

LF Edge

*Unifying Edge Compute across IOT,
Enterprise, Cloud & Service Providers*










Arpit Joshipura GM, Networking, Edge & IOT, The Linux Foundation

September 2021

 THE **LINUX** FOUNDATION

 LF EDGE

Linux Foundation: We are behind some of the most critical projects in the world

Security	       
Networking	       
Cloud	      
Automotive	  
Blockchain	     
Edge/IoT	       
Web	       
AI	       
Film	      
CI/CD	        
Energy	       
Hardware	    
Standards	      

Vertical Market Adoption of End to End Open Source Software

OPEN NETWORKING, EDGE AND IOT MARKET ADOPTION



Industrial
Manufacturing



Energy (Oil,
Gas Utilities)



Commerce &
Retail



Home



Automotive



Fleet &
Transportation



Logistics



Building
Automation



Cities &
Government



Healthcare



ENTERPRISE NETWORKING

1. Private Networks 5G/LTE
2. Workloads across Multi-clouds
3. End to end visibility and monitoring



SERVICE PROVIDERS

1. Built on end to end open source 5G & edge
2. Developing countries with 5G and edge
3. Global connectivity



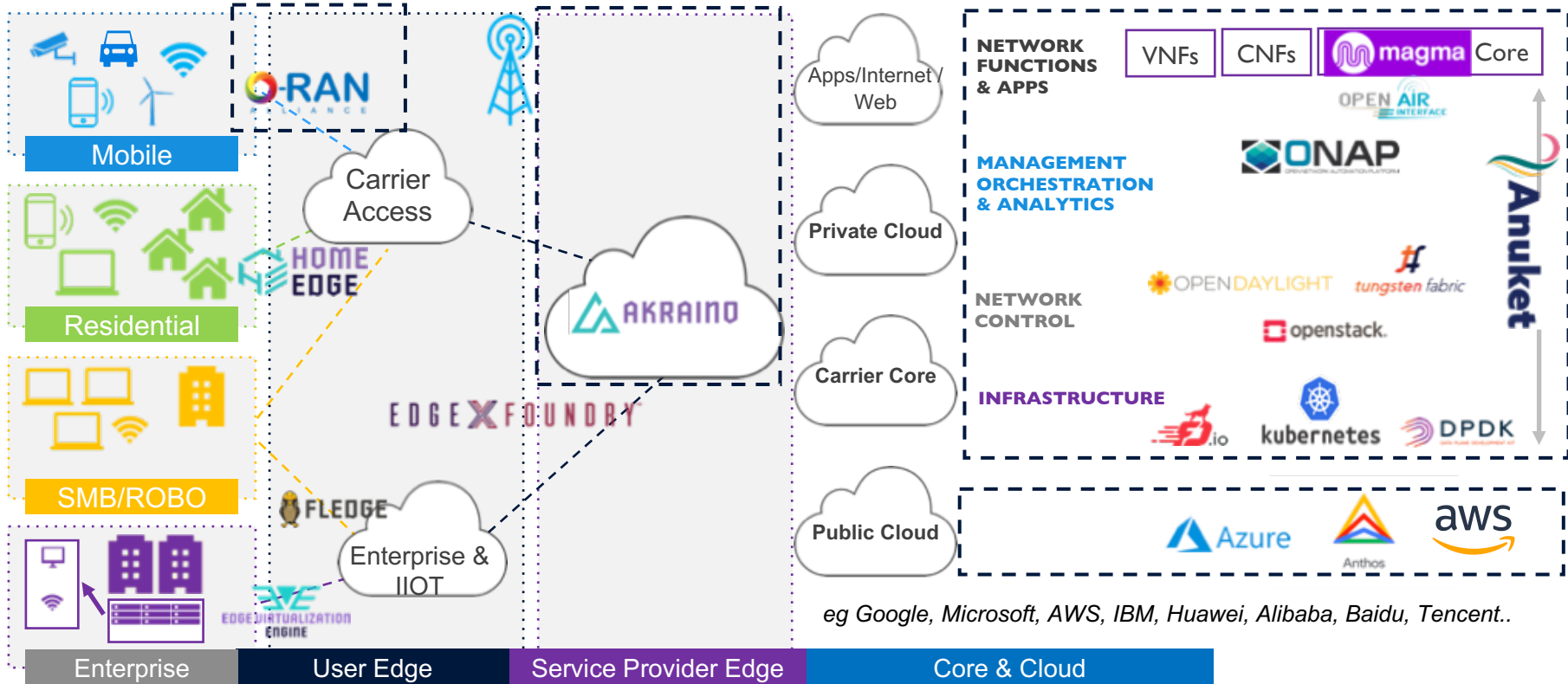
END USERS, GOVERNMENTS

1. Built on Open Source projects
2. Open Solutions and Blueprints
3. Unified Cloud, Enterprise, Telco

5G SUPER BLUEPRINTS BUILT ON END TO END OPEN SOURCE PROJECTS



End to End Open Source Software Collaboration



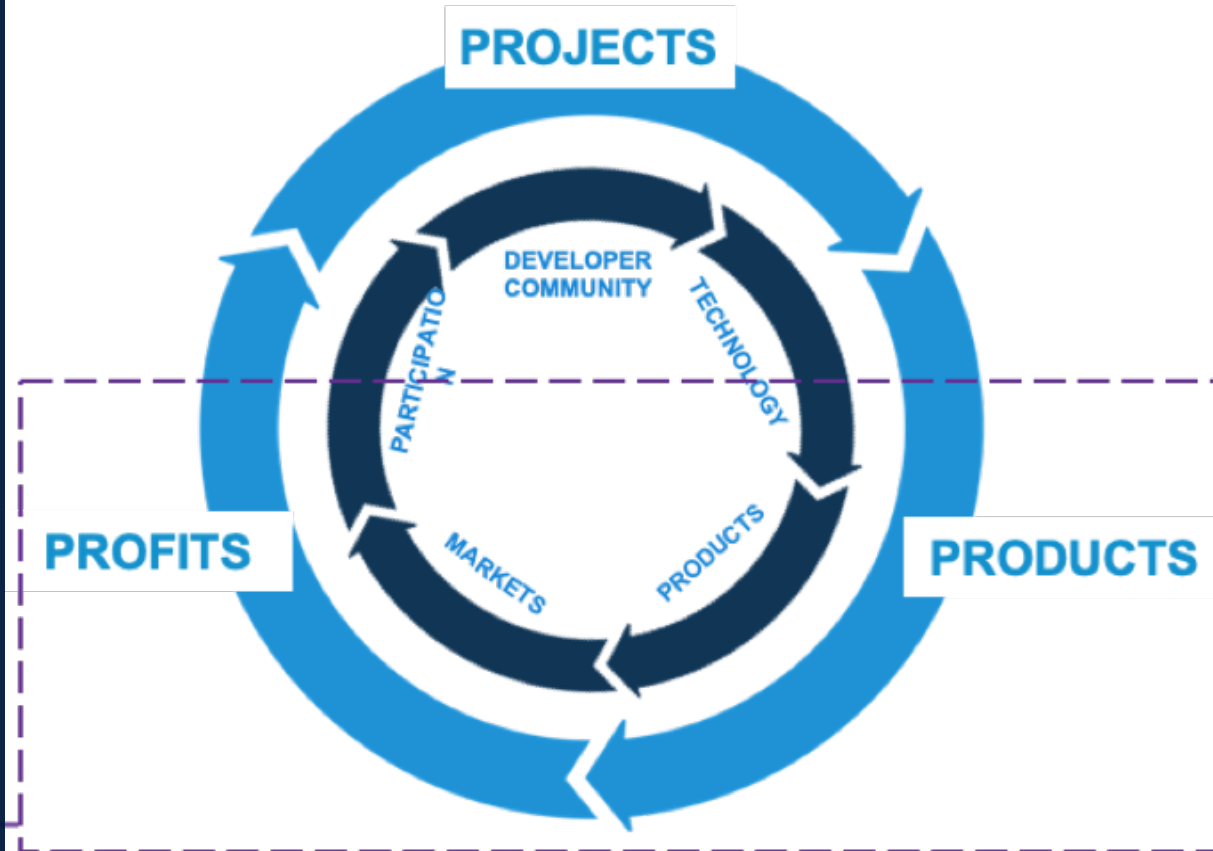
eg Google, Microsoft, AWS, IBM, Huawei, Alibaba, Baidu, Tencent..

Beyond Code POC to Production

Open Compliance & Verification
Open Interop & Testing
Open Training & Certification

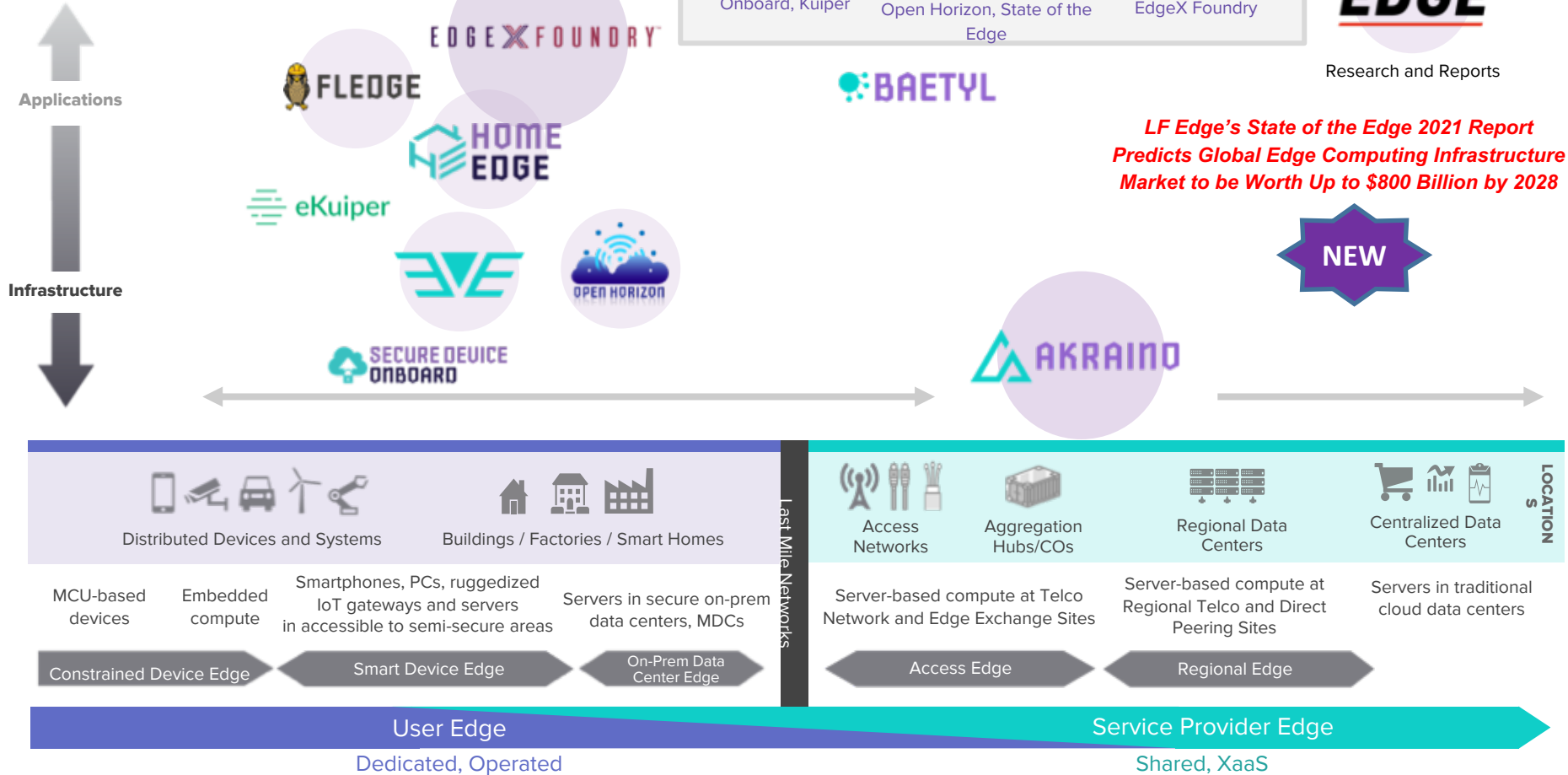
LFN & LF Edge POC (RAN+Edge+Core)

> 2021 End to End 5G Super Blueprint

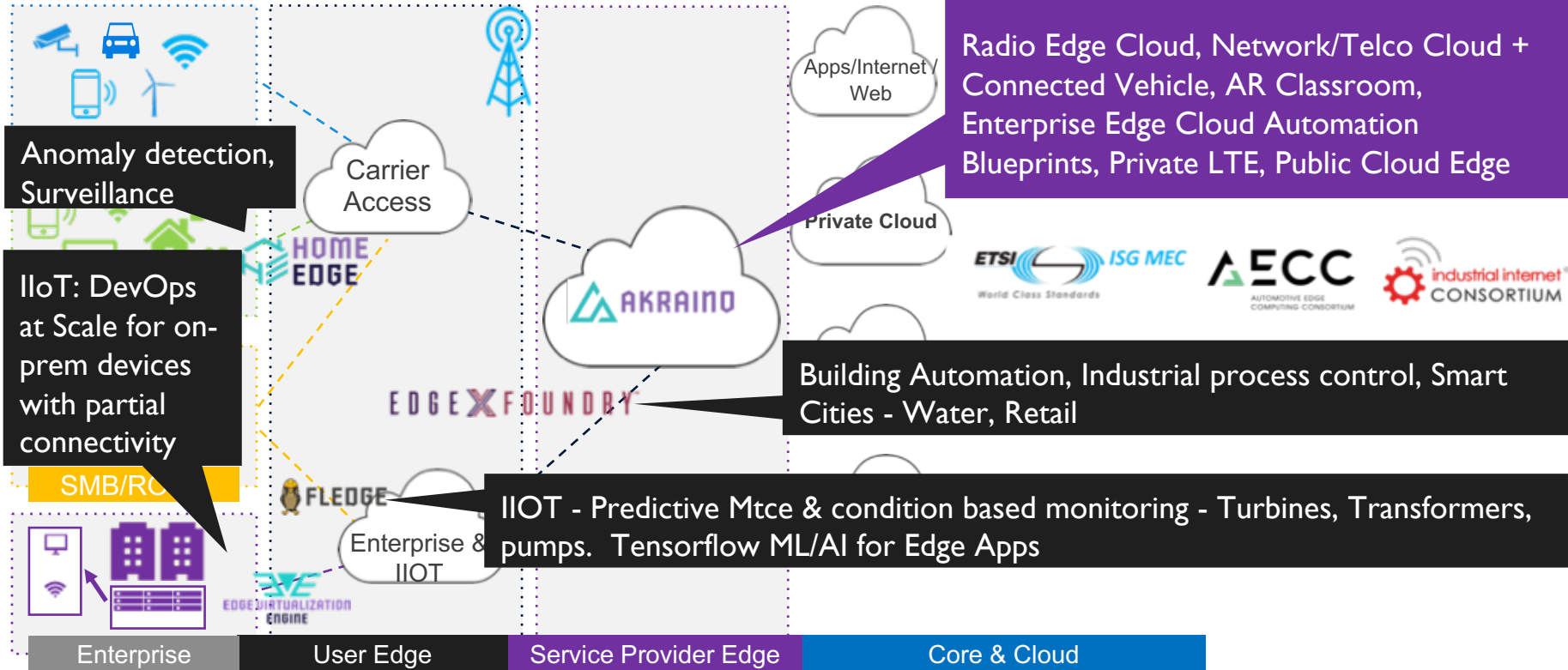


**Leading Open Interop & compliance
LF Edge's Akraino Blueprints**

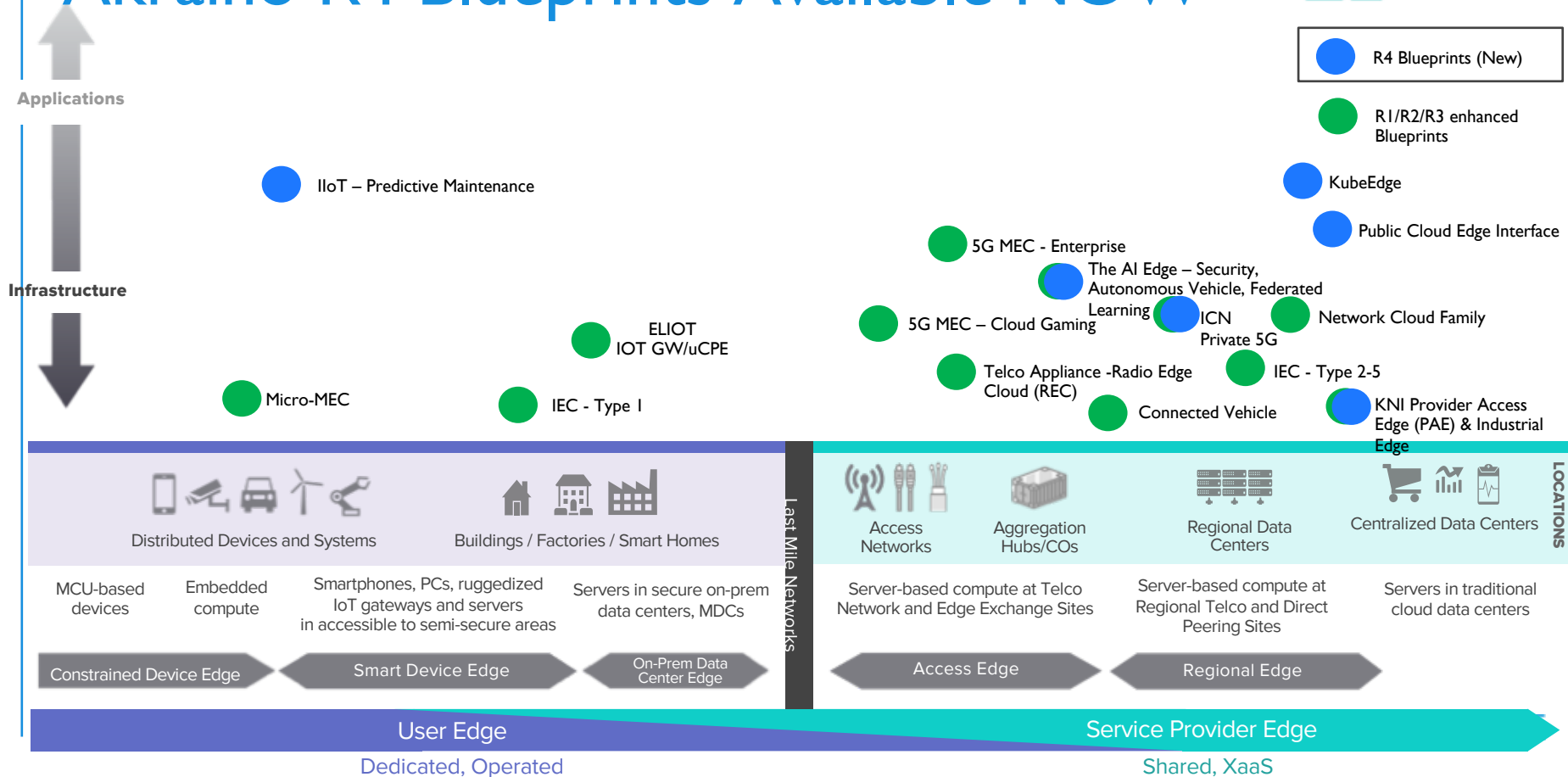
LF Edge Projects



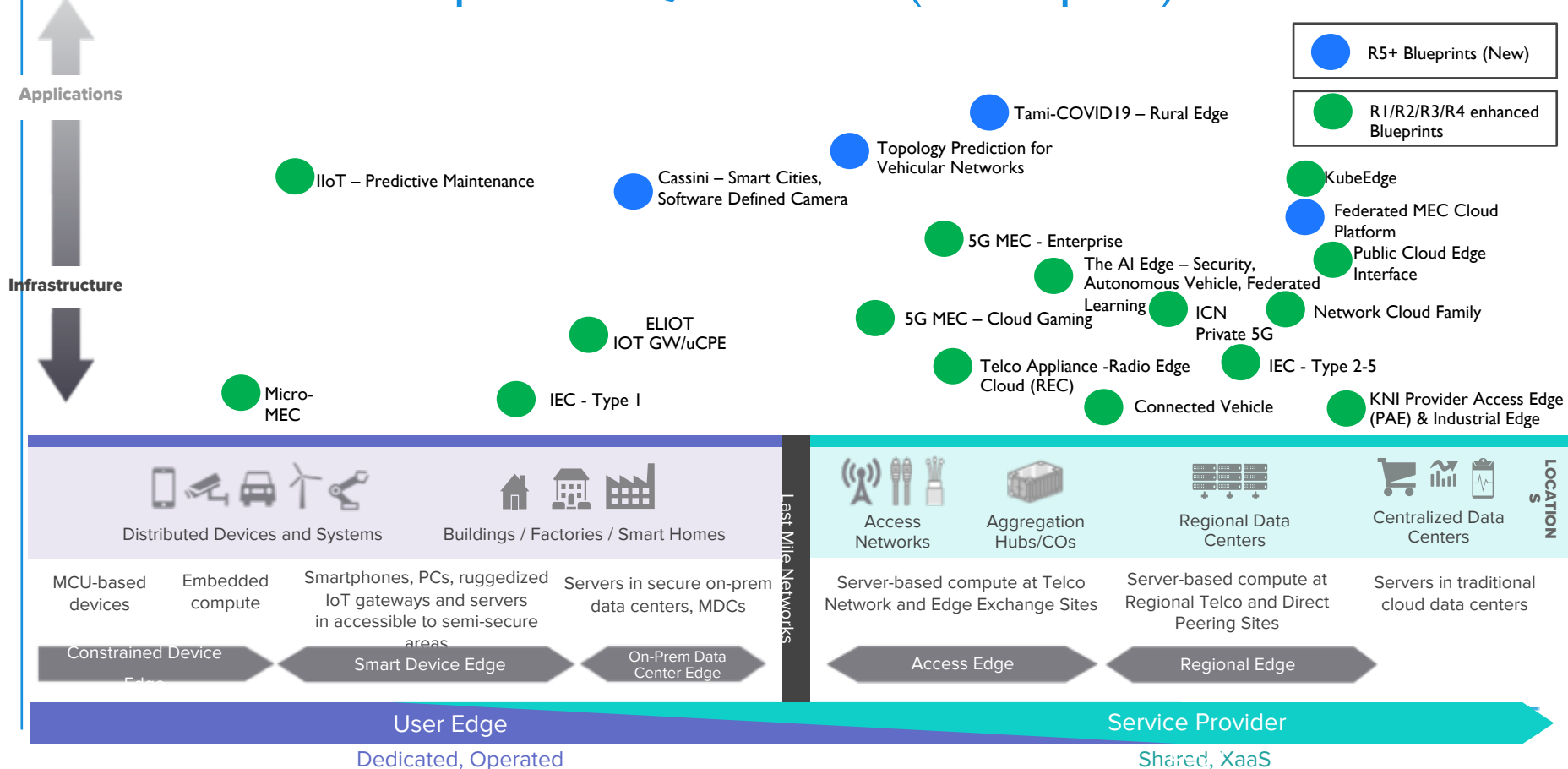
Edge Use Cases Driving Open Source Projects



Akraino R4 Blueprints Available NOW



Akraino R5+ Blueprints – Q4 Release (sneak peak)



LF Edge Accelerating Community Collaboration 2019-2021



43%

New Member
Y/Y increase



80%

Commits Increase
Y/Y Increase



25+

Global Deployments & EdgeX
Commercial Products



8M+
/30+

Downloads and Akraino
Blueprints in development



20K+ global mentions since launch

Participation from Service Providers (Telco, Cloud, Cable),
IOT, Enterprise ecosystem with a goal of Unifying Edge
Frameworks & Life cycle mgmt

LF Edge: Key Takeaways

1. Harmonizing Open Source Edge Communities across IOT, Enterprise, Cloud & Telecom
2. Keeping LF Edge Open & Interoperable with
 - › Hardware, Silicon, Cloud, OS, Protocol independence
 - › Bringing the best of telecom, cloud and enterprise – location, latency & mobility
 - › In collaboration with Consortiums/SDO (IIC, AECC, OEC, ETSI)
3. Hosted by the Linux Foundation similar to other Open Source Communities like CNCF (Kubernetes), LF Networking (ONAP) and many more.

LF Edge projects are an Integral part of 5G Super Blueprints

JOIN THIS COMMUNITY/CROSS COMPANY EFFORT NOW!

[Mailing List](#)

[Bi-Weekly Meeting Calendar](#)

[Slack Channel](#)

[Meeting Agenda/Minutes](#)

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 magma →

 **CLOUD NATIVE**
COMPUTING FOUNDATION →

 **RAN**
ALLIANCE SOFTWARE
COMMUNITY →

**End to
End
Super 5G
Blueprint**

← Cloud Native 5G Demo

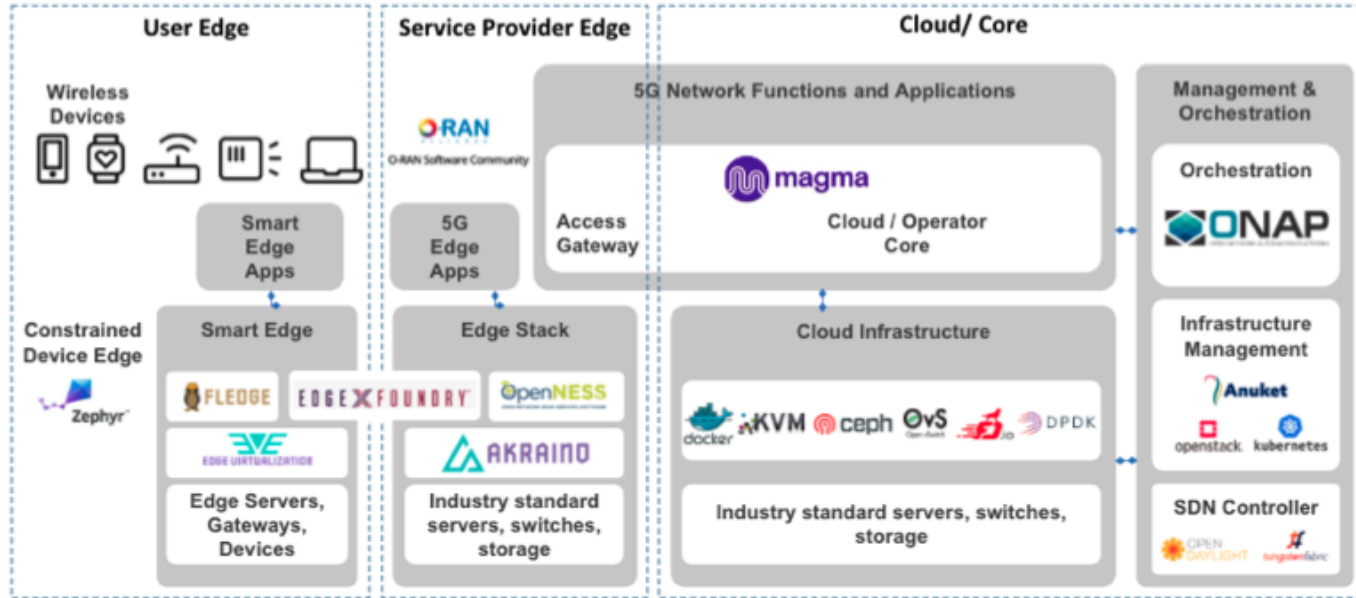
← Private LTE/5G ICN Akraino

← ONAP 5G Use Case

THIS NEW BLUEPRINT is the community vehicle to collaborate and create end to end 5G solutions

5G Super Blueprint

LF Open Source Component Projects for 5G



Learn more: <https://www.lfnetworking.org/5g-super-blueprint/>

Read the FAQ: <https://wiki.lfnetworking.org/display/LN/5G+Super+Blueprint+FAQ>

LF Edge Summary

Vision: Our software & projects enable rapid productization of Edge platforms by leveraging end user input to drive and supply the necessary building blocks (and/or frameworks, reference solutions) to facilitate integration and interoperability for Edge Computing across Telecom Service Providers, Cloud Providers, IOT & Enterprises

Projects

IMPACT - STAGE 3



GROWTH - STAGE 2



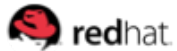
FLEDGE



AT LARGE - STAGE 1



Premier Members



General Members



Associate Members and Liaisons



LF Edge Communications Update August



EdgeX Foundry Releases the Most Modern, Secure, and Production-Ready Open Source IoT Framework

By LF Edge | August 3, 2021 | No Comments

EdgeX Foundry Rolls Out Second Major Release, Taking Developers to Ireland

By Arti Loftus / August 03, 2021



EdgeX Foundry Releases Production-Ready Open Source IoT Framework



EdgeX Foundry Ireland Release Promises Modern, Secure, and Production-Ready Open Source IoT Framework



LF Edge @LF_Edge · Aug 13

Aug 18-19 is [@ZEDEDA](#) Transform! Don't miss this free virtual event featuring industry experts all across edge sectors, from [#IoT](#) to [#5G](#) [#AI](#) [#Industrial](#) [#opensource](#) and more. Register here--> hubs.la/H0Vc_sf0

[View Tweet activity](#)



LF Edge @LF_Edge · Aug 13

Congrats to the winners of the inaugural [#akraino](#) community awards! See who took home the prize and read about the great work being done across the project in this blog post: hubs.la/H0VcYd20 [#LFEdge](#) [#opensource](#) [#edgecomputing](#) pic.twitter.com/nUCUmJZQms

[View Tweet activity](#)

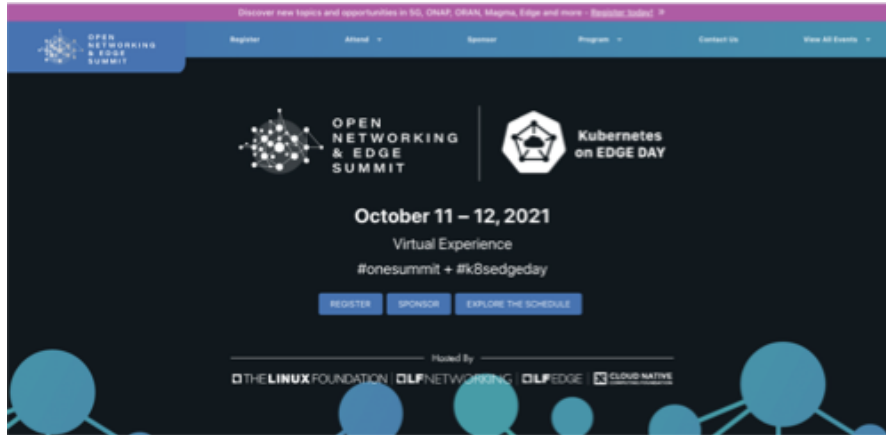


LF Edge @LF_Edge · Jul 27

Nominations for Edge Woman of the Year are now open! Looking to recognize women impacting the direction of their organization's strategy, technology, or communications around [#edgecomputing](#), edge software, edge infrastructure, or edge systems. Submit here: hubs.la/H0T9dPX0

[View Tweet activity](#)

Open Networking and Edge Summit (all virtual) Oct 11-12



Register Below for amazing keynotes – China Mobile, Huawei, AT&T, Verizon, Facebook, Walmart....
5+ Tracks with deep sessions on Edge, IOT, 5G, Cloud Native and many more

<https://events.linuxfoundation.org/open-networking-edge-summit-north-america/>

LF Edge, bringing Edge initiatives together

IOT+Telecom+Cloud+Enterprise