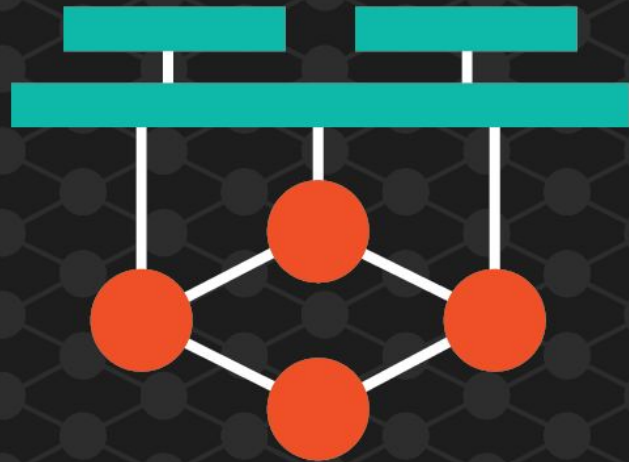


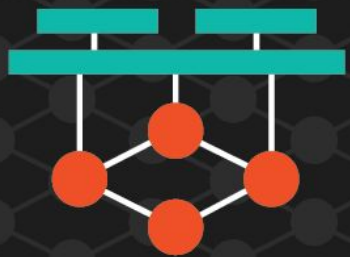
September 25 - 27, 2018
Amsterdam, The Netherlands



ons

EUROPE

OPEN NETWORKING //
Integrate, Automate, Accelerate



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

September 25 - 27, 2018
Amsterdam, The Netherlands

Orange Openlab: A Full Automated Telco Stack for the Community

David Blaisonneau & Nicolas Edel, Orange

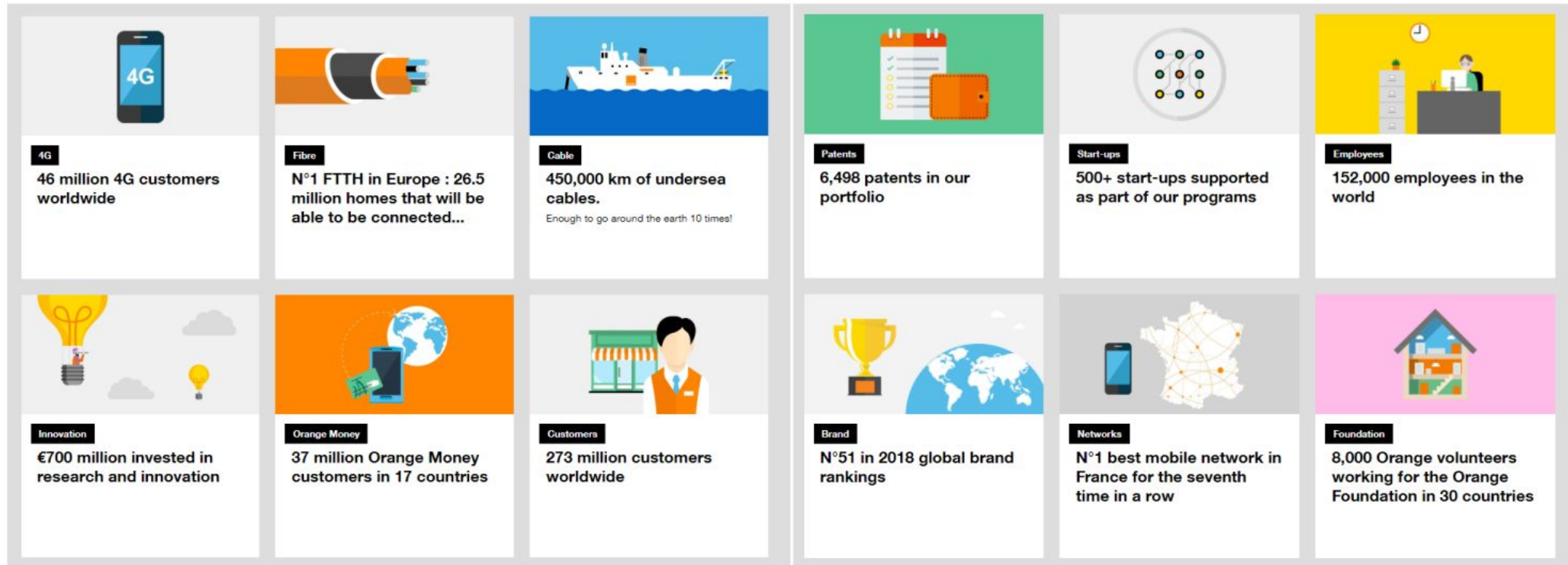


ons

EUROPE

OPEN NETWORKING //
Integrate, Automate, Accelerate

Introduction





ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

“**At Orange, we are using open source to speed up the industrialisation (hardening) of technology and ensuring open APIs — to help us partner and create new opportunities to deliver a better customer experience. LFN projects help solve some of the challenges that come with SDN/NFV by reducing the time and effort required for network transformation, specifically in the areas of simplified and automated operations, NFV Infrastructure/VNF validation and onboarding, network service design/onboarding and interoperability.**”

Jehanne Savi, Executive Leader of the All-IP and On-demand Networks Programmes. May 2018



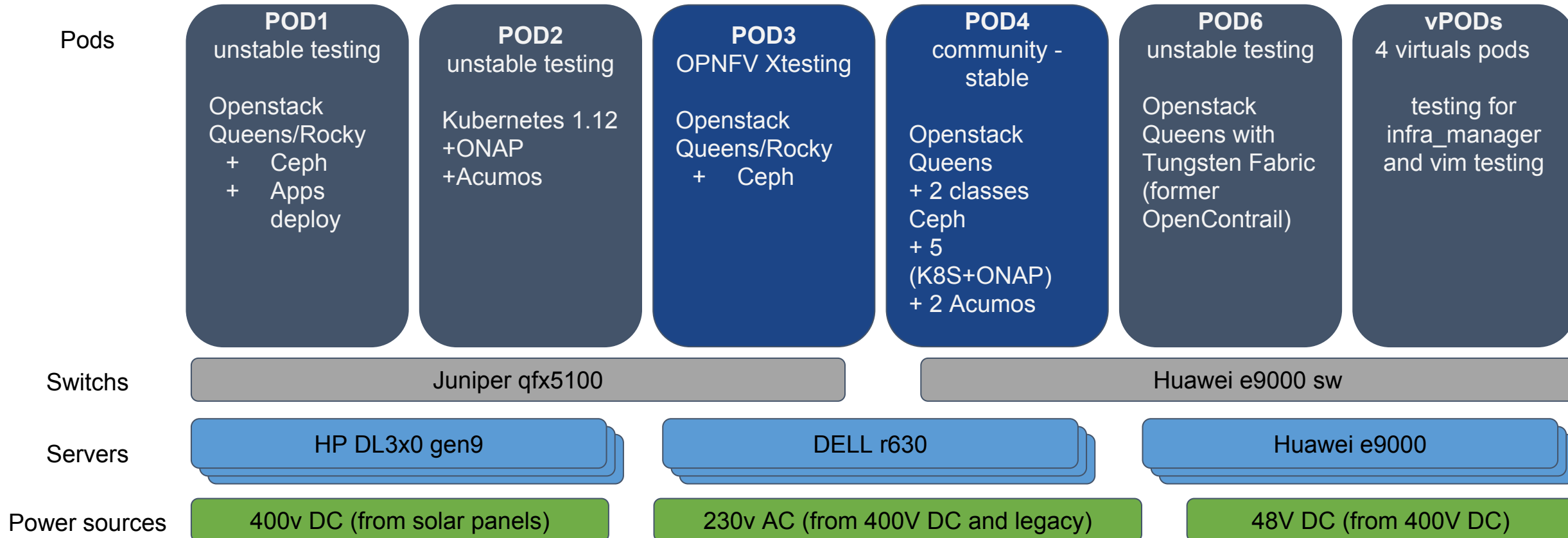
ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Why creating an Openlab?

- to Learn (infrastructure, automation, methodology)
- to Control and stay master of our infrastructure
- to Save interoperability testing time by opening the lab to partners
- to Be actor of the ecosystem
- to Face real operational issues as soon as possible



Openlab overview





Automate, of course

Pipeline Jobs 7



We start from 2 files describing the infrastructures (Infrastructure description file and platform description file) on a preconfigured network topology

We configure the Bare Metal servers (OS, Network,..)

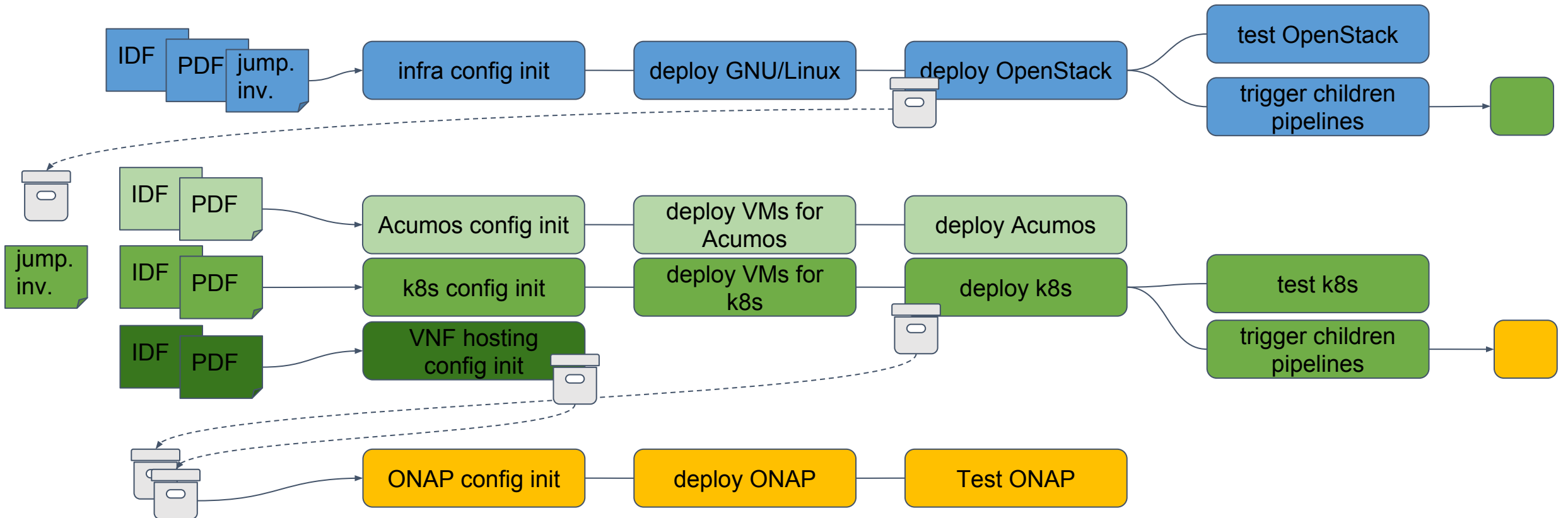
We deploy Openstack (Thanks Kolla!)

We trigger post vim install applications pipelines

We run OPNFV test suites (Functest) to check that the VIM is working as expected

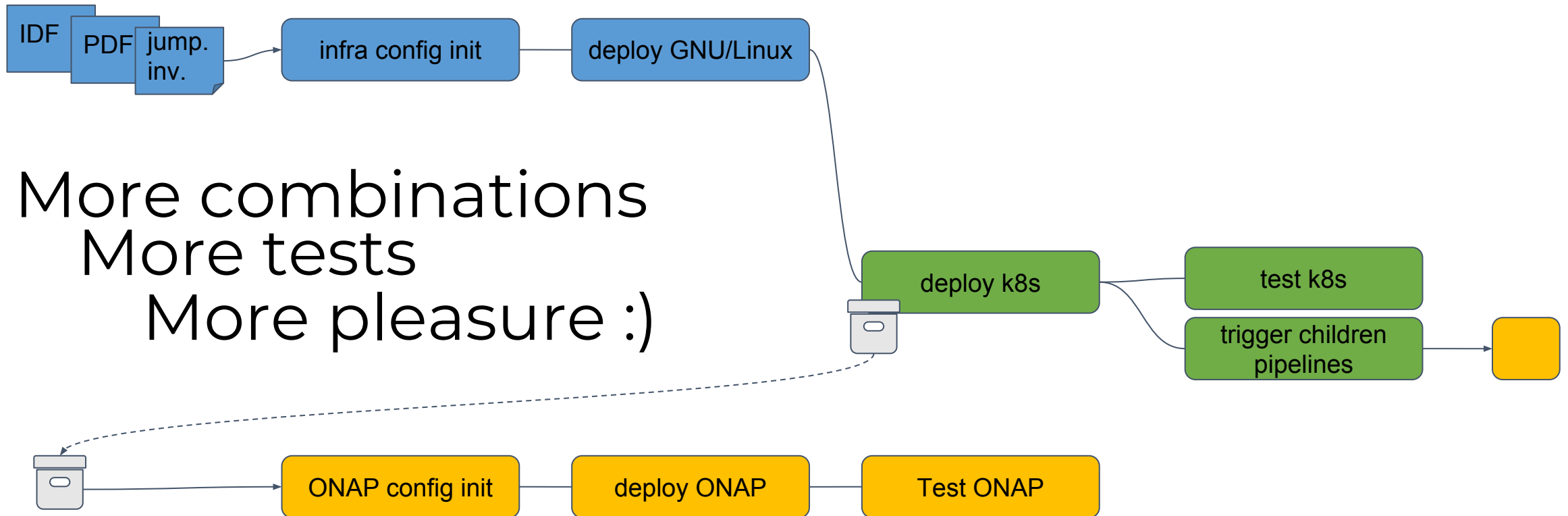


Automate, and chain pipelines



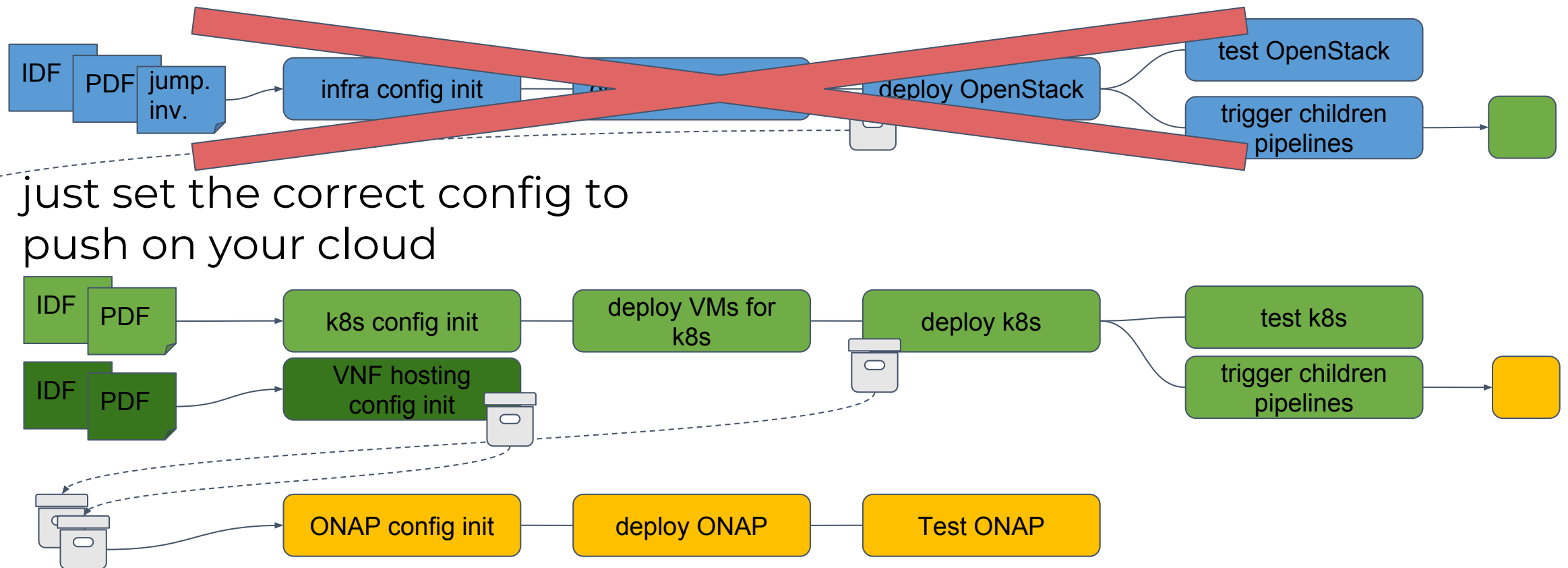


Automate, and un-chained pipelines





Automate, and just deploy the part we need





And deploy the needed version

ONAP 2.0.0

ONAP Beijing

ONAP master

planned

Acumos
master

Acumos
Athena

planned



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Openlab

- 1 ONAP community lab: Orange Openlab
- 1 POD for Functest PTL (no resource from LF)
- 1 planned Acumos community instance
- + Internal ONAP instances (daily, tests)
- + Tooling



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Openlab Facts & Figures

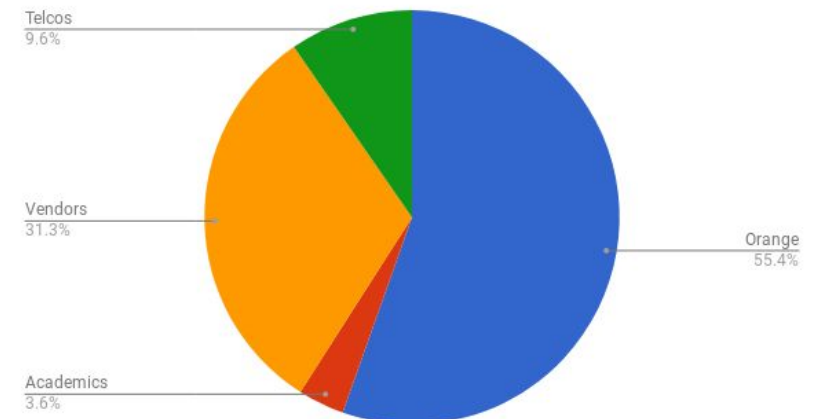
- 5 PODs
- 35 servers
- 1684 threads
- + 6200 Go Ram
- + 112 To of disks



Openlab Facts & Figures

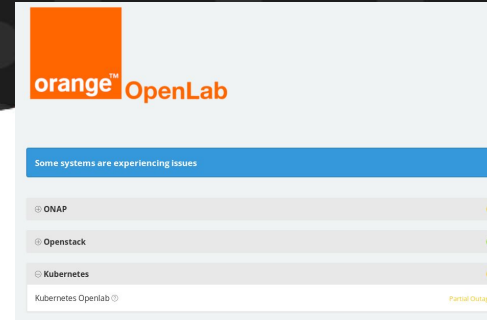
- 75 users
- 55% Orange (including affiliates, operations)
- 31% Vendors
- 10% Telcos
- 4% Academics

Orange Open Lab users (27/08)





ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate



What does Openlab access mean?



- Access to a stable ONAP instance
- Access to an OpenStack tenant to test onboarding/instantiation
- Access to tools (e.g. VVP portal for ONAP VNF checks prior to onboarding)

		Nom de l'instance	Nom de l'image	Adresse IP	Gabarit
Volumes	>	bono-0.demoefo.vims.onap.org	ubuntu-14.04-daily	192.168.100.8	onap.medium
Réseau	>	veillum-0.demoefo.vims.onap.org	ubuntu-14.04-daily	192.168.100.6	onap.medium
Orchestration	>	dime-0.demoefo.vims.onap.org	ubuntu-14.04-daily	192.168.100.16	onap.medium
Admin	>	sprout-0.demoefo.vims.onap.org	ubuntu-14.04-daily	192.168.100.14	onap.medium
Identite	>	homer-0.demoefo.vims.onap.org	ubuntu-14.04-daily	192.168.100.13	onap.medium



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Who can access?

- Any ONAP contributor: test, integration, VNF onboarding
- Orange can revoke the access if resources are used in an inappropriate way
- No SLA (Best Effort)
- Open IRC chan: #onap-orange
- Mailing list: onap-openlab AT list.orange.com



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

How to access?

Send a mail to onap-openlab@list.orange.com with:

- Name
- Company/university
- Nature of the work you want to do on ONAP
- Public ssh key
- Start and end date

cf <https://wiki.onap.org/display/DW/Orange+OpenLab>

After a quick check, the creation of the user is ... automated



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Perspectives

- More PoCs and activity on the OpenLab
- Provide more VIM configurations (E.g. Openstack + Tungsten Fabric)
- Focus on use cases and not on deployment
- More ONAP CI chains & better feedback to the community
- Open source internal projects
- Keep on integrating and automating simple E2E tests
- Play with Acumos



ons
EUROPE
OPEN NETWORKING //
Integrate, Automate, Accelerate

Thank you

Visit our booths during ONS

- OpenLab on LFN booth
- NBI/TMF API for ONAP on Orange booth



Other presentations during ONS

26/9 13:50: Lightning Talk: Artificial Intelligence the Next Digital Wave for Telcos - Jamil Chawki, Orange

26/9 14:30 Accelerate the VNF Integration - Jehanne SAVI, Orange

27/9: 11h15 LFN Xcommunities Testing - Morgan Richomme & Cedric Ollivier, Orange

27/9 14:30: Be Active in Networking Open Source when you are a Service Provider - Eric Debeau & Morgan Richomme, Orange

27/9 16:05: SDO + Open Source: When TMF APIs Meet ONAP - René Robert & Matthieu Geerebaert