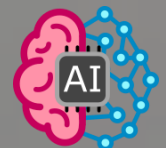


**Panel Discussion, May 19<sup>th</sup> 2021**  
*Emerging Trends in AI/ML and  
Implications for Networking Research*

Dario Rossi

[dario.rossi@huawei.com](mailto:dario.rossi@huawei.com)

Huawei, Network AI CTO  
Director, DataCom Lab, Paris Research Center



# Autonomous driving



network



AI & ML



95% of network changes  
involve manual operation



70% network faults are  
caused by manual error



Remove humans  
from the fast loop

+



Keep human in  
the slow loop



**∞** Industry segments & requirements

**High reliability**



Transportation

**Differentiated services**



Government



Healthcare



Energy



Education

**Smart O&M**



Manufacturing

**Real-time, high bandwidth**



Mining



Finance

**3** Network scenarios

Campus network

DCN

WAN

+

Security

**1** Technology solution

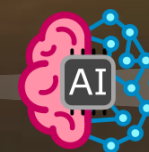
Autonomous Driving Network (ADN)

Intelligent IP

5G

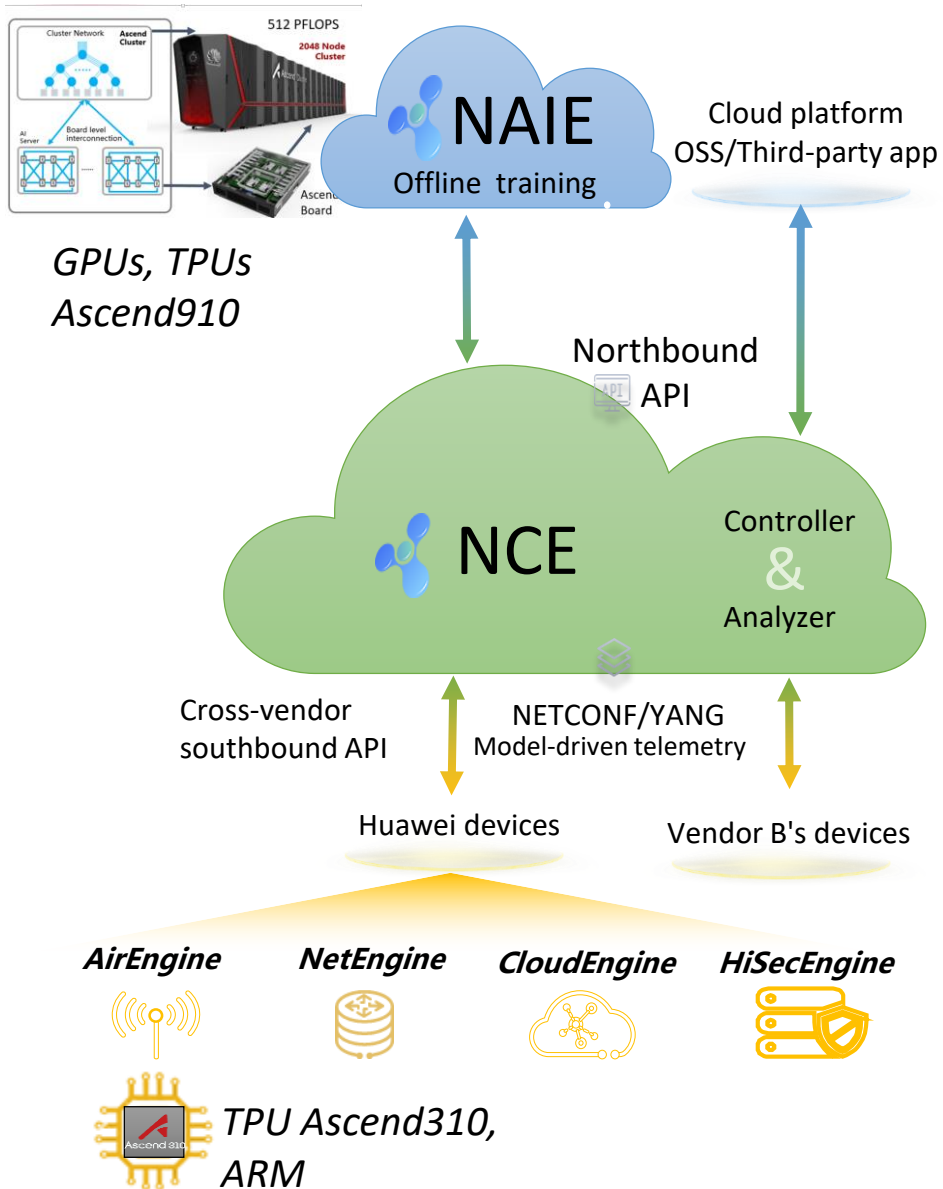
F5G Optix

WiFi 6





# Network AI in Huawei

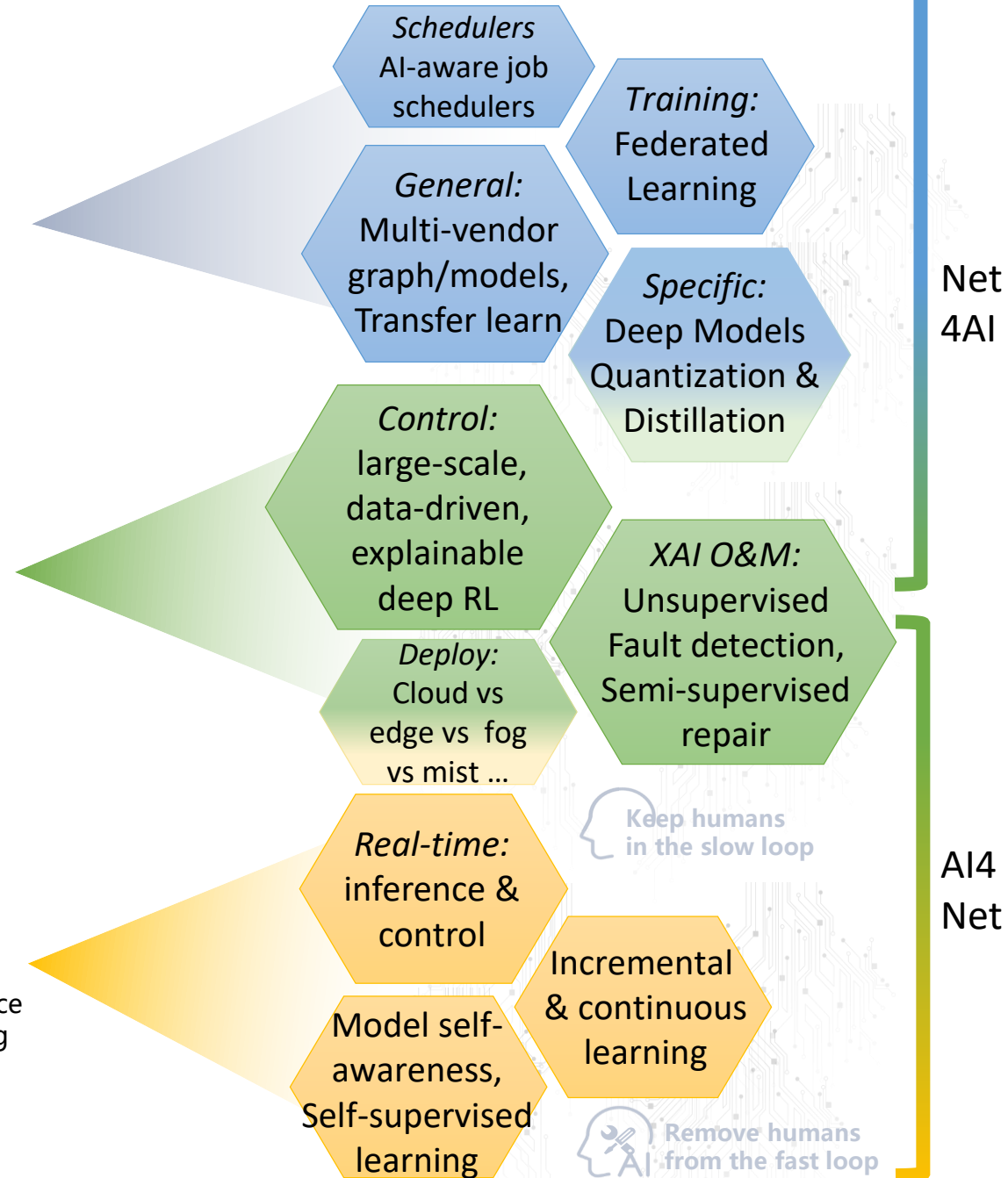


**iMaster NAIE**  
Training, data aggregation, and model generalization

**iMaster NCE**  
Network-wide analysis, inference & closed-loop optimization

**Engines**  
Measurement, edge inference & real-time decision-making

## Opportunity & challenges



# Thanks



Dario Rossi

[dario.rossi@huawei.com](mailto:dario.rossi@huawei.com)

<https://nonsns.github.io>

