



# CELTIC-NEXT Proposers Day



7<sup>th</sup> of September 2022, Online via WebEx

**Pitch of the Project Proposal**

## Cloud-native 5GCore-as-a-Service



# OpenFabric

Mahmoud Hashemi  
mhashem2@uottawa.ca

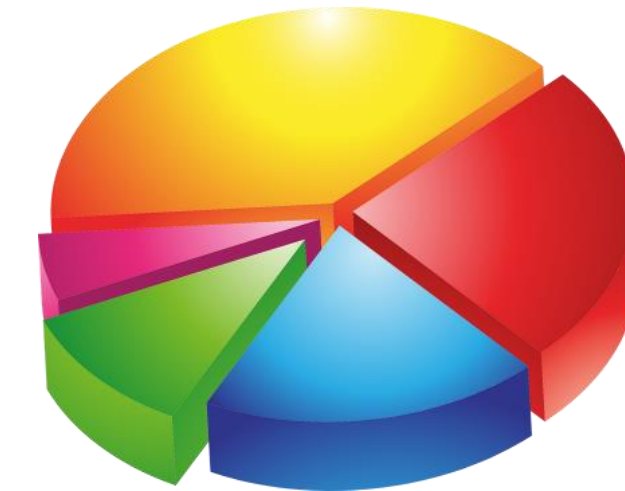
# The industry is ready for Private 5G Networks

---

According to a recent survey performed by Nokia and ABI Research over 1000 companies from a variety of industries:



%90 consider Private 5G networks as part of their mission critical control and communications network upgrade



%38 will use Private 5G networks as their primary technology to support their mission critical applications



# OpenFabric



- OpenFabric is a start-up company focused on building a fully managed private 5G core platform using end-to-end open standards and technologies
- The mission of OpenFabric is to provide an easy to use, secure, and flexible 5G Core-as-a-Service platform designed to help companies exploit the benefits of Private 5G Networking without being absorbed by its technological complexities



# The technology is ready

---

- The high speed, low latency, high reliability and greater capacity of 5G has provided a more effective communication platform with an extended reach to run mission critical industrial applications.
- However, the opportunities of 5G are not limited to these features:
  - 5G network slicing enables the multiplexing of virtualized and independent logical networks on the same physical network infrastructure.
  - Edge computing is another powerful feature of 5G for industrial applications.
- All of these come at the cost of more sophisticated end-to-end network management and orchestration schemes.
- This is where OpenFabric comes to the rescue, by providing a turnkey cloud-native 5G Core-as-a-Service.



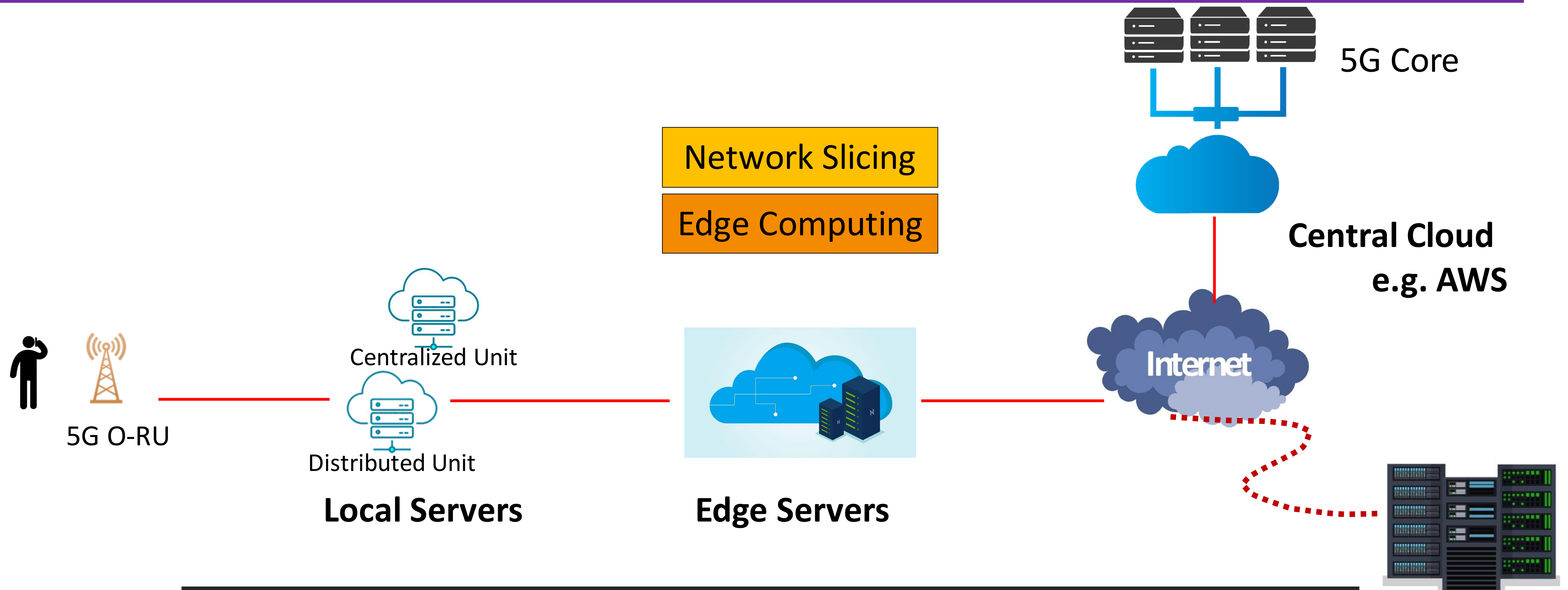
# Project architecture- Phase 1



OpenFabric  
Patent Pending Technologies



## OpenFabric 5G Platform



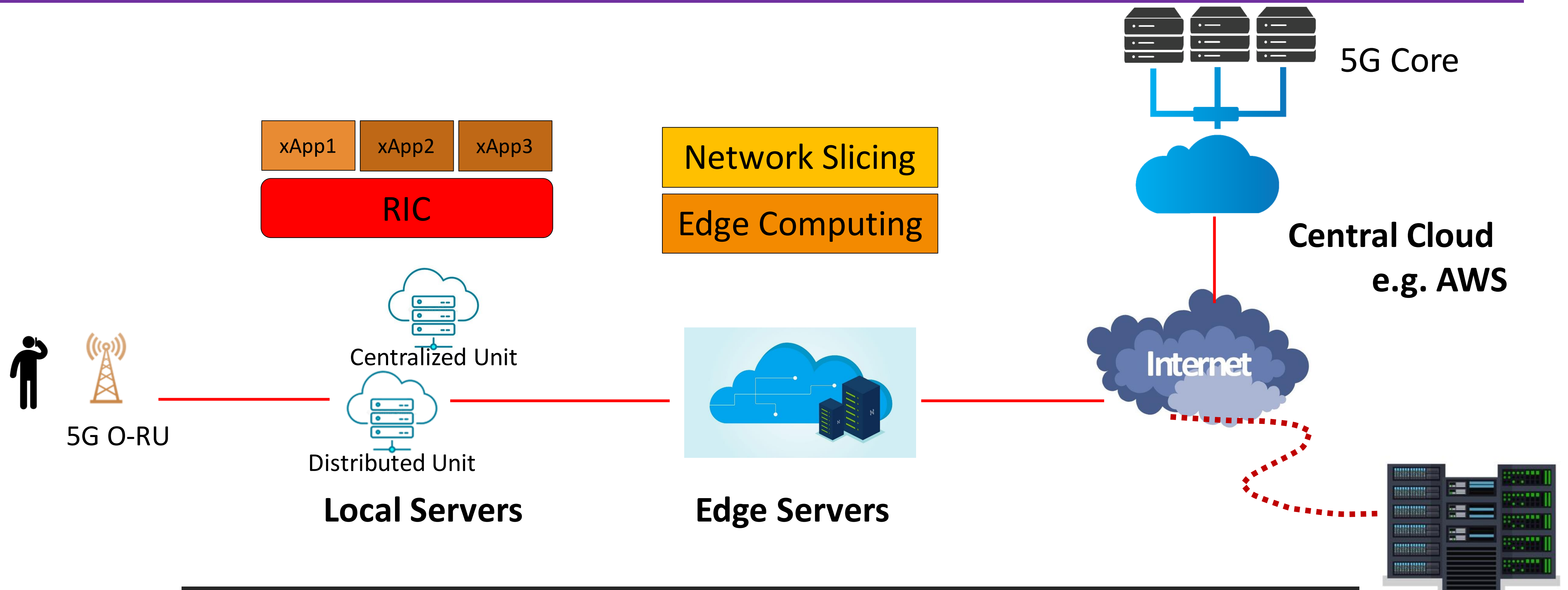
# Project architecture- Phase 2



OpenFabric  
Patent pending Technology



## OpenFabric 5G Platform



# Partners



- OpenFabric has partnered with the Discover Lab of the University of Ottawa, Canada, as its strategic technology partner.
- OpenFabric is looking for partners at different levels of the vertical value chain:
  - Telcos who want to increase their share of the Private 5G network market.
  - O-RAN based manufacturers, specially those with unlicensed bands (e.g. millimeter wave products)
  - Cloud providers who want to participate in this new lucrative market
  - Industry partners who want to benefit from Private 5G in their Digital Transformation





# Contact Info

**For more information and for interest to participate please contact:**

Mahmoud Hashemi  
OpenFabric  
mhashem2@uottawa.ca  
+1 (613) 212-5868  
800 King Edward Ave., Suite 5-077  
Ottawa, ON, Canada K1N 6N5



**Presentation available via:**

