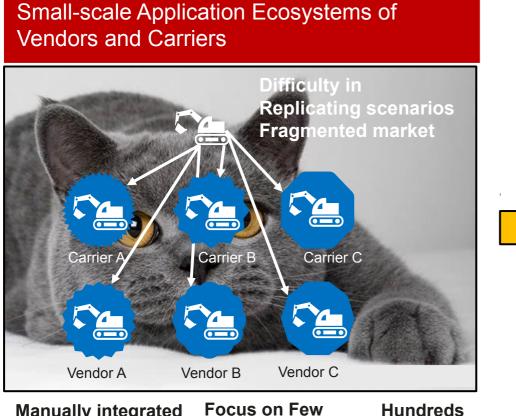


## EdgeGallery Building OpenSource 5G MEC Eco-System

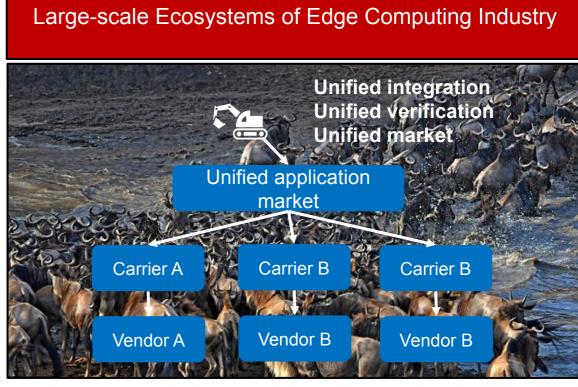
## Industry Application Ecosystems with Unified Market and Shared Applications



Manually integrated growth mode

Focus on FewHundredsapplication typesof applications

- There is no **unified platform** for innovative achievements in the industry. Everything is reorganized from scratch, every year.
- No **closed loop of business** is formed, and projects are almost impossible to replicate.
- There is no drive for innovation, and the technology growth is slow.



Self-reproduction growth mode

**Diversified** application types

**Millions** of applications

- New Ecosystem: Building Industry Application Ecosystems with Unified Market and Shared Applications
- The open and unified market, unified integration, and unified verification enable convenient circulation of an application across vendors and carriers, reduce application replication costs, and build a large-scale, self-growth, and diversified new ecosystem

2

# EdgeGallery: Open source, Developer Centric, 5G MEC Application Ecosystem Apache 2.0



Positioning

Build de facto standards for the 5G edge computing architecture and enable openness in the telecom field.

Lower the threshold for bringing enterprise applications onboard, form a large scale, and build a B2B business ecosystem.



Value



**5G Connection Capability** make 5G accessible

- Interconnection with the 5G network: interconnected with 5G NEs to implement multi-dimensional dynamic traffic distribution.
- 5G capability invoking that complies with the ETSI standard: wireless information, location, terminal identity, and bandwidth management.
- Efficient network data plane: Supports multiple network planes and latency sensitive network (TSN).
- Built-in value-added network: integrates network capabilities such as DNS, FW, NAT, and LB.



Edge Native Platform Architecture make edge services trustworthy and manageable

- Open platform framework: plug-in framework, unified governance of applications, services, and APIs.
- Lightweight resource management: lightweight container/VM management, compatible with heterogeneous hardware accelerations.
- Full-stack security mechanism: multiuser security isolation, data security, application security, and network security.
- Highly reliable management and operation: MEC Mesh, blockchain ledger and self-service management.

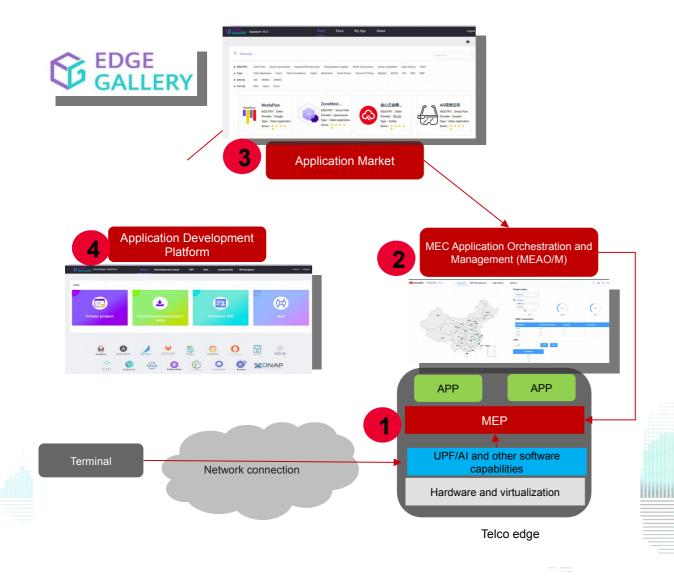


Diversified and Open Edge Ecosystem easily bring applications onboard and make business replicable

- Simplified application development: Agent codeless integration, online IDE tool, online CI/CD, and ARM migration.
- Convenient application verification: online simulation sandbox and online community 5G trial network.
- Unified application portal: unified authentication and application sharing for application markets.
- Diversified ecosystem sharing: integration and interconnection with the public cloud, compatible with the commercial platform.



## **EdgeGallery Building Blocks**



**MEP**: Autonomous, Rich in Platform & network capabilities, Support heterogeneous architecture

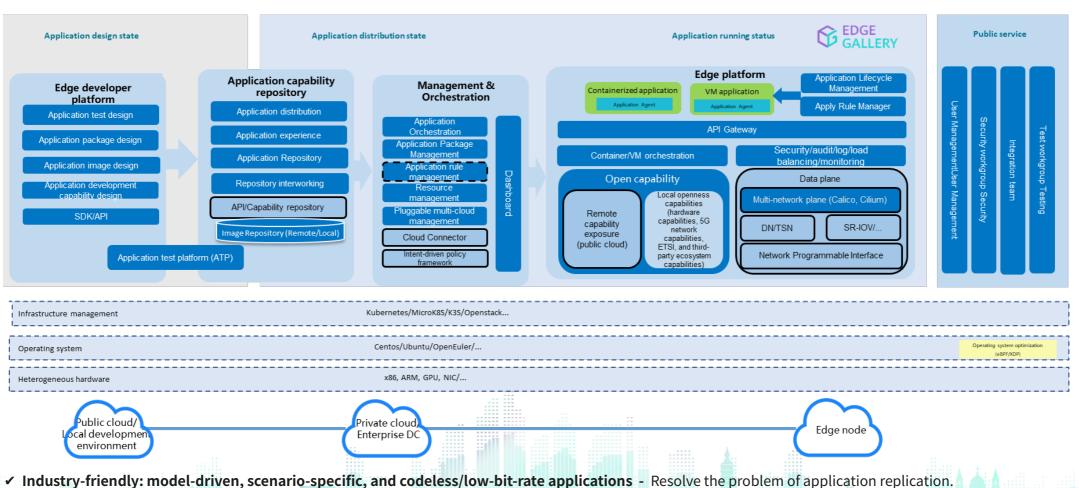
**MECM**: Application orchestration, Application LCM, FCAPS, Policy driven closed Loop

**MEC Developer Platform**: Provides Tool Chain, SDKs, APIs & Sandbox features for application development, packaging and testing.

**MEC App Repository:** Unified App Package Format, Standardized API Between Operator App Store and MECM



## **Functional View**



- Developer-friendly: full-journey design, development design, deployment, commissioning, and installation for developer experience-oriented applications

   Resolve the problem of high development requirements.
- Business-friendly: unified authentication, distributed federation, and integrated development and O&M of DevSecOps edge security

   Resolve the issue of difficult commercial monetization.

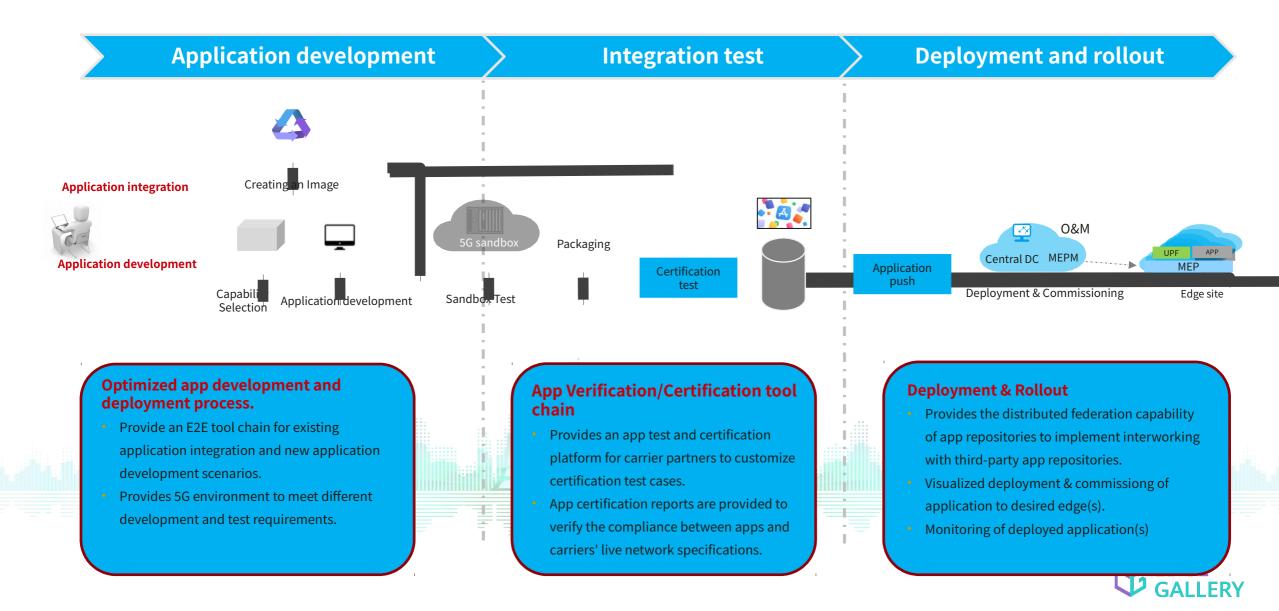
Friendly deployment: Infrastructure independent, modular design, and on-demand deployment, meeting different application scenarios

- Resolve diversified industry deployment issues.



Current

## Wizard-based Application Development, Test and Deployment



## **EdgeGallery Community**

#### 25+ Participating companies

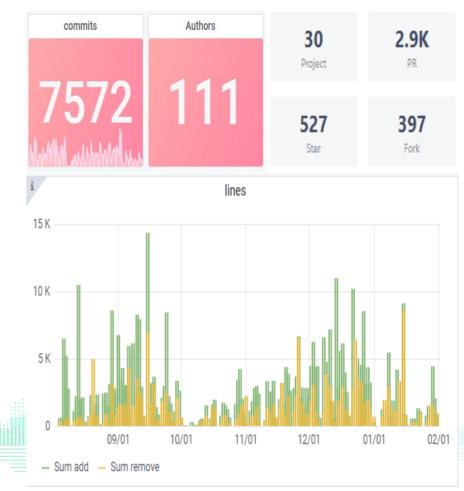


#### 40+ Applications

categorization	Quantity	Scenario	
B2B enterprise	20+ Security, categoriz traffic, robot		
B2C consumers re renorm are reneration and renorm are reneration and renorm are reneration and renorm are renorm and renorm are renormalized and renormalized renormalized and renormalized and renormalized renormalized and renormalized and renormalized renormalized and renormalized and renormalized and renormalized renormalized and renormalized and renormality and renormalized and renormalized and renormalized a		Game	
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- Smart campus
- industrial manufacturing
- Transportation and logistics
- gaming
   Socurity
- Security and others

#### EdgeGallery Contribution (200+Kloc)





## **EdgeGallery and Industry Collaborations**



The EdgeGallery is the upstream project of the BP.



- This function is used as the reference implementation of the Operator Platform.
- Defines the MEC NBI.







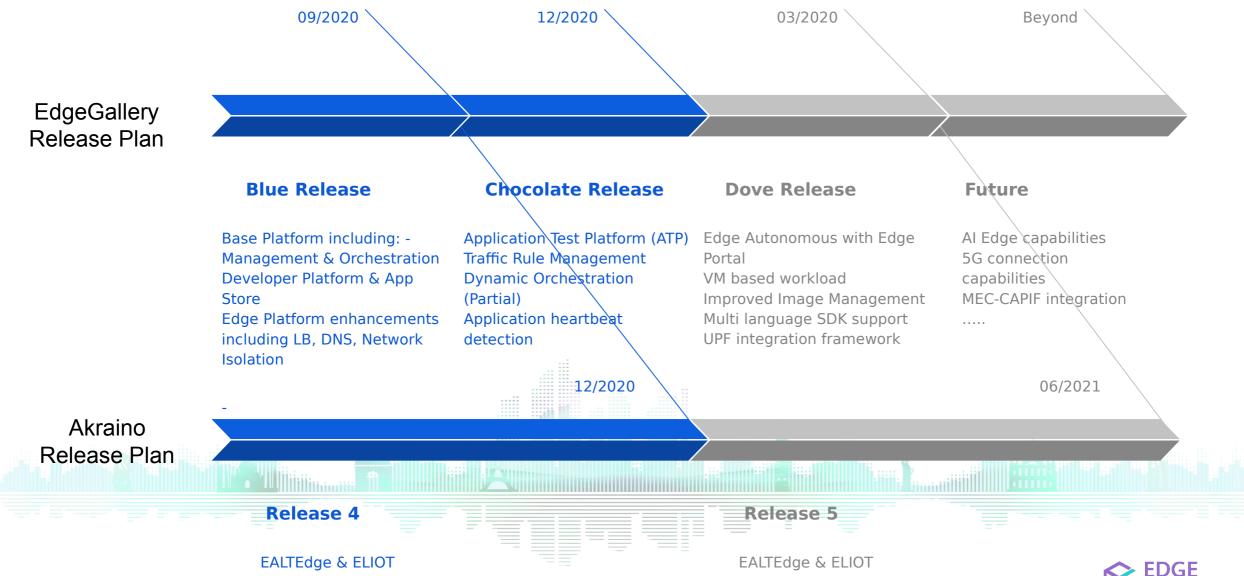
- application verification lab.
- Cooperation on MEC cyber security topics.



EdgeGallery is an innovative platform for 5G NDA. Reference implementation of the 5G DNA deterministic network capability.



## **EdgeGallery & Akraino Release Mapping**



GALLERY

## Lets Build a unified 5G MEC industry platform!



## Welcome to the EdgeGallery community.

Making EdgeGallery a de-facto 5G MEC Platform by collaborating with APP Vendors, Operators, SDOs, Open source communities globally.



## Thank you.

