

# TeraFlow

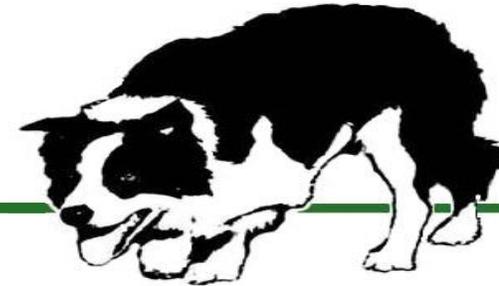
TeraFlow: Utilizing Optical Network Slicing to Connect Clouds for Autonomic 5G and Beyond Services

November 19, 2021

## Overview of the TeraFlow Project and Stakeholders

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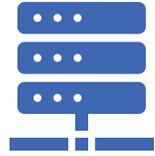
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# Motivation



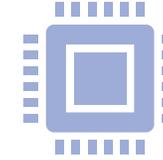
Based on micro-service architecture and use Case Driven for IP and Optical networks



Distributed smart connectivity with integrated with (edge) computing and storage resources.



Dynamically adaptation based on flows and application requirements



Novel interaction between human and digital systems (e.g., In cars, doors, mirrors, appliances, etc.)



Lack of Commercial Products for SDN



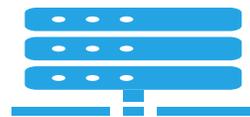
Open-Source Software with Apache License



Contributions to other OSS

## TeraFlow OS

- Open-Source Software with Apache License
- Contributions to other OSS including as ONOS or ODL are expected.
- SDOs – IETF CCAMP (optical models)



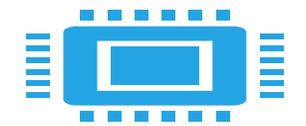
Use Case Driven for IP and Optical networks



Distributed smart connectivity with integrated with (edge) computing and storage resources.



Dynamically adaptation based on flows and application requirements



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# Applicability Scenarios



Network usage integration and optimised management of network resources.



Security and Resilience with Artificial Intelligence and Machine Learning Mechanisms.



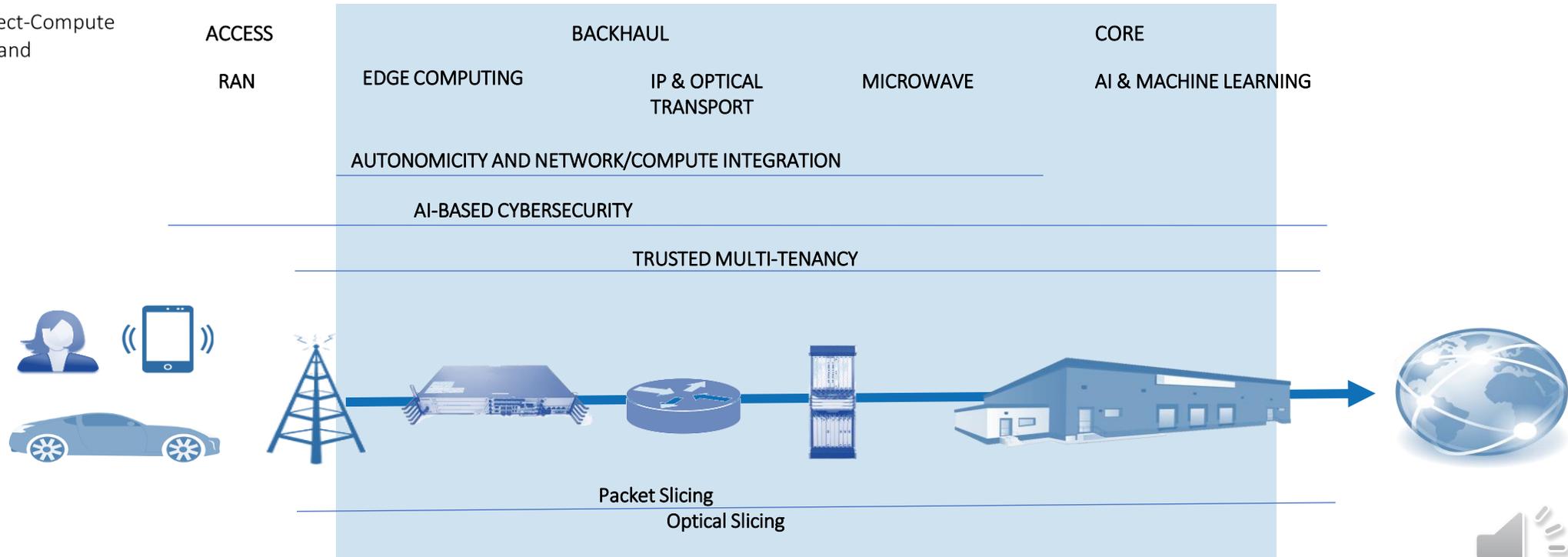
Flexible Connect-Compute Technologies and Architectures.



Transport Network Slices, Smart Traffic Interconnection, and SLA Assurance.



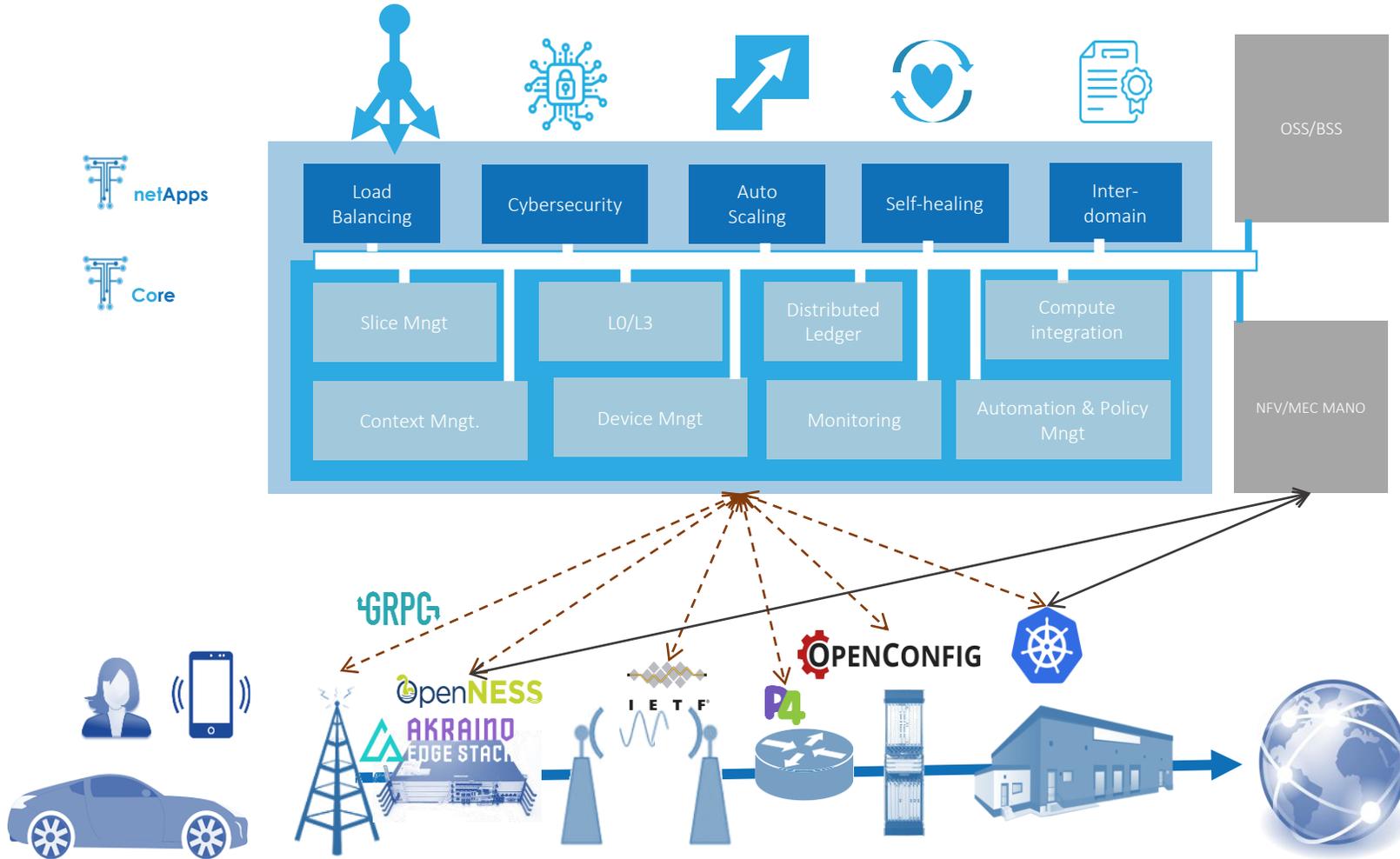
Using Distributed Ledger and Smart-contracts.



Secured autonomic traffic management for a Tera of SDN flows



# TeraFlow Architecture and Partners Overview



## Project Partners



Secured autonomic traffic management for a Tera of SDN flows

