

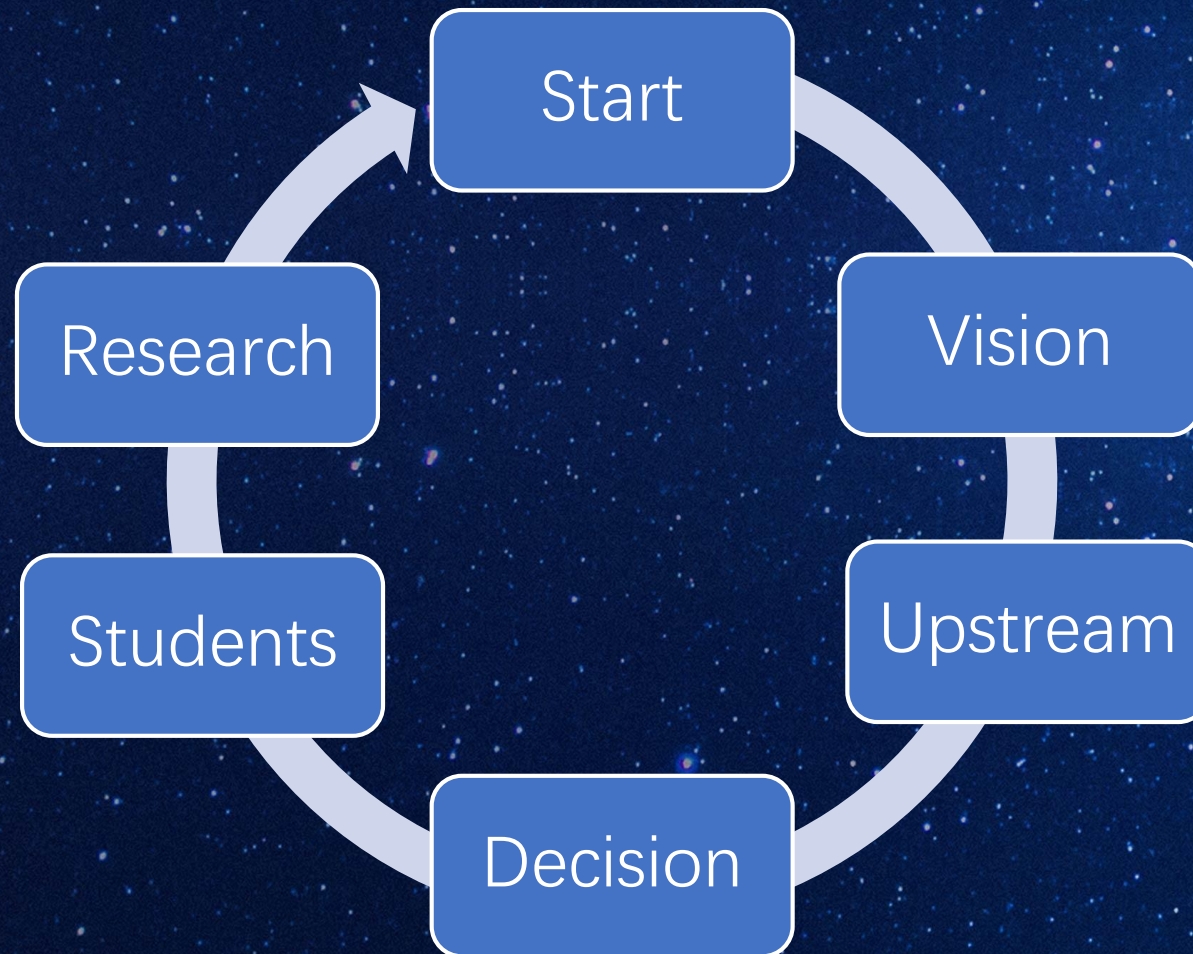


How to build an operating system community for all-scenario solution

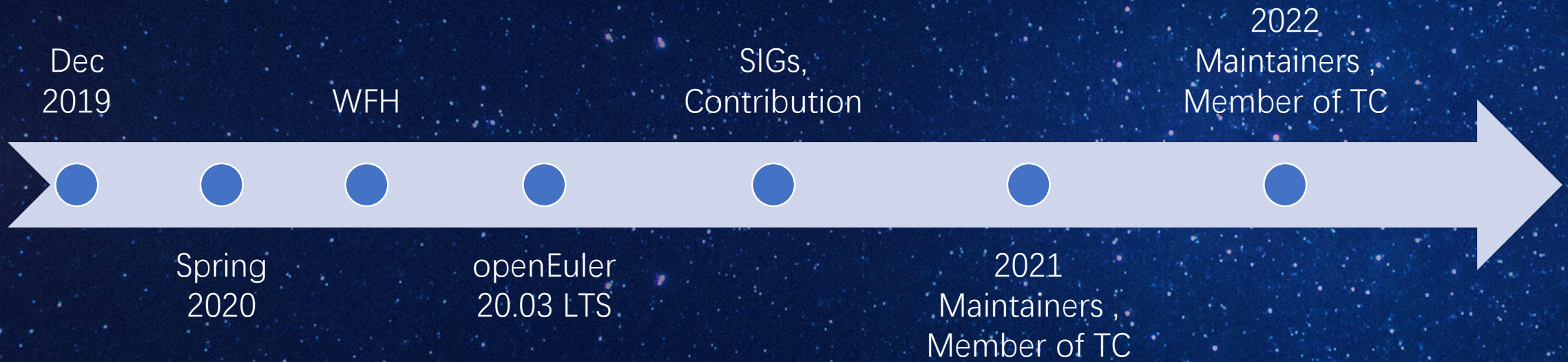
Wang Jianmin (Jimmie)

Member of openEuler Technical Committee, Software Engineer at ISCAS

6 stories: experience in openEuler community



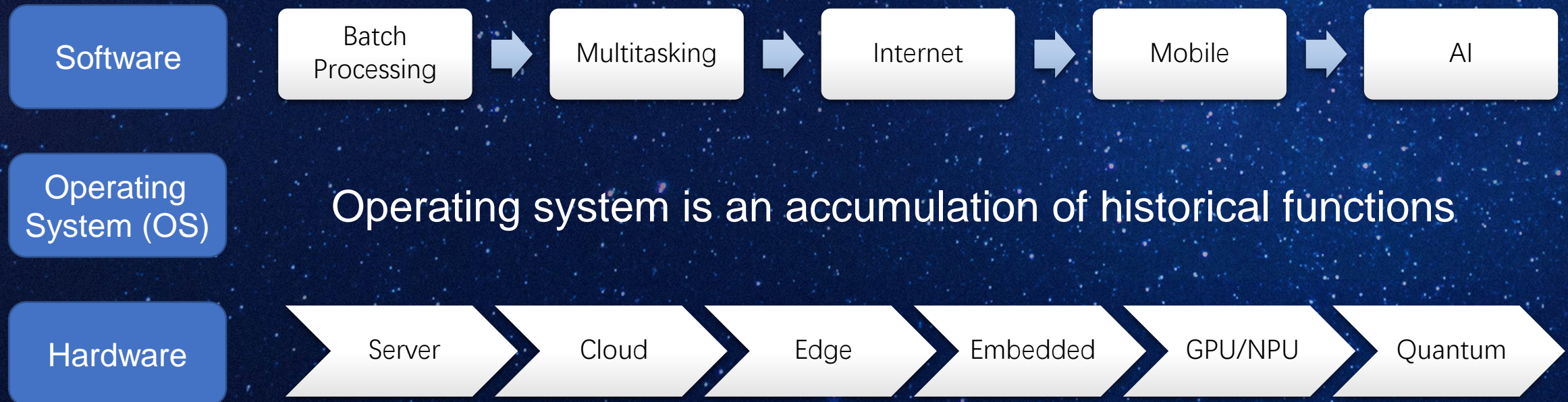
Start: openEuler and me



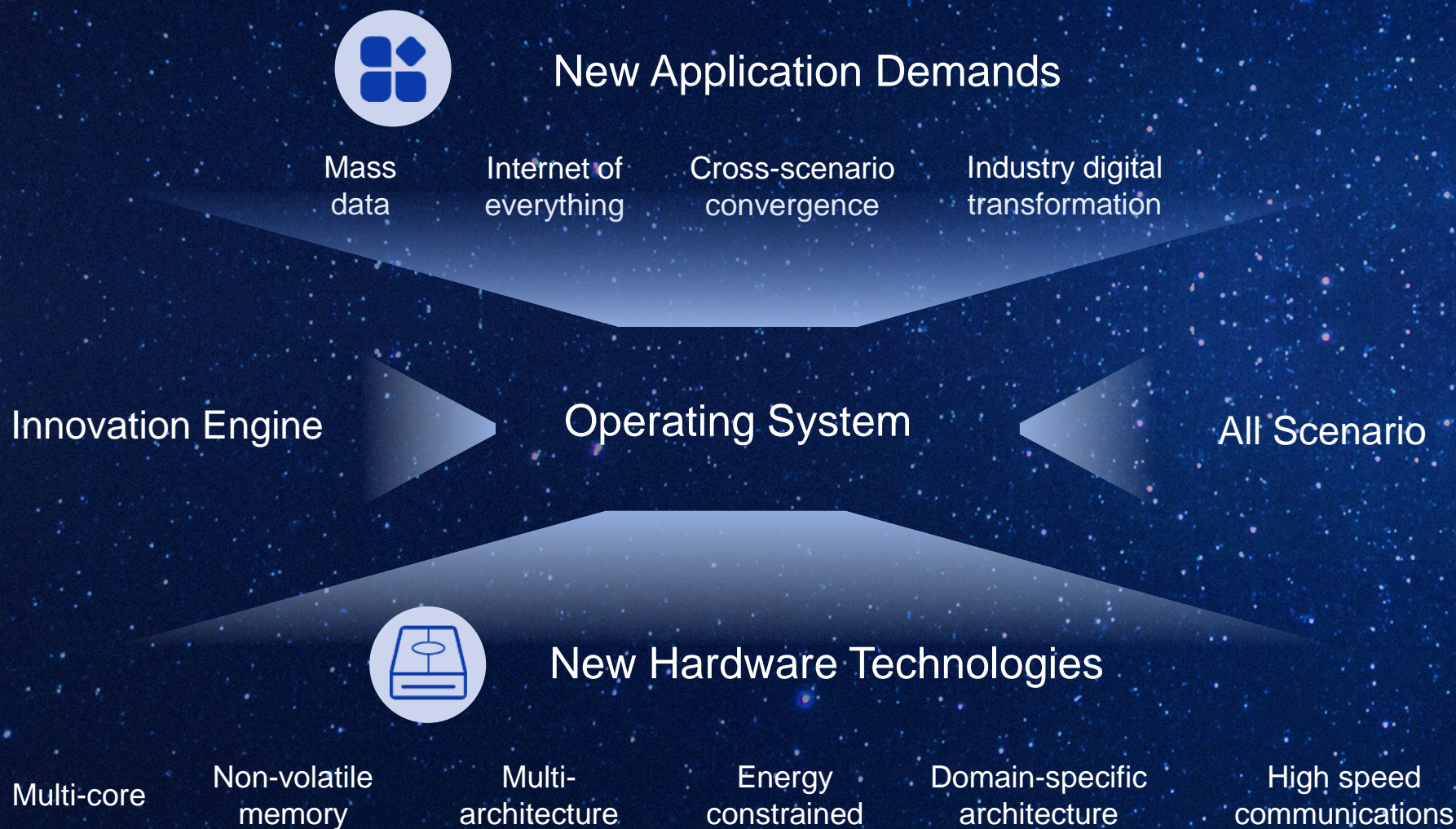
Vision: all-scenario solution



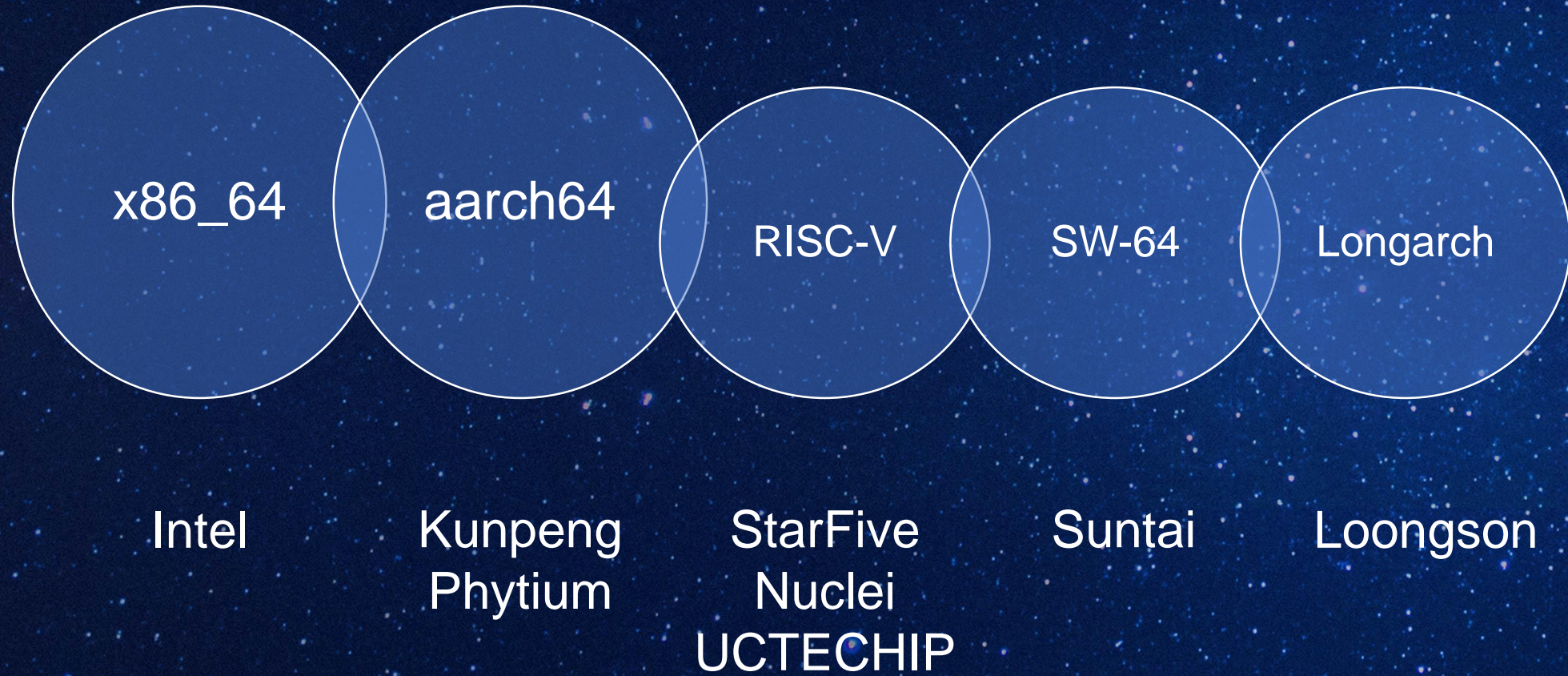
a **reliable** open-source operating system that
unleashes **diversified computing** power for a sustainable future



Vision: Diversified Computing Era Has Arrived



Architecture



Upstream

“**Upstream first**” is the most important principle in openEuler community.

- Dr. Xiong, Member of TC

Contribution

- Kernel SIG
- RISC-V SIG

Integration

- OpenStack and openEuler

Support

- Share resources and program to support upstream community

How to decide Kernel version of next LTS



Communication make openEuler more reliable and sustainable

Engineer-driven innovative project



Engineers create innovations, innovations inspire engineers

Future: for students



Summer of Open Source Promotion Plan

- Founded on 2020, hosted by **ISCAS** and **openEuler**
- Every summer, the program sponsor **students** do contribution for **open source community**
- Is an international Program, both international community and international students.
- Thanks to open source community



Summer-OSPP 2023 is in progress

- 133 community will be supported in 2023



Official Site: <https://summer-ospp.ac.cn/>



124
Community



502
Mentor



449
Project Selected



385
College



915
Student

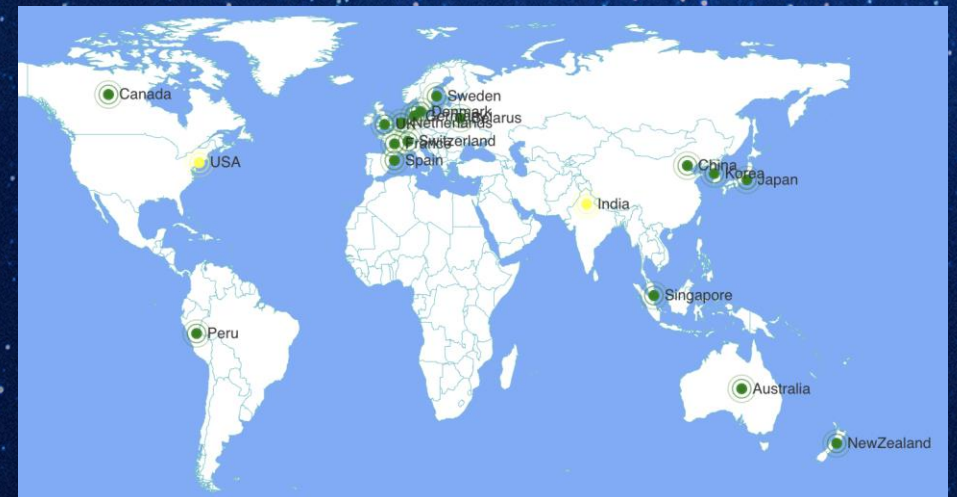


350
Passed Final
Review



19
Countries

Data of Summer-OSPP 2022



Research institute

Why did ISCAS join open source community?

- ISCAS: **Institute of Software Chinese Academy of Sciences**
- Open source has become the cornerstone of software development
- For research
 - Open Source Software Supply Chain Security
 - RISC-V: open standard instruction set architecture
- To promote open source in China



Summer-OSPP

PLCT Team from ISCAS create and maintain openEuler RISC-V Edition, and make 97.2% packages of openEuler 23.03 support RISC-V.

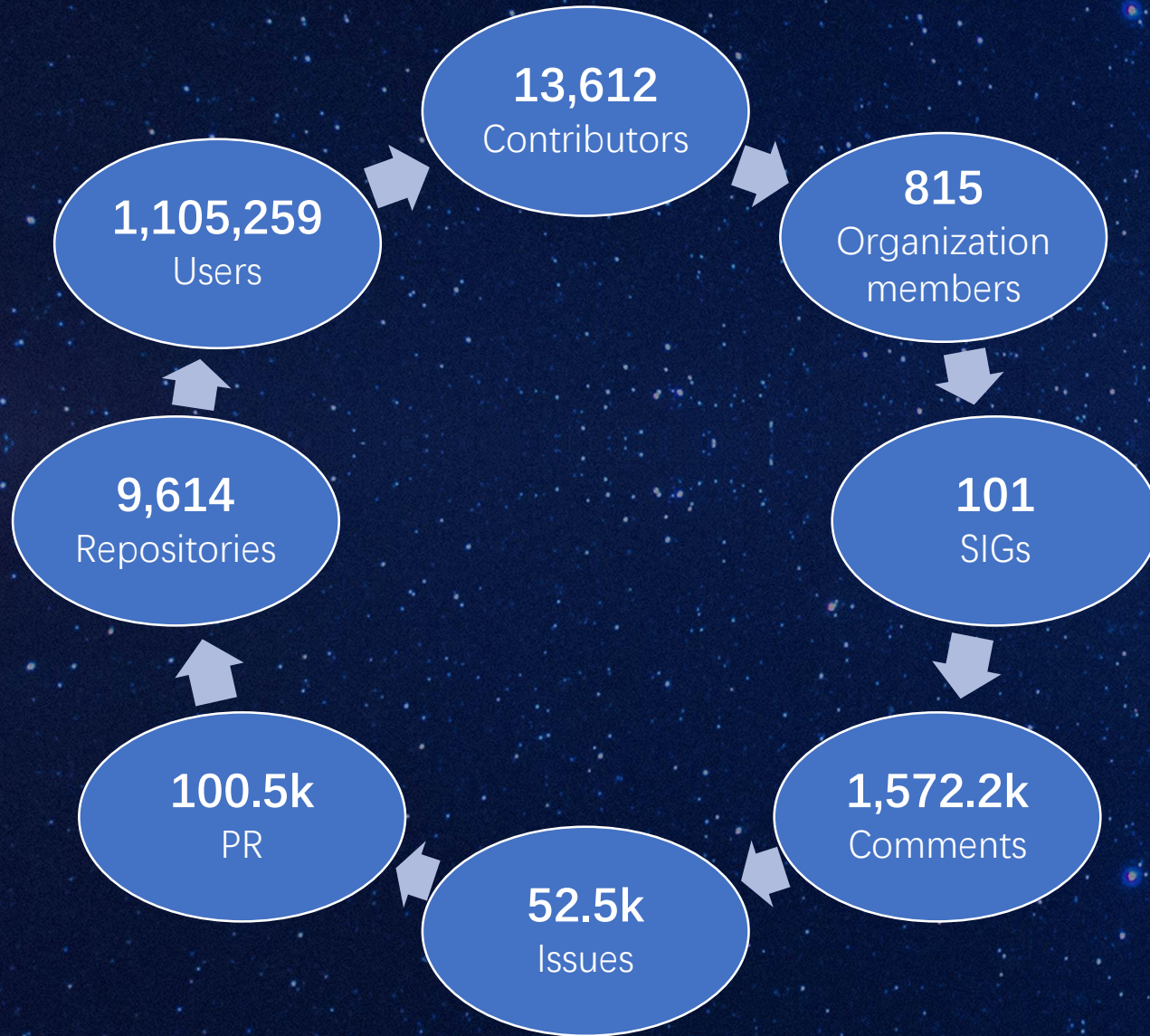
RISC-V SIG finish to add RISCV64GC JIT support to SpiderMonkey, while these patches has been accepted by Mozilla Community on Jan 2023

ISCAS maintain and join many SIGs: RISC-V, ROS, CloudNative, Java, RaspberryPi...

Providing a Vulnerability Detection Service with accuracy of up to 95%, in less than 24 hours.

Providing platform for managing third-party application packages and container images

Numbers about openEuler



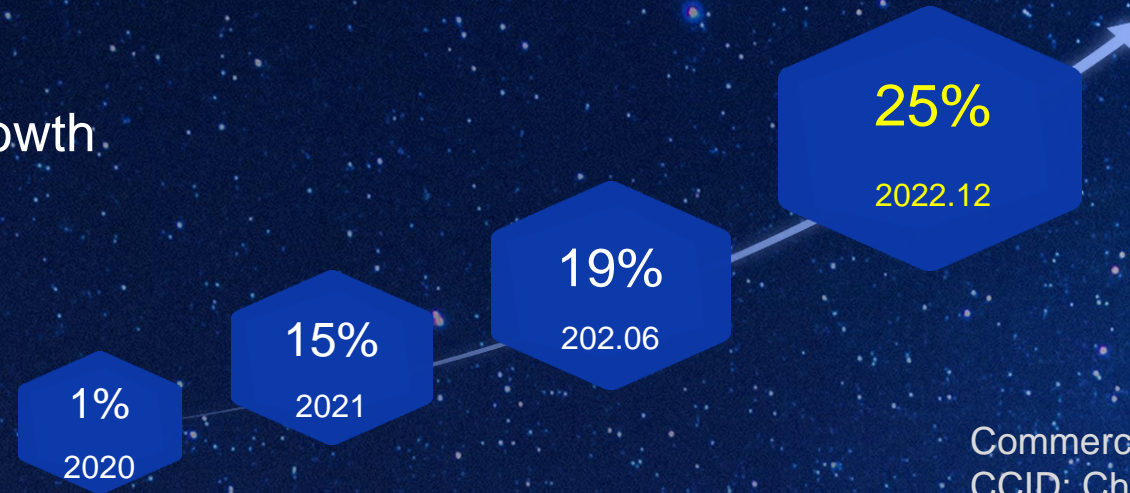
Data source date: 7th Apr 2023

| | | | |
|--------|-------------|------------|-------------|
| TC | Release | QA | Security |
| Infra | Kernel | Compiler | eBPF |
| RISC-V | CloudNative | BigData | DB |
| SDS | AI | A-Tune | Dev-utils |
| G11N | CICD | Compliance | DPU |
| Edge | Embedded | ROS | HPC |
| Java | OpenStack | iSulad | RaspberryPi |
| Rust | Virt | Desktop | ... |

Numbers about openEuler



Business Growth



Commercial installations: 1.7M+
CCID: China OS Market Share Report, 2022 1H



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud/Embedded



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Server/Cloud



Edge



Server/Cloud/Embedded



Server/Cloud



Server/Cloud

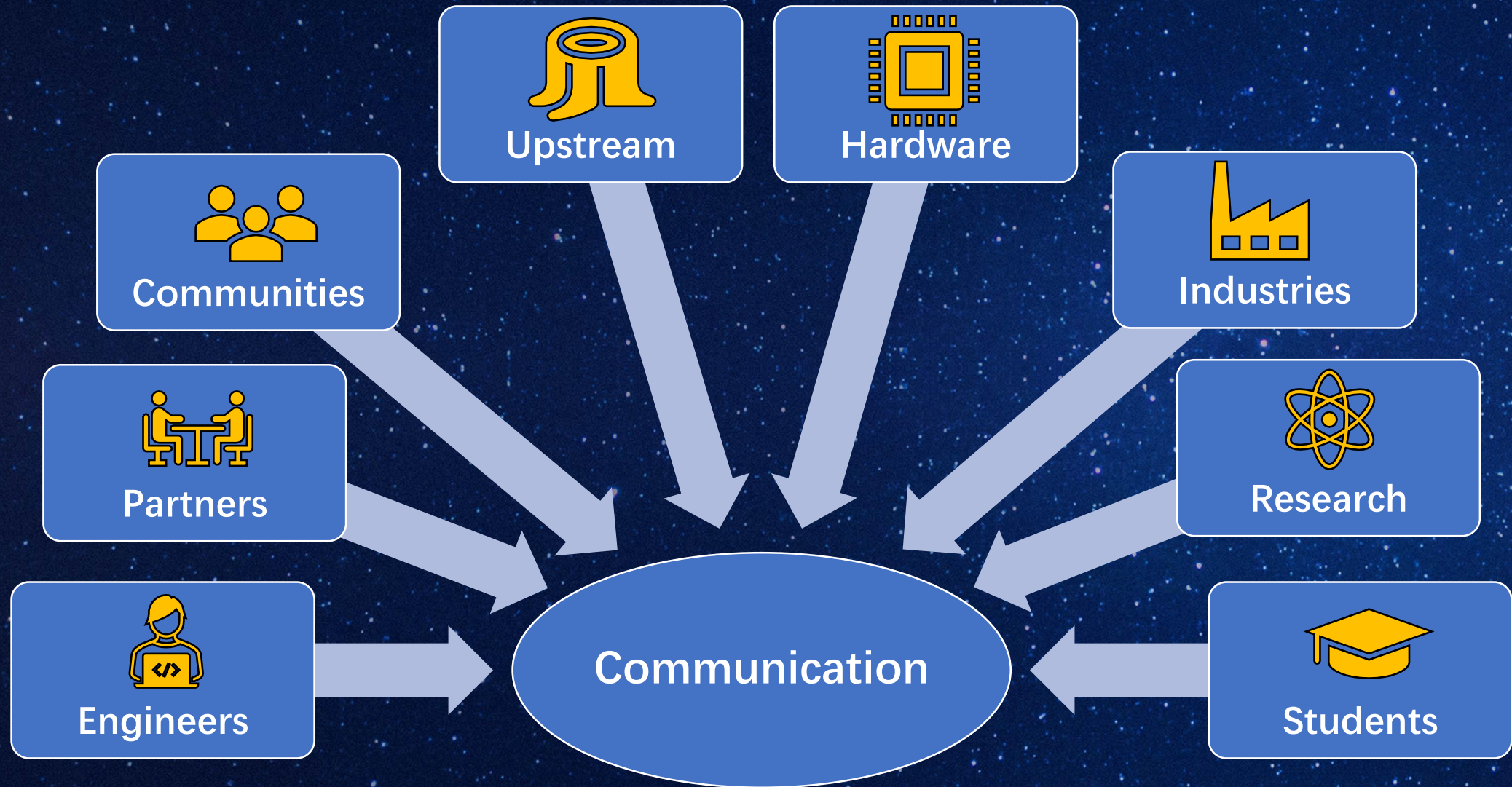


Embedded



Server/Cloud

Catering to All Scenarios with 20+ Distributions



How to build an operating system community for all-scenario solution

Next



13th April 01:40 PM

openEuler: Bringing New Opportunities to the Diversified Computing Era

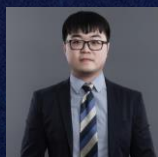
Wei Xiong, TOC Member, OpenAtom Foundation, openEuler Technical Committee



14th April 10:35 AM

Rubik: QoS-Guaranteed CPU Utilization Improvement for Containers

Jingxiao Lu, Principal Engineer, openEuler Community



15th April 01:40 PM

The Cloud-Native Infrastructure Behind the openEuler Community

Sheng Hu, Infrastructure SIG Maintainer, openEuler community



15th April 02:10 PM

A-Tune: An Automatic Performance Tuning Tool Based on AI for Applications on OS

Donghui Chen, Senior Software Engineer, A-Tune SIG Maintainer, openEuler Community



15th April 02:35 PM

sysMaster: Redesigning Process 1 in Rust, Applicable to Containers, VM, PM, and Edge IoT Devices

Jingxiao Lu, Principal Engineer, openEuler Community

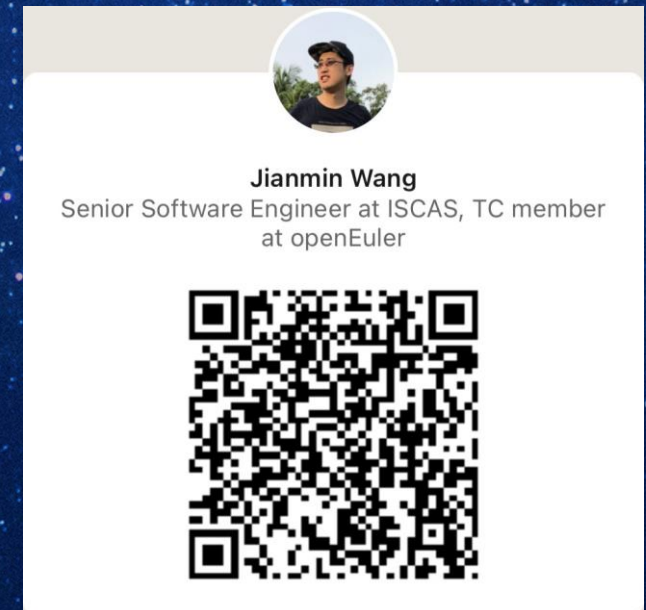
Communicate with openEuler

- Official Website: <https://openeuler.org/>
- Maillist of development: dev@openeuler.org
- Open open online meetings of different SIGs
- Follow [@openeuler](#) on Twitter/Youtube/Linkedin

- Wang Jianmin (Jimmie)
- TC Member in Singapore
- Email: jianmin@iscas.ac.cn

openEuler in Singapore in 2023

- Establish local group
- Participate in technology events
- Collaborate with local community





May the force of open source be with us