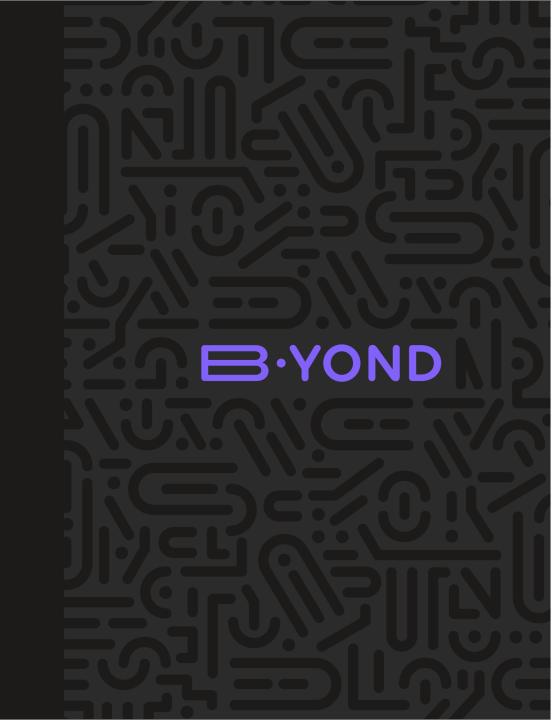
May 2017

Proprietary & confidential



B—YOND WAY



- ▶ IP creation
- ▶ Outcome based solutions design



- ▶ Feasibility testing & POC's
- ► Network unbundling, AI, IoT, LTE, 5G



- ► Ecosystem of partnerships with other disruptors
- ▶ Open platforms
- **▶** Code contribution



- ▶ Reference architecture & design
- ▶ Methodology, automation, & tools
- ▶ Deep network knowledge

And with new technologies like:







Networks must become

SMARTER MORE FLEXIBLE MORE RESILIENT HIGHER PERFORMING SECURE

to keep up.

BUT THE MODELS WE HAVE USED TO SCALE IN THE PAST

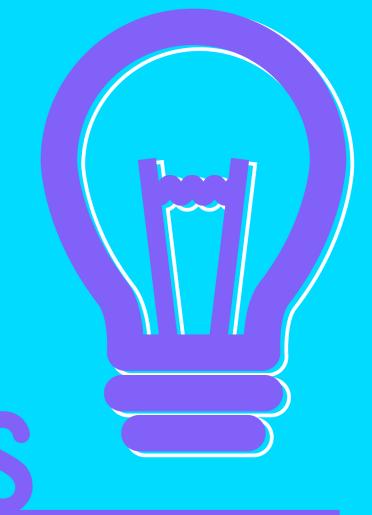




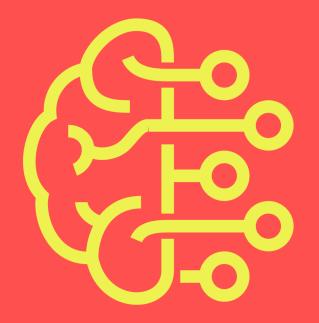


cannot deliver at the scale we need.

COMPANIES must turn to innovative SOUTTONS



OR RISK BEING LEFT BEHIND.



Those who invest in the

SOFTWARE DRIVEN MACHINE-LEARNINGFUTURE OF INTELLIGENT NETWORKS

will have the ability to change the way

CONNECTIVITY

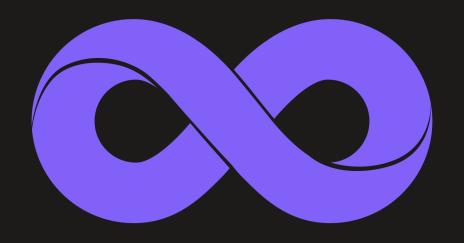
is designed and built.

We need to adopt a new approach,

A COMMUNITY-DRIVEN MODEL



THIS IS REVOLUTION. THIS IS THE INFINITE NETWORK.



THE INFINITE NETWORK

A network that has the ability to scale almost infinitely

A network that can be made available anywhere anytime

A network that's flexible enough to launch new services instantaneously

Through Open Source contributions, Co-innovation with partners and customers, and Knowledge sharing

We accelerate the realization of the transformative technologies to create new markets and value

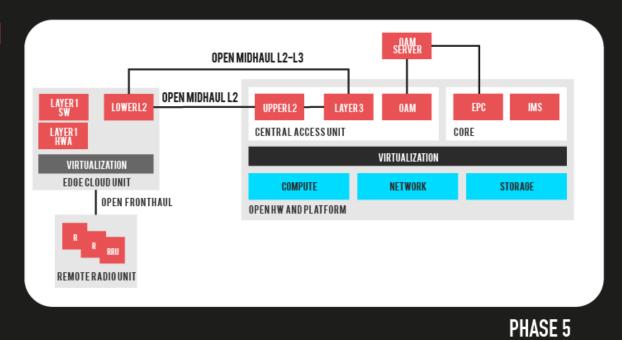


OPENSOURCEHW/SW | UNBUNDLEDRAN

We are a Founding member of TIP leading the charge in network unbundling through partnerships, collaboration, and innovation.

Project highlights:

- Open Source Hardware
- Centralized Layer 2, 3 on x86 HW
- Distributed L1, L2 on x86 HW
- Implementation of ORI



PHASE 1 PHASE 2 PHASE 3

Ubiquitous Cloud

PHASE 6

Self Organizing

Automated Orchestration

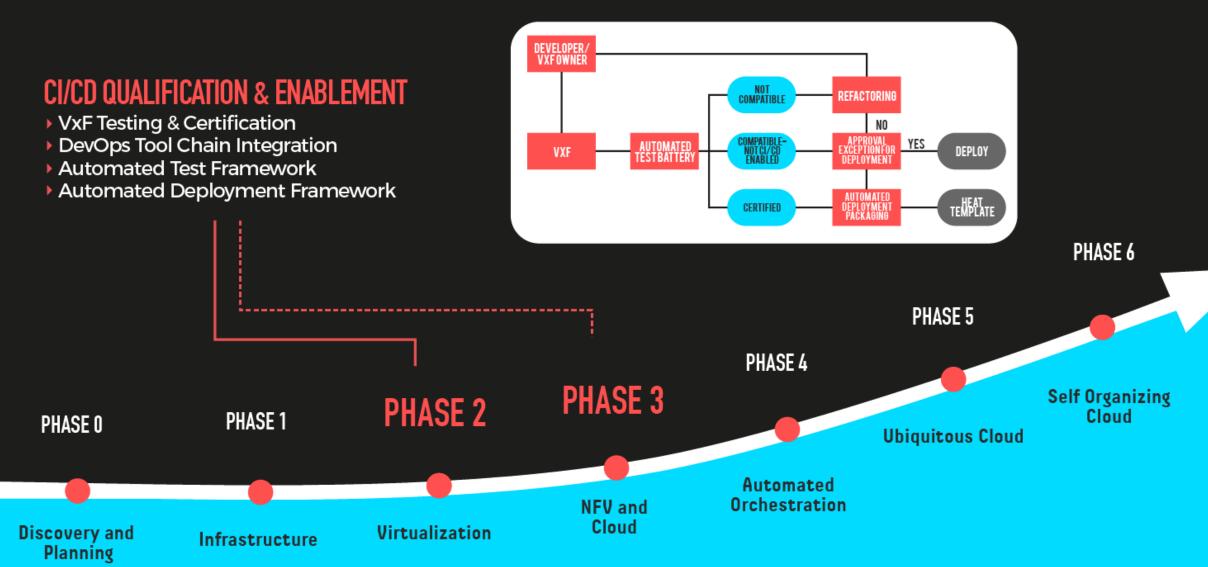
PHASE 4

Discovery and Planning

Infrastructure

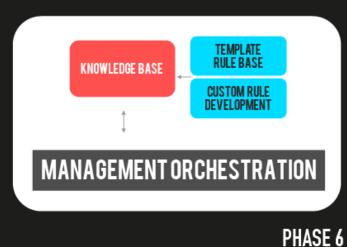
Virtualization

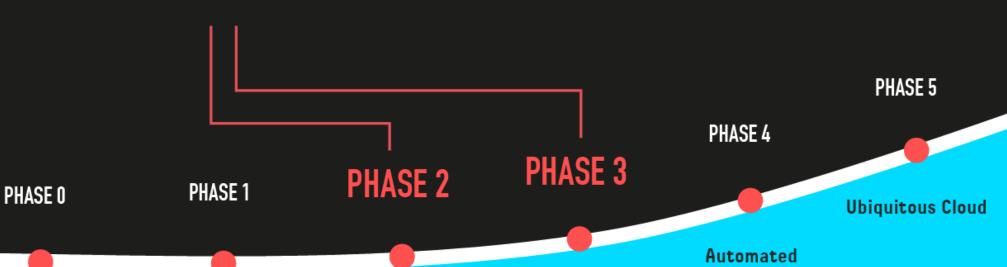
NFV and Cloud



KNOWLEDGE BASE DRIVEN ORCHESTRATION AND POLICY MANAGEMENT

- Business process optimization through automation
- Rules driven Configuration automation, e.g.
- IP Space
- Route Assignment
- Security Templates
- Heat Configuration
- Knowledge base powered policy management
- End to end deployment automation through DevOps enablement and knowledge-based business process & Policy management.





Discovery and **Planning**

Infrastructure

Virtualization

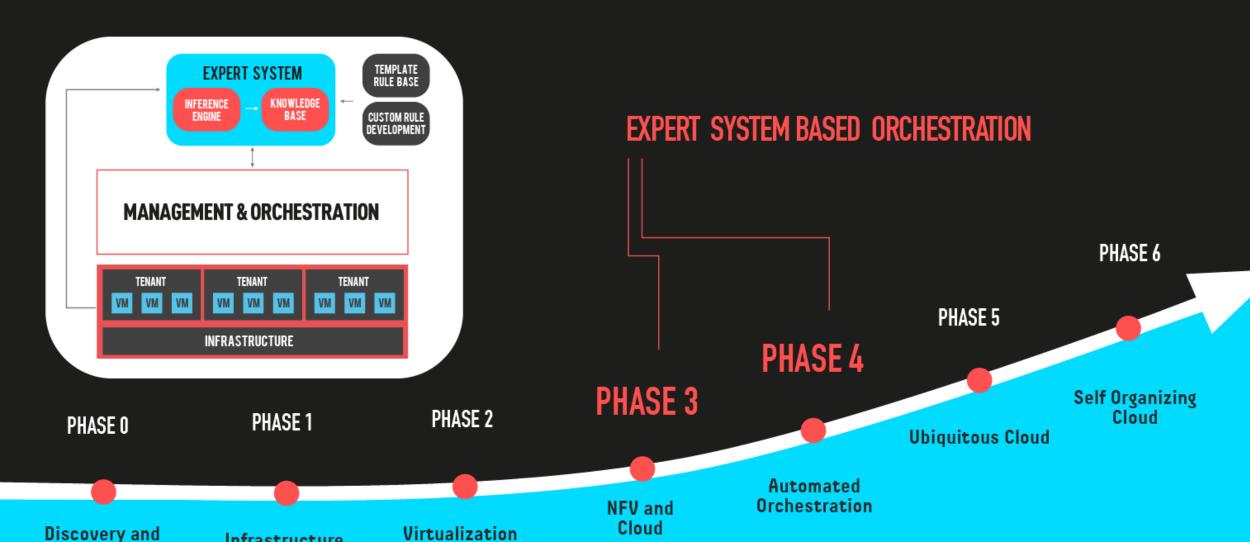
NFV and Cloud

Orchestration

Self Organizing Cloud

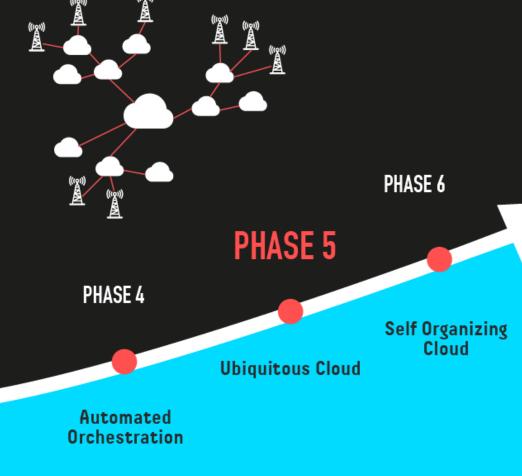
Infrastructure

Planning



EDGE CLOUD

- Remote discovery and provisioning of edge clouds in scale
- Centralized/federated management of edge clouds in scale
- Automated orchestration of VNFs
- Sample applications:
 - · Network in a Box (Core + RAN)
 - · Edge caching
 - · Wifi AP controller using OpenWISP
 - · Deep Machine Learning for Operations



Discovery and Planning

PHASE 0

Infrastructure

PHASE 1

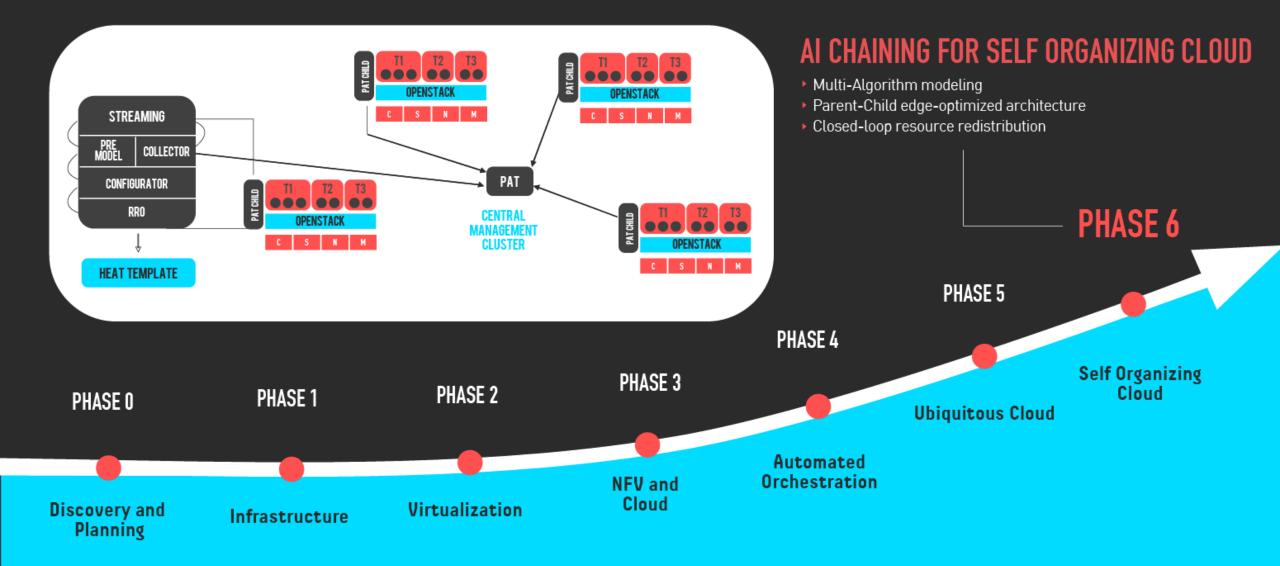
Virtualization

PHASE 2

Cloud

PHASE 3

NFV and



End-to-end Process

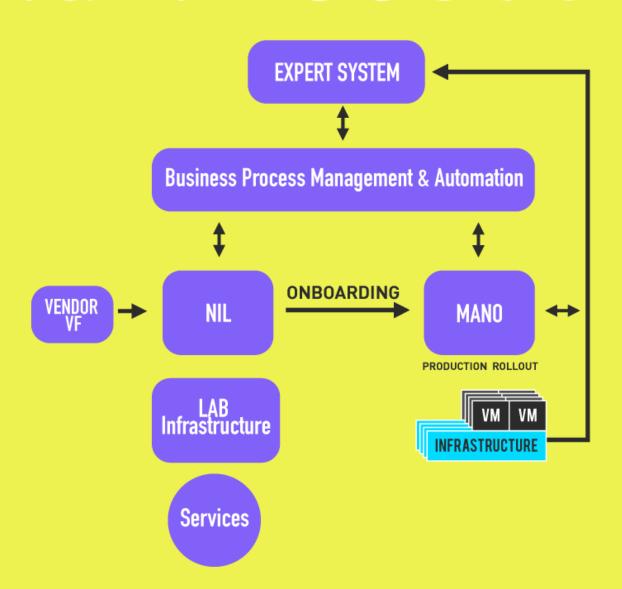
INFRASTRUCTURE ROLLOUT

LAB TESTING AND VERIFICATION

INSTALLATION AND DEVELOPMENT IN PRODUCTION ENVIRONMENT

VNF TESTING AND VALIDATION

VNF DEPLOYMENT AND MANAGEMENT IN PRODUCTION



B-YON CONTRIBUTION

Leading cross industry adoption and integration of cutting edge technologies

Deveraging open innovation at all levels

Executing on our automation vision that combines workflow and process automation

Innovating Al solutions that address the biggest upcoming challenges

Better, safer, augmented digital lives need **The Infinite Network** and **B.yond** is delivering on the promise to make it a reality

THANK YOU!



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