Open Source-ification of Networking & Journey to CNFs

THE LINUX FOUNDATION
142 years old Networking Industry – learnings in last 5 years

1. The Power of Open & Harmonized Community drives innovation and value

2. Networking is shaping adjacent communities: Cloud, Edge, AI, IOT, Access

3. Journey continues with best of both worlds: clouds and telecom with VNFs to CNFs
The Power of Open & Harmonized Community drives innovation and value

› Open Collaboration + Open Community
› Open Standards + Open Source

We call it “Harmonization” & Results have been Amazing!
We are seeing the impact in a Trillion dollar industry
Thank you!
Networking is the fabric for Growth & Innovation Across Industries

**Automotive**
Connected Cars
Connected cars market projected to reach USD $219.21 billion by 2025*

**Retail**
Connected Stores
82% of smartphone user say they consult their phones for in-store purchases***

**Energy**
Connected Homes
Global Smart Home Market to Exceed $53.45 Billion by 2022**

**Agriculture**
Connected Cows
Global Connected Cow and Farm Market Set to Exceed $10 Billion in 2021****

*Data Sources: *ResearchAndMarkets.com  **Zion Market Research  ***Salesforce: Connected Shopper Report  ****Arcluster
Linux Foundation Leads Modern Networking Innovation

- 21 Open Source Networking Projects
- 10/10 Networking Vendors Active
- $576 M Shared Innovation
- 9/10 Most Important Projects
- ~70% Global Subscribers Represented
- 15 Minute New Service Creation
Leading media and analysts support our leadership

The LF is Changing the Fabric of Networking
“…bringing top networking vendors, operators, service providers, and users together.”

Forbes

Orange plans 5G + Automation RFP
“Requires Open Source/ONAP”
Leading Surveys on Open Source & Networking

72% of companies rely on open source software across top verticals – technology, telecom and fintech
Leading Surveys on Open Source & Networking

Motivators of Open Networking
End User Driven Innovation

All Layers of Open Network
Core to CPE, Edge & Access next
LFN Project Initiatives & Milestones Further Enhance Cross-Stack Integration

› LFN Compliance & Verification Program Expansion
› Projects releases forming a fabric of modern network
   › ONAP PoC: Cross-Domain & Cross-Layer VPN
   › Tungsten Fabric Carbide and 5.0.1
   › FD.io 18.07
› OpenDaylight Fluorine

Sources: Wikipedia & Techopedia
Networking is shaping adjacent communities
Cloud, Edge, AI, IOT, Access
Edge is Hot and IHS survey confirms the need

History repeats itself, **Video (all kinds) is the killer app for Edge**
Journey continues with best of both worlds
Clouds and Telecom with VNFs to CNFs

Dan Kohn
Executive Director, CNCF
The Linux Foundation Brings Network Automation and Cloud Native Communities Together as Network Functions evolve to CNFs

Leading open source communities spearhead migration from Virtual Network Functions to Cloud-native Network Functions

AMSTERDAM - Open Networking Summit Europe - Sept. 25, 2018 - The Linux Foundation, the nonprofit organization enabling mass innovation through open source, today announced further collaboration between telecom and cloud industry leaders enabled by the Cloud Native Computing Foundation (CNCF) and LF Networking (LFN), fueling migrations of Virtual Network Function (VNFs) to Cloud-native Network Functions (CNFs).