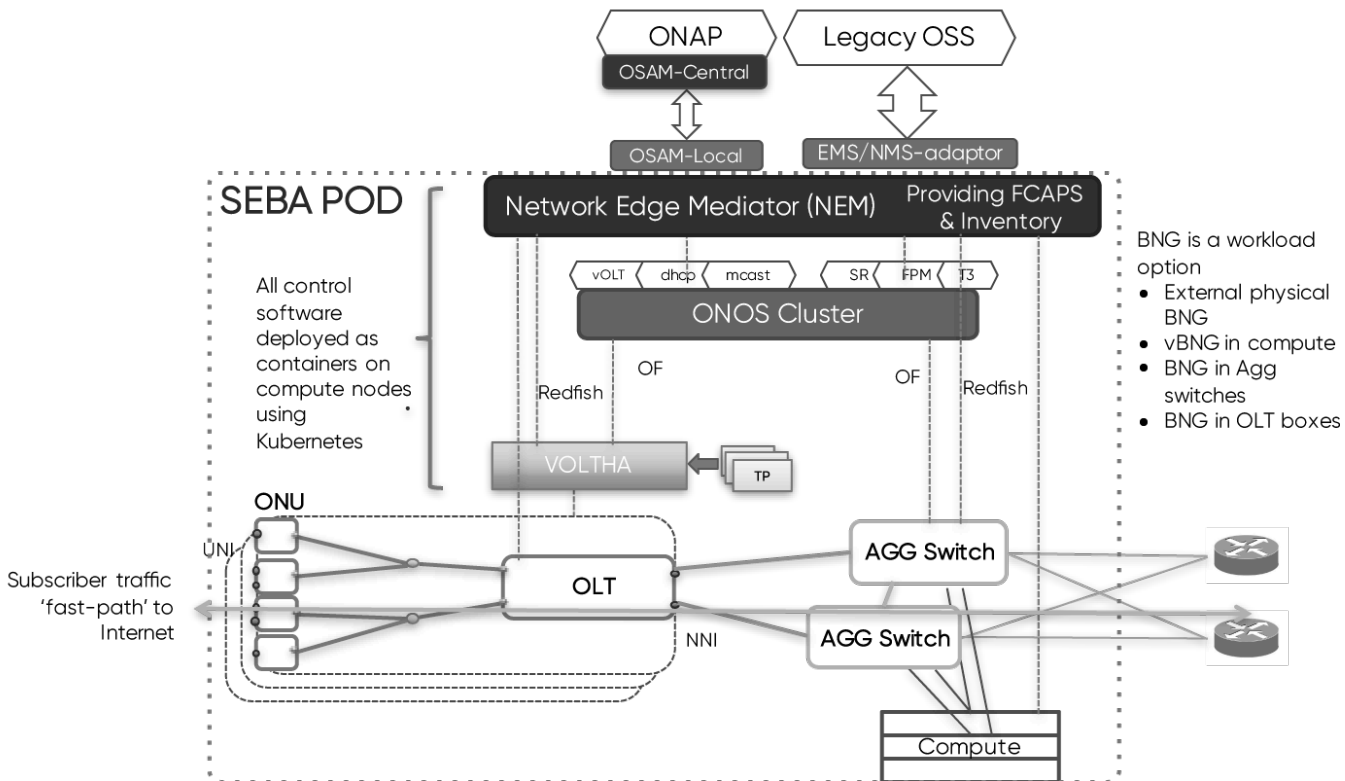
~ 700 Million FTTH users by 2021

Source: IDATE DigiWorld, World FTTx market, August 2017

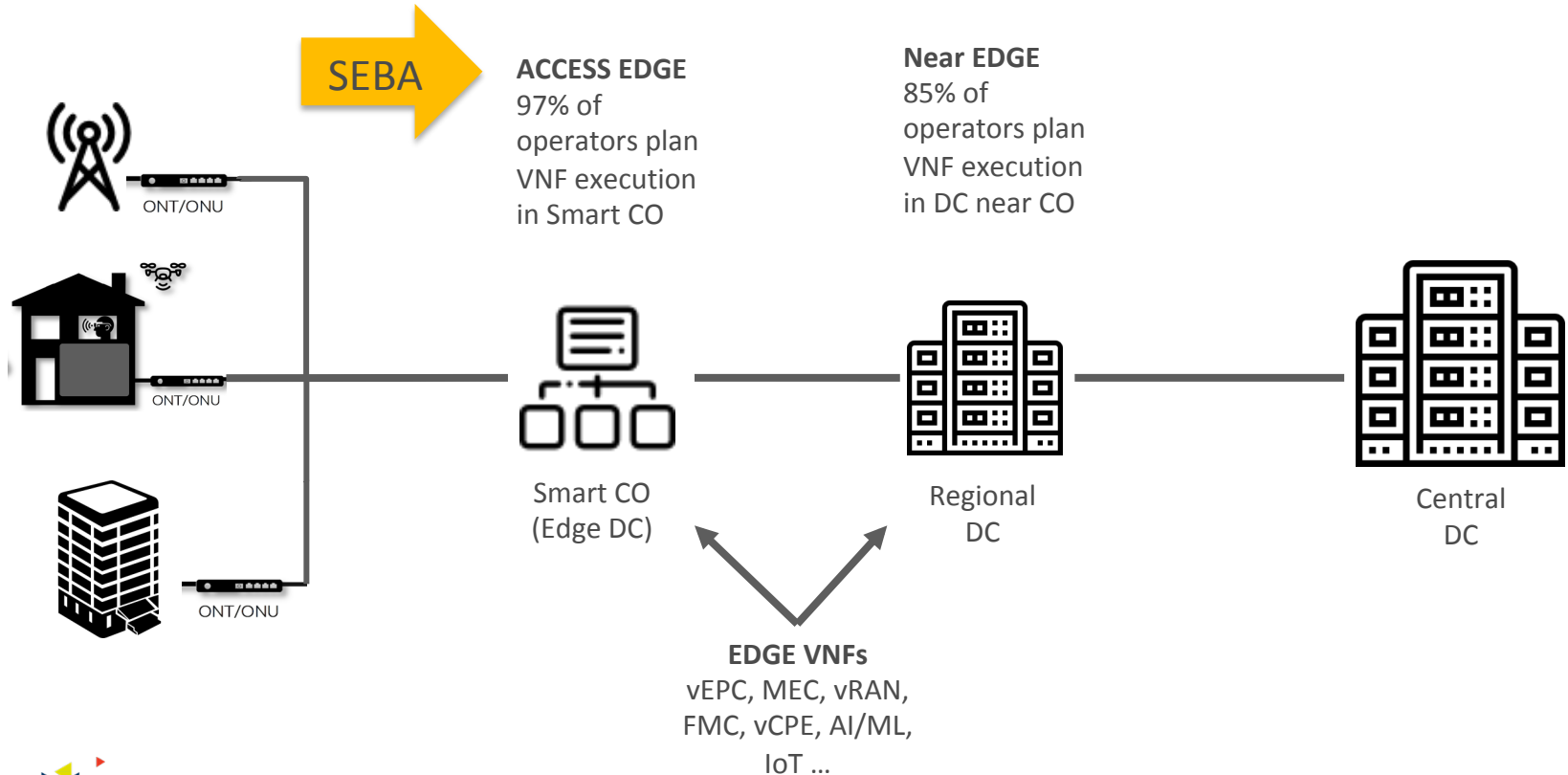


Who takes care of Broadband?

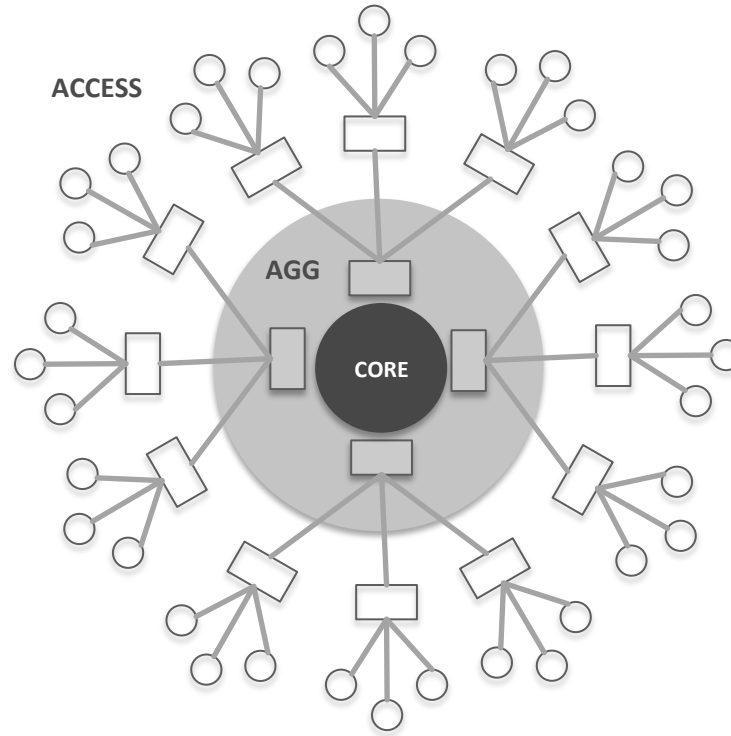
The ONF's SEBA



Where is SEBA ?

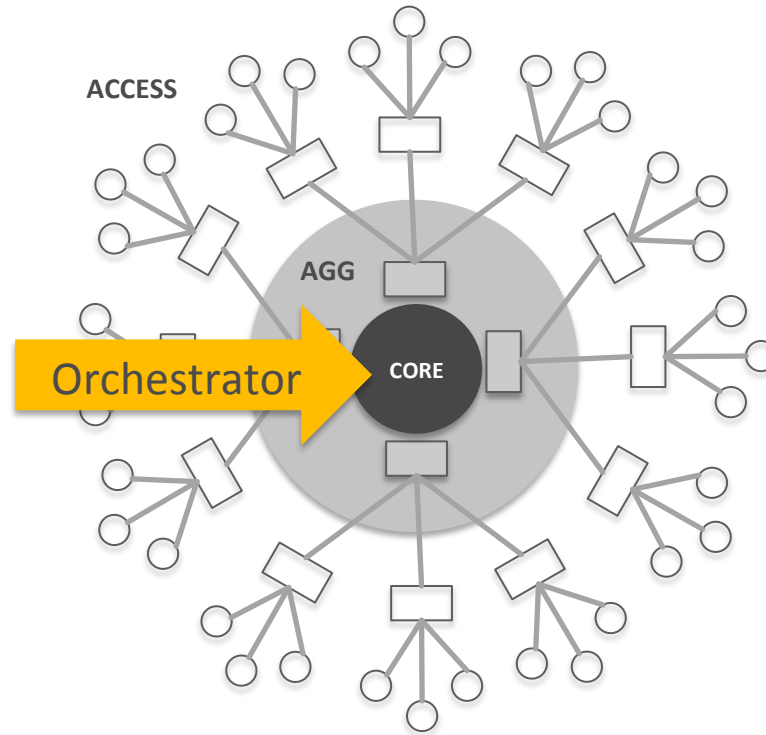


There will be Thousands of Edges



**Thousands of
SEBA pods**

There will be Thousands of Edges



**Thousands of
SEBA pods**



**Need for a
Global
Orchestrator**

Why do We Need to Orchestrate?

1

Centralized Platform Management

POD Provisioning, Activation, Software Management, Monitoring...

2

Centralized OLT and ONT Management

Add, remove, suspend, firmware management...

3

Service Management

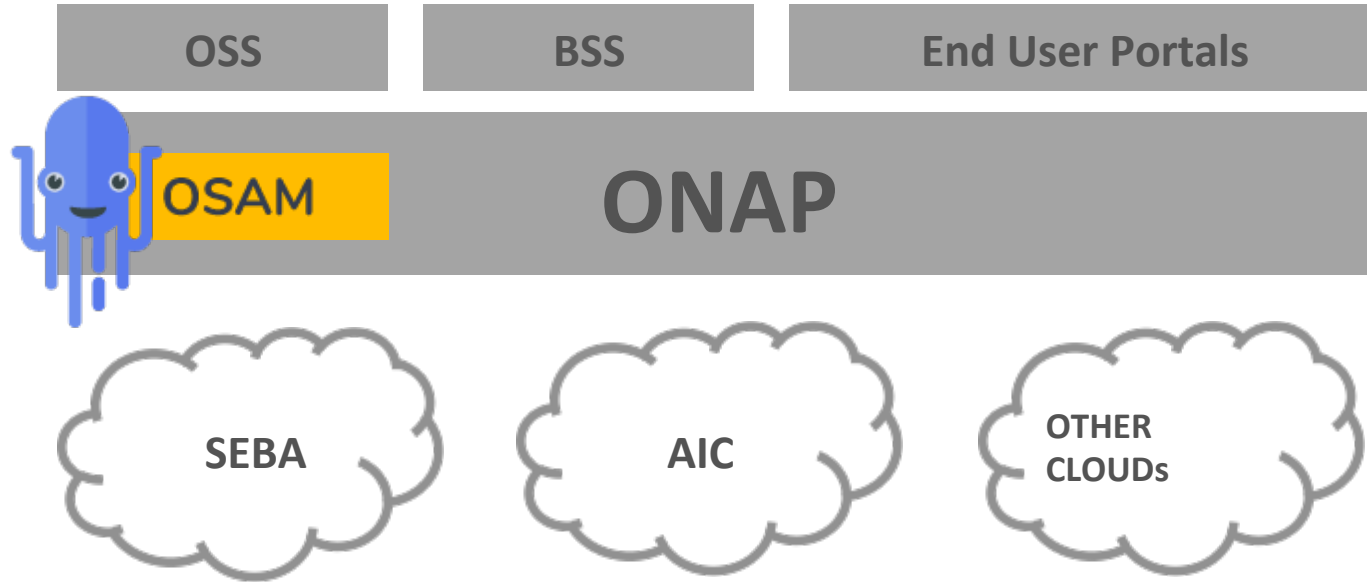
Service Profiles, Technology Profiles, Close Loop scenarios...



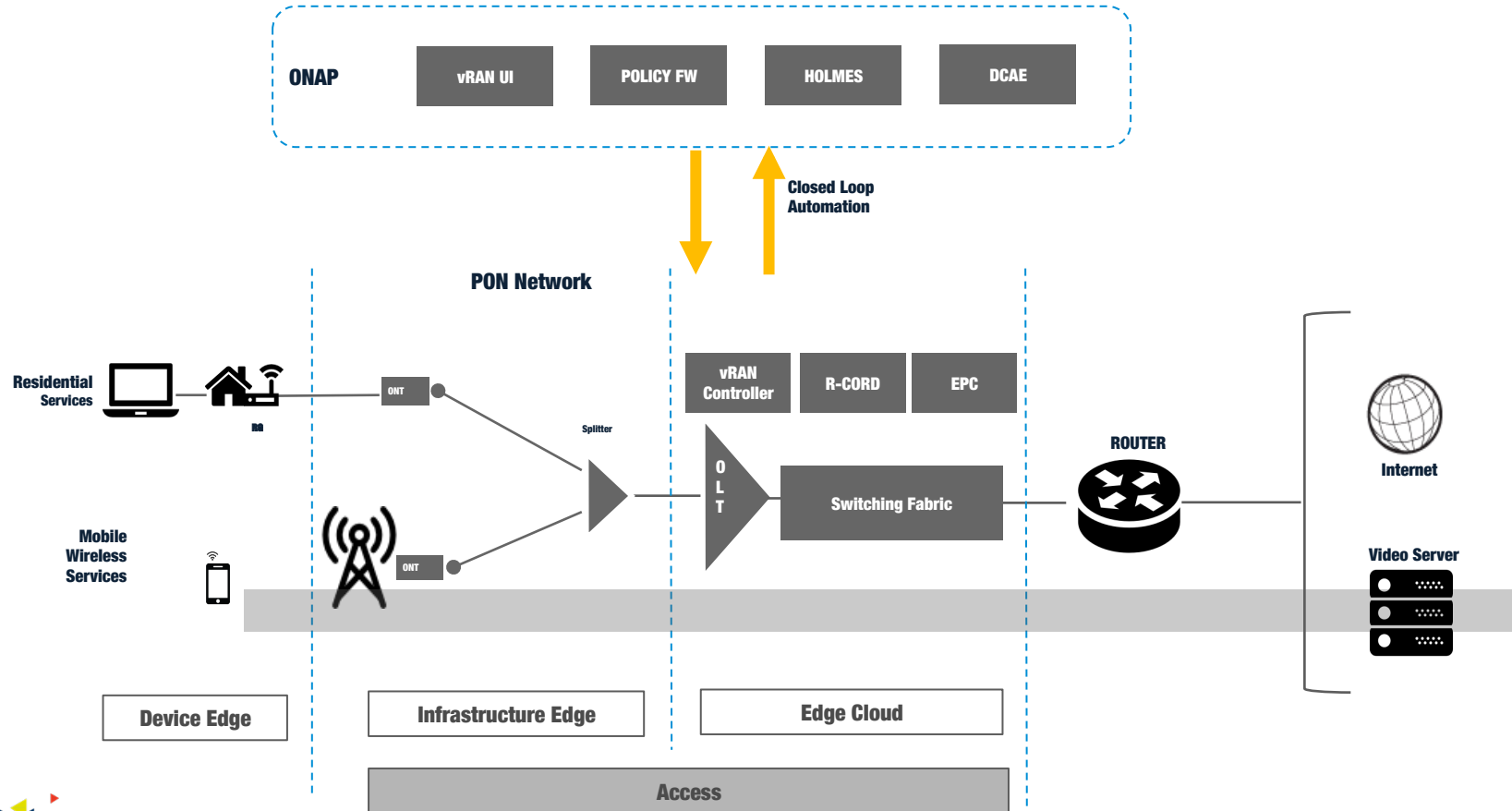
How are we going to Orchestrate?

ONAP

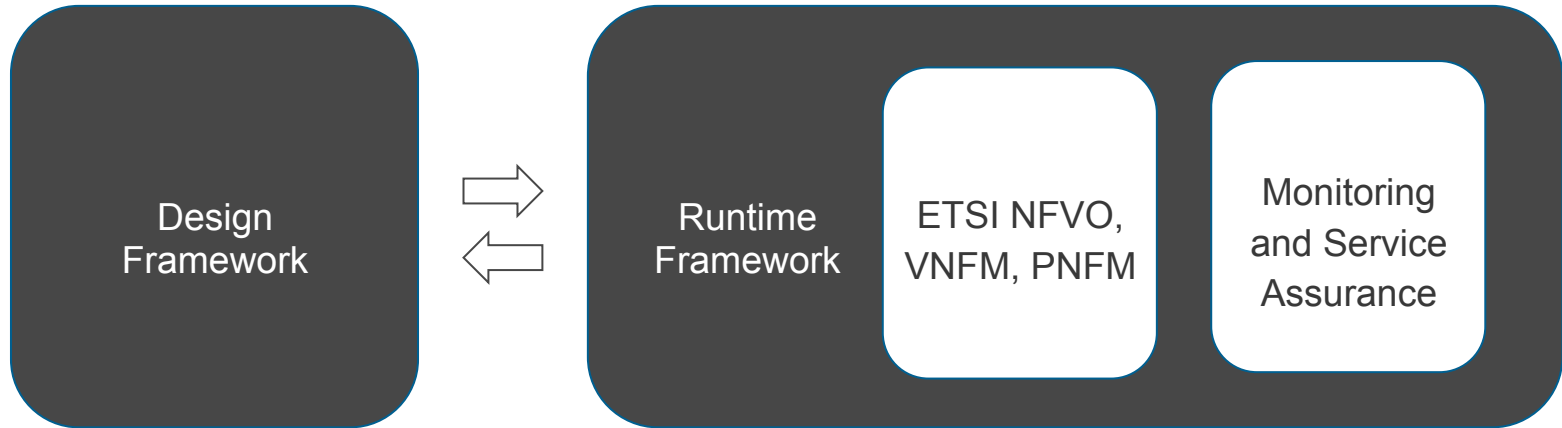
Orchestration with ONAP Overview



Previous work: Our Latest Demo at Turk Telekom

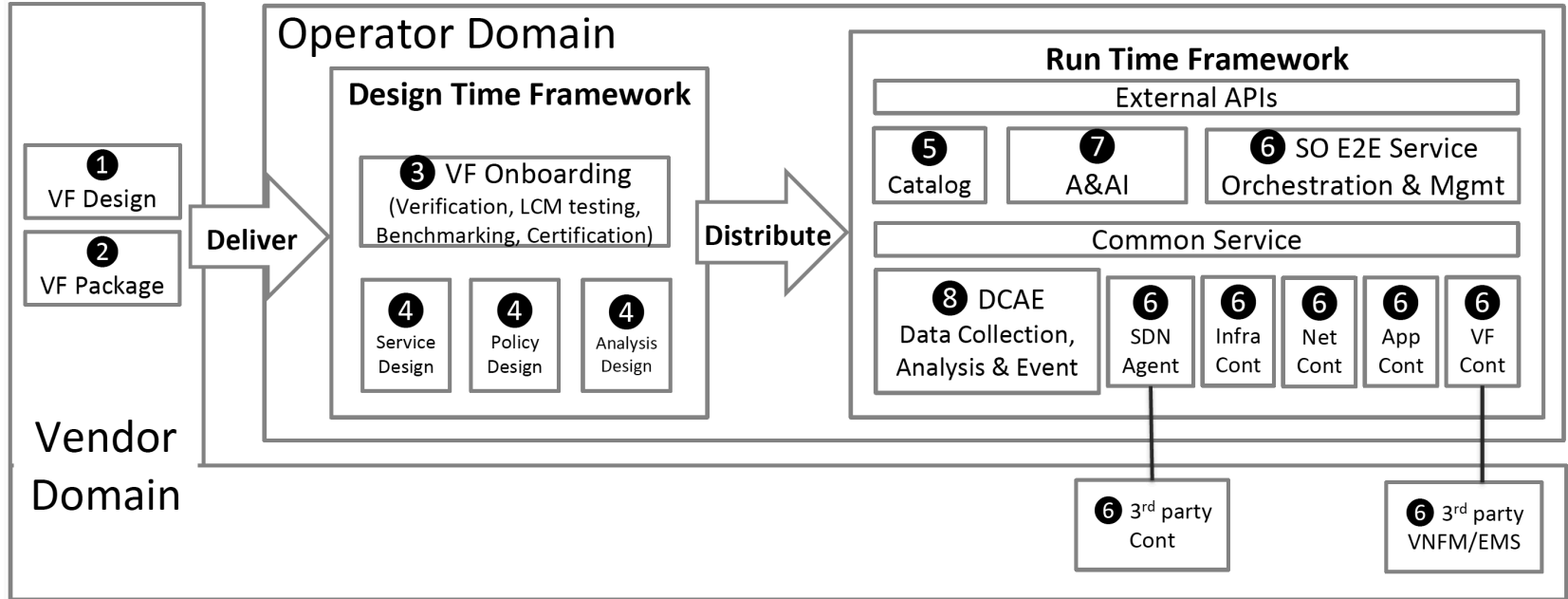


The ONAP Scope



Source: Aarna Networks

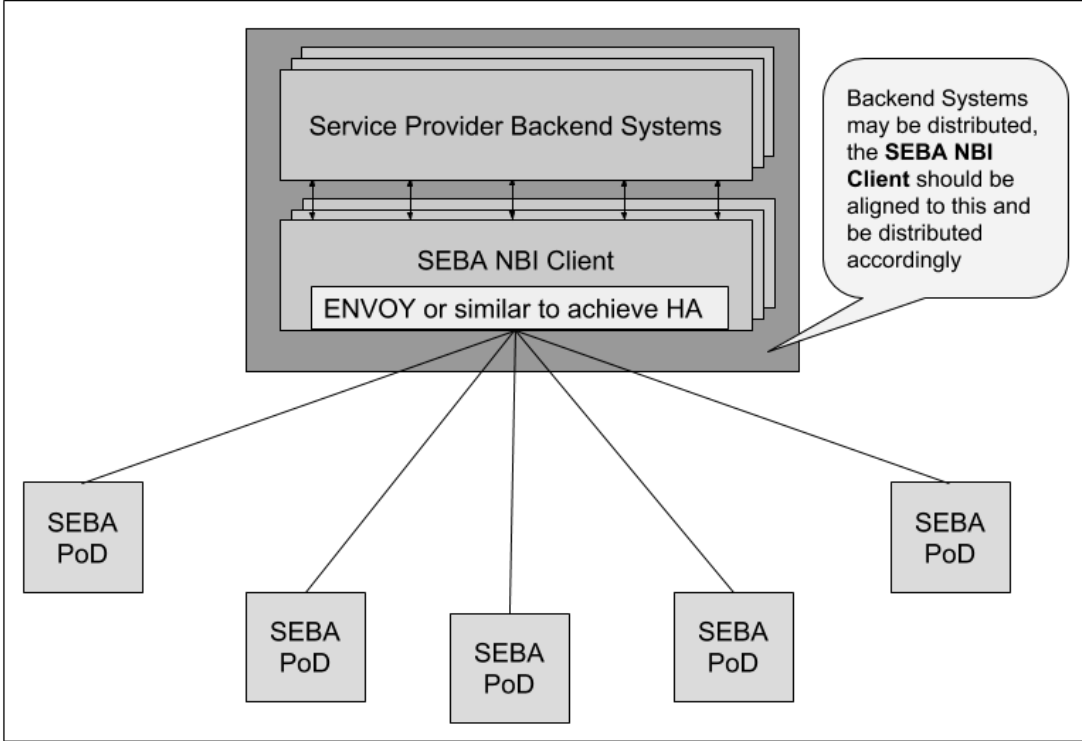
A Quick Look to ONAP



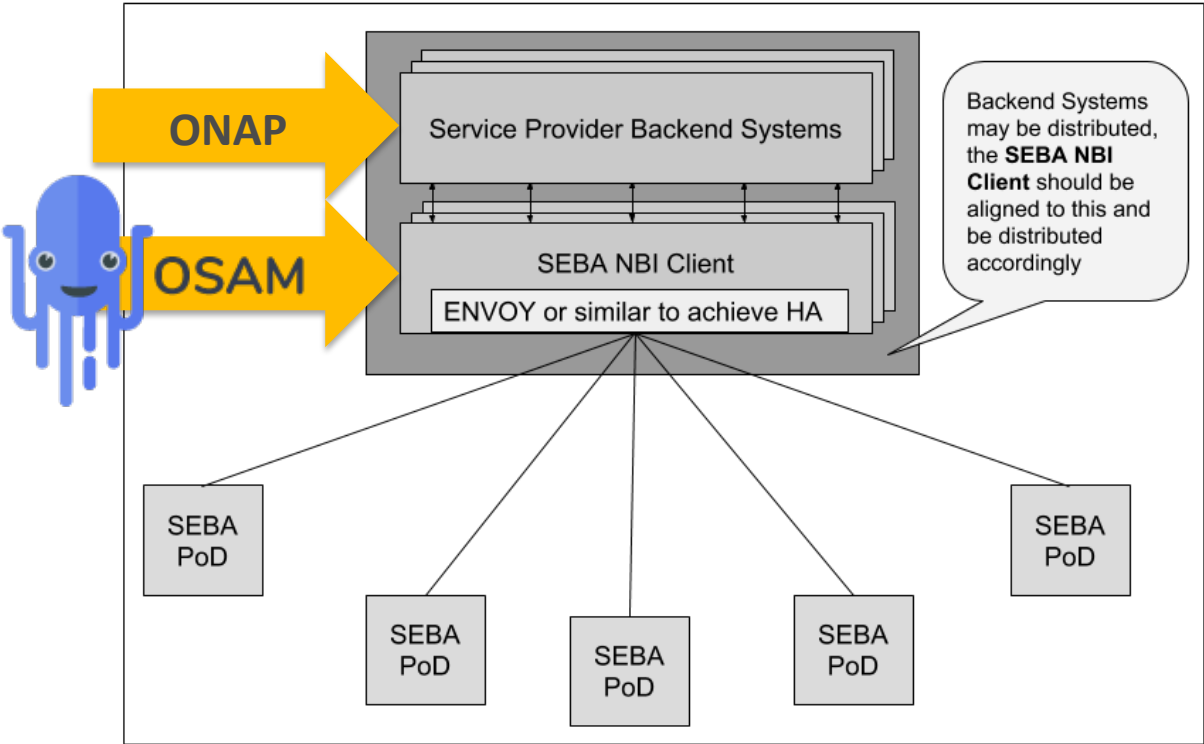
Where are we now?



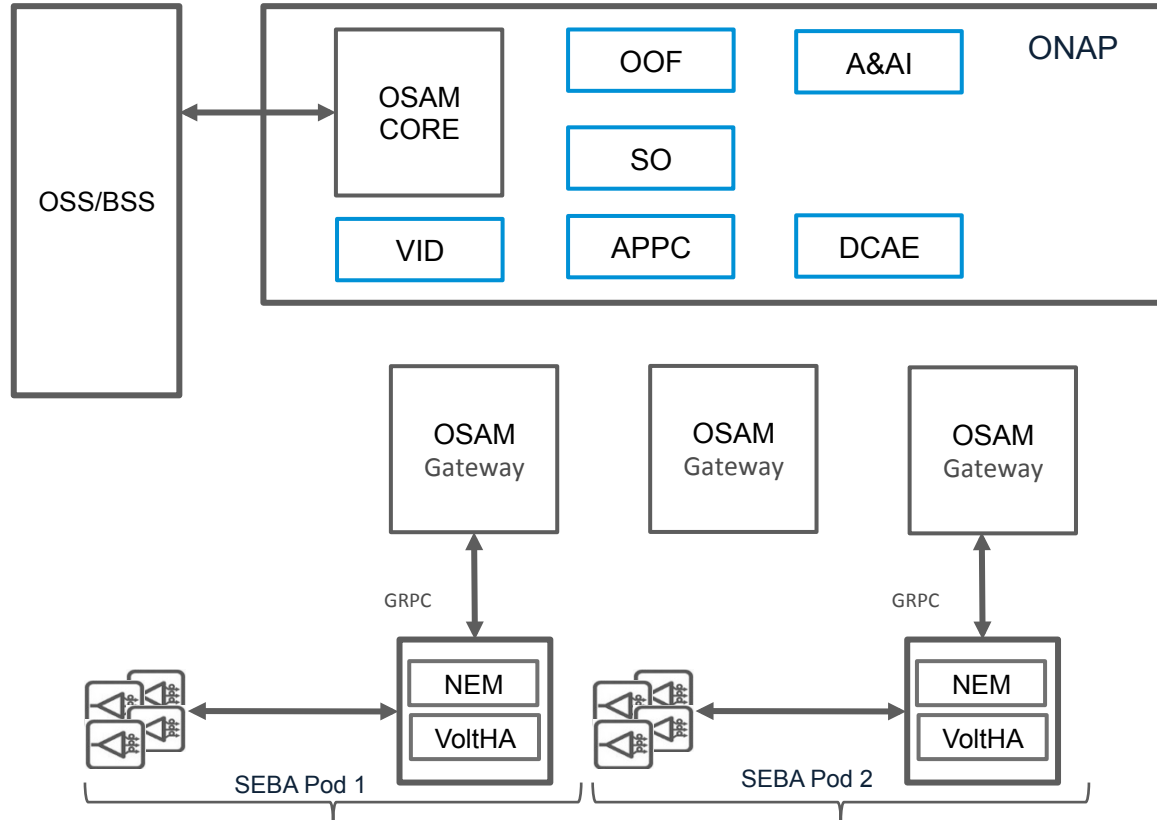
Generic Orchestration Architecture for SEBA



Generic Orchestration Architecture for SEBA

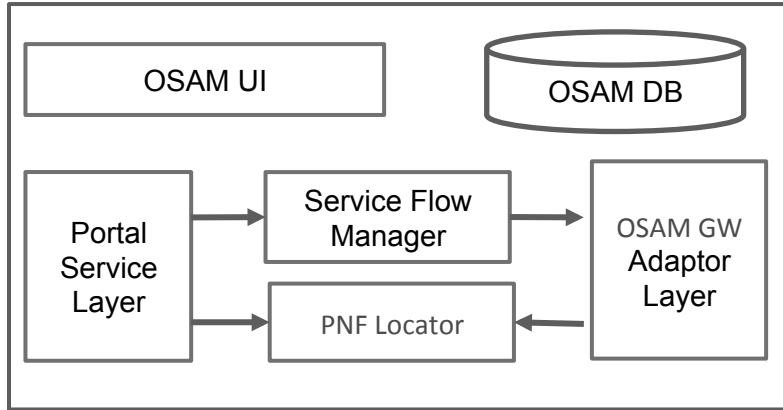


SEBA @ ONAP : OSAM

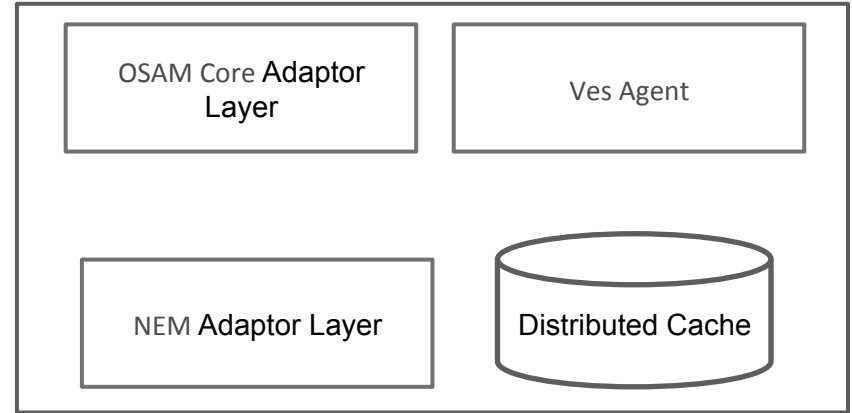


The OSAM Core & Gateway Architecture

OSAM CORE



OSAM Gateway



Development Status and Latest Demo

1

SEBA POD registration to ONAP

ONAP PNF Registration Handler, A&AI, VES Agent...

2

Virtual OLT Provisioning

Configured Chassis/Slot/Port...

3

ONT Provisioning

Configured an ONT for the subscribers broadband access...

OSAM Committers– Join us!

Name	Company
BAINBRIDGE, DAVID	CIENA
BAVIER, ANDY	ONF
CHAWKI, JAMIL	ORANGE
ELIACIK, BORA	NETSIA
KOLBE, HANS-JORG	DT
BHOJAN, SUMITHRA	AT&T
PETERSON, LARRY	ONF
SLOBODRIAN, SERGIO	CIENA
SOYTURK, MESUT	ARGELA

+ **50**
Contributors



Thanks