

Corporate 5G Architecture and Key Principles Training Course

Drive Team Excellence with 5G Architecture and Key Principles Corporate Training



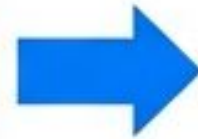
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The Paradigm Shift in Digital Transactions

Legacy Connectivity

Organizations rely on 4G/LTE networks with limited bandwidth, high latency, and no support for massive device connectivity at scale.



5G Architecture

The shift to 5G introduces ultra-low latency, network slicing, and service-based architecture enabling real-time and mission-critical applications.



Connected Enterprise

Organizations achieve full-scale IoT integration, edge-enabled automation, and industry 4.0 transformation powered by secure, high-performance 5G networks.

The Execution Framework



16 to 24 Hours
Course Duration



Instructor-Led
Group Training



Virtual, On-site, or
Off-site Delivery



10,000+
Trainers Globally



Course Completion
Certificate

The Capability Activation Curve

✓ Understand 5G architecture – sub-systems, deployment models, and virtualization with NFV and SDN.

✓ Master the Radio Access Network – MIMO, beamforming, spectrum, and NR radio interface vs LTE.

✓ Apply data flow, mobility management, and end-to-end 5G security protocols including 5G AKA.

✓ Design and manage network slices and 5G core services using service-based architecture and APIs.

✓ **Output Mastery:** Design, deploy, and optimize advanced 5G networks that drive innovation, seamless connectivity, and strategic business outcomes.

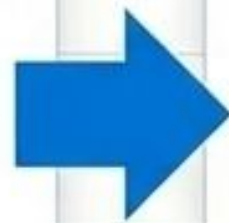
Prerequisite: Basic understanding of telecommunications and networking concepts.

The Integration Engine

Phase 1 (Modules 1 and 2)

Foundational Architecture and Radio Access

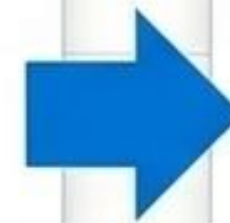
Understanding the origins, architecture, deployment models, and radio access layer of 5G – covering everything from network sub-systems and virtualization to MIMO, beamforming, spectrum, and the NR radio interface.



Phase 2 (Modules 3, 4, and 5)

Data Management, Security, and Network Slicing

Hands-on applied knowledge of 5G data flows, mobility management, end-to-end security protocols, and the creation and management of network slices for industry-specific use cases.

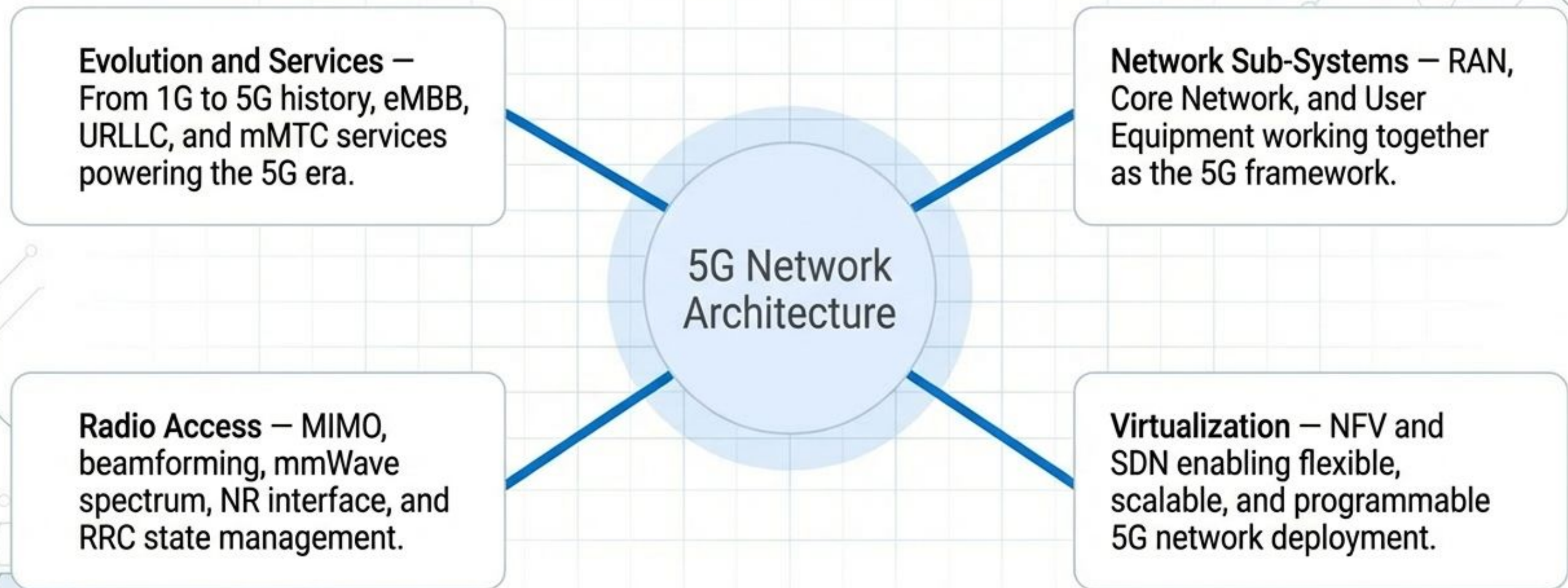


Phase 3 (Modules 6, 7, and 8)

Core Network, Integration, and Future Trends

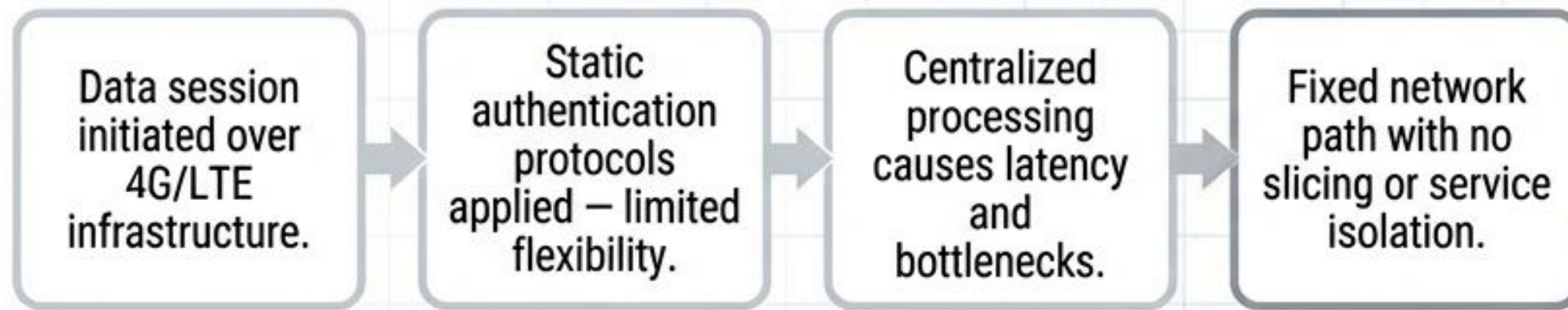
Enterprise-grade exploration of the 5G core service-based architecture, API-driven service integration with legacy networks, and emerging applications including AR/VR, edge computing, smart cities, and industry 4.0.

Phase 1: Foundational Architecture and Radio Access

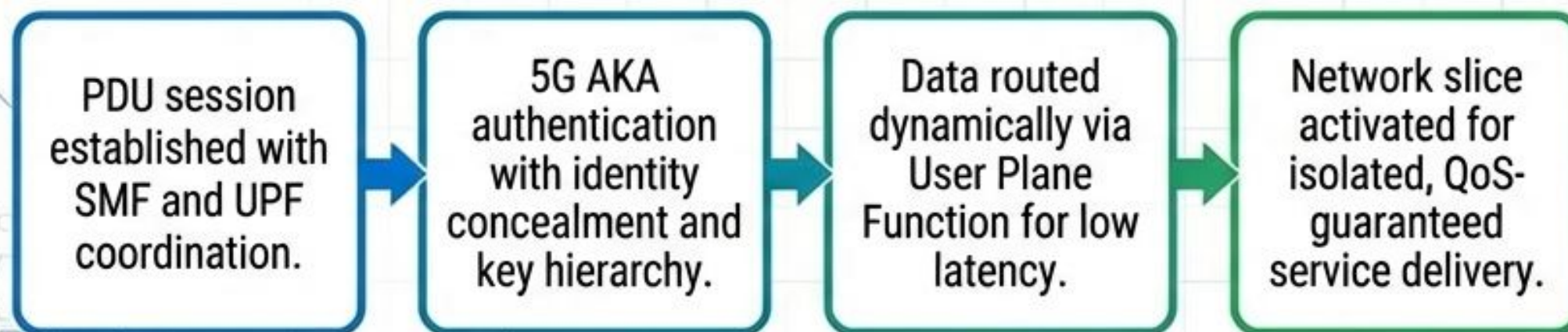


Phase 2: Data Management, Security, and Network Slicing

Legacy Data and Security Approach



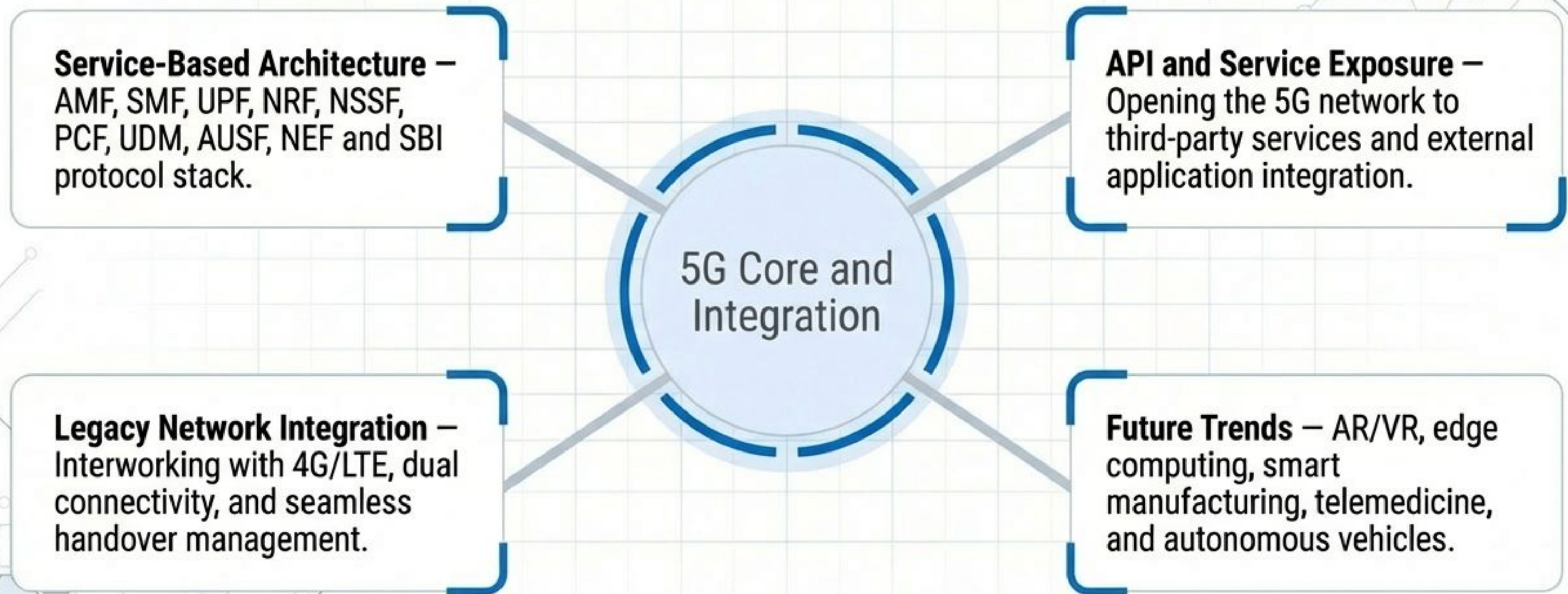
5G-Enabled Approach



Course Capabilities:

- **Session Management:** SMF controls UPF for dynamic PDU session setup and data routing.
- **5G Security:** Authentication and key agreement, Diffie-Hellman encryption, NAS procedures.
- **Network Slicing:** Slice types, lifecycle management, resource allocation, and QoS control.
- **Industry Use Cases:** Healthcare, industrial automation, smart cities, and IoT deployments.

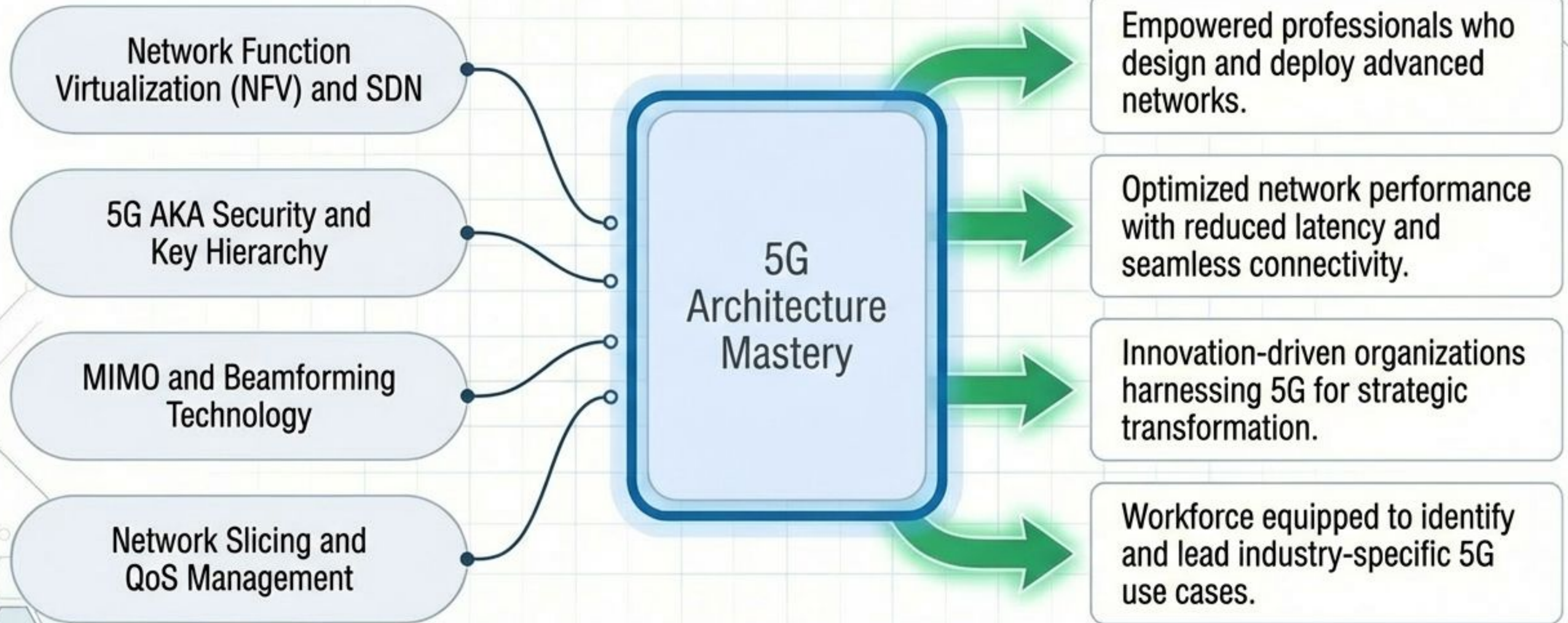
Phase 3: Core Network, Integration, and Future Trends



The Connectivity Evaluation Matrix

	4G / LTE Networks	5G Non-Standalone (NSA)	5G Standalone (SA) with Network Slicing
Latency and Reliability	Higher latency, limited URLLC.	Reduced latency with 4G anchor.	Ultra-low latency with full URLLC and mMTC support.
Architecture Flexibility	Fixed monolithic core.	Partial NR with LTE core.	Full service-based architecture with NFV and SDN.
Use Case Support	Mobile broadband and voice.	Enhanced broadband and early IoT.	Full IoT, edge computing, AR/VR, and mission-critical communications.

The Value Creation Funnel



Target Audience Alignment

Strategy,
Management, and Integration:
IT Consultants, Business Analysts,
Technical Sales Professionals, Managers.

Systems, Architecture,
and Engineering: Network
Architects, System Engineers,
Network Planners, Solutions Architects.

Core Technical
Practitioners: Telecom
Engineers, R&D
Engineers, Field Engineers,
Workers.

The Deployment Ecosystem



Virtual Live Instructor-Led

- Global reach without travel constraints
- Consistent training quality across regions
- Scalable for large, distributed enterprise groups



On-site Face-to-Face

- Tailored to specific workplace environments
- Drives team collaboration and knowledge sharing
- Direct interaction for deep technical clarification



Off-site Face-to-Face

- Distraction-free, highly focused environment
- Dedicated scheduling improves learning retention
- Boosts morale and signals investment in talent

Proof of Impact

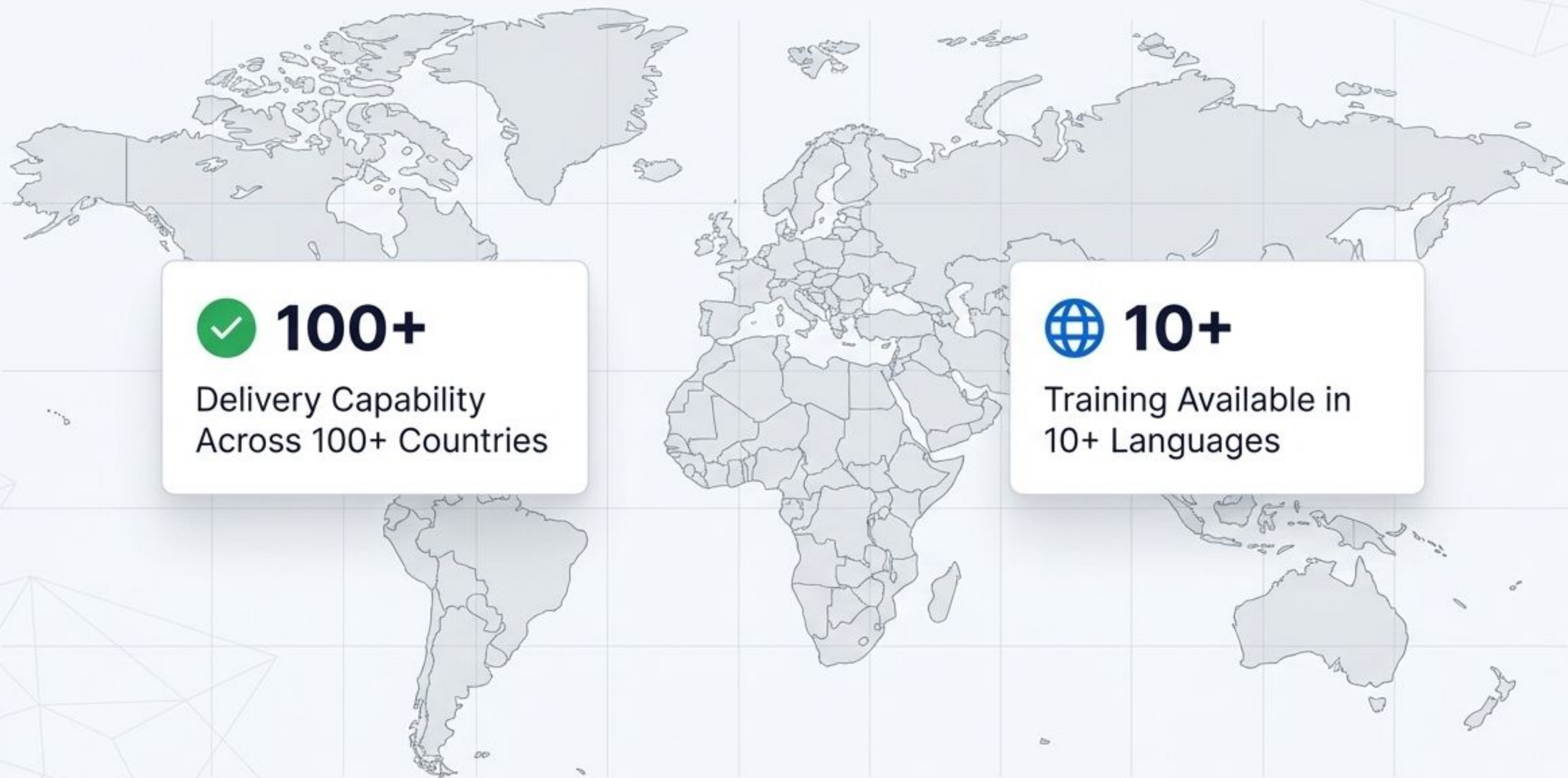
"The 5G Architecture and Key Principles training exceeded my expectations in every way. As a Senior Software Engineer, I gained comprehensive knowledge of strategic frameworks that transformed my approach to incredibly practical and immediately applicable. I've been able to drive meaningful innovation and improvement within my department. The instructor's expertise in practical simulations made complex concepts crystal clear and actionable."

Garland Cunningham

Senior Software Engineer

Global Technology Solutions Provider

The Global Delivery Infrastructure



100+

Delivery Capability
Across 100+ Countries



10+

Training Available in
10+ Languages

Deploy Your 5G Network Advantage

Course Completion Certificate



Equip your teams to design, deploy, and optimize advanced 5G networks that drive **innovation, seamless connectivity**, and real-time business transformation.

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