



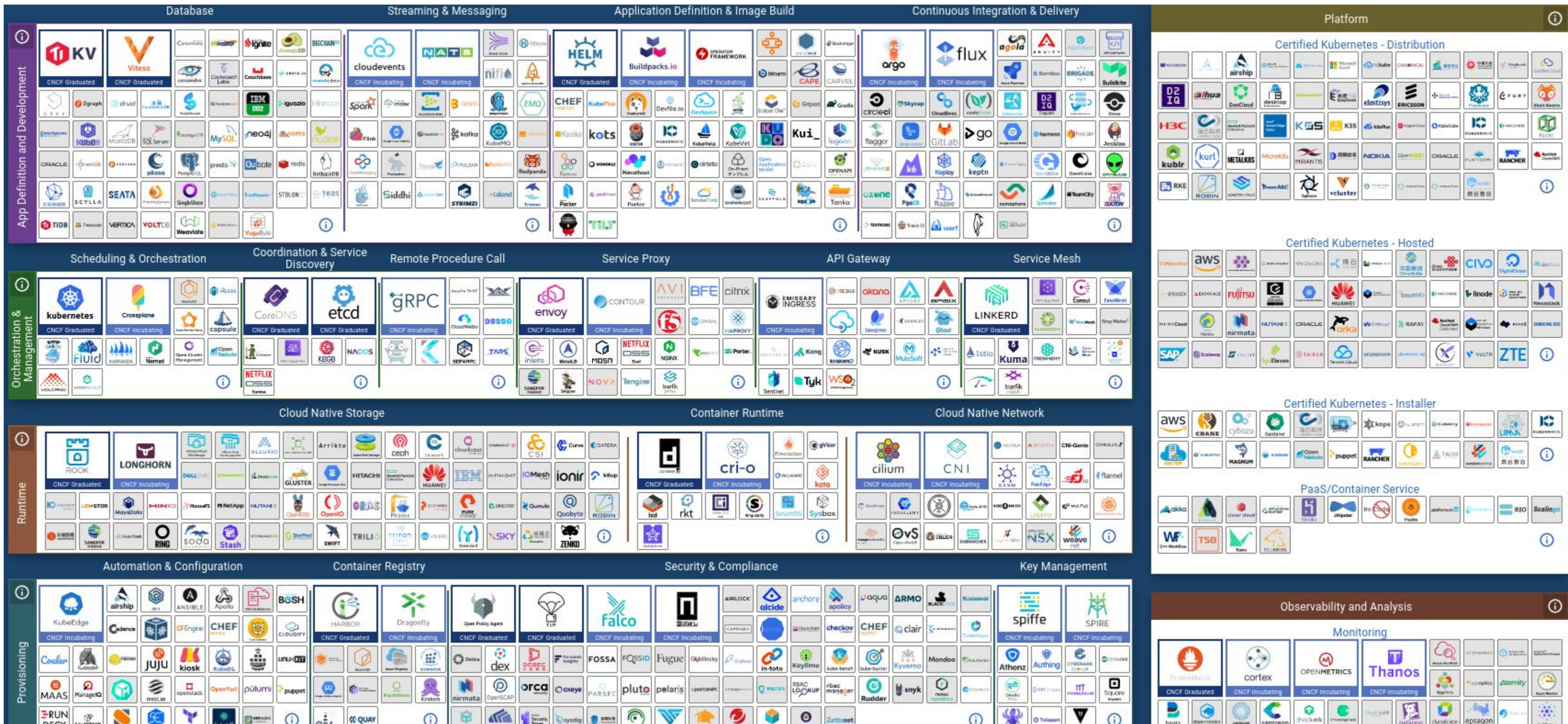
Kris Buytaert  
@krisbuytaert

# Nomad, your lightweight container Orchestration platform

# Who am I ?

- I used to be a developer
- Then I became an Ops person
- Chief Trolling/Travel/Technical Officer @ [Inuits.eu](https://inuits.eu)
- Everything is a Freaking DNS Problem
- DNS : devops needs sushi
- Buiding Clouds since before the Bookstore
- Organiser of #devopsdays, #cfgmngmtcamp, #loadays, ...

# K8s ecosystem

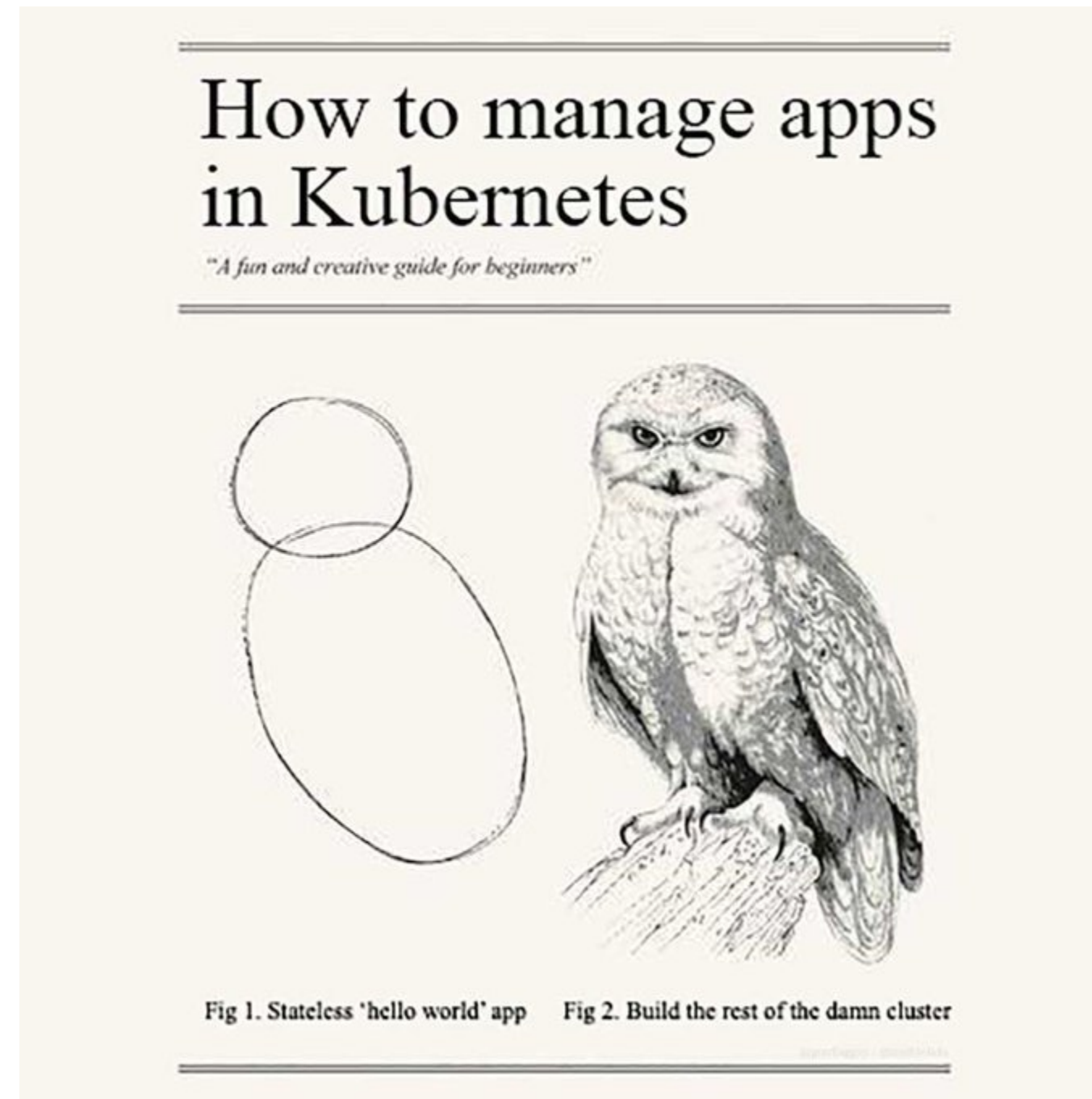


# On premise deployment

- Kubespray
- Rancher
- OpenShift
- Roll your own
- ...

Most orgs don't stick with the setup they started with

# Typical Kubernetes deployment



# How many clusters

- You need to test your cluster configurations
- Service Mesh / CNI variants
- Can you live with the SPOF ?
- Often multiple clusters per team

# Cargo Culting

Probably < 10% of our industry has a real use case  
If you are in that 10% K8s is AWESOME  
If you are not "Friends don't let friends run kubernetes"

Even though it is a huge Consulting opportunity, we advise against.

# YAGNI

- Statefull containers
- Complex deployment strategies
- Additional network complexity

# What do you really need ?

A way to trivially deploy stateless containers consuming external databases and object storage in a scalable fashion on multiple servers.



# Nomad

## SIMPLICITY

- single binary
- YAML configuration file
- default distributed, high available and simple operationally
- yet much simpler architecture with same functionality

# Workload

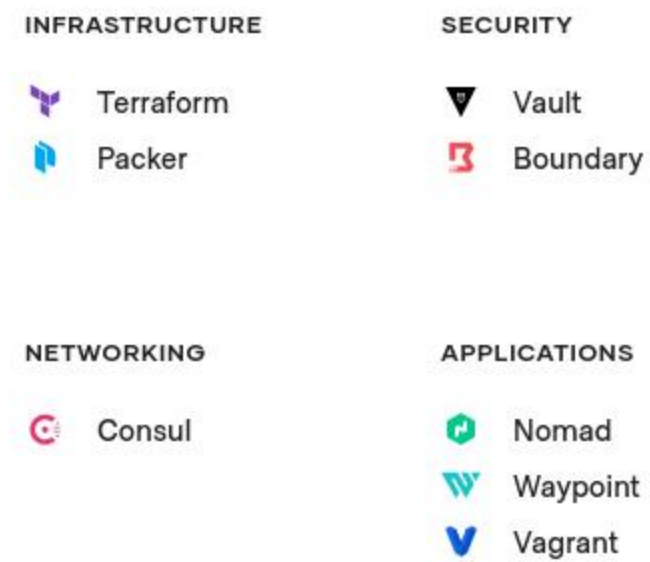
- docker
- java
- Qemu
- raw
- ...

# Scalability

- single binary being it locally, cloud, on-prem, prod..
- multi availability zones, regions and datacenters in a single cluster or multiple ones

# HashiCorp

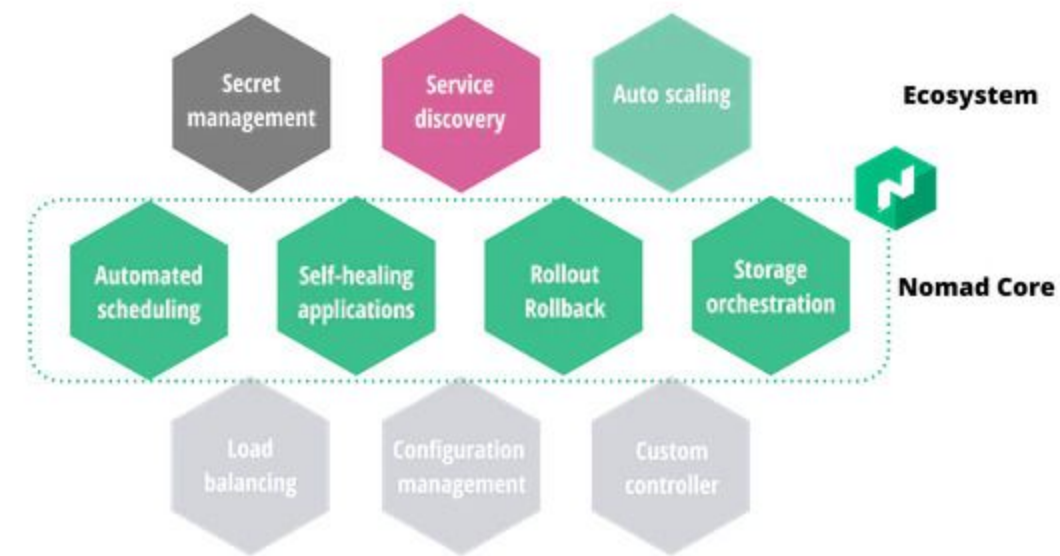
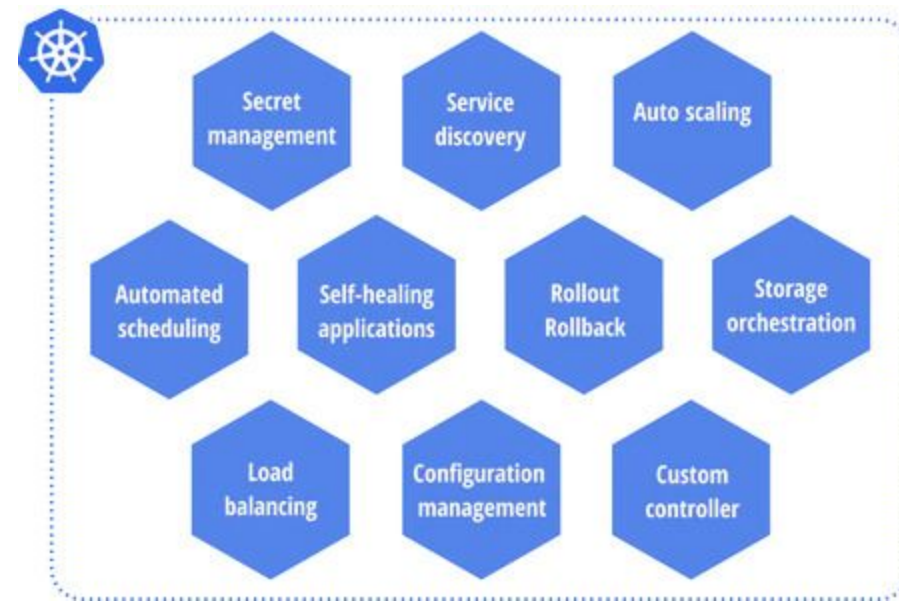
- Seamlessly integration within the HashiCorp ecosystem (which you also might want/need to use in your K8s anyhow)



# Consul

- Service discovery
- Dynamic configuration for other tools like prometheus, traefik, ...

# comparison?



# Other alternatives


- Cloud provided K8s
- Minikube, K3s (not for production)
- Docker Swarm

some lightweight implementations don't always cover the full feature set, with the pitfall of configuration inconsistencies when going to production

# Summary

Ask your doctor if K8s is good for you.

# BossMode

**kubernietes**

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### Popular repositories

**nomad** Public  
Forked from hashicorp/nomad  

Nomad is an easy-to-use, flexible, and performant workload orchestrator that can deploy a mix of microservice, batch, containerized, and non-containerized applications. Nomad is easy to operate and...

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**consul** Public  
Forked from hashicorp/consul  

Consul is a distributed, highly available, and data center aware solution to connect and configure applications across dynamic, distributed infrastructure.

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**vault** Public  
Forked from hashicorp/vault  

A tool for secrets management, encryption as a service, and privileged access management

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**traefik** Public  
Forked from traefik/traefik  

The Cloud Native Application Proxy

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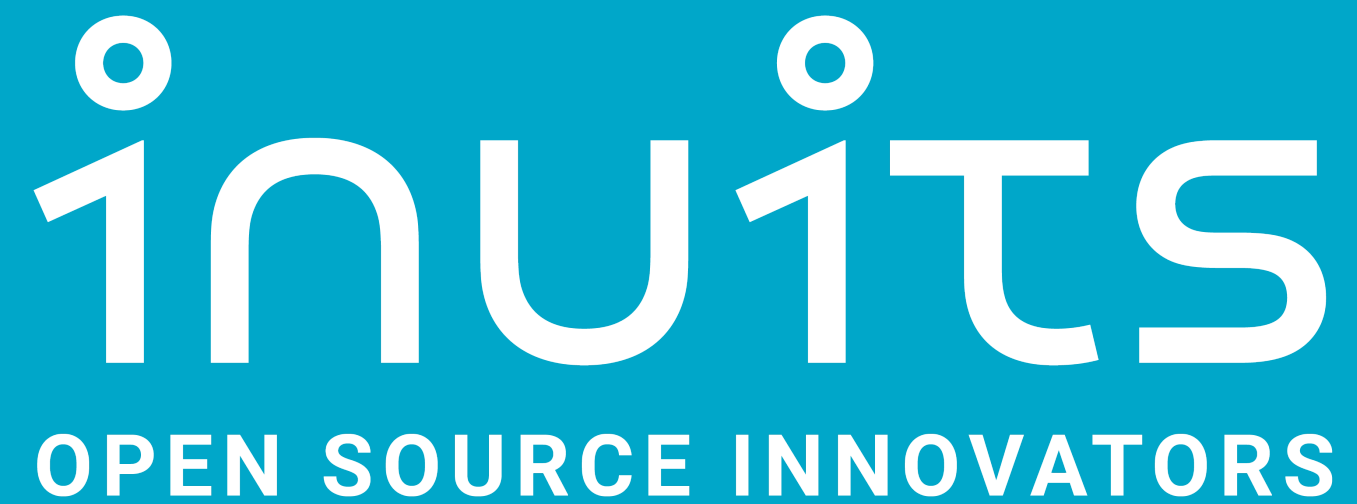
### People

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