Leading Change **Inspiring Progress**

$\mathbb{N}\mathbb{N}\mathbb{C} = \mathbb{2025}$ 5G Innovation and Monetization. NWDAF Potential

March 2025. Telefónica Global CTIO



MWC 2025. 5G INNOVATION AND MONETIZATION. NWDAF POTENTIAL 5G has brought new perspectives for network monetization

It has been a long time since the industry did not bring so much focus on generating new revenues opportunities out of network capabilities

Tailored connectivity

Network exposure

Telco edge computing



Network slicing allowing tailored connectivity per use cases customer based. Technically possible thanks to Or technologies such as radio resource partitioning and E2E orchestration. Further enhanced by supporting protocols such as L4S



Open Gateway leveraging exposure of network APIs to developers, aggregators, B2B customers to enhance their digital services based on network capabilities

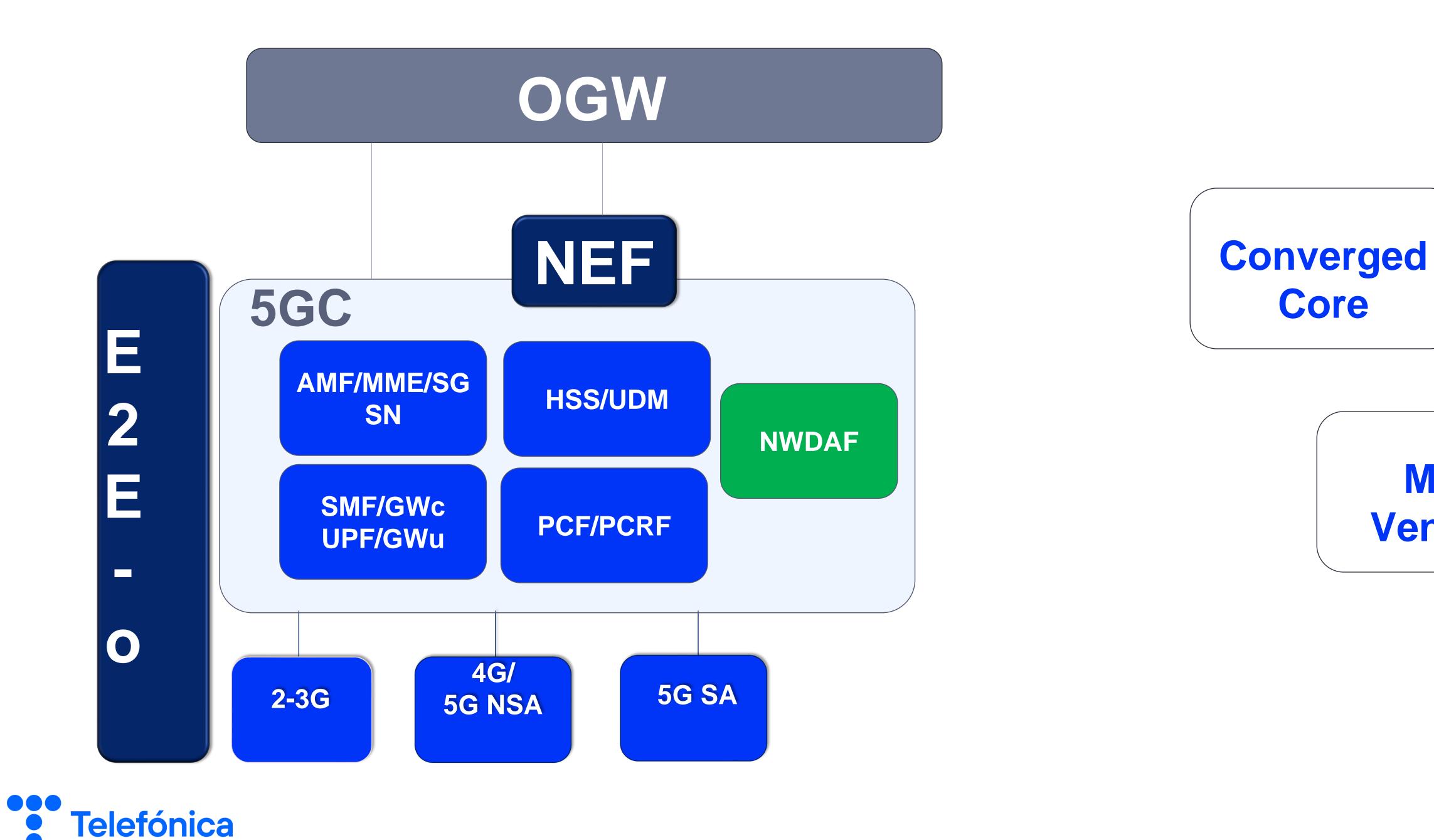
Edge platform tightening network capabilities and edge computing to create differential values against traditional Data Centre distribution. Offering our customers data sovereignty and low latency.

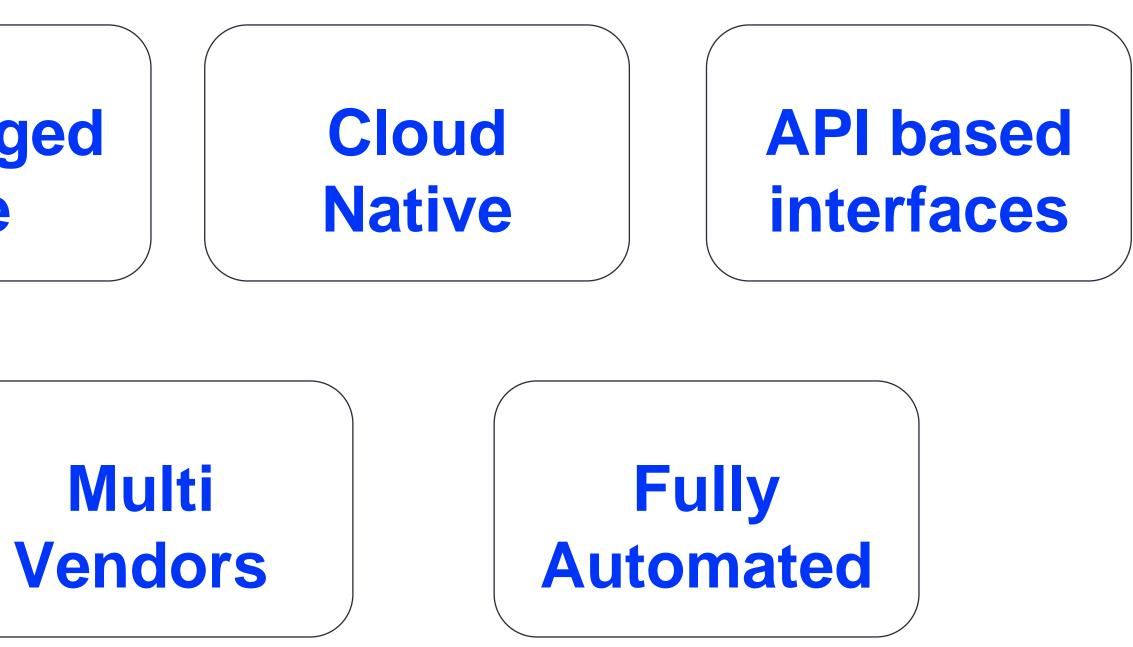




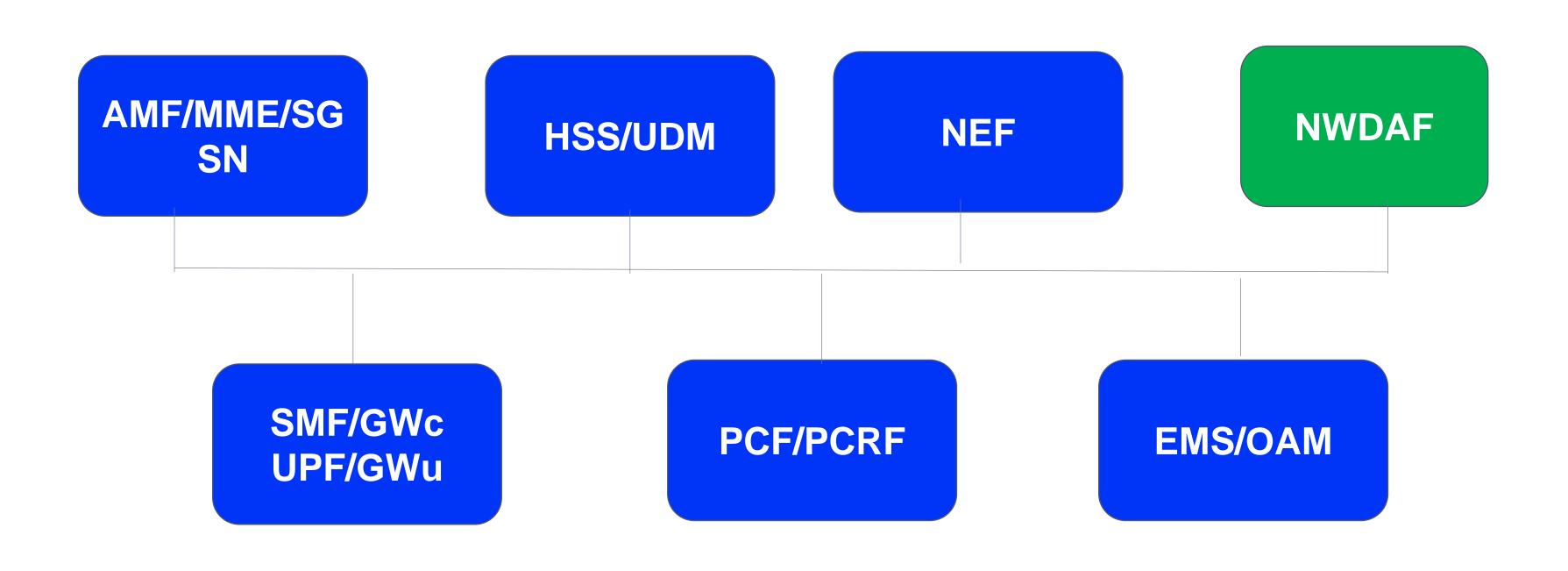
MWC 2025. 5G INNOVATION AND MONETIZATION. NWDAF POTENTIAL This is sustained by a deep architectural transformation

Service Based Architecture deployed together with our 5G SA access is fostering these monetization pillars





MWC 2025. 5G INNOVATION AND MONETIZATION. NWDAF POTENTIAL The NWDAF will further enhance our capabilities The 5G network Data Analytic Function ease data collection and prediction





Standard data collection and analytics

For the first time in our industry there is a standard capability to gather for gathering data, analyzing it, and generating analytics or predictions.

How does NWDAF work?

- Supports data collection from NFs and AFs.
- Supports data collection from OAM.
- Supports subscription of NFs and AFs to receive analytics and metadata.
- Supports analytics information provisioning to NFs and AFs.
 Supports Machine Learning (ML) model training and provisioning to NWDAFs

(containing Analytics logical function).





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and offer new commercial use cases

Customer experience

- Customer experience and churn
- Network insights
- Location based context Customer Experience Management (CEM)

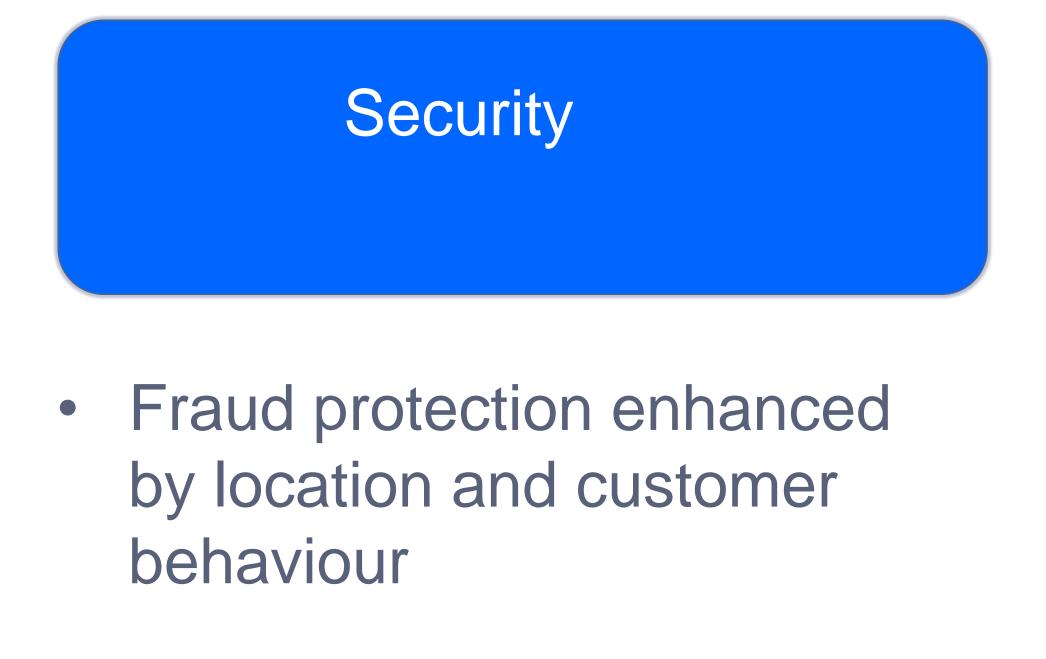




Marketing and Advertising

- Target Audience Profile
- Context aware target marketing
- Locations and context aware promotions

Priority use cases



• Mis used or hijacked UE detection



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Planing

• Enhanced capacity planing





- Predictive maintenance
- Slice monitoring
- Customer experience • monitoting
- QoS supervision

Priority use case



- Dynamic network provisioming
- Cloud automation
- Customer aware network provisioning



MWC 2025. 5G INNOVATION AND MONETIZATION. NWDAF POTENTIAL However we still facing maturity challenges **GAPs and priorities**



□ NF to provide sufficient KPIs and APIs to improve real-time service assurance and **closed-loop** automation

□ KPIs format should be clearly defined by the standard, avoiding incompatible formats from different suppliers, simplifying processing by higher layers

Suppliers Roadmap Gaps

U Lack of roadmap alignment in APIs exposure in the industry represents an issue in Multi-Vendor environment with **delays in Time-to-Market**

Consensus between operators is key to align use cases with APIs availability in OpenGW, NEF and NWDAF related projects, **improving the influence in vendor's roadmap**





2025. 5G INNOVATION AND MONETIZATION. NWDAF POTENTIAL **Conclusion and key take away**

5G has been designed to enhance network monetization

NWDAF will provide new monetization opportunities through Data Analytics





But will also improve our network operation

We need our industry to priorities its development against proprietary solution

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