OPEN DAYLIGHT

# OpenDaylight
# The Platform for SDN

**Marc Cohn**
*SVP, ClearPath Networks*

ClearPath networks

# Marc Cohn, SVP ClearPath Networks

ClearPath networks

- Enabling scale-out, VNFaaS use cases initial focus: vCPE
- Pioneer in Cloud-based Networking (10 patents)
- Customers: Deutsche Telekom, Hrvatski Telekom, BT
- Industry Leadership

OPEN DAYLIGHT — Silver Member Director Board of Directors

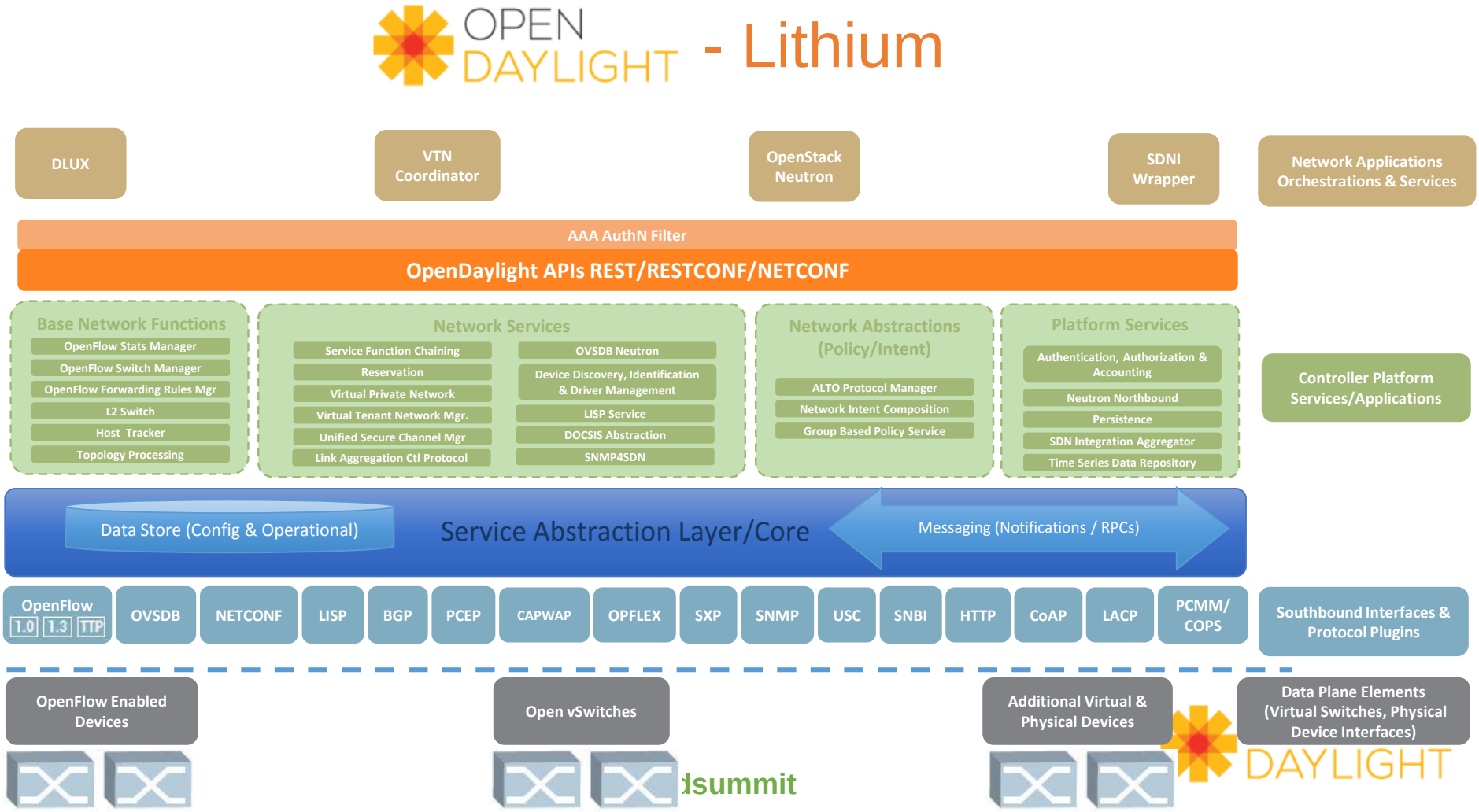
ONF — Market Area Director

ETSI World Class Standards — Advisor to the Chair (ETSI NFV ISG)

OPNFV — Market Committee

# Few Things Worth Doing Are Easy

1. Bring the industry **together** through participation
2. Build **de-facto standard** platform for SDN & NFV
3. Drive **end-user** involvement and usage


OPEN DAYLIGHT - Lithium
DLUX
VTN Coordinator
OpenStack Neutron
SDNI Wrapper
Network Applications Orchestrations & Services
AAA AuthN Filter
OpenDaylight APIs REST/RESTCONF/NETCONF
Base Network Functions
OpenFlow Stats Manager
OpenFlow Switch Manager
OpenFlow Forwarding Rules Mgr
L2 Switch
Host Tracker
Topology Processing
Network Services
Service Function Chaining
Reservation
Virtual Private Network
Virtual Tenant Network Mgr.
Unified Secure Channel Mgr
Link Aggregation Ctl Protocol
OVSDB Neutron
Device Discovery, Identification & Driver Management
LISP Service
DOCSIS Abstraction
SNMP4SDN
Network Abstractions (Policy/Intent)
ALTO Protocol Manager
Network Intent Composition
Group Based Policy Service
Platform Services
Authentication, Authorization & Accounting
Neutron Northbound
Persistence
SDN Integration Aggregator
Time Series Data Repository
Controller Platform Services/Applications
Data Store (Config & Operational)
Service Abstraction Layer/Core
Messaging (Notifications / RPCs)
OpenFlow 1.0 1.3 TTP
OVSDB
NETCONF
LISP
BGP
PCEP
CAPWAP
OPFLEX
SXP
SNMP
USC
SNBI
HTTP
CoAP
LACP
PCMM/ COPS
Southbound Interfaces & Protocol Plugins
OpenFlow Enabled Devices
Open vSwitches
Additional Virtual & Physical Devices
Data Plane Elements (Virtual Switches, Physical Device Interfaces)
dsummit
DAYLIGHT

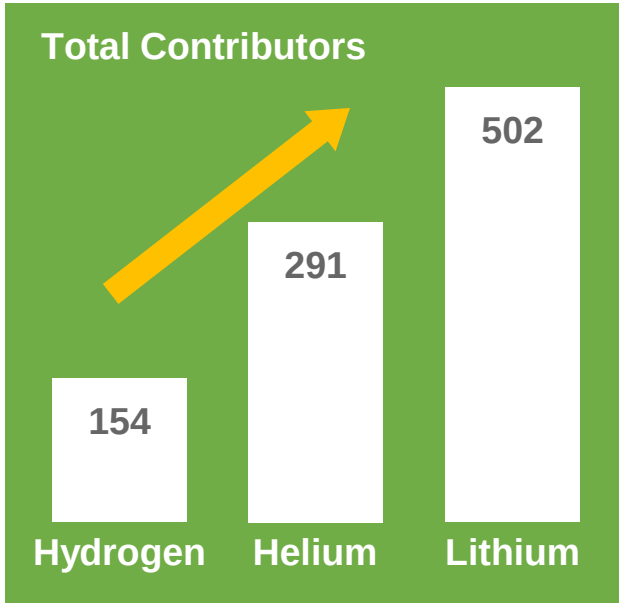
# Bringing the Industry Together

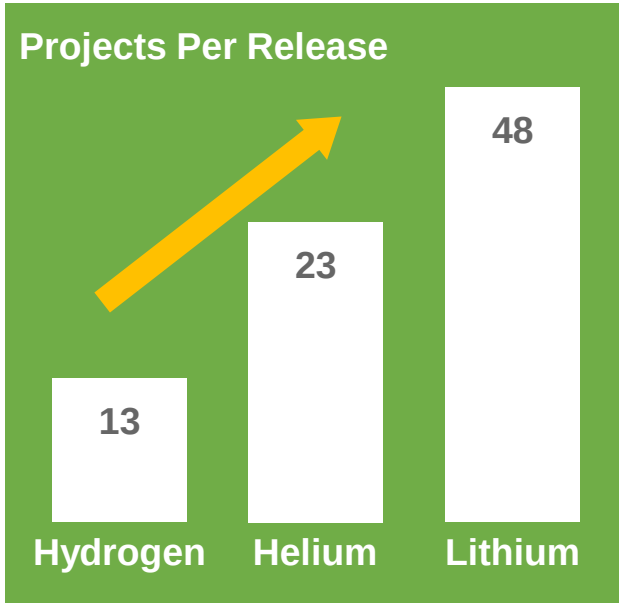
## Platinum Members of OpenDaylight

## Gold Member of OpenDaylight

## Silver Members of OpenDaylight

# Astounding Investment in OpenDaylight

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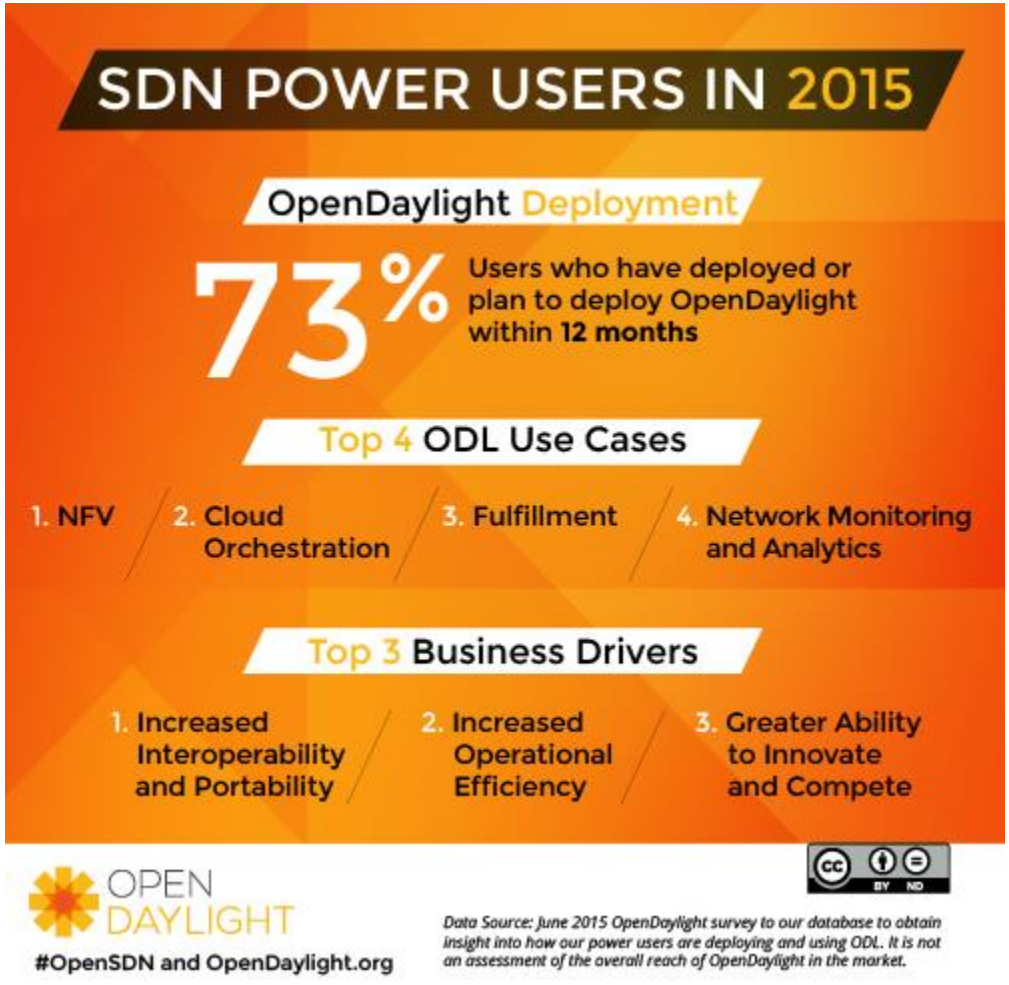


# First ODL User Survey

128 Companies responded

- 31% Telcos/Service Providers
- 24% Research/Academia
- 20% Enterprises
- 10% Services/Consulting
- 9% Software/Hardware
- 6% Other

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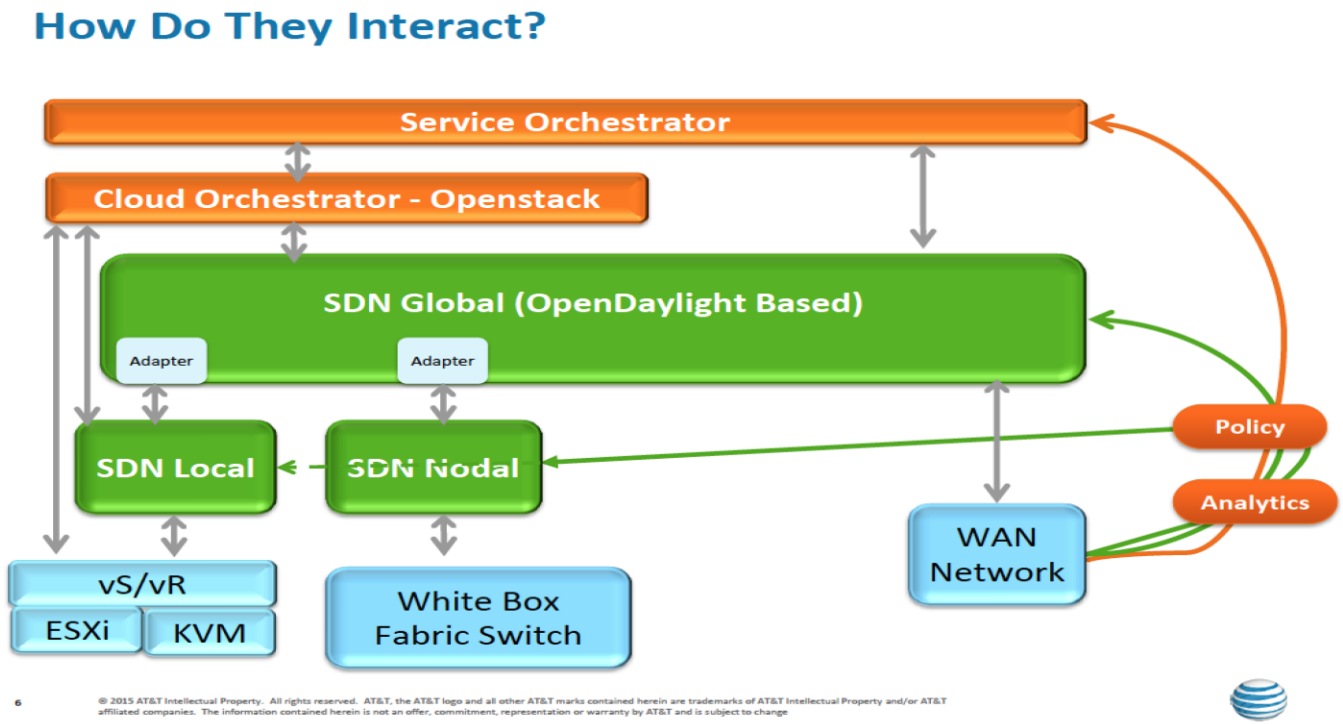
# OpenDaylight Products

# How AT&T is using ODL




From AT&AT NFV World Congress Keynote, May 6, 2015

# ODL in the WAN

- **Objective:** Self-provisioned dynamic network services
- **What**: Telstra PEN Platform - Layer 2 Ethernet virtual cross connect (VXC) forwards frames between any 2 endpoints on the network
- **How:** MD-SAL application, leveraging OpenFlow protocol
- **Reach:** 25 POPs and growing

# ODL at WebScale - Tencent

- **Who:** One of largest web-scale companies in the world
- **What:** DataCenter Interconnect Controller
- **How:** MD-SAL application, leveraging PCEP
- **Reach:** >500M users each for WeChat and QQ

"We request all our partners to be OpenDaylight compatible by end of this year"

*-Marty Ma, Chief Architect*

# Thank You

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