

# Open RAN Evolution Driving 5G Adoption

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## Agenda

- Radisys and Open RAN
- Use case diversity and deployment options
- Role of SCF standards
- Technology enablers
- Engines powering Open RAN
- Looking forward

# Enabling Service Providers to Become Digital Experience Providers

**US-based** with global sales and operations

Leading contributor to **open standards** organizations and initiatives

## Digital Endpoints

Smart feature phone, CPEs, Smart home, IoT Sensors and Gateways, Embedded Platforms for DPI, Security, and Medical Imaging



## Open & Disaggregated Networks

Converged 4G / 5G and Fixed Broadband Access



## Rich Applications

Real time Communication and Digital Engagement, Fixed and Wireless Core



## Network Services

End to End Lifecycle – Consulting, Planning & Designing, Deployment, Integration, Optimization



**Enable**

**Integrate**

**Manage**

**Headquarters:** Hillsboro, OR United States

**Founded:** 1987

**Wholly owned subsidiary of**  
Jio Platforms Limited (JPL)



# DNA of Open Telecom Solutions

## Telecom Infra Project

- LTE eNB RAN system integrator in TIP
- Projects at Menlo Park, SKT, TIM (Italy)
- 5G Open RAN community lab contribution



## Small Cell Forum

- Leader of 5G nFAPI standardization
- Awarded for Open RAN contributions – 2020, 2021



## O-RAN Alliance

- Co-chair of O-RAN WG8 since 2019
- Key contributions to WG3: E2SM and E2AP
- TIFG test specification contributions
- Project lead of Open source 5G DU



## Open Networking Foundation

- Open-source EPC contribution to M-CORD
- Multiple CORD based projects with Tier-1 operators
- Founder member of SD-RAN: Integration with ONF near RT RIC



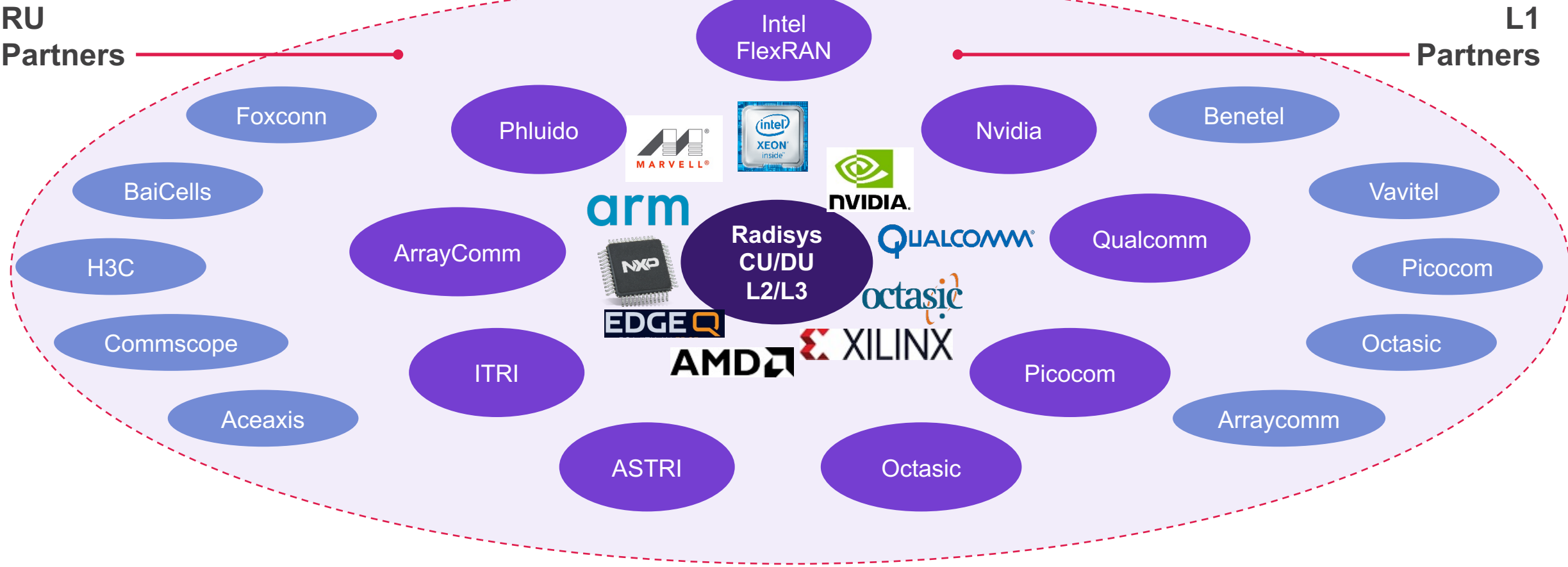
## Additional Key Organizations



Open Platforms | Open Architectures | Open Source | Open Integration

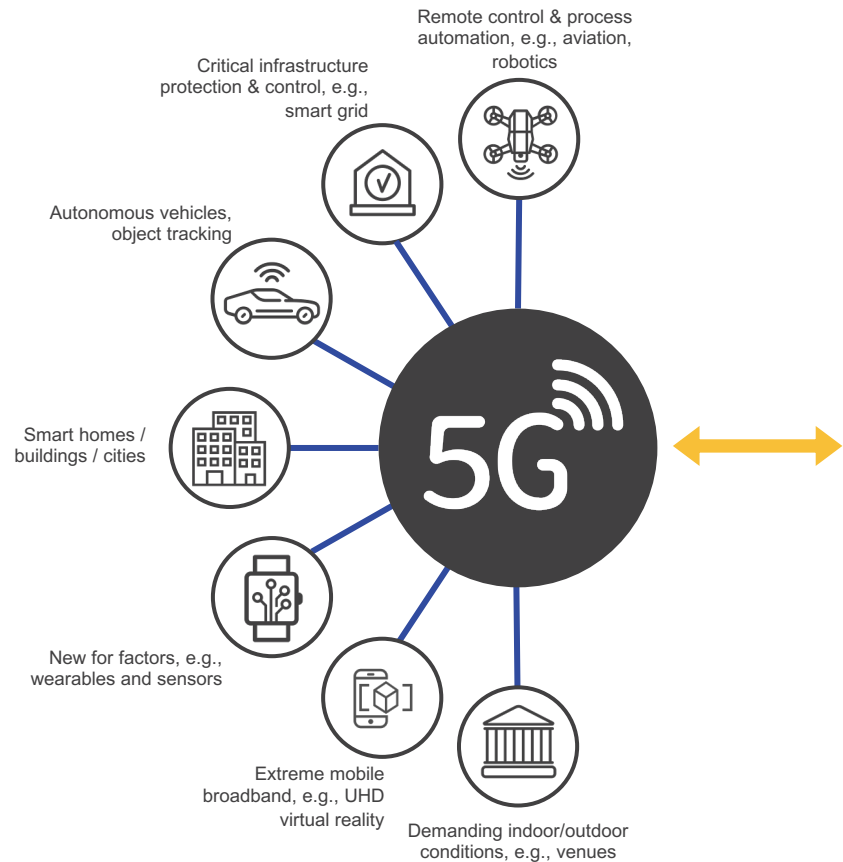
# Widest Ecosystem Partnership

## Global ODM partnerships

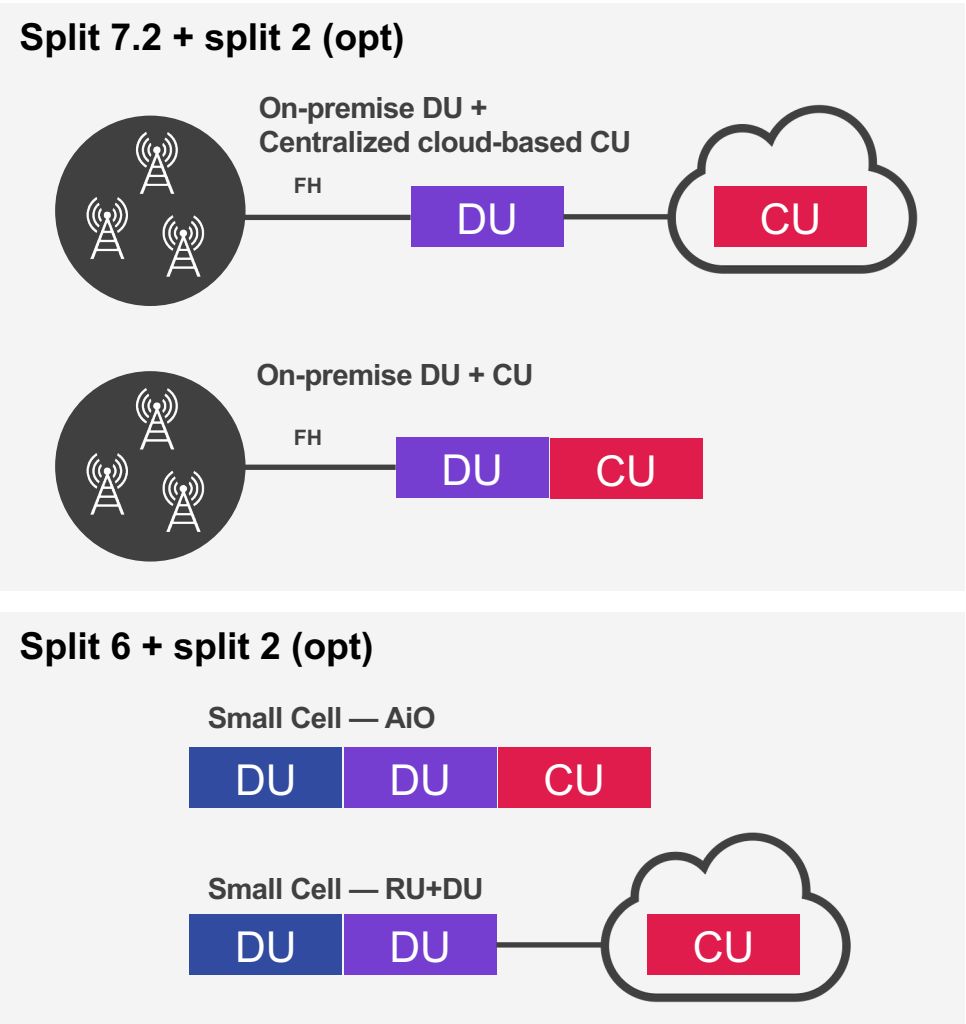


# Open RAN for many use cases

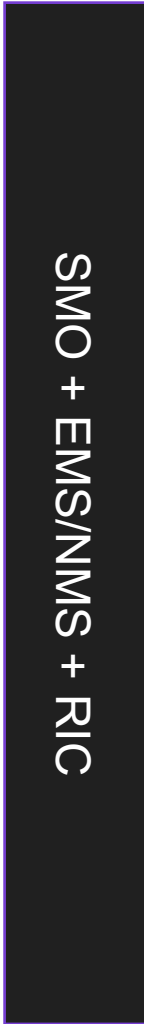
## Devices and Use cases



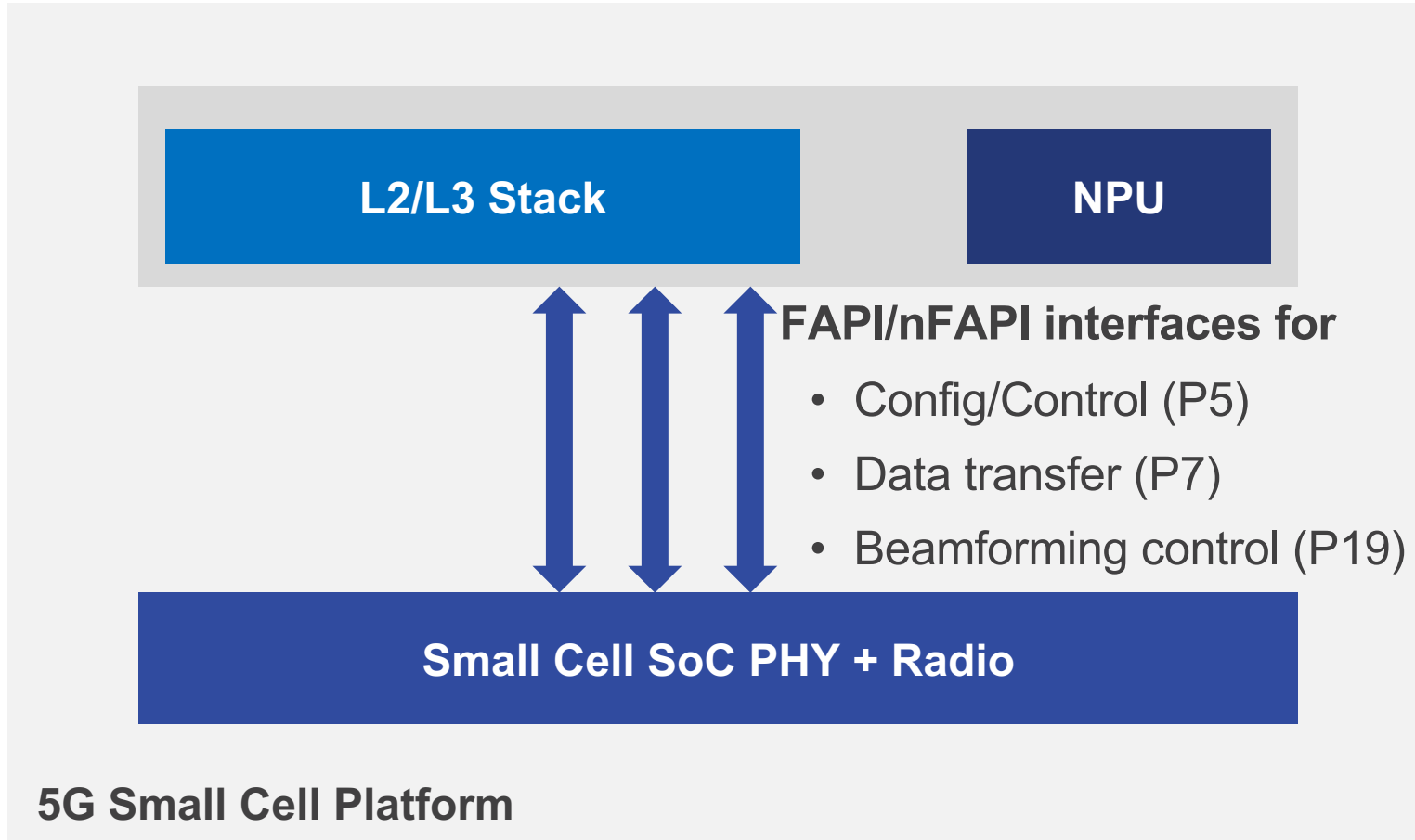
## Base Station and RU



## Management – Automation – Programmability

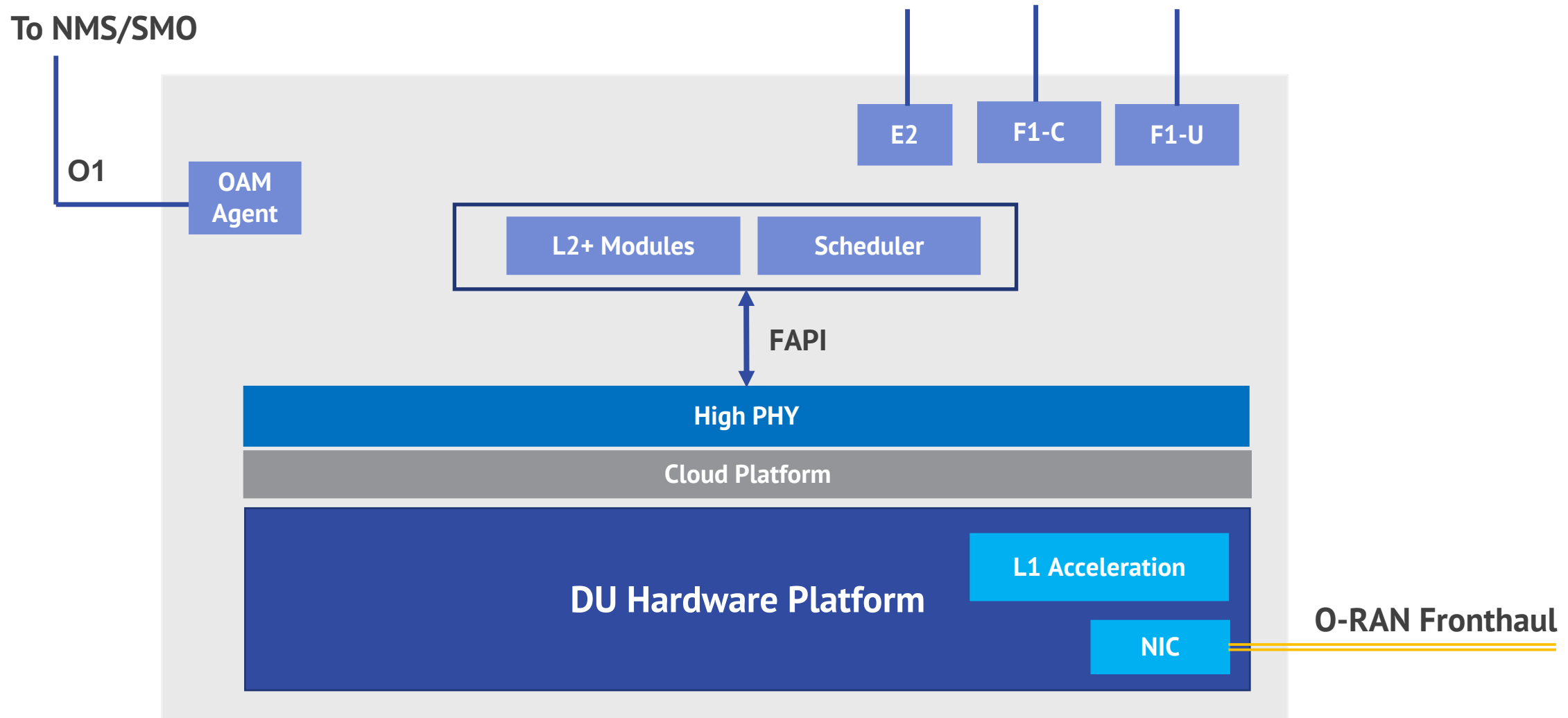


# (n)FAPI enabling multiple product options for Open RAN deployment



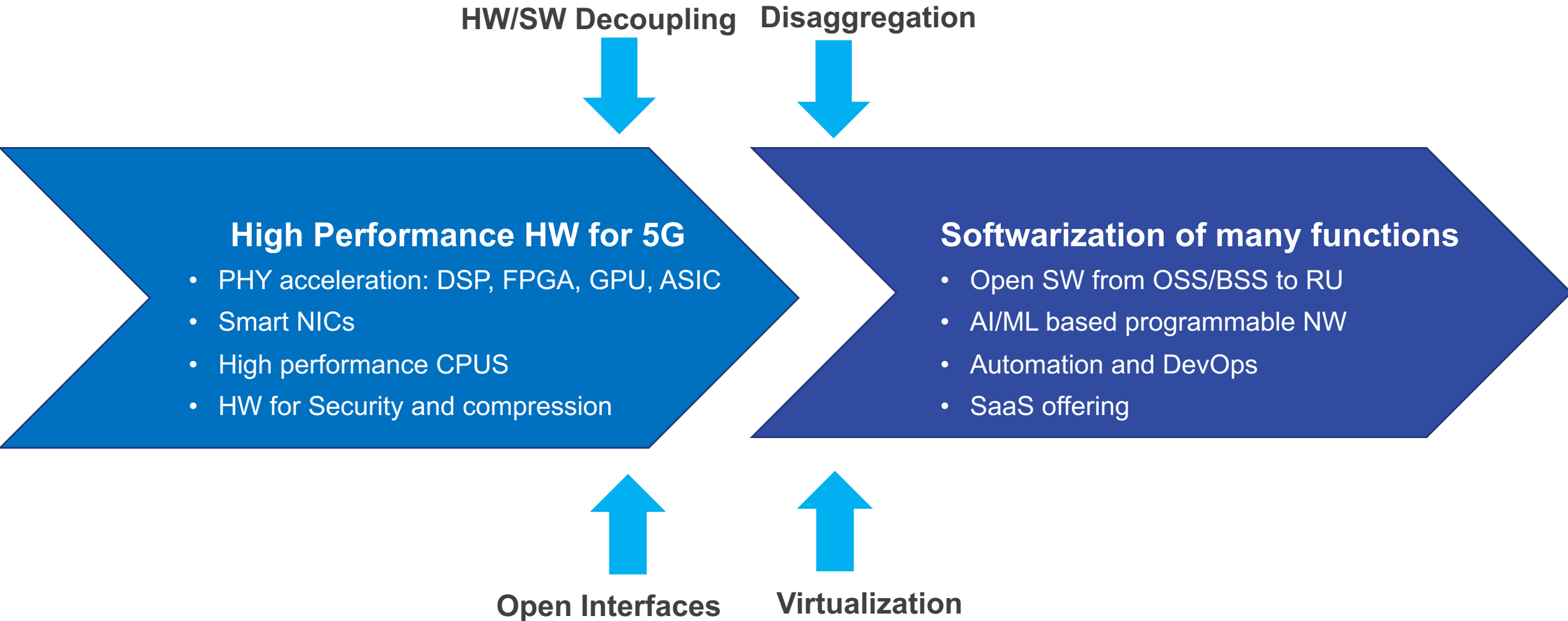
Product Variants: Integrated gNB, Option 2 S-CU/S-DU, Option 6 S-DU/S-RU

# O-RAN DU architecture with FAPI interface



FAPI enabled integration with different PHY in O-RAN DU (PNF/VNF)





# The many engines powering Open RAN

## **SDOs and Industry Forums**

- O-RAN standards enabling multiple use cases
- SCF addressing deployment by telcos, enterprises and others
- TIP working groups and badges
- ONF SD-RAN initiative
- Open RAN Policy Coalition for broad govt support

## **Industry Collaboration**

- Multiple OTIC labs across geos
- Regional consortia of Telcos
- Vendor coalitions
- Open source projects

## **Govt Policy Incentives**

- Vendor diversity
- Supply chain security
- Govt funded projects

## Looking forward

- Great momentum for Open RAN in public and private networks
- Small cells for densification in public networks and private 5G deployments
- A virtuous cycle of standardization, ecosystem partnerships and interops
- Significant HW and SW advances to ensure high performance and low latency
- RAN evolution ensuring Open, Diverse and Intelligent networks



An aerial night view of a city, likely New York City, with a network of white lines and dots overlaid on the image. The lines connect various points across the cityscape, creating a web-like pattern. The dots are small white circles, some of which are labeled with numbers. The city lights are visible in the background, and the overall color scheme is dominated by blue and white.

 Radisys  
Thank You