

FINTECH ADVANCEMENTS WITH 5G

**5G USE CASES FOR FINTECH
PERSPECTIVES FROM INDIA**

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Modern Network infrastructure

- 5G and beyond
- Edge clouds for localized intelligence - third party services for AR/VR applications
- SDNs for backhaul - to the critical data center infrastructure

5G network slices – separating financial transactional flows from other network flows

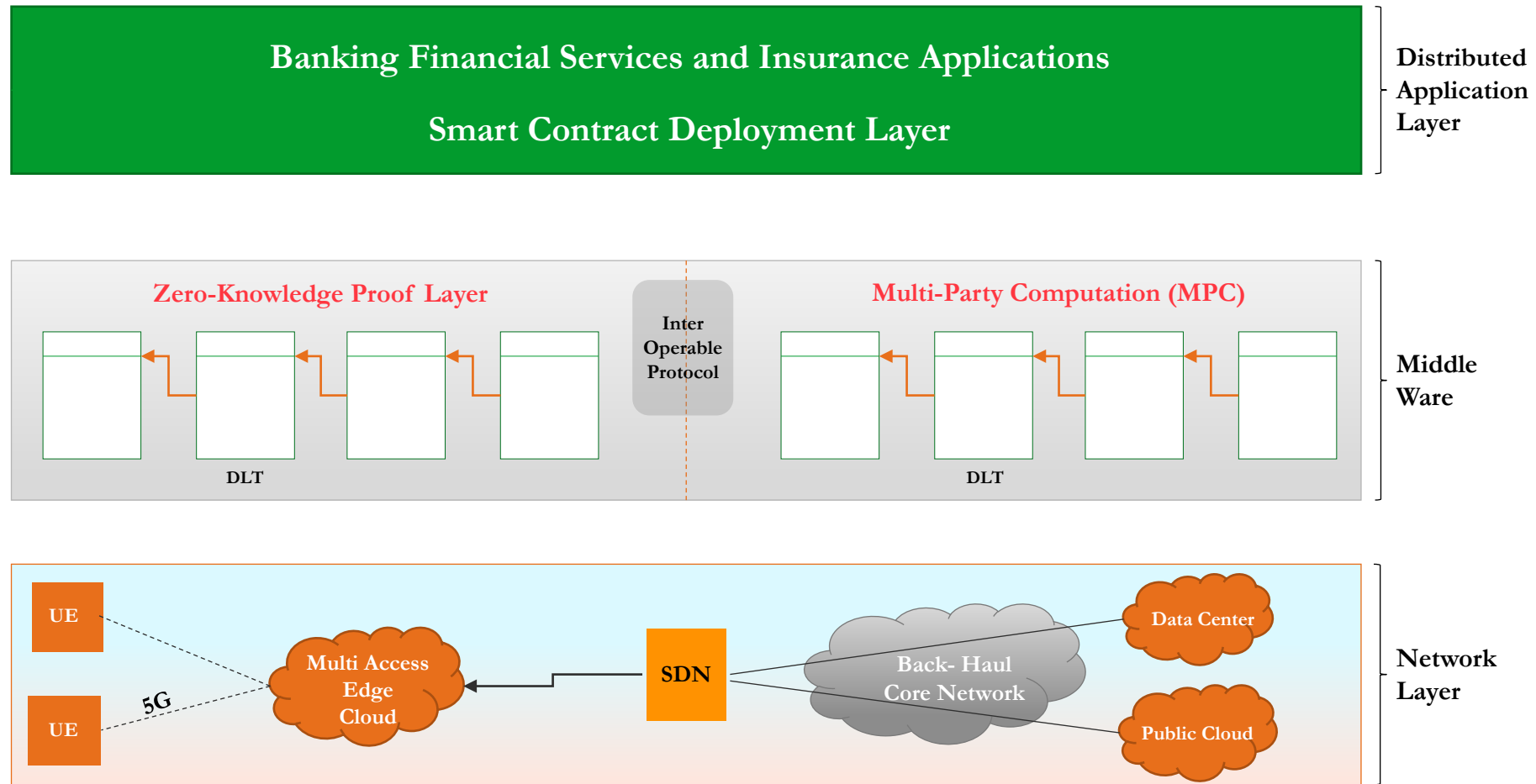
Micro-service Orchestration frameworks + Security

- intelligent deployment of services across edge clouds and backend datacenters / public clouds
- controlled entry points for external traffic into the private financial network flows for rapid isolation and securing the infrastructure

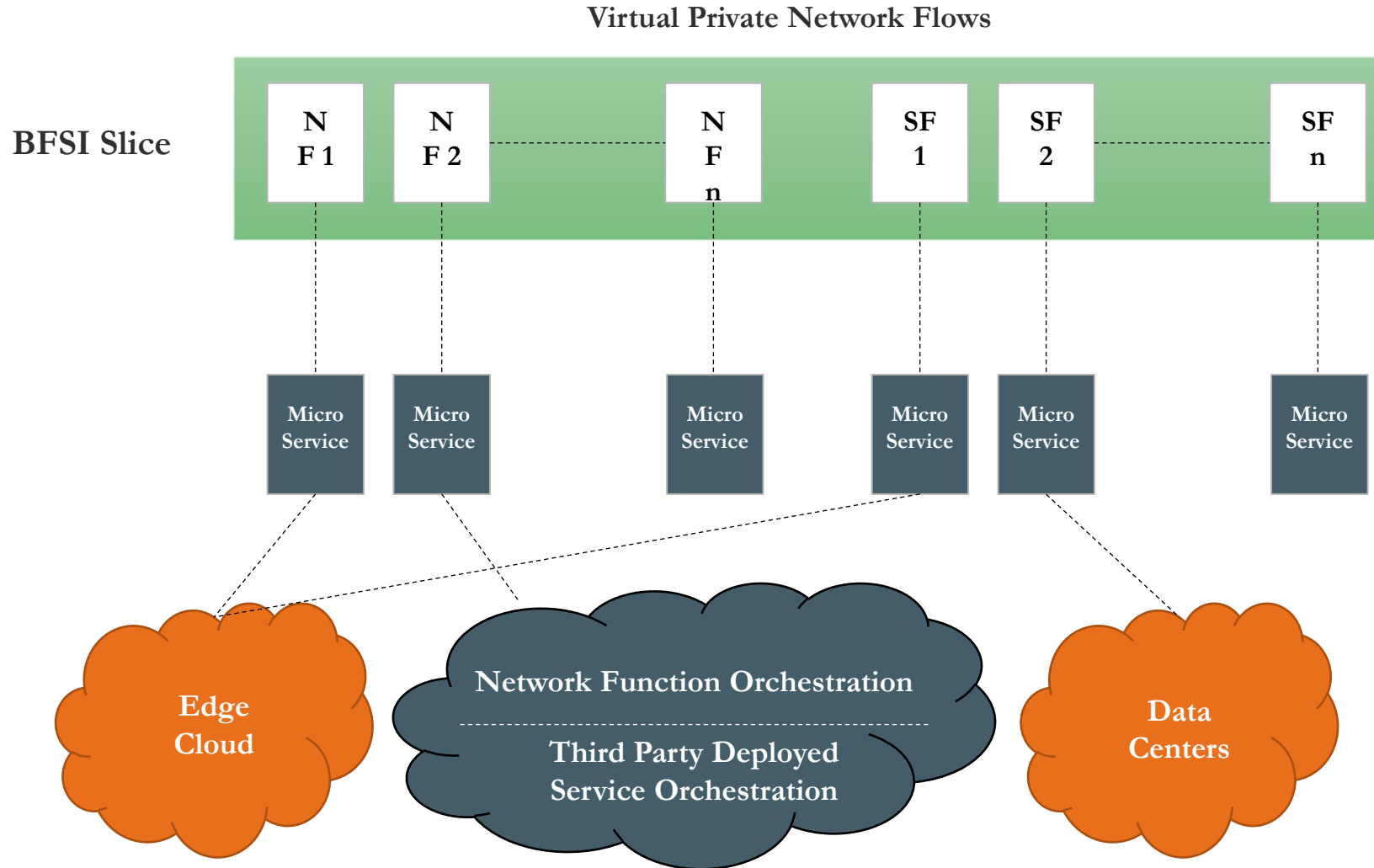
Blockchain for multi-stake-holder security

- E.g. the 5G service authentication and authorization

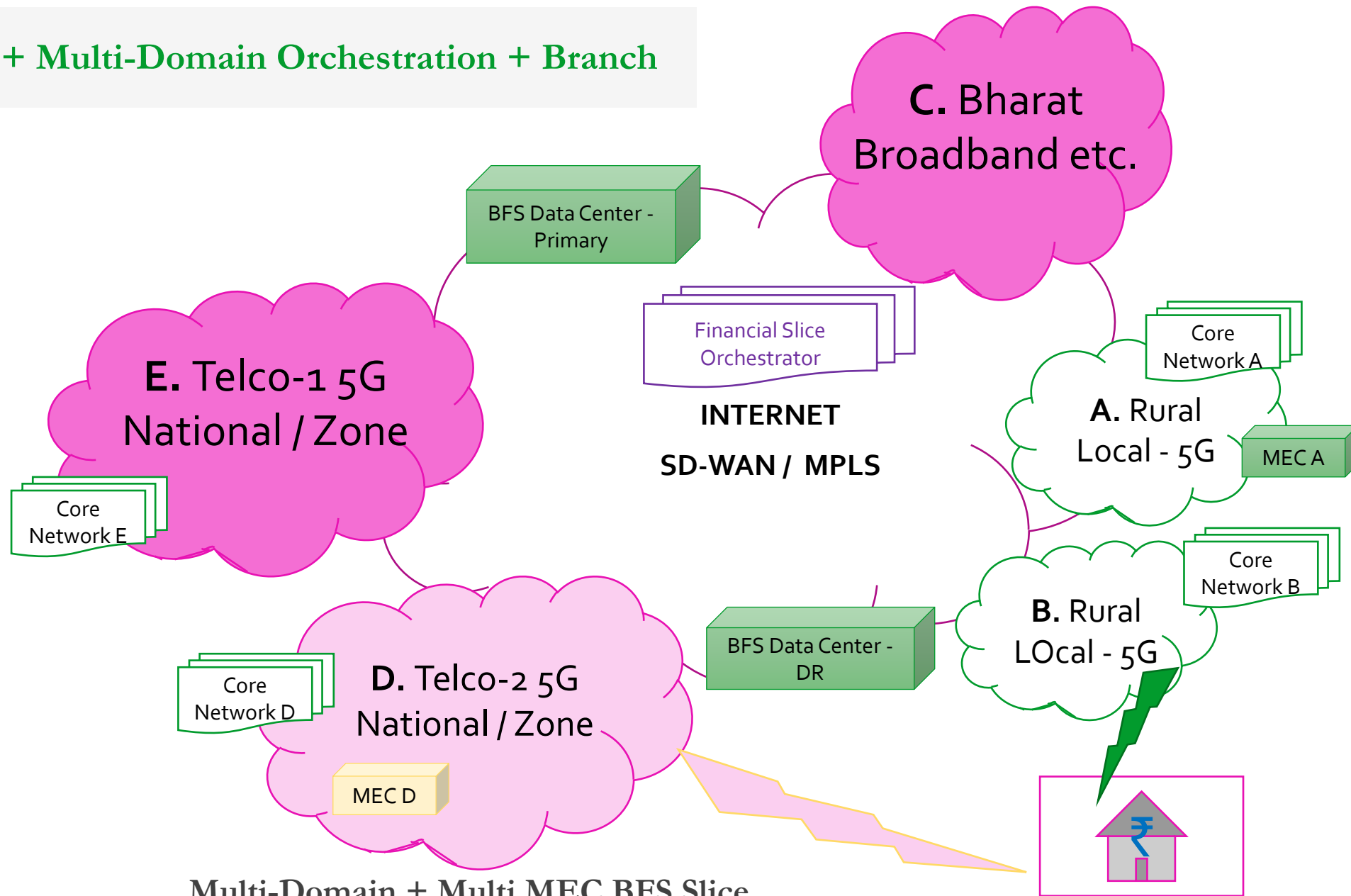
5G + DLT – possible architecture



Network Slice in 5G and Beyond Networks

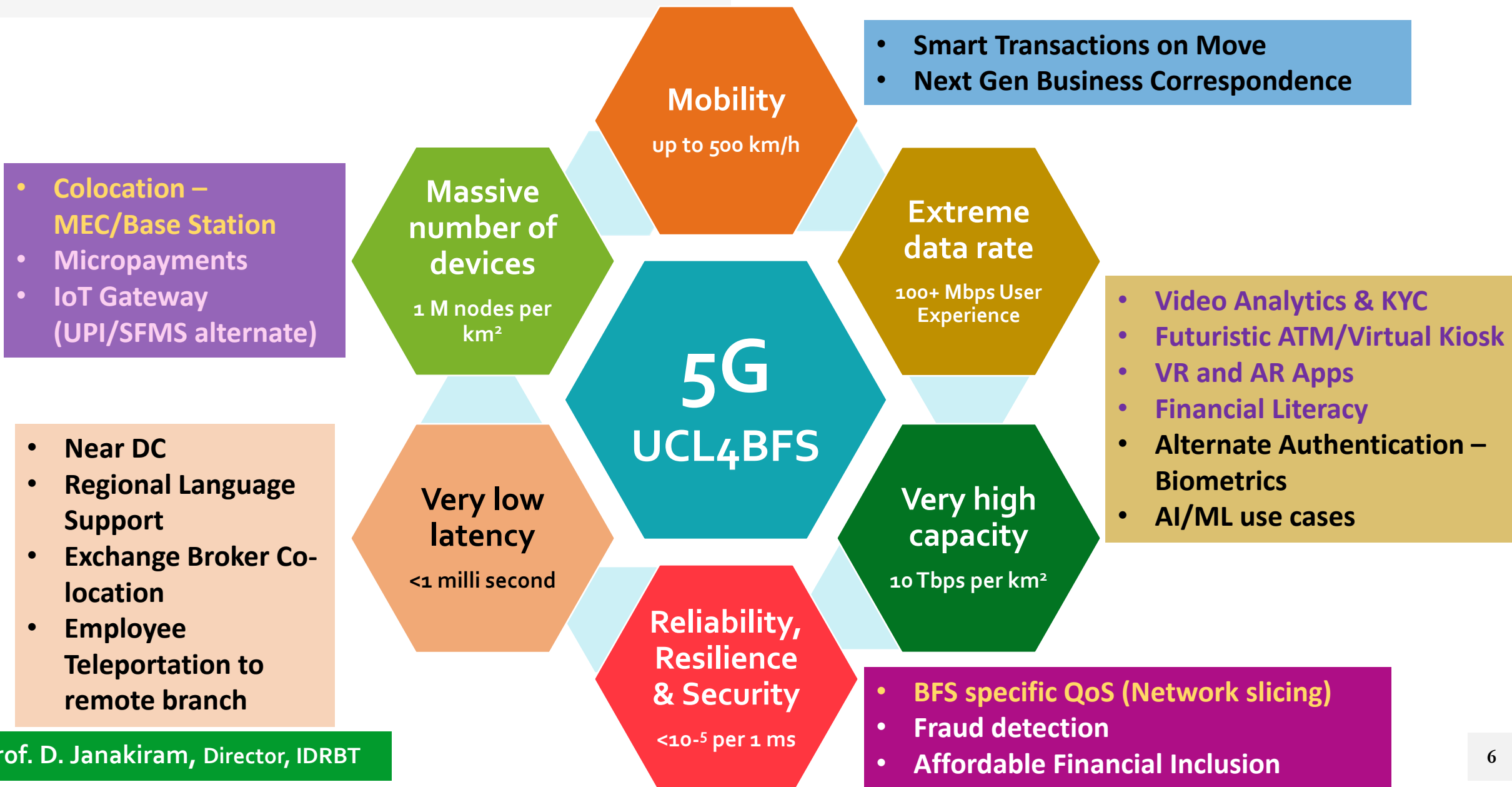


MEC + Multi-Domain Orchestration + Branch



Multi-Domain + Multi MEC BFS Slice

BFS – Use Cases for 5G



Challenges + Possible Mitigation

Edge Cloud Security with third party service deployment

- DLT / Smart Contracts etc.

Container framework security issues

- Secure enclaves / Environment audits
- Research in in-network processing and trusted computing frameworks

5G User Device Security

- MEC based isolation of compromised devices

Handling of financial data has additional regulatory requirements

- RegTech evolution

Thank You