

Speakers



Marc Meunier, ARM

- Sr. Manager, SW Ecosystem Development Infrastructure team
- Manage projects that expand cloud native development on Arm
- Promoting engagement with PARSEC, a CNCF sandbox project
- Working with ISVs at the crossroad of uCPE and Containers





Darragh Grealish, 56K.Cloud

- Co-Founder of 56K.Cloud an AWS Partner
- Part of the "Arm Innovator Program"
- DevOps Focused Engineer (culture and process)
- Networking and Cloud Applications
- · Background in Telco Infra Automation and Testing
- Embedded Systems and Software Engineering Background







Who is Arm and what do we do?

- Develops chip architecture and licenses IP cores to Silicon companies.
- Can be found everywhere from Datacenters, 5G, IoT, personal computer, mobile devices and embedded devices.

#1 Super Computer 2020 from Fugaku is based on Arm



Cloud Native Disruption

CLOUD NATIVE COMPUTING FOUNDATION PLATINUM MEMBER

4.7 million

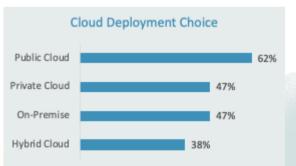
CLOUD NATIVE
DEVELOPERS
GLOBALLY

60%

DEVELOPERS

ARE USING

which is the best of the b







Arm promotes standards and OSS

Focus on Security





PARSEC: Platform Abstraction For Security

Any Workload, Any Programming Language, Any Container Runtime, Any Packaging





Any Platform, Any Architecture, Any Hardware

Discrete TPM

Firmware TPM

Local HSM

Remote HSM

Trusted Apps

Custom





Container Runtime Environments

- Arm and Partners contributing to major container runtimes
 - Support community efforts for continuous integration on Arm
 - Engage with developer community and upstream reviews
 - Assess performance on Arm platforms
- Participate in CNCF SIG Runtime
 - Roadmap discussions and engaging with new projects



























Cloud connection.

- Storage mechanism:
 - Projects to highlight.

- Ceph. Linux foundation related.
- Promote Ceph page: infrastructure under workloads....



Kubernetes? Anything else.



- We have a Kubernetes page. Under containers and Virtualization.
- Project Cassini and working groups.

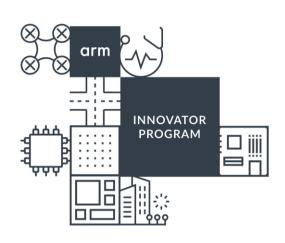


Arm Innovator program...



- Identify and Promote key Developers
- Unique access to Arm roadmap & development environments
- Identify and fill gaps in the Arm ecosystem
- Arm Innovation Coffee (live stream): bit.ly/armswdev-youtube
- Check out the Community Discord server: https://discord.gg/deveco

https://www.arm.com/why-arm/innovation/innovator-program

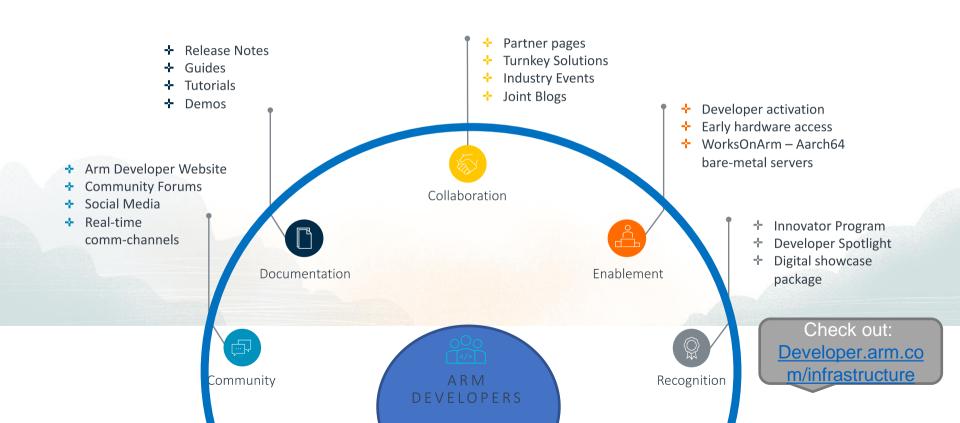




Arm Developer Program



Grow Arm Ecosystem, Strengthen Relationships, Unite Arm Developer Communities





🛂 🚥 Use Case: Multi-Vendor Implementation 「 📊

- You build services that has applications across Sensors and Hosted in the cloud,
- Edge edge application requires security,
- You use Parsec client, as a way implement once across your array of devices the security features,
- E.g user data and data stored is encrypted per PSA requirements, but only once by the developer using Parsec client library
- Demo: Example in RUST using the WIRE Protocol



56k CLOUD Parsec Demo



Explain Setup

Explain Objective



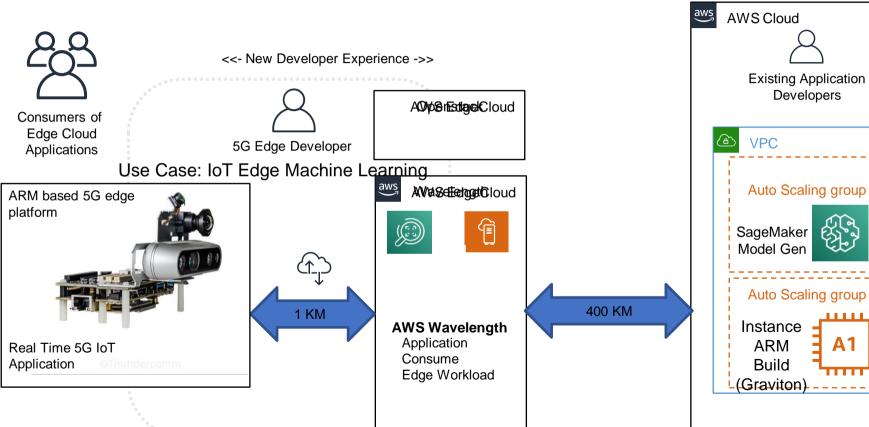


What problem do we need solved?

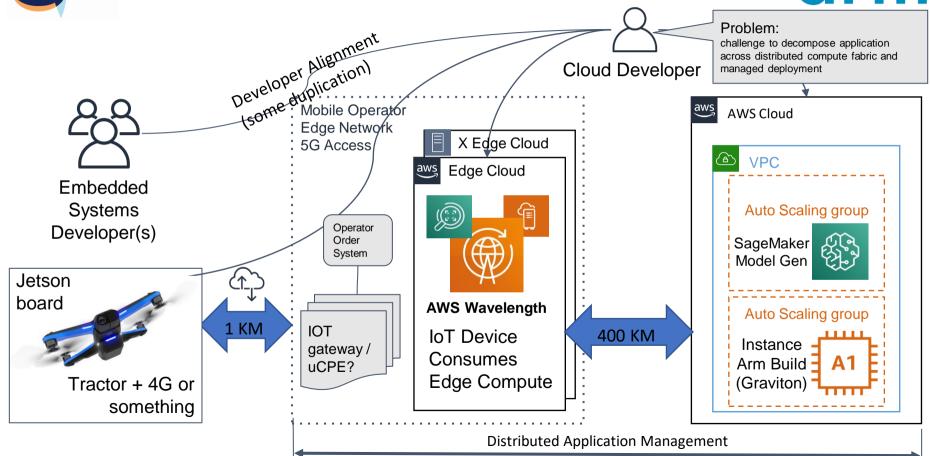
- A Single Developer Experience; across "5G Edge Cloud, Edge and IoT"
- Develop new interfaces, tools and abstractions to define and manage heterogeneous, distributed 5G applications
 - Native Workloads will be programmed across, on IoT device, with near-real time functions offloaded to an "edge compute"
 - Slice Management must become dynamic and demand based
- Enable true "Edge compute" to be accessible, and reduce barrier to entry (developer onboarding)
- Set a standard in provisioning, declaring infrastructure (compute, slice etc..).
- Support Platform to build "parsec providers" such as, Rpi, Jetson, Linardo



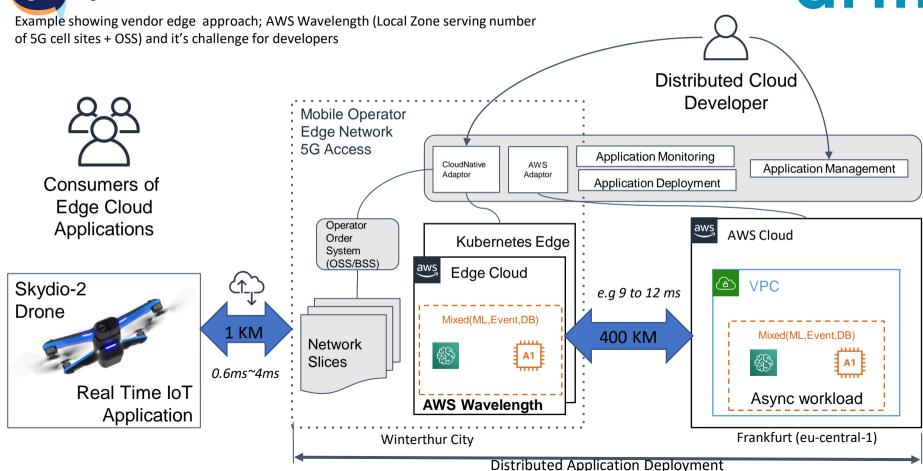




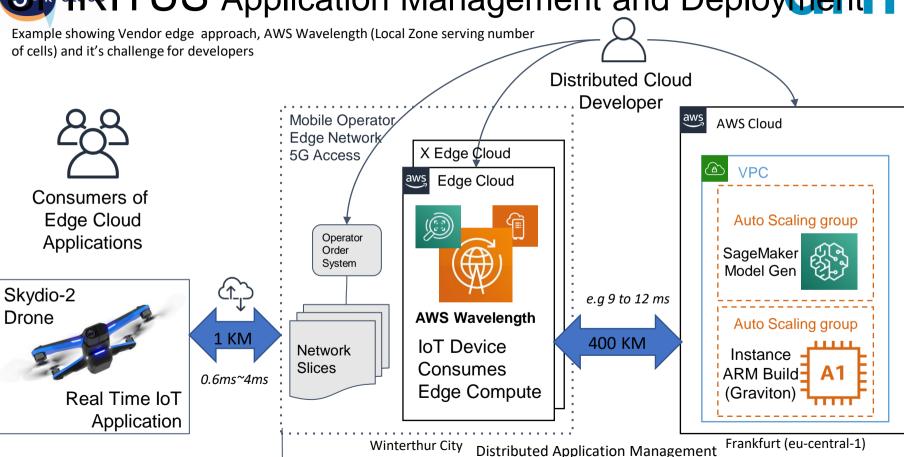
Replication Management and Deployment rm



deep-dive Application Management and Deployment



RITUS Application Management and Deployment





Solution Key Take Aways









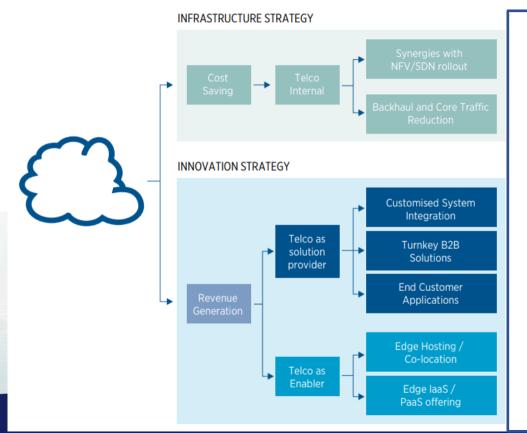
Ask us questions...







arm



Developer Experience