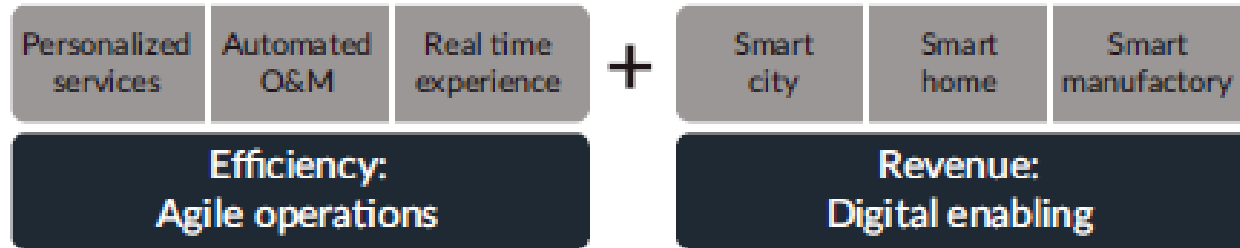




5G Ride On!

Business Continuity solution for Electric Vehicle (EV) charging infrastructure businesses

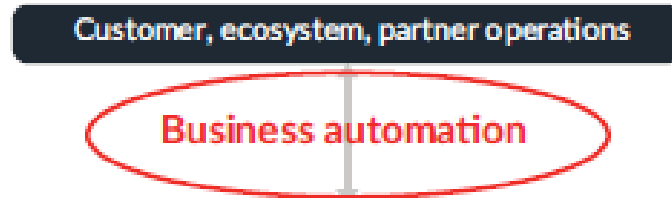




Business transformation

- ✓ On-demand business
- ✓ Ecosystem business

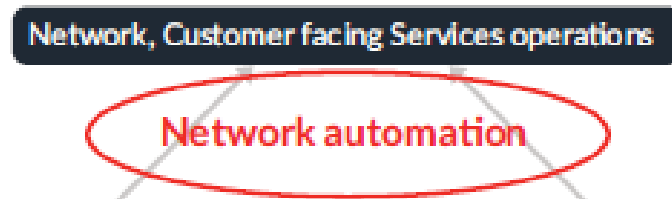
Commerce



(Business) Operations transformation

- Customer centric
- Ecosystem oriented
- Collaboration enabled

Production



(Network) Operations transformation

- Full lifecycle automation
- Data/knowledge driven & platform based
- Knowledge as a service



(Architectural) Network transformation

- Extremely simplified architecture
- Autonomous domains collaboration
- Enablement of on-demand production
- Support for collaborative production

Catalyst Objectives



Orchestrate & monetise a complex eco-system

Demonstrate how a complex eco-system of partners, systems and business processes, as found in the EV charging market, can be orchestrated and monetised by a 5G CSP using an autonomous network framework.



Offers new & enhanced assured service

CSP/DSP to offer an assured service with improved SLAs that self-heals from network outage and assures service performance. A common community and enterprise IIoT need, prime for operationalisation and monetisation.



TMF ODA and eTOM aligned solution

Use of an ODA aligned architecture, covering fulfilment, assurance and billing eTOM processes that serves eco-system customers, suppliers and curators from order to production.



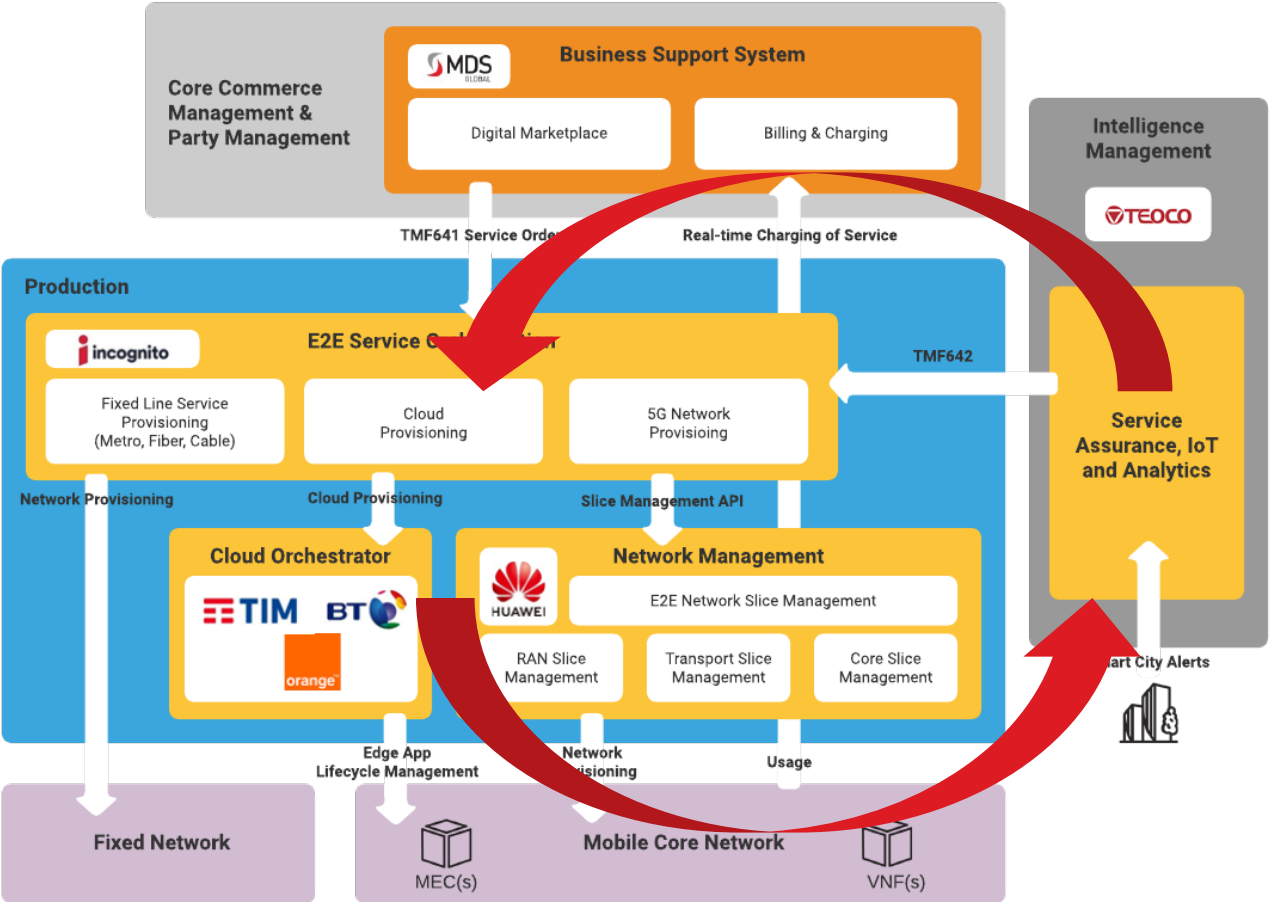
Employ new 3GPP and ETSI Features

Employment of new 3GPP & ETSI standards, including 5G network slicing, multi-access edge computing (MECs) and virtual network functions (VNFs) to achieve desired result.



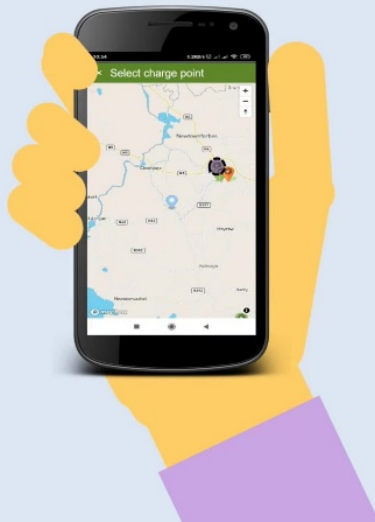
Deploy closed loop autonomous network

Create a autonomous network orchestrated through a cognitive close-looped process using TOSCA templates and VNFs that route traffic to a fail-over MEC.



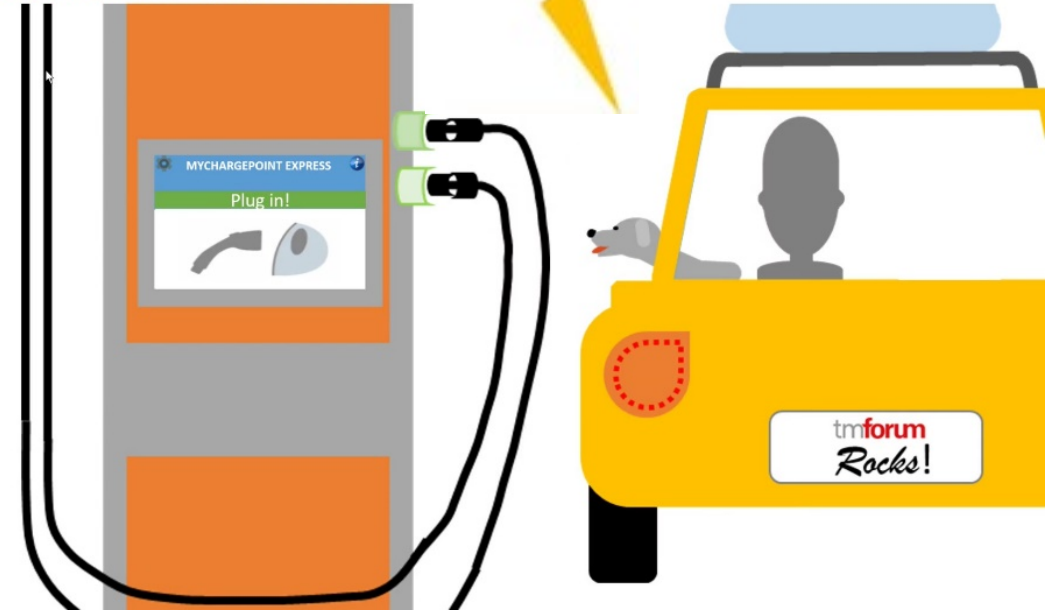
How an ODA aligned **autonomous service architecture** can support a complex eco-system as highlighted by the **EV Charging Market**

2. Research Alternatives 🔍



- Predictive Analytics of potential communication loss
- Dynamic deployment of a MEC local app using TOSCA
- MEC Forwarding/Offloading
- Using a dedicated network slice

5. Authenticate pre-payment 🔒

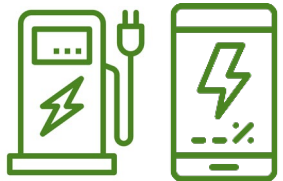


- 5G as a backup for fixed connectivity
- Dynamically creating a network slice for a backup communication between the charging stations and the charging station management system
- Adaptation to the evolution of the emergency event

5G Ride On! using AN Framework



Resilient EV Charging



Created by Ben Davis
Open Near Project

Business Continuity

Reliable Connectivity
Availability and Resiliency
EV Charging infrastructure

Solving for Business Continuity

Business Curator

Business Operations

KPIs

Situational Awareness

New Business and Operational Models

5G Ride On!
Solution Architecture

Cross Domain Operations

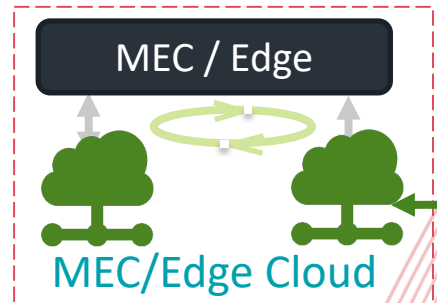
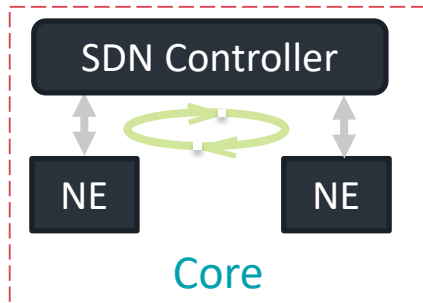
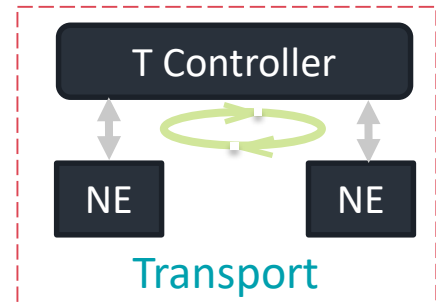
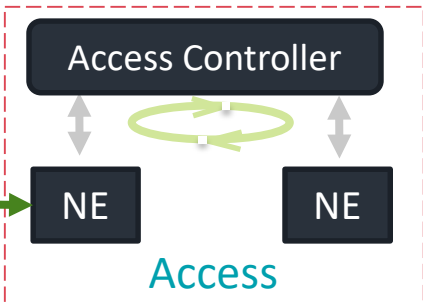
Context Awareness

Towards Autonomy & Automated Network Operations

Cognitive Loop

Autonomy KPIs

Resilient Connectivity
Across multiple Autonomous Domains

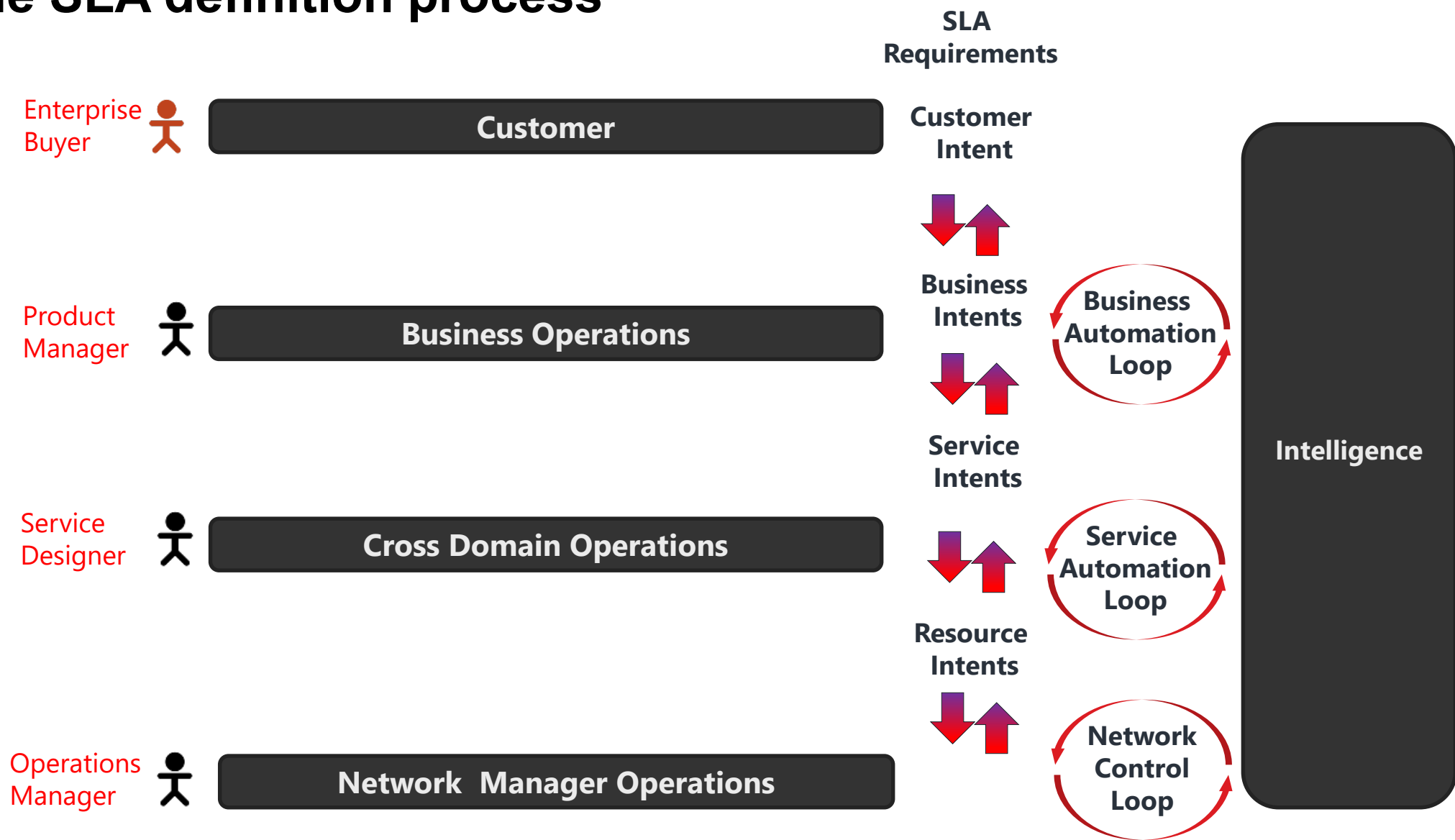


Location Based Data



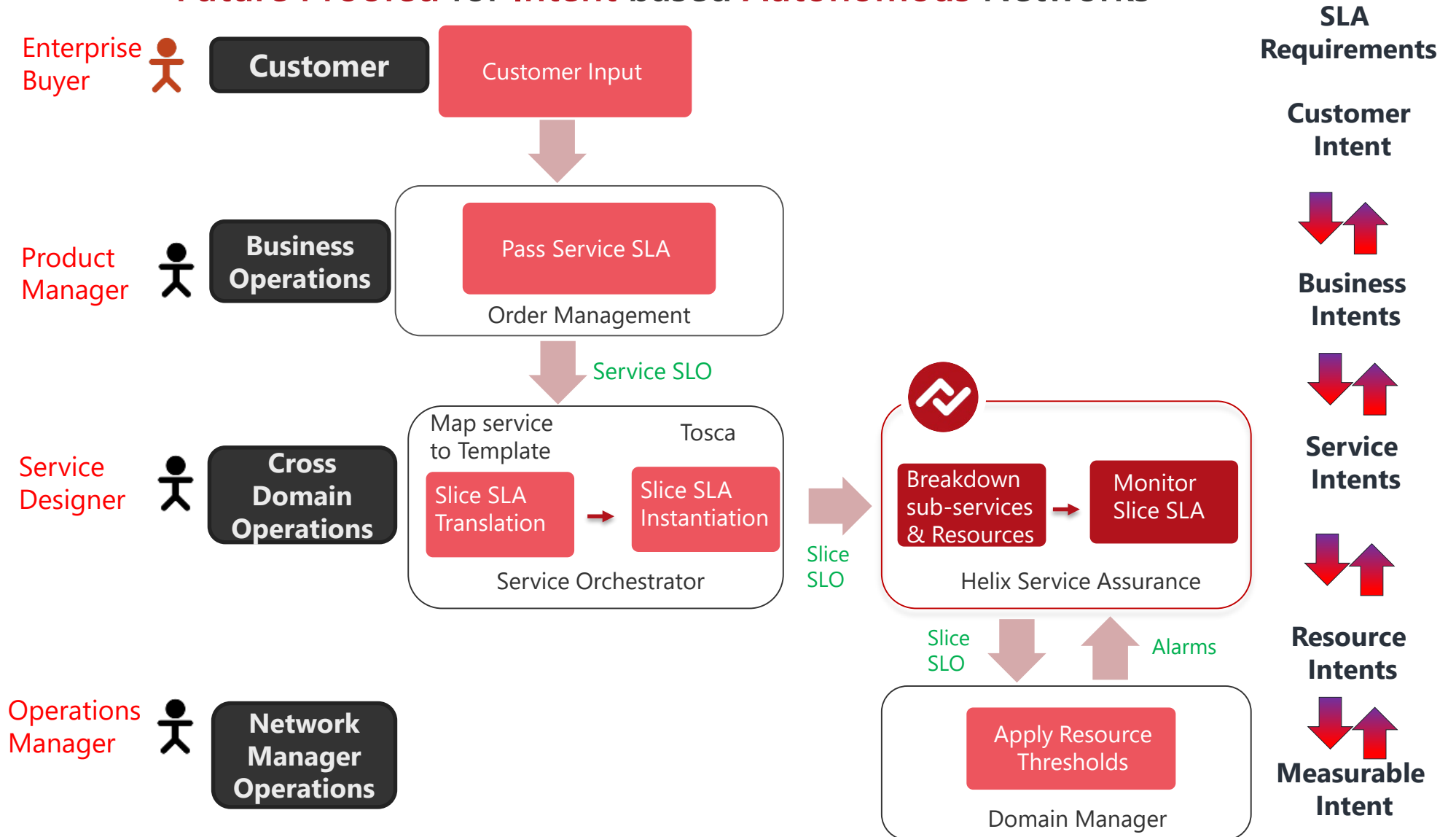
Created by Ben Davis
Open Near Project

Automating the SLA definition process

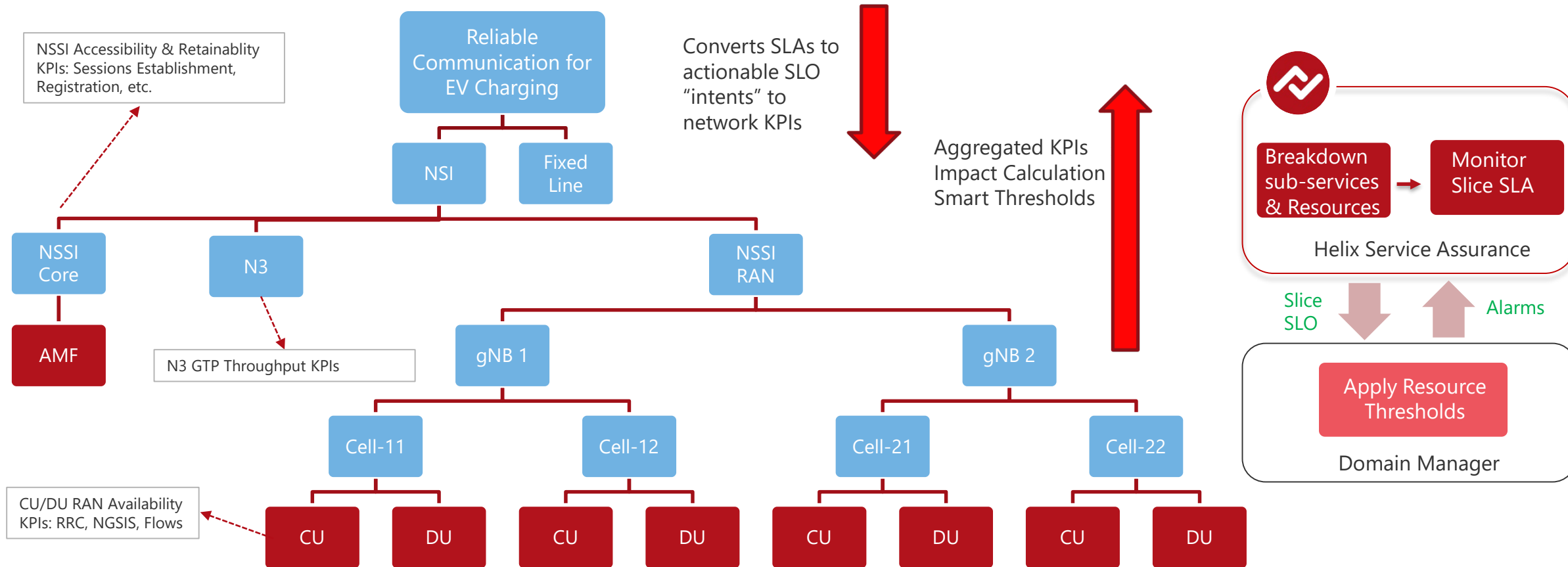


HELIX SERVICE ASSURANCE SOLUTION

Future Proofed for Intent based Autonomous Networks

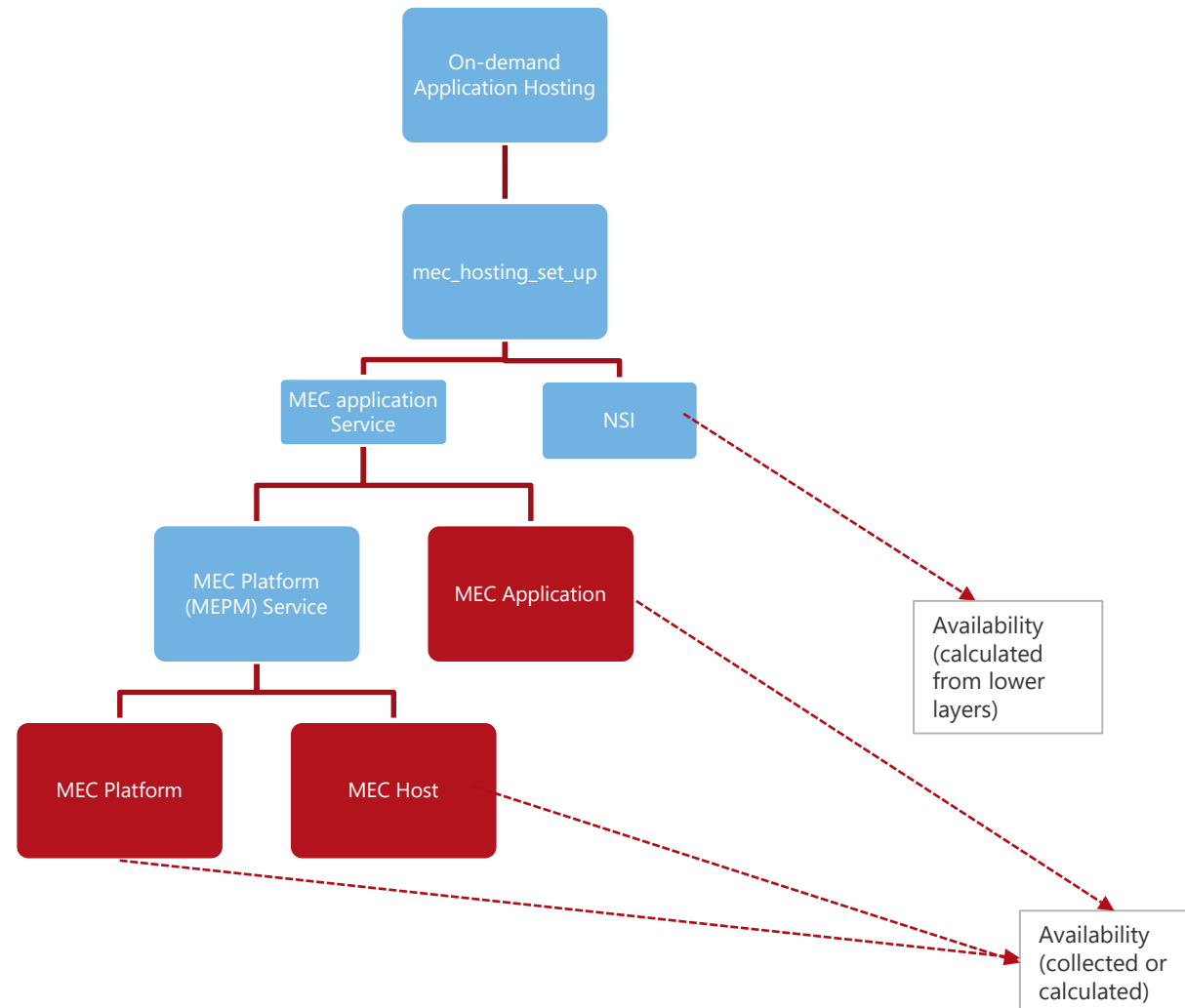


Assurance for Reliable communication for EV charging



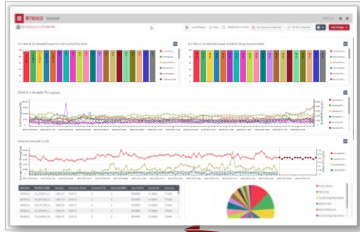
Assurance for Reliable Data for EV charging (Edge Based)

Reliability calculations are based on at least two technical domains: Mobile & Cloud hosting!

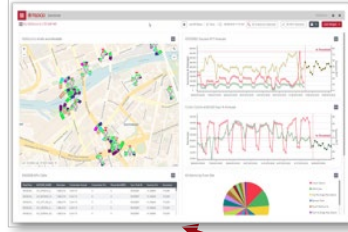


HELIX SERVICE ASSURANCE Integrated Service Assurance for Enterprise Assurance

Executive Management



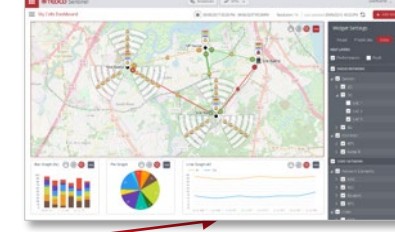
NOC/SOC



Engineering



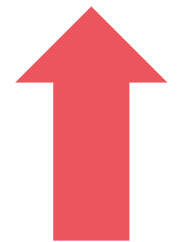
Business & Customer Care



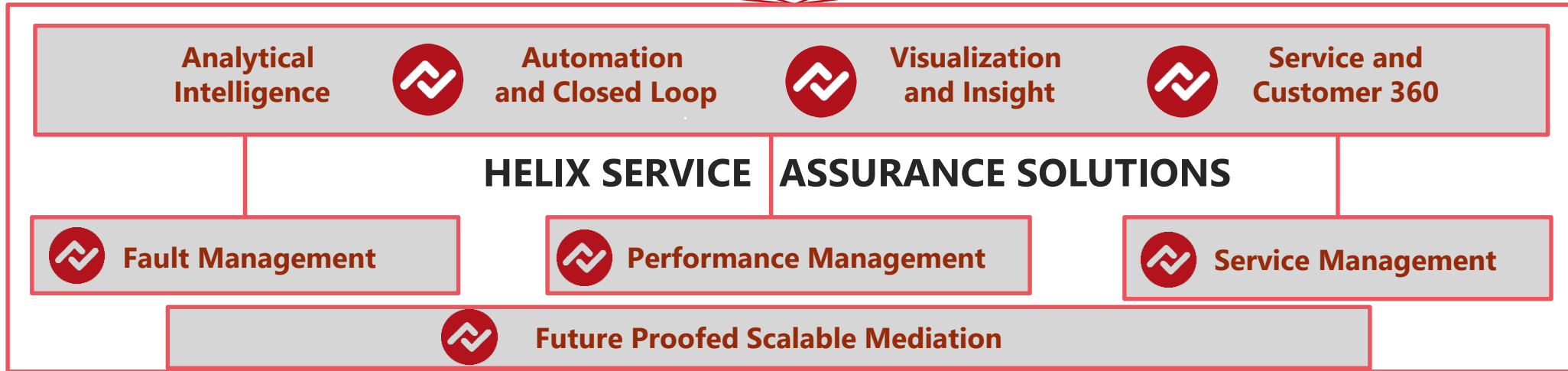
Integrates Business Processes



Integrated Service Assurance



Complex Agile Network



Multi-domain, Multi-vendor, Multi-tech Compliant





THANK YOU
www.teoco.com