



HANU Open Infrastructure프로젝트

Treat Your Infrastructure Like Cloud Native Apps

안재석

5GX Cloud Labs, SK Telecom

HANU (HAm Gye NUrim; 함께 누림) 프로젝트 <https://github.com/openinfra/dev>

HANU 프로젝트는 오픈 인프라스럭처와 관련된 오픈소스 소프트웨어 기술들을 모아서 제공하고, 이를 기반으로 커뮤니티를 구성하고 확산시키기 위한 공간입니다.

현재는 두 가지 프로젝트들을 호스팅 하여 런칭 준비를 하고 있습니다

- TACO (SKT All Container Orchestrator) 이름은 변경 예정
- DECAPOD (DEClarative APplication Orchestration & Delivery)



01

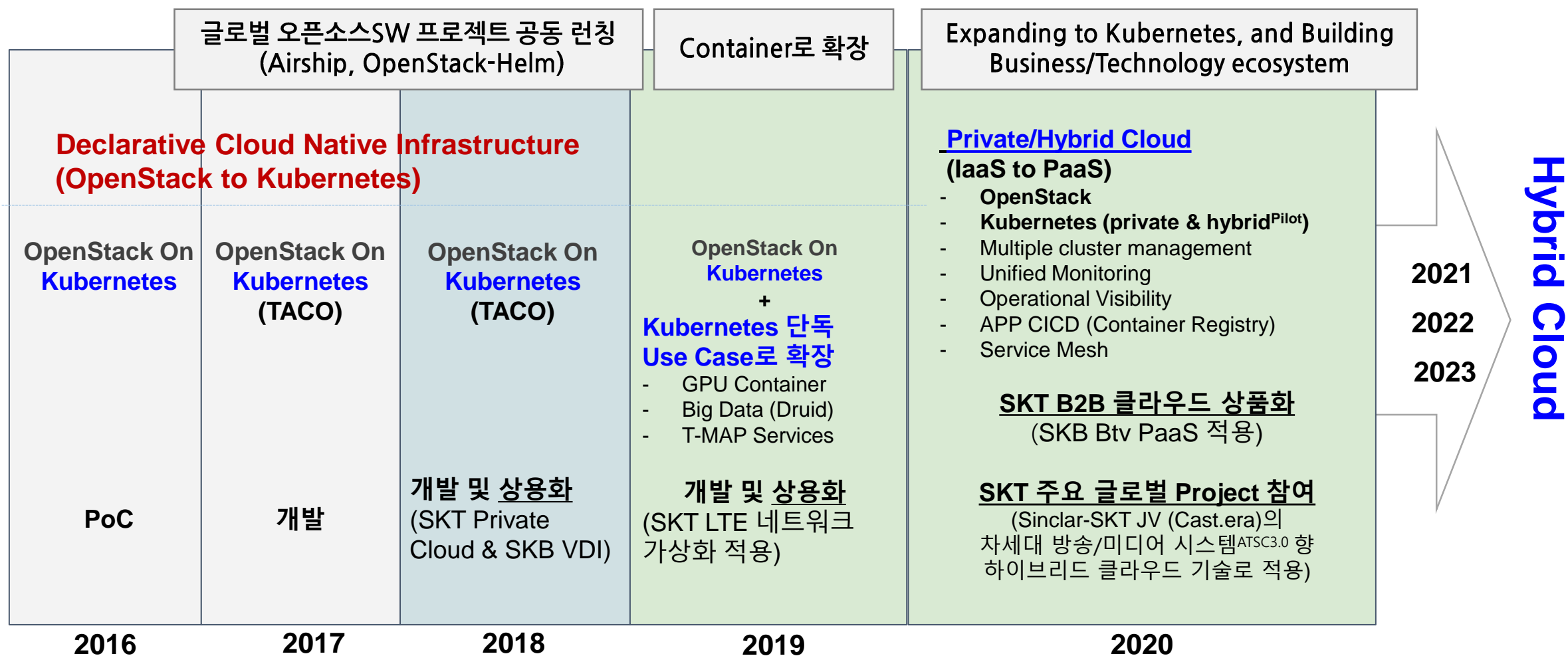
TACO & Decapod - Containerized OpenStack & Kubernetes Platform

02

SK Broadband Btv PaaS Use Case

TACO Project History

(Kubernetes-based Cloud Native Infrastructure Technology)

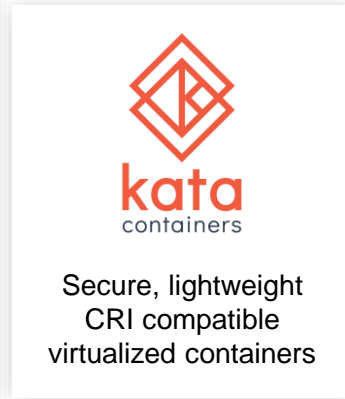


오픈소스 소프트웨어 in TACO

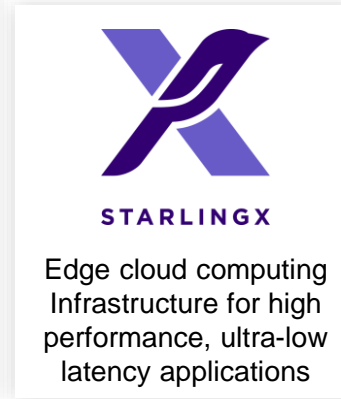
Open Infrastructure Foundation



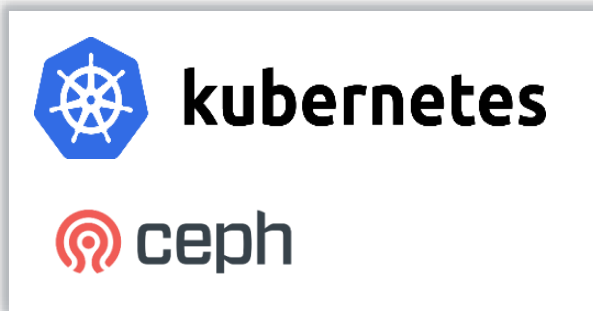
SKT Co-Founded
(TACO Development)



SKT Participated
(TACO Development)

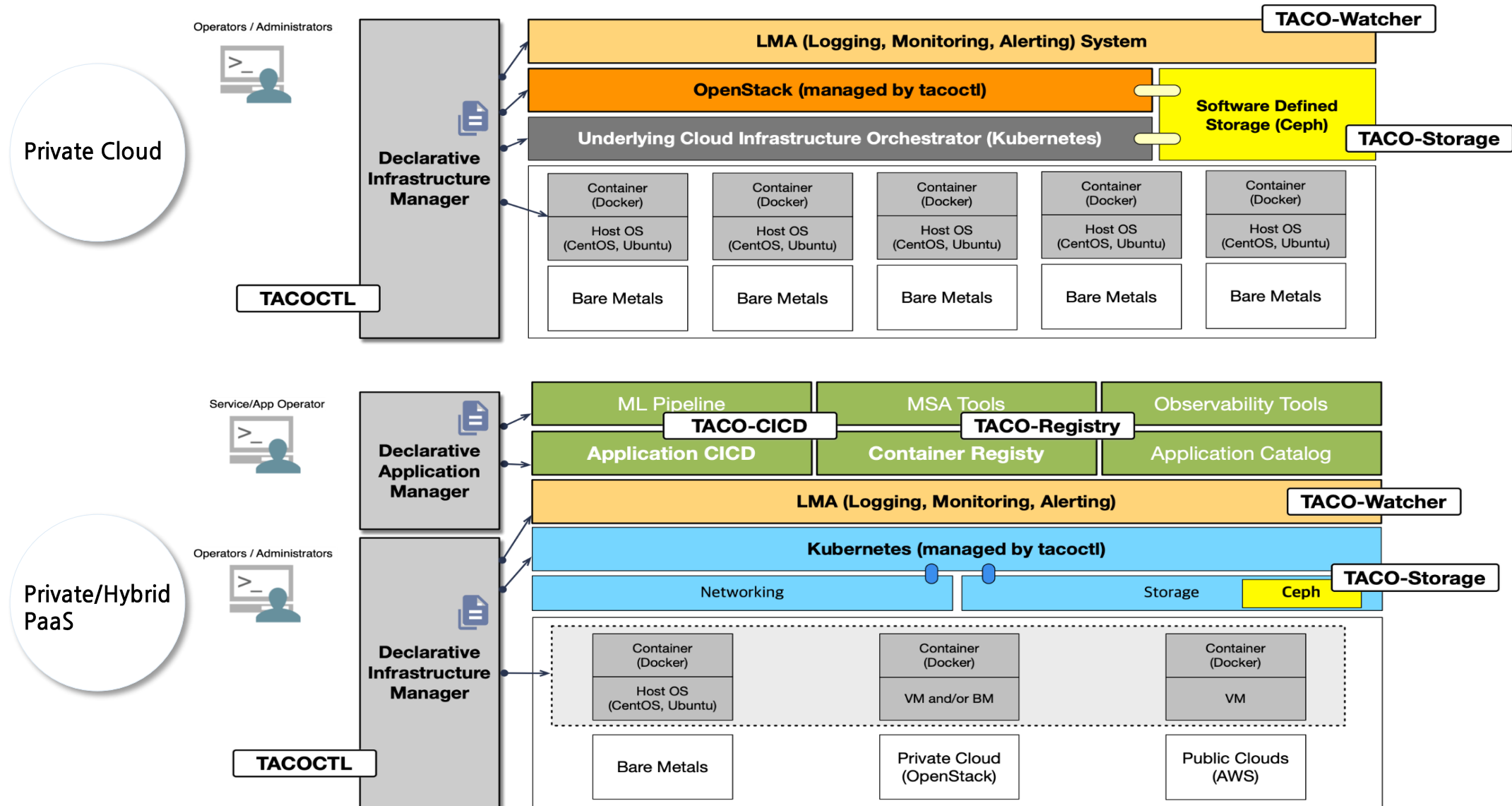


Cloud Native Computing Foundation & Linux Foundation + More

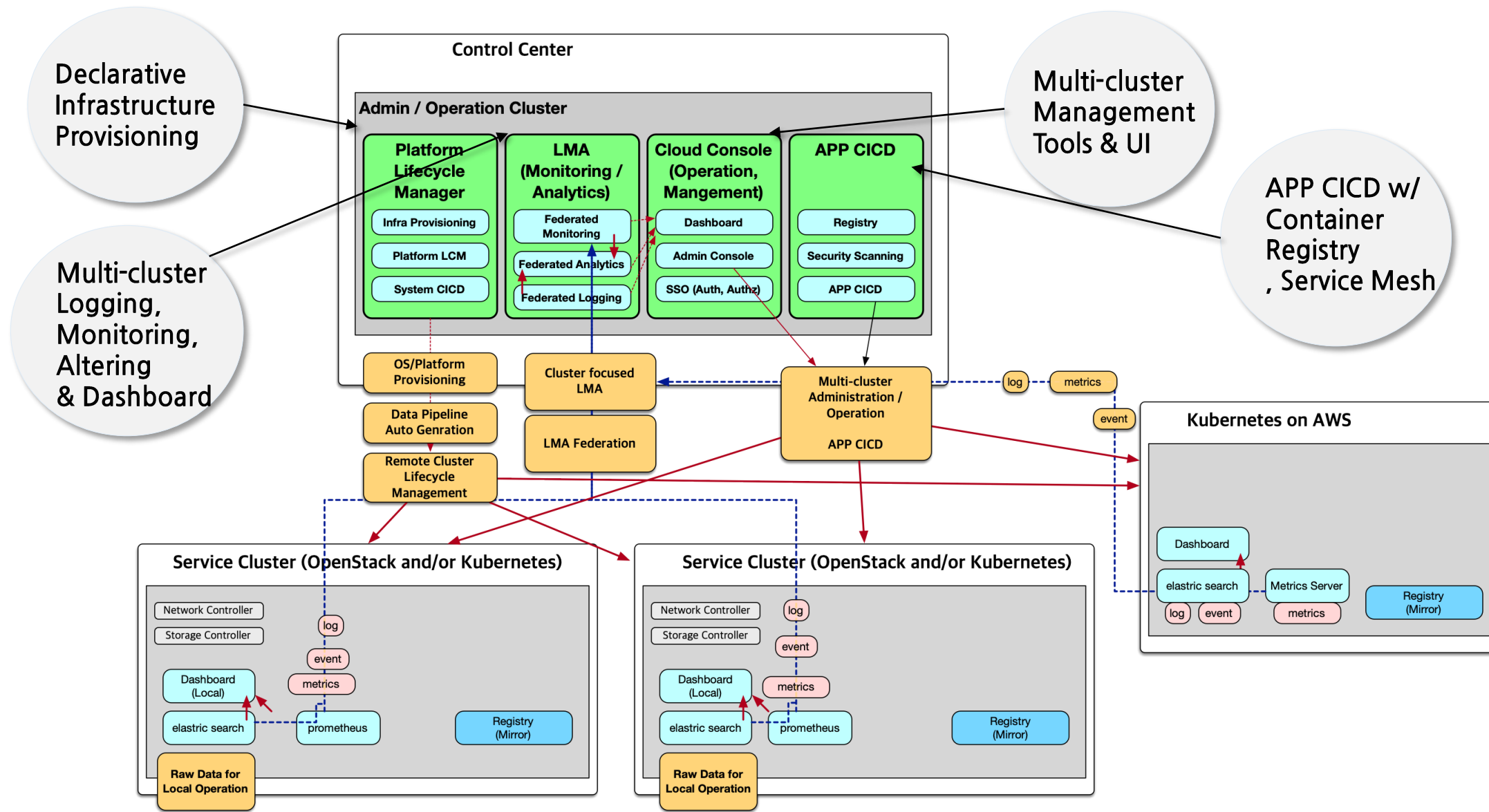


Prometheus, Grafana, Elastic Search, Kibana, Fluentbit, etc
Istio, Argo, Helm, Helm Operator, Kustomize, etc
Terraform, Kubernetes Cluster-API, Ansible, Kubespray, etc

TACO 아키텍처 (from Private to Hybrid)

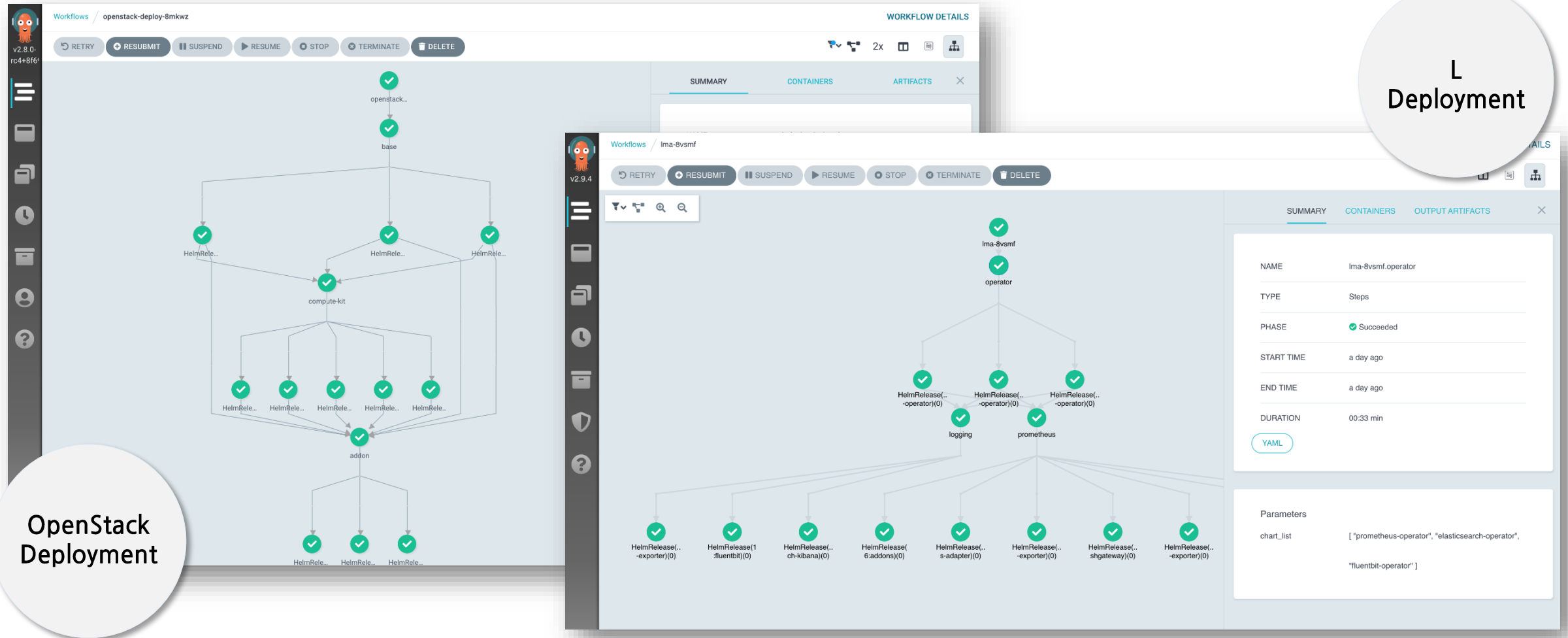


TACO: Multi-cluster Management Architecture



DECAPOD: Declarative App/System Deployment

Kustomize + Helm Operator + Argo based Gitops-based Declarative APP CD



DECAPOD in Action (Online Demo)

<https://www.youtube.com/watch?v=VMhrrL-MgzI>



01

TACO & Decapod - Containerized OpenStack & Kubernetes Platform



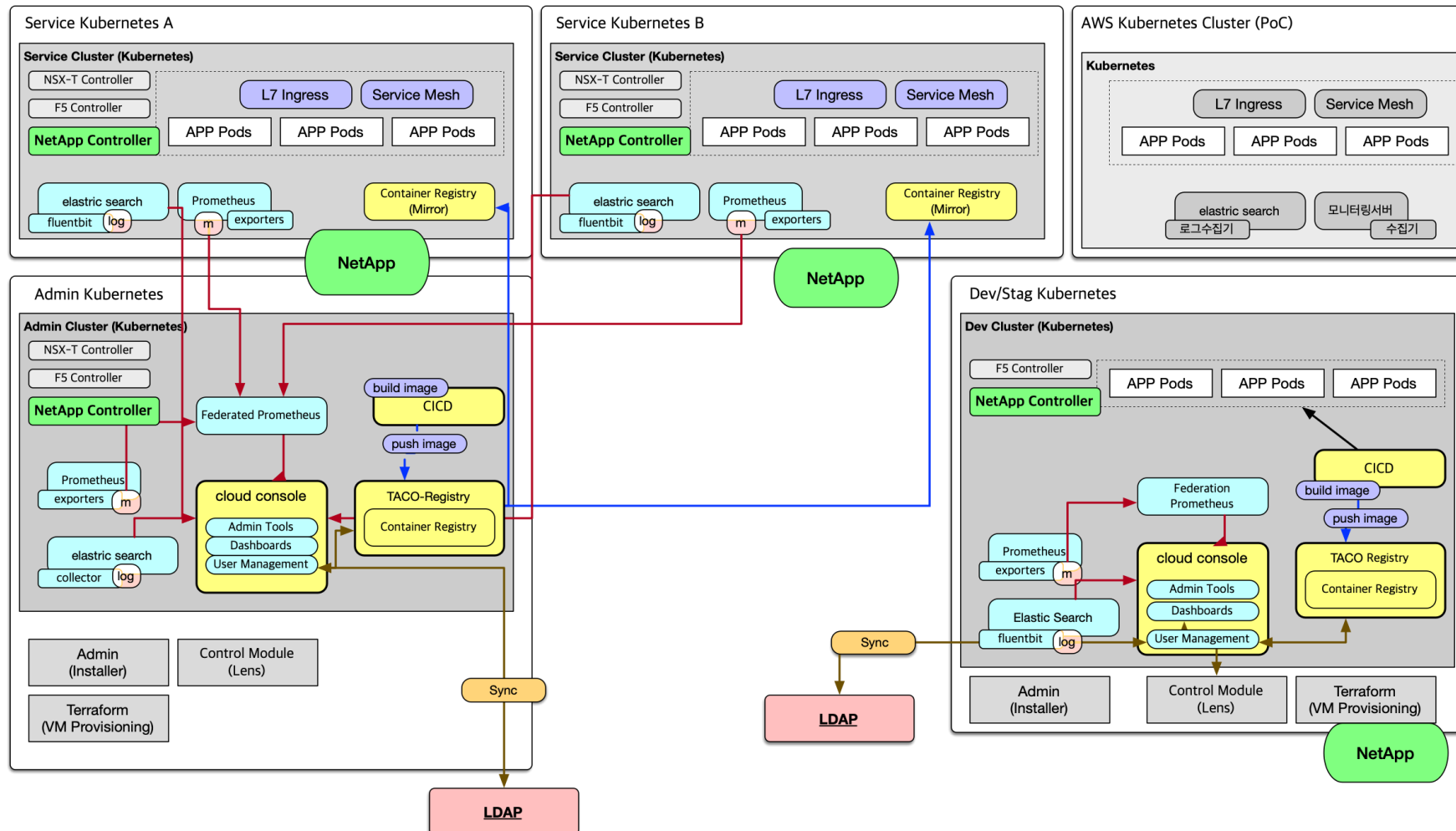
02

SK Broadband Btv PaaS Use Case



SKT Btv Next PaaS: Multi, Hybrid Kubernetes

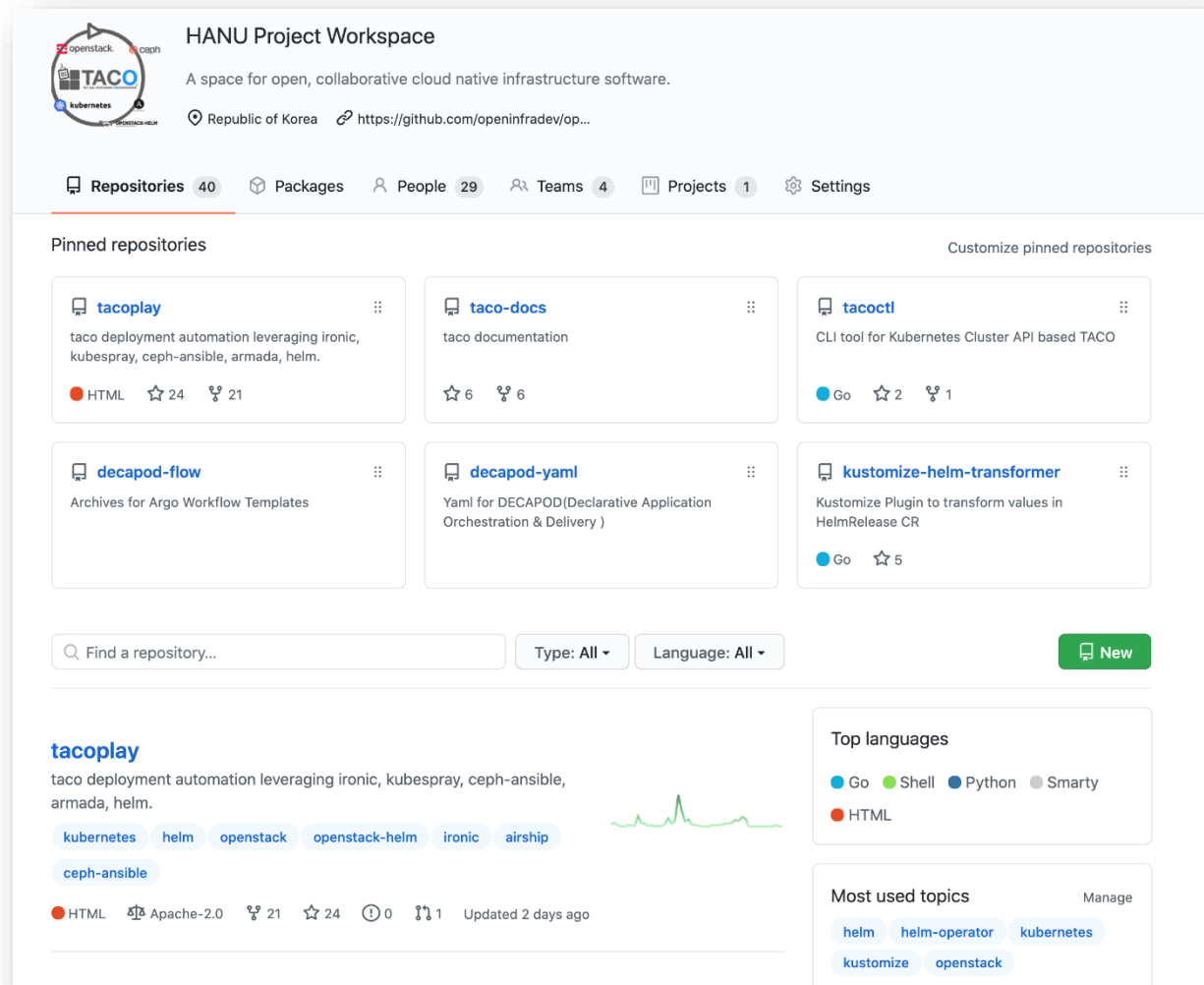
6 Kubernetes Clusters (3x 상용, 2x Dev/Stag, 1x Pilot on AWS) to run Key Services (WebUI, Metv, Scs) of SK Broadband Btv (IPTV offering)



Cluster Structure

- **Admin Cluster:** Multi Cluster Management
- **Service Cluster:** Application

Open Sourcing TACO, Decapod, etc under HANU Project



<https://github.com/openinfra/dev>

- Planning to launch on Nov. 2020
- Forming initial ecosystem inside Korea



감사합니다

SK텔레콤 5GX Cloud Labs

