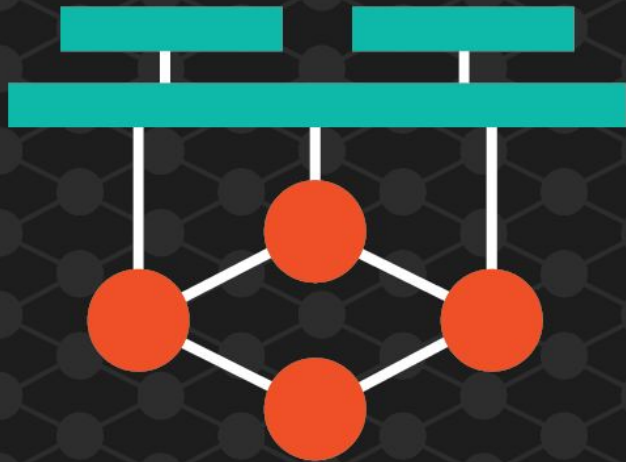


September 25 - 27, 2018
Amsterdam, The Netherlands



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September 25 - 27, 2018
Amsterdam, The Netherlands

LFN Test frameworks & certification: what a Telco really needs

Morgan Richomme, Orange



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A 3D-rendered yellow sticky note is pinned to the white background with a red pushpin. The word "Important" is written on the note in a bold, black, sans-serif font, slanted to follow the angle of the note.

Important



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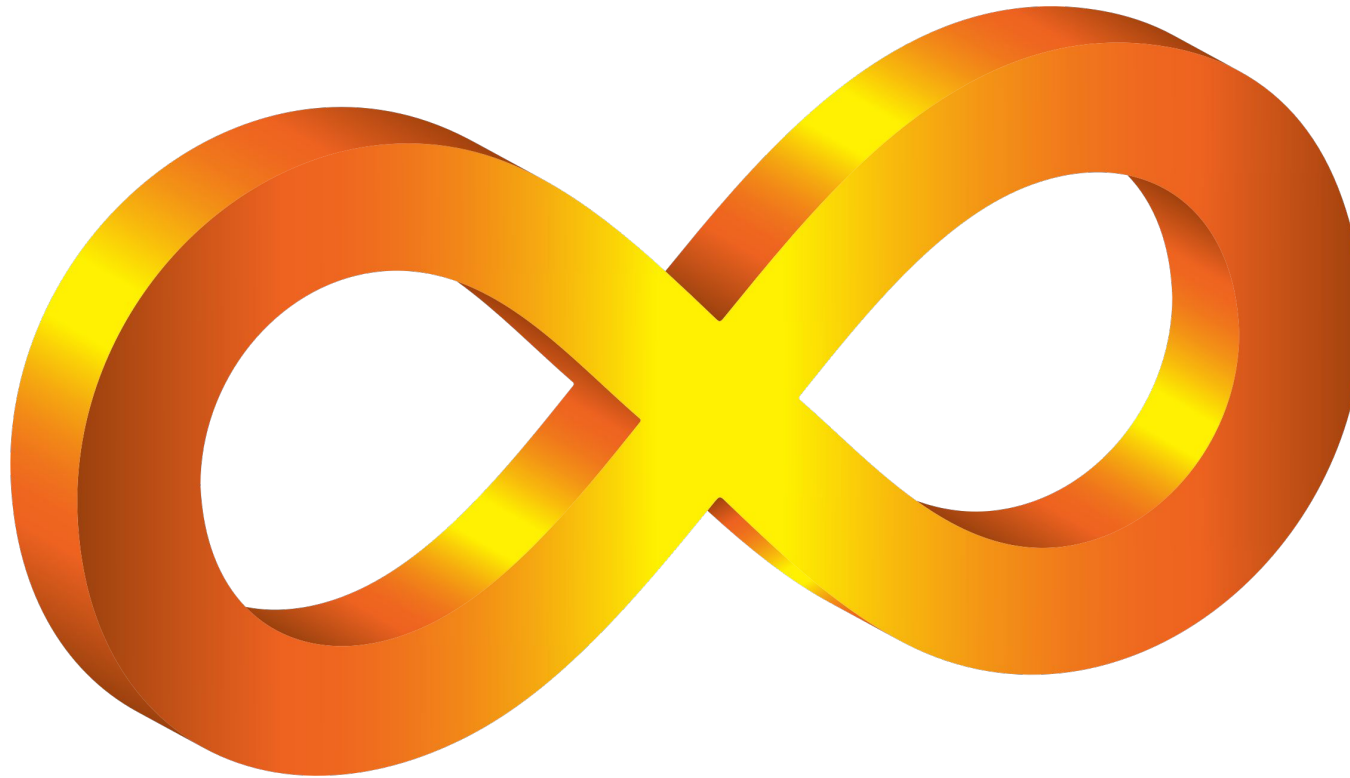
Verified Program is important for the communities

- For the vendors
 - Justify resources allocation/community commitments
 - Integrate community assets in strategy
- For the Telcos
 - Provide Trust/Maturity indicators
 - Reduce interoperability testing campaign
- For the Community
 - Differentiate from other Open Source initiatives



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Infrastructure
capabilities?

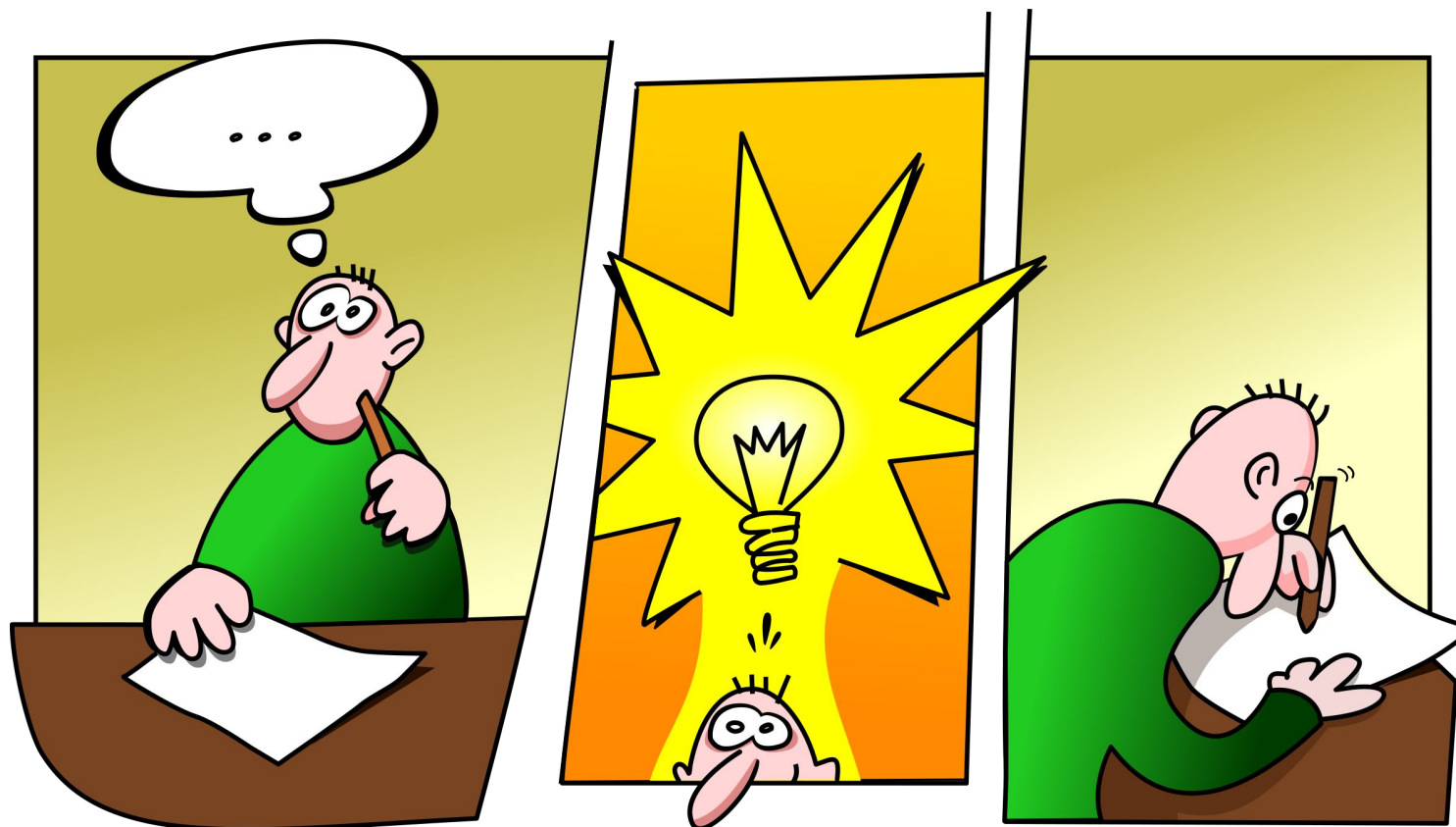


VNF
performance?

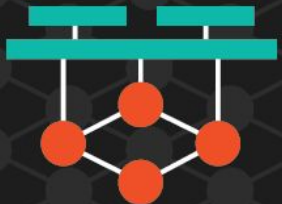


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Infrastructure
certification



VNF
certification



Today in LFN projects

Infrastructure

 **OPNFV**
VERIFIED

2018.01

VNF Documented

 **ONAP**
OPEN NETWORK AUTOMATION PLATFORM

Badged

2018.11

VNF Documented

 **ONAP**
OPEN NETWORK AUTOMATION PLATFORM

Badged

2018.11

VNF Life Cycle

 **ONAP**
OPEN NETWORK AUTOMATION PLATFORM

Verified

2018.11

VNF Functional testing

 **ONAP**
OPEN NETWORK AUTOMATION PLATFORM

Verified

???

VNF Benchmark

 **ONAP**
OPEN NETWORK AUTOMATION PLATFORM

Verified

???

Dovetail

VNFSDK

Integration

Demo

Functest

Yardstick

Storperf

Vsperf

SampleVNF

Tempest

Rally

Shaker

...



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OVP



Upstream



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In Openlab today

- Weekly run of whole Functest
 - ~ OpenStack gating+ (Full Rally, Tempest)
 - Bench (shaker, vmtp) + RBAC (barbican, patrol)
 - VNF tests (OAI EPC, Clearwater IMS, vRouter)
 - Tests run in //
- VNF
 - VVP portal
 - VVP docker (using xtesting)
- Infra + VNF leveraging OPNFV DB + test API
- Integrated in CI chains





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Yes... Tests are overlapping **but...** each test may be important

Yes... VNF testing is important **even if...** they will not be used in production because they allow to compare with proprietary VNFs (apple with apple), define automation procedures and reference testing suites

Yes... // Testing is key because it means it could be used towards production system

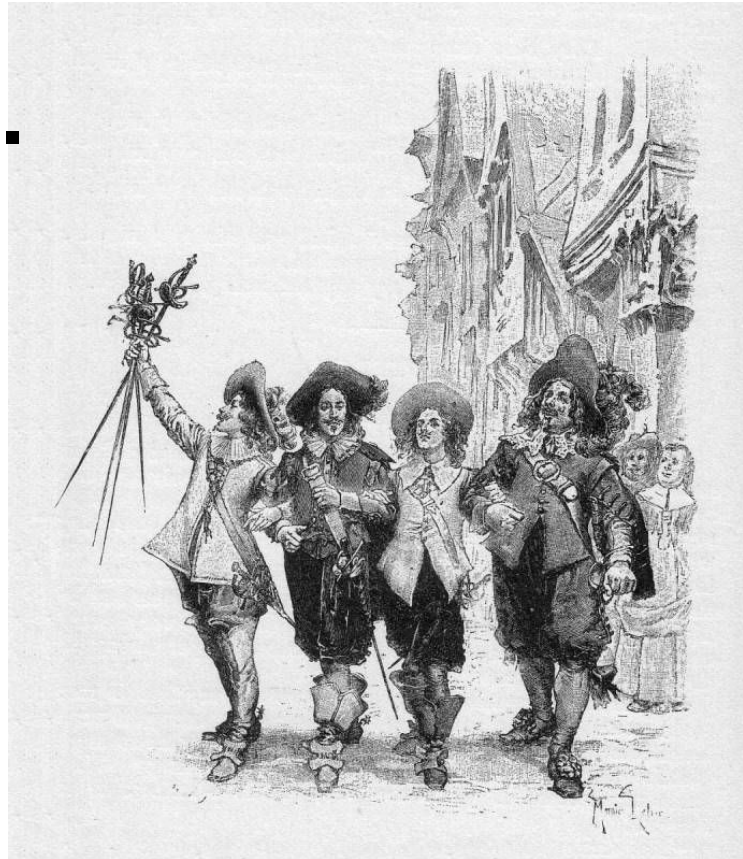
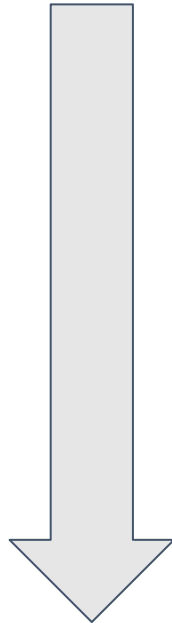


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One for all....



1 project picks up test cases of upstream test suites and excludes some or specify specific config

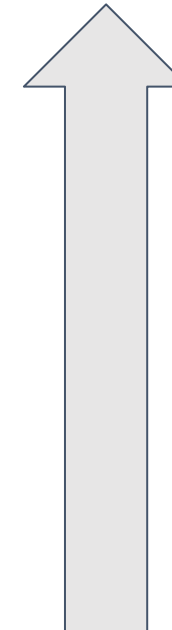


or all for one...

XTesting

1 project collects the results as they are

Official Upstream projects defines test suites





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Conclusions

- Certification is needed to save time...and money
- Certification fully makes sense for LFN but it shall be at least at the project gating level
- We believe more in a bottom-up approach (xtesting)
- Upstream first! as usual...



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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