How to migrate NF or VNF to CNF without vendor lock-in

WEBINAR 20.10.2020

CLOUD NATIVE
COMPUTING FOUNDATION

AGENDA

1. Today's speakers
2. Market and technology drivers 2020+
3. Step by step migration to CNF - LIVE DEMO
4. Q/A

TODAY'S SPEAKERS

GREG SIKORA

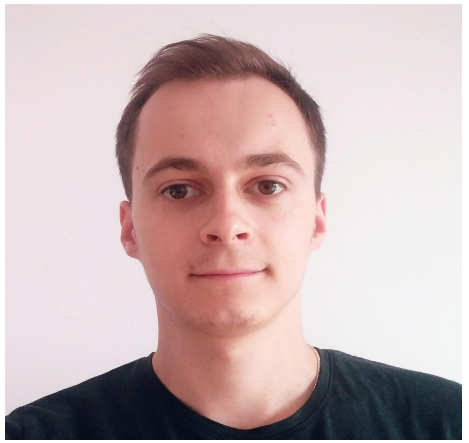
- Open Source evangelist in TELCO
- Ultramarathon runner
- Telecom and cloud expert with 20+ years exp.
- Blockchain addicted enthusiast

RAFAL MYSLIWIEC

- Swiss knife of messaging
- Experienced Software engineer
- Expert in legacy protocols
- Best optimization specialist

PAWEL KULPA

- Master chef of cloudification
- Experienced Software engineer
- Cloud Automation expert



WHAT WE DO BEST

CLOUD

- Cloud transformation
- Cloud Native design, implementation and deployment
- Automatization
- Containers Kubernete

kubernetes

CHEF

Terraform

openstack™

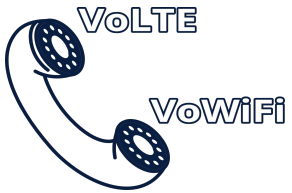
ANSIBLE

TELCO

- Signalization area
- Billing & rating area
- Provisioning and mediation area

OCS

PrePaid CC



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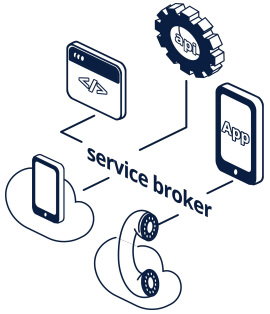
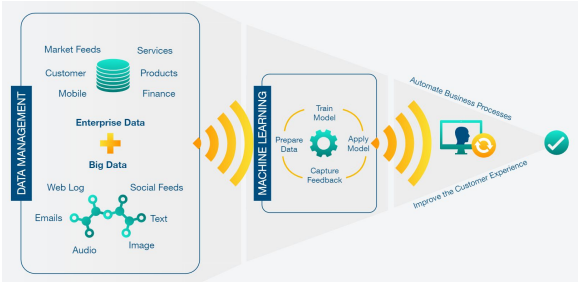


Service Broker

Convergent Messaging GW

OTHER

- Blockchain
- AI/ML



OPEN SOURCE COOKING

"We love open source because it gives us the freedom to cook delicious dishes using the best ingredients"

Dominik Skrobacz
Co-owner at OVOO

15+
big migrations completed

30M
SMS per day rated online

150M
migrated users

MARKET AND TECHNOLOGY DRIVERS 2020+

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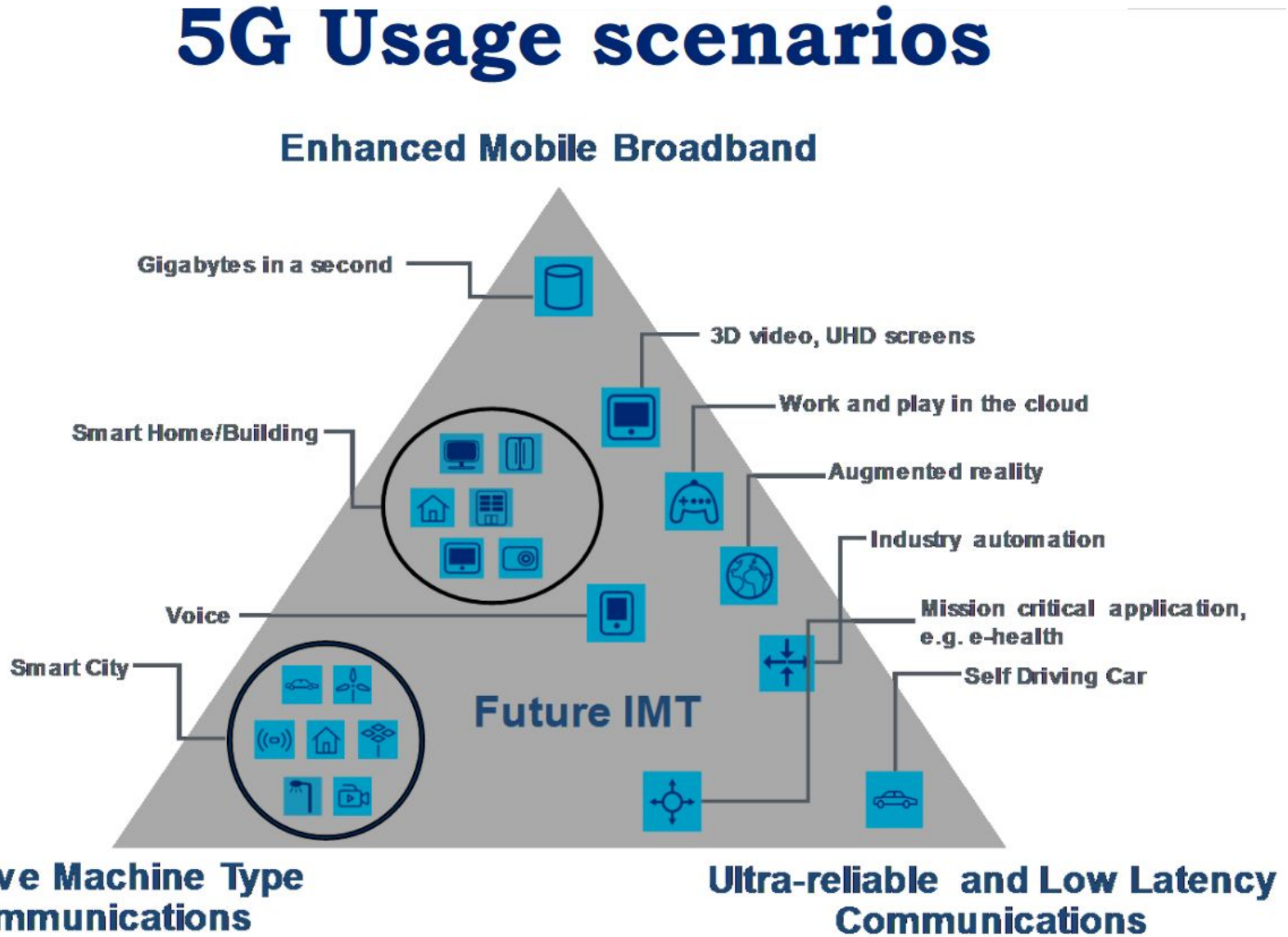


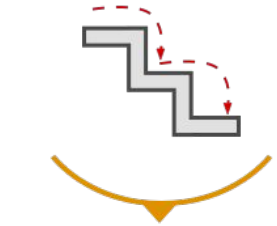
Source EDN Network

The 5 best 5G use cases

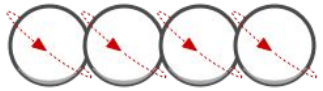
MARKET AND TECHNOLOGY DRIVERS 2020+

Development Process

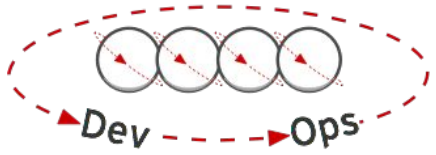
Waterfall



Agile

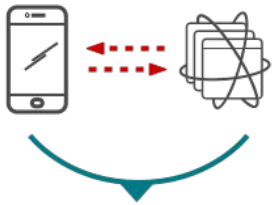


DevOps

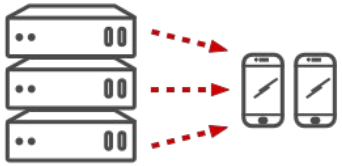


Application Architecture

Monolithic



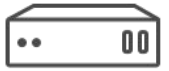
N-Tier



Microservices

Deployment & Packaging

Physical Servers

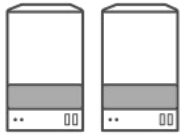


Virtual Servers

Containers

Application Infrastructure

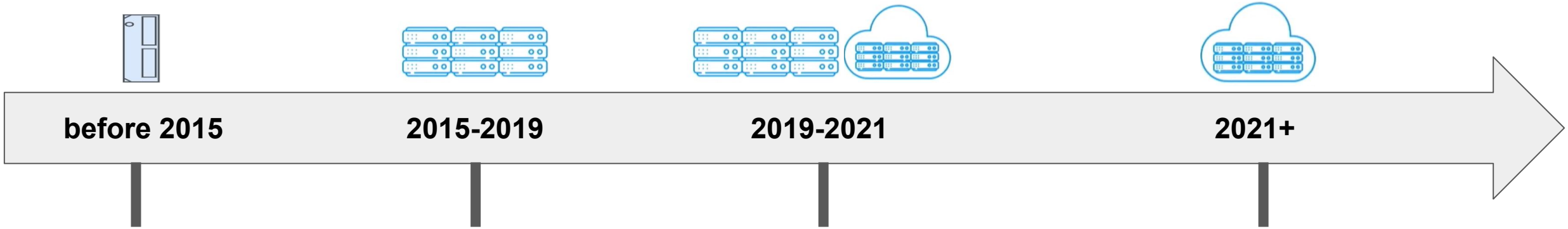
Datacenter



Hosted

Cloud

NF EVOLUTION TO THE CLOUD



NF
Legacy monolithic Network Functions

VNF
Virtualized Legacy Network Functions

VNF + CNF
Hybrid deployment mixing legacy and Cloud Native Functions

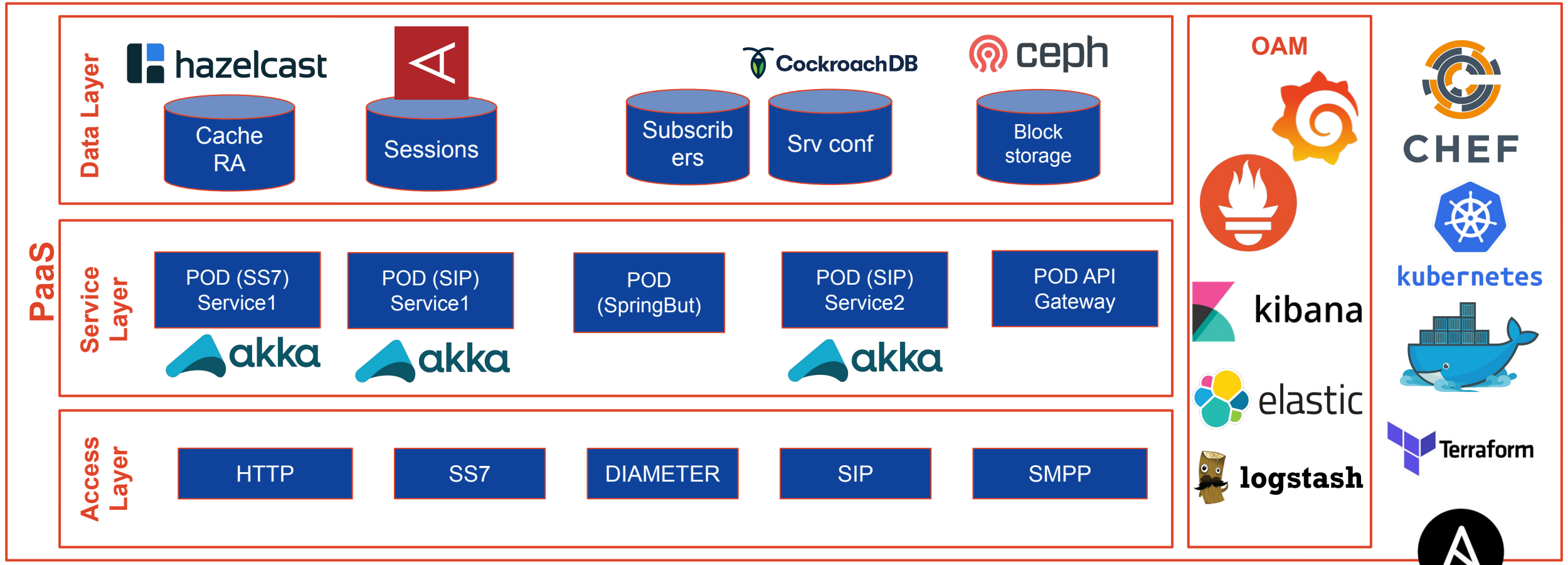
CNF
Unified Cloud Native Functions

- **Application Server based service => cloud native apps**
- **Monolithic => Microservices**
- **Containers for automated deployment and DevOps**
- **Container orchestration for scalability and management**

Well known issues with legacy deployments

1. Lack of services separation
2. Monolithic big application
3. Heavy regression testing
4. Complicated deployment procedure
5. Heavy acceptance tests
6. Limited automatic scalability

Cloud native apps - architecture blueprint



LIVE DEMO
STEP BY STEP MIGRATION TO CNF

Key features and benefits

Why to migrate to CNF?

- Cost effectiveness - migration to be spread over time
- IPRs ownership for the business logic - no vendor lock-in
- No royalty - no need to buy expensive licenses and subscriptions
- The Service Provider can contribute to open source development

Q & A

THANK YOU

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