



# Innovation Drives the Future of openEuler

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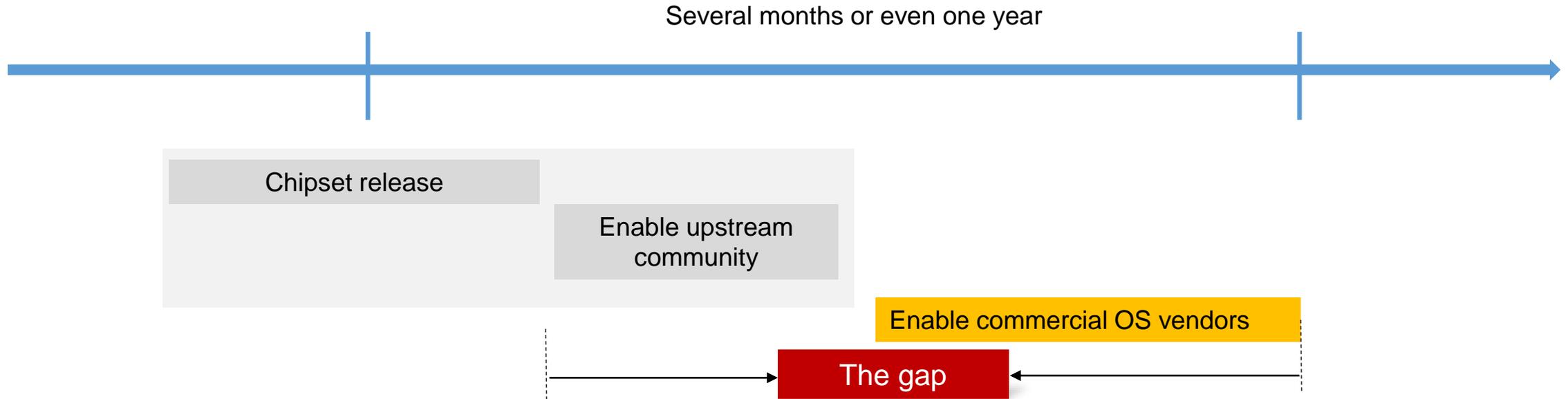
- **Why openEuler**
- **What openEuler Will Unlock**
- **Open to Innovation by All**

# Why openEuler?

There are several reasons to build the openEuler project:

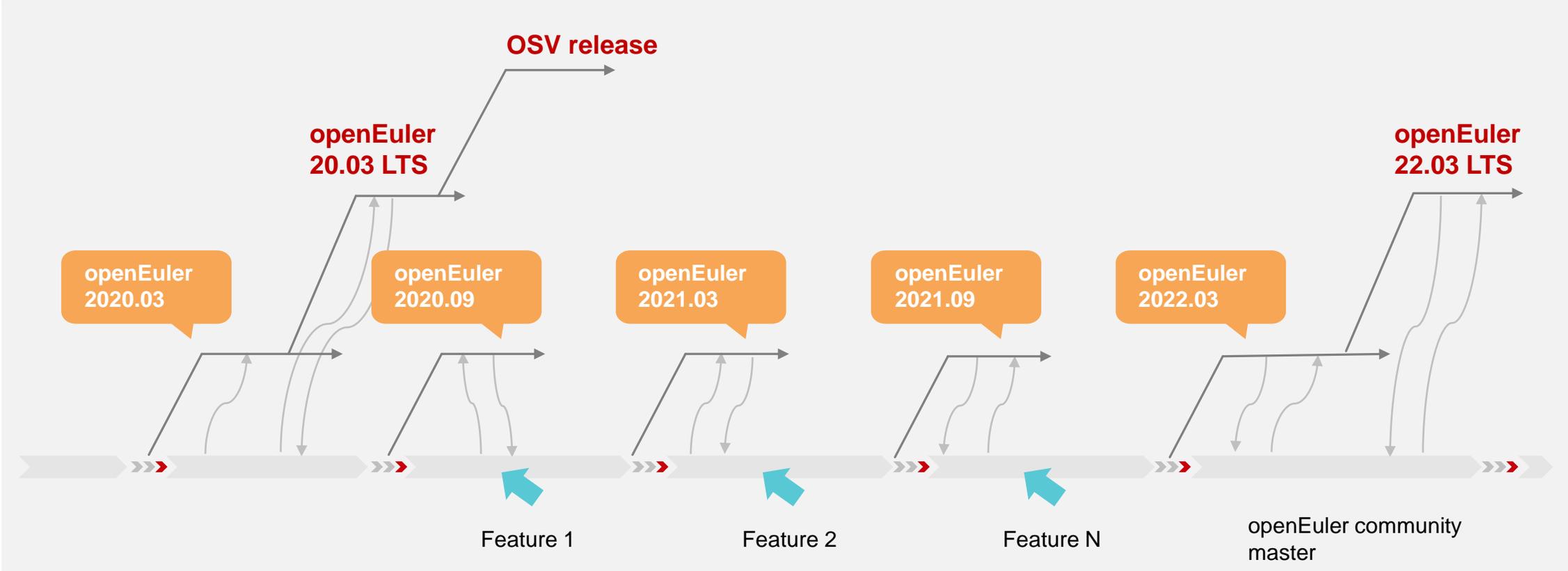
1. Make new technologies and features more accessible to end users
2. Provide a unified platform to support ARM systems from IoT to the cloud
3. Make OS platforms easier to use

# R1: Deliver New Features to End Users Faster and Easier



For commercial OS vendors, that's reasonable. But can we make things better?

# The Release Roadmap & OSV Base



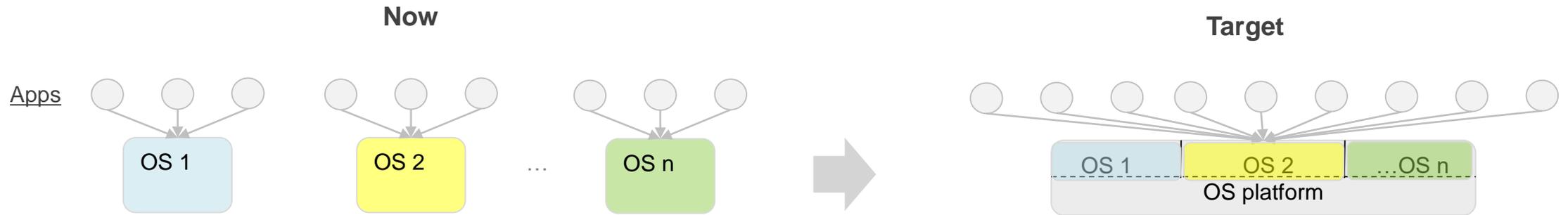
**Developing an OS is no easy job!**

# How openEuler Fixes R1?

openEuler is more aggressive in technology and release policy.

- openEuler has a more aggressive release cycle.
- Upstream first, but openEuler is more open to new features, encouraging inclusion of new tech.

## R2: ARM Is Used from IoT to Cloud, But OS Is Not



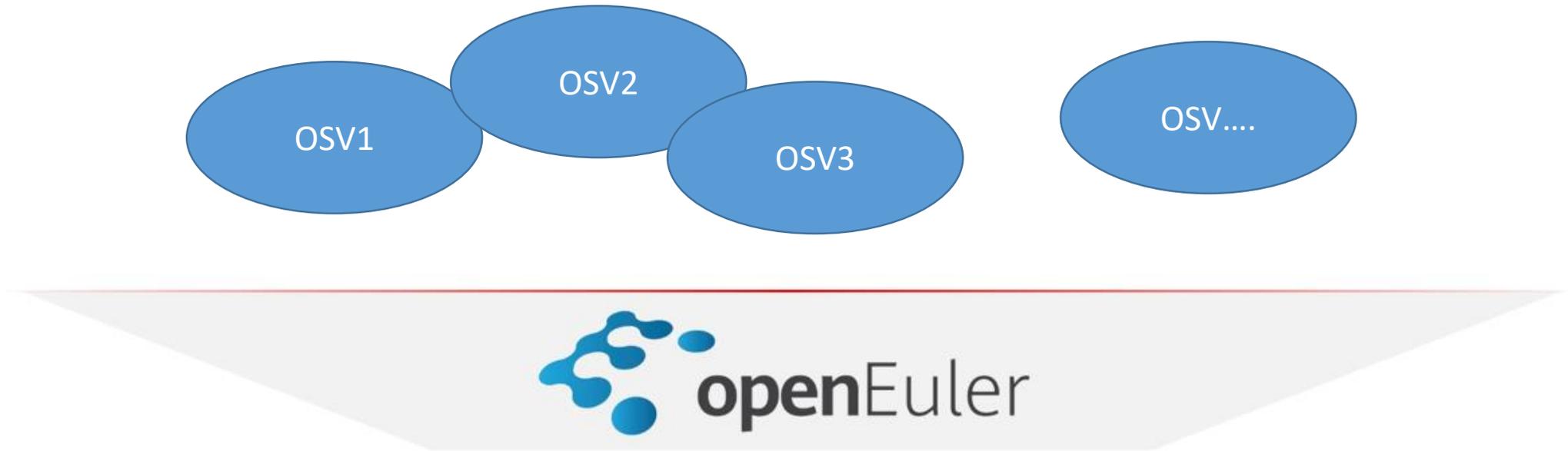
From the perspective of ISA, different ARM chipsets are similar.

While OSs may also look similar, they are different actually.

That brings heavy, tedious work for developers and users.

# How openEuler Fixes R2?

We need a unified distribution base to fix R2.

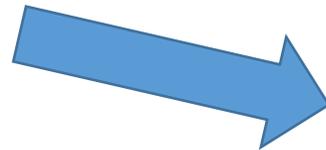
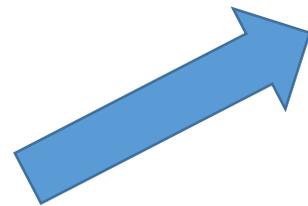


Make commercial distributions easier to support ARM64.

# How openEuler Fixes R2?

Need solutions that can help IoT and cloud share the same infrastructure.

How to start



**iSulad**

**StratoVirt**

Make virtualization and containers light enough.

Build a new infrastructure from IoT to cloud.

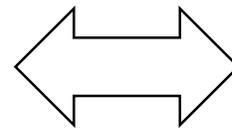
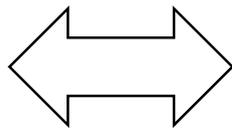
# How openEuler Fixes R2?

iSula

StratoVirt

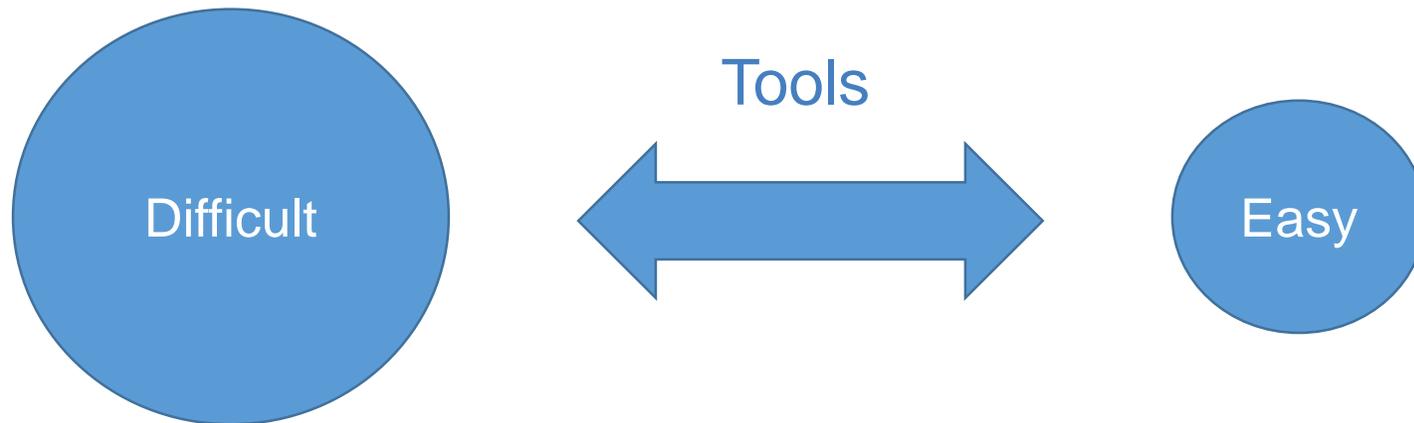
Kernel

Share the same software from IoT, edge, to cloud. Simplify the software stack.



## R3: The Need to Make OS Easier to Use

Generally, IT infrastructure is complicated. It's not easy to upgrade, optimize and secure the system.



## How openEuler Fixes R3?

openEuler welcomes any new ideas. We want to bring some changes to the OS

**Secure**

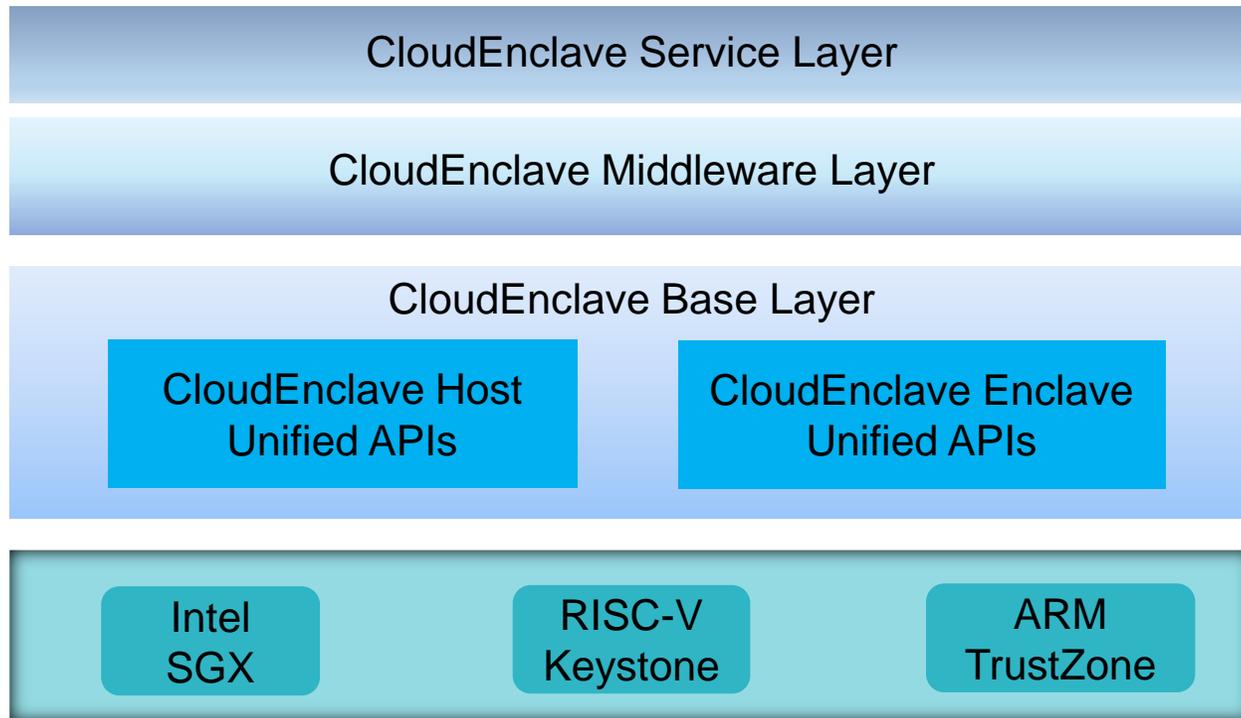
**Cloud  
native**

**Easy to  
use**

openEuler will set up some projects with focus on these 3 areas.

# Security on openEuler: CloudEnclave

Make confidential computing not difficult any more.



- Build unified and easy-to-use interfaces for application developers.
- Isolate developers from complicated hardware details and different SDKs.

# Rethink OS in a Cloud Native Way

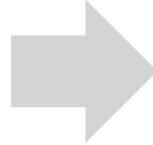
RPM-based OS distribution has big problems in upgrade and maintenance.



We need to put OS itself into container as well.

We call it:

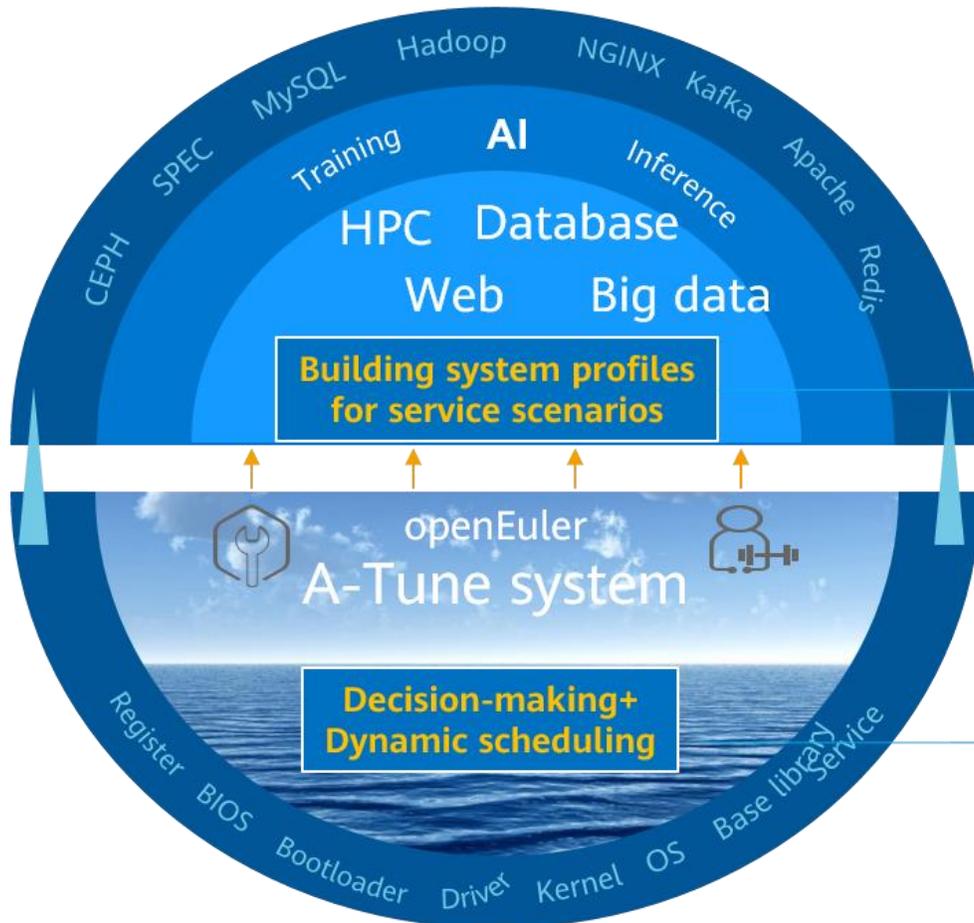
**CLOUD  
NATIVE OS**



- Put OS itself into a container image. Upgrade OS means replacing the container image other than installing yum.
- Consider putting more OS services to the cloud than run locally.

# Easy-to-Use openEuler

A-Tune: Performance tuning is not difficult any more.

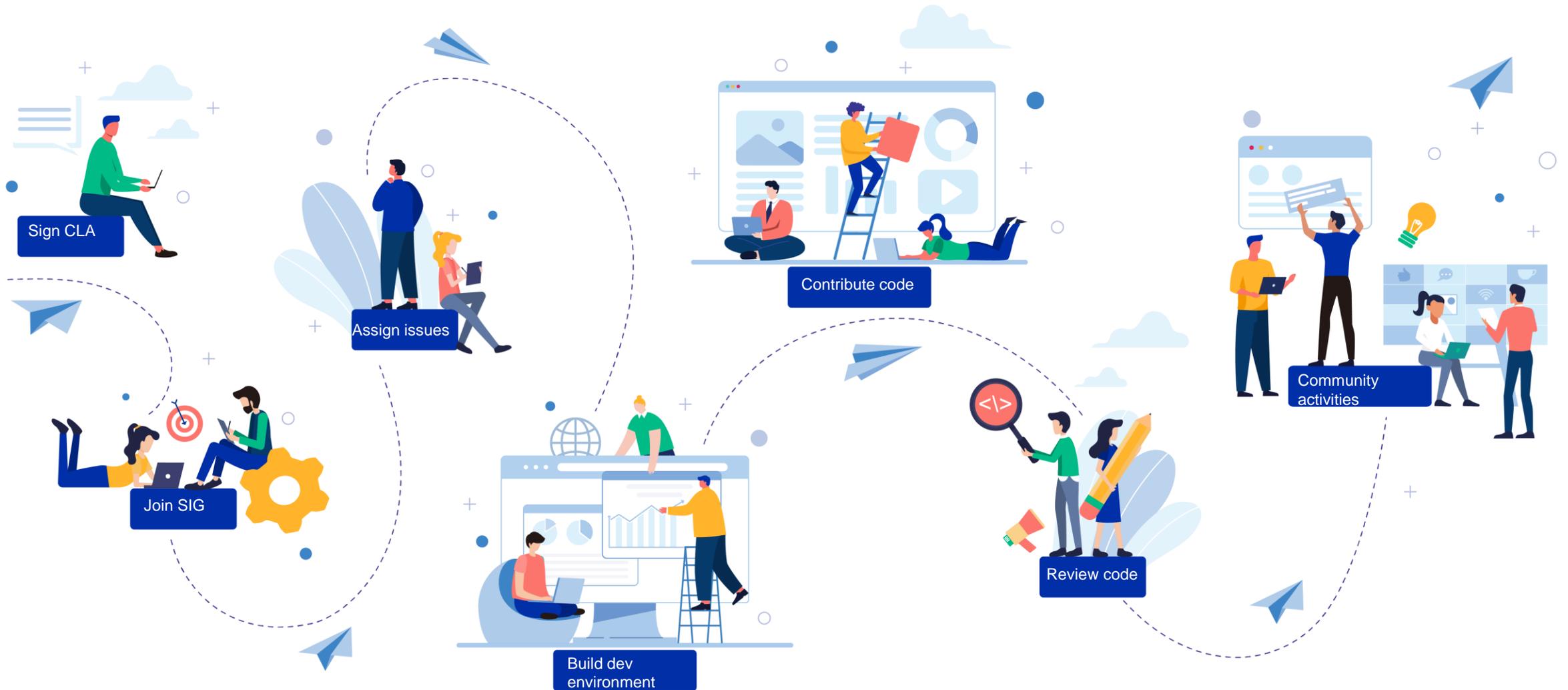


**Modeling:** Build optimal resource models for systems running on the Kunpeng processor.

**Awareness:** Build service scenario profiles to intelligently identify service scenario models.

**Decision-making:** Realize the dynamic scheduling transformation from service model to resource model.

# Join the openEuler Community



# Welcome to openEuler



<https://openeuler.org>



Thank you