

HYBRID CLOUD CONTAINER PLATFORM

LA TERZA GENERAZIONE DELLA PIATTAFORMA IBRIDA E FULL
STACK AUTOMATED DI POSTE ITALIANE

Posteitaliane

I NOSTRI CONTATTI



Posteitaliane



Pierluigi Sforza

Cloud Adoption and Technology
Architecture

✉ pierluigi.sforza@posteitaliane.it

[in https://linkedin.com/in/pierluigi-sforza-b768633](https://linkedin.com/in/pierluigi-sforza-b768633)



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Giuseppe Brindisi

Head of Hybrid Cloud Engineering

✉ Giuseppe.brindisi@posteitaliane.it

[in https://www.linkedin.com/in/brindisig](https://www.linkedin.com/in/brindisig)



Matteo Bernacchi

Solution Architect

✉ mbernacc@redhat.com

[in https://www.linkedin.com/in/traktopel](https://www.linkedin.com/in/traktopel)

113 mln di pacchi
2017 (+12.6%)

CONSEGNA
24-72 ore

A historical photograph of a large computer room, likely from the mid-20th century. The room is filled with rows of large, dark-colored computer cabinets and racks. Several people, mostly men in light-colored shirts, are working on the machines. Some are standing and looking at the equipment, while others are sitting at desks. The room has a high ceiling and a brick wall in the background. The overall atmosphere is one of a busy, early computer processing center.

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2017
1 VM 12 RISORSE

CONSEGNA
4 GIORNI

PuntoPoste

PER RICEVERE E INVIARE
I TUOI PACCHI.

CLICK

Posteitaliane

1. COMPRA ONLINE

2. INSERISCI IL CODICE

3. LO SPORTELLLO SI APRE

Per maggiori informazioni
vai sul sito [puntoposte.it](https://www.puntoposte.it)



IL TUO ACQUISTO ONLINE
TI ASPETTA QUI.

RITIRALO QUANDO
TI È PIÙ COMODO.



con i pacchi siamo arrivati 210 mln

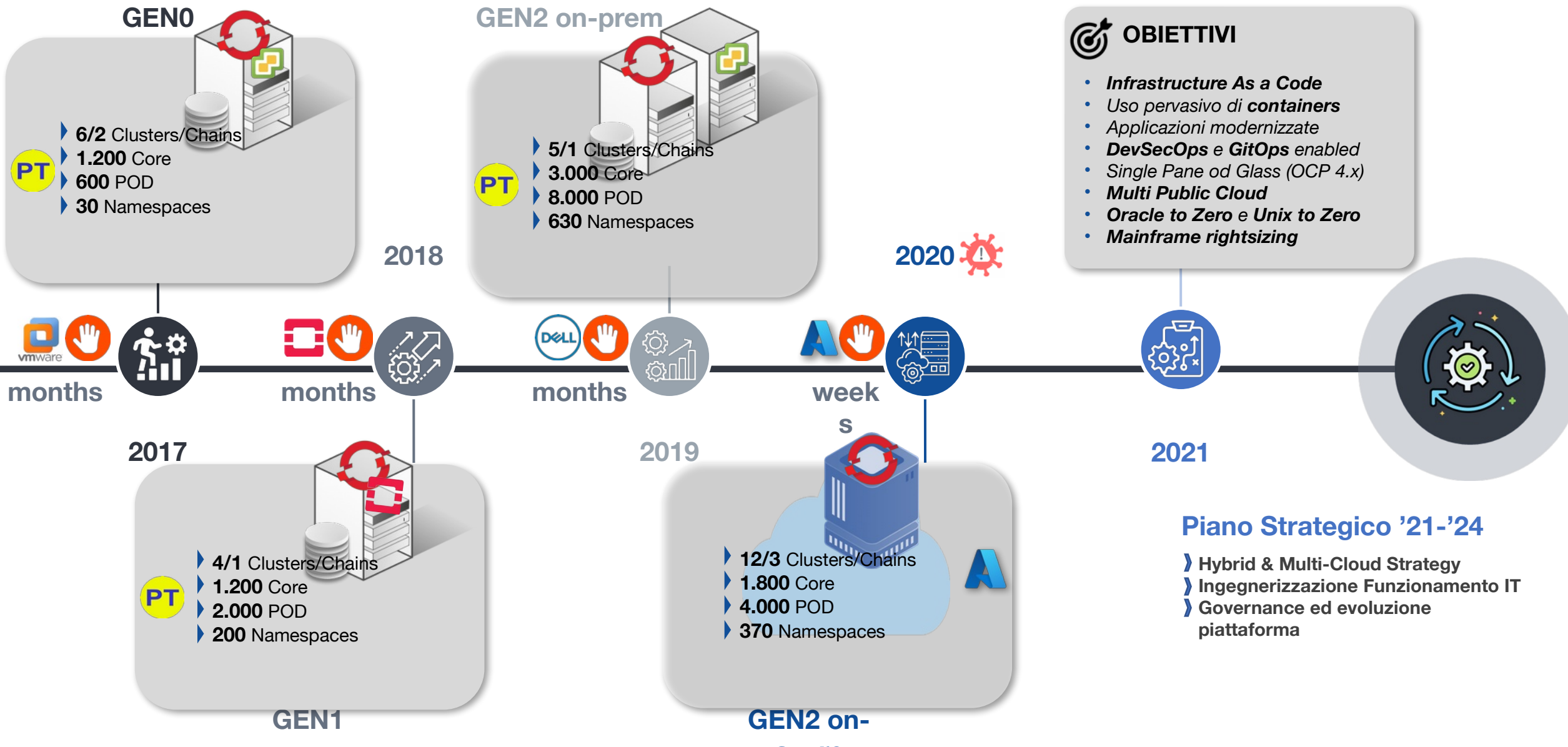
le vm quasi non le facciamo più...

... e i cluster kubernetes li tiriamo su in 90 min

LA CONTAINER PLATFORM

LA CONTAINER PLATFORM

DA GEN0 A GEN2





**DRIFT DI
CONFIGURAZIONE**



**FULL STACK
AUTOMATION**

**CONFIGURATION
MANAGEMENT E
BEST PRACTICES**

**REFRESH
TECNOLOGICO**



**MISURARE IL
RUMORE**

GEN3

GEN3

STRATEGIC GOALS E I TRE PILLAR DI DESIGN

Portabilità

- Hybrid & Multi-cloud blueprint
- Public and External exposure
- Transparent URL filtering



Agilità e Governance

- Hybrid full-stack automation
- App migration practice
- Legacy Integrations utility



Innovazione

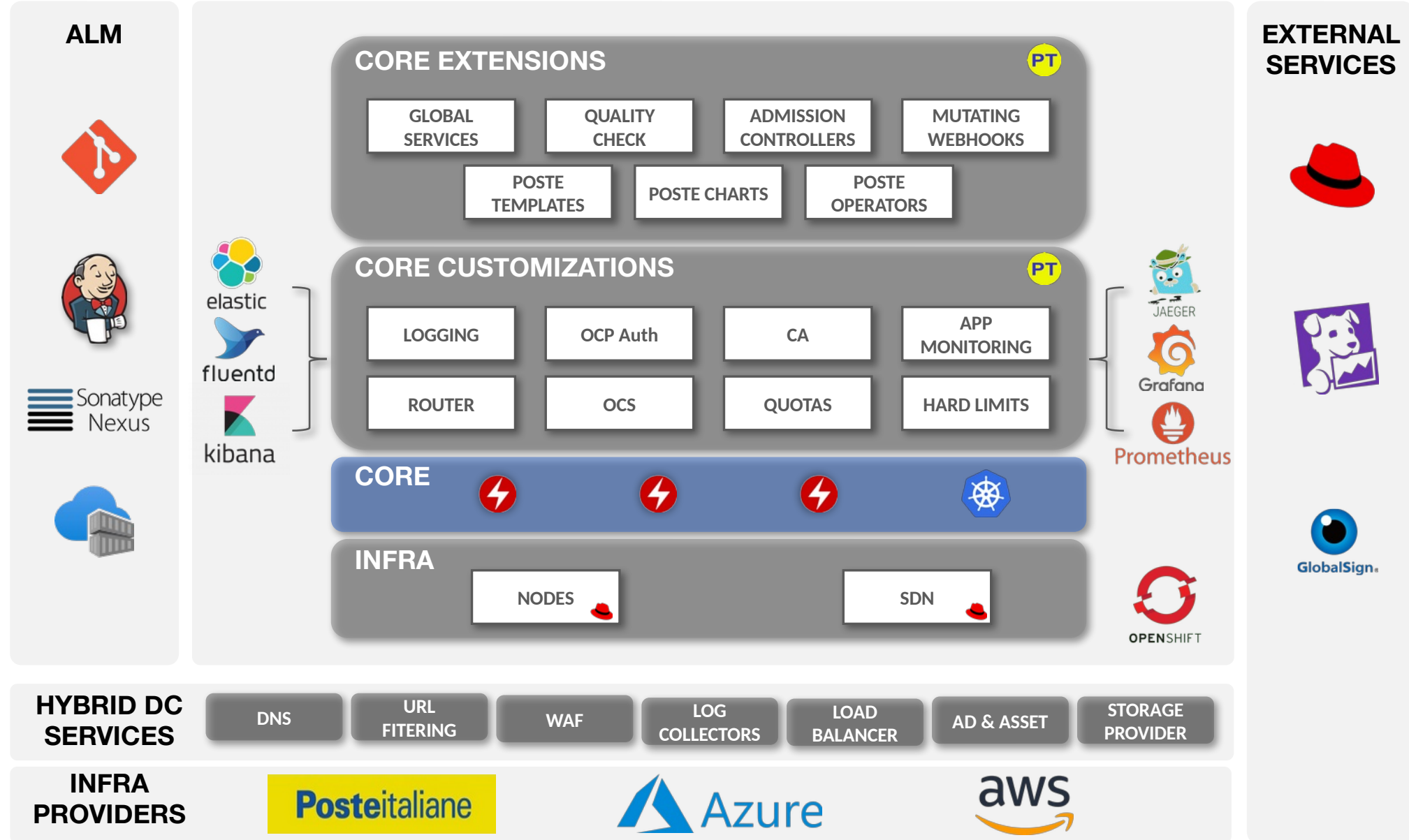
- L7 ingress security (fd, waf)
- Storage upgrades (ceph, portworx, nooba, geo replica)
- RHACM, RHACS
- Container Native Virtualization
- Ansible operator sdk e k8s gitops (Infrastructure Operator)
- Service Mesh (istio)
- Knative



ARCHITETTURA

BLUEPRINT

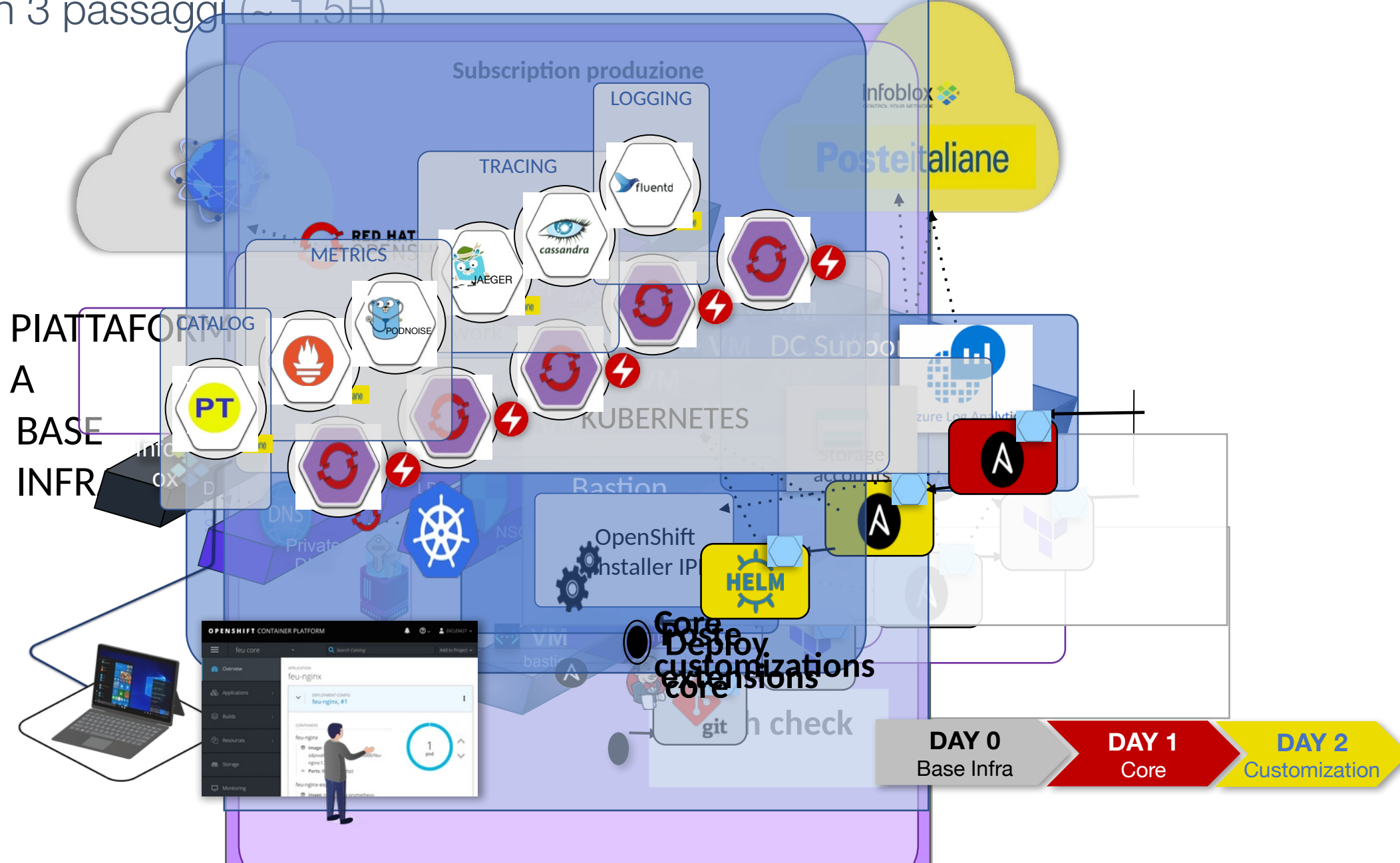
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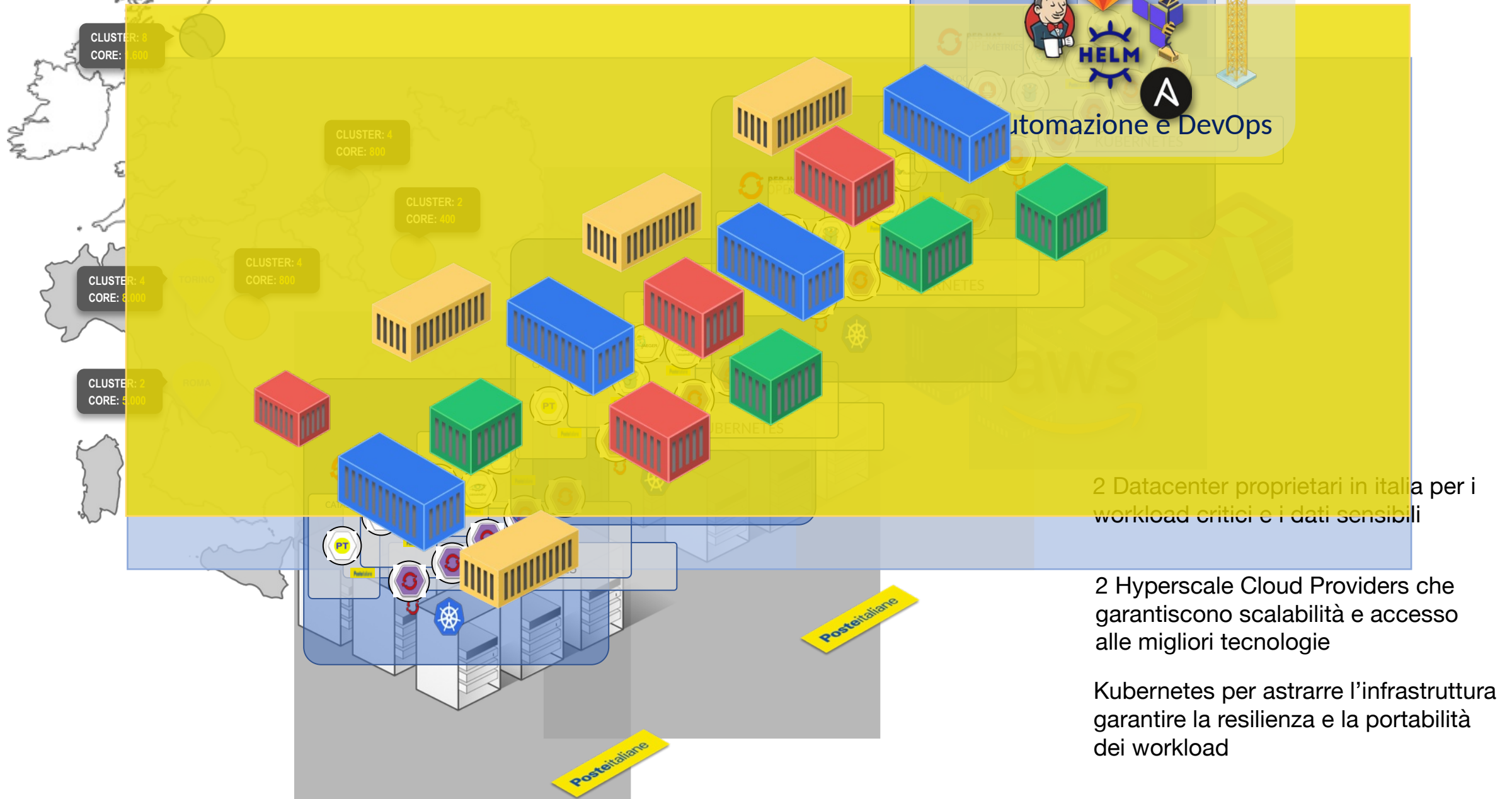
DEPLOYMENT

DEPLOYMENT

Cluster Up in 3 passaggi (~ 1.5H)



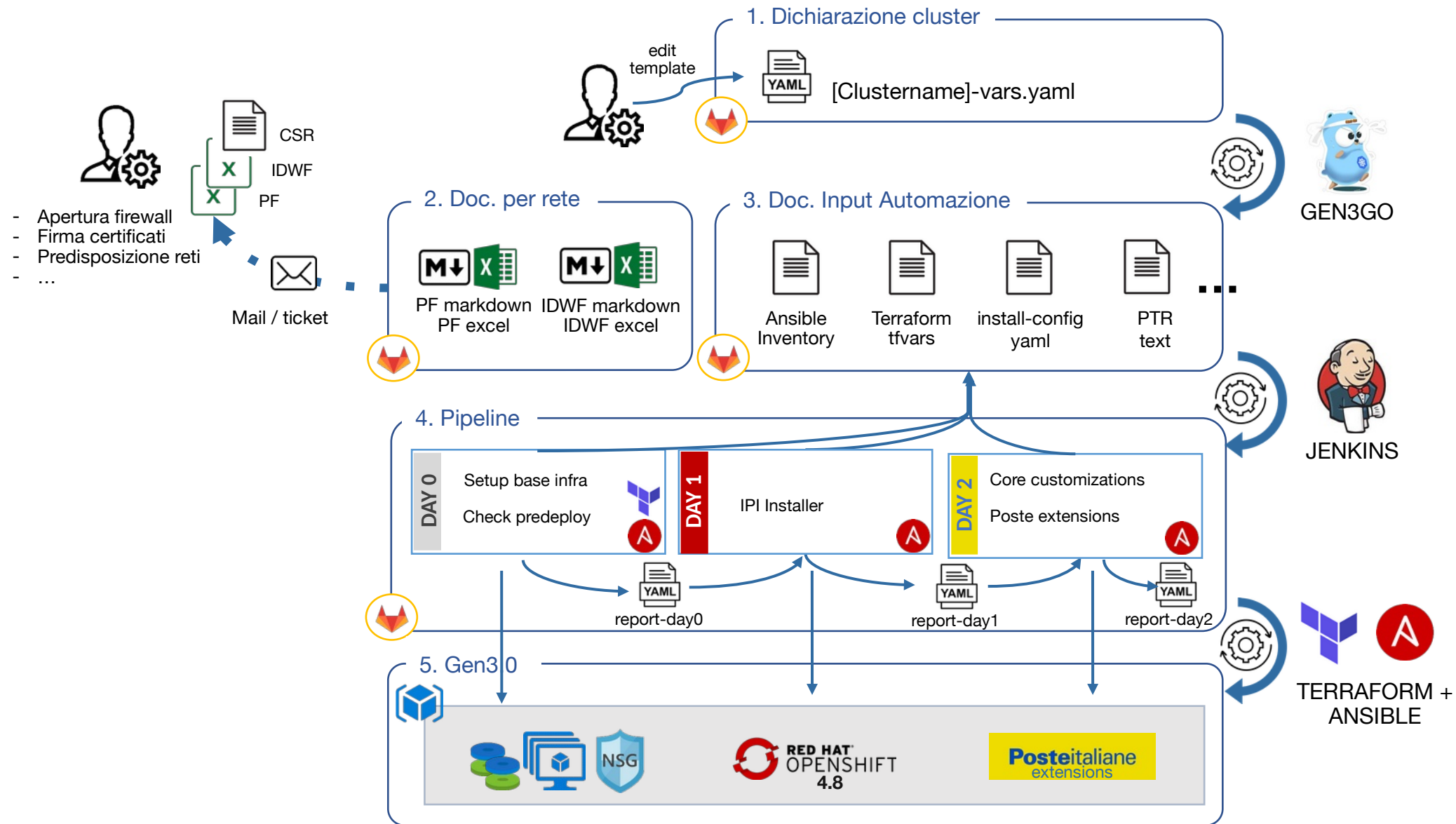
DEPLOYMENT



AUTOMATION FLOW

AUTOMATION FLOW

BACKSTAGE AUTOMATION

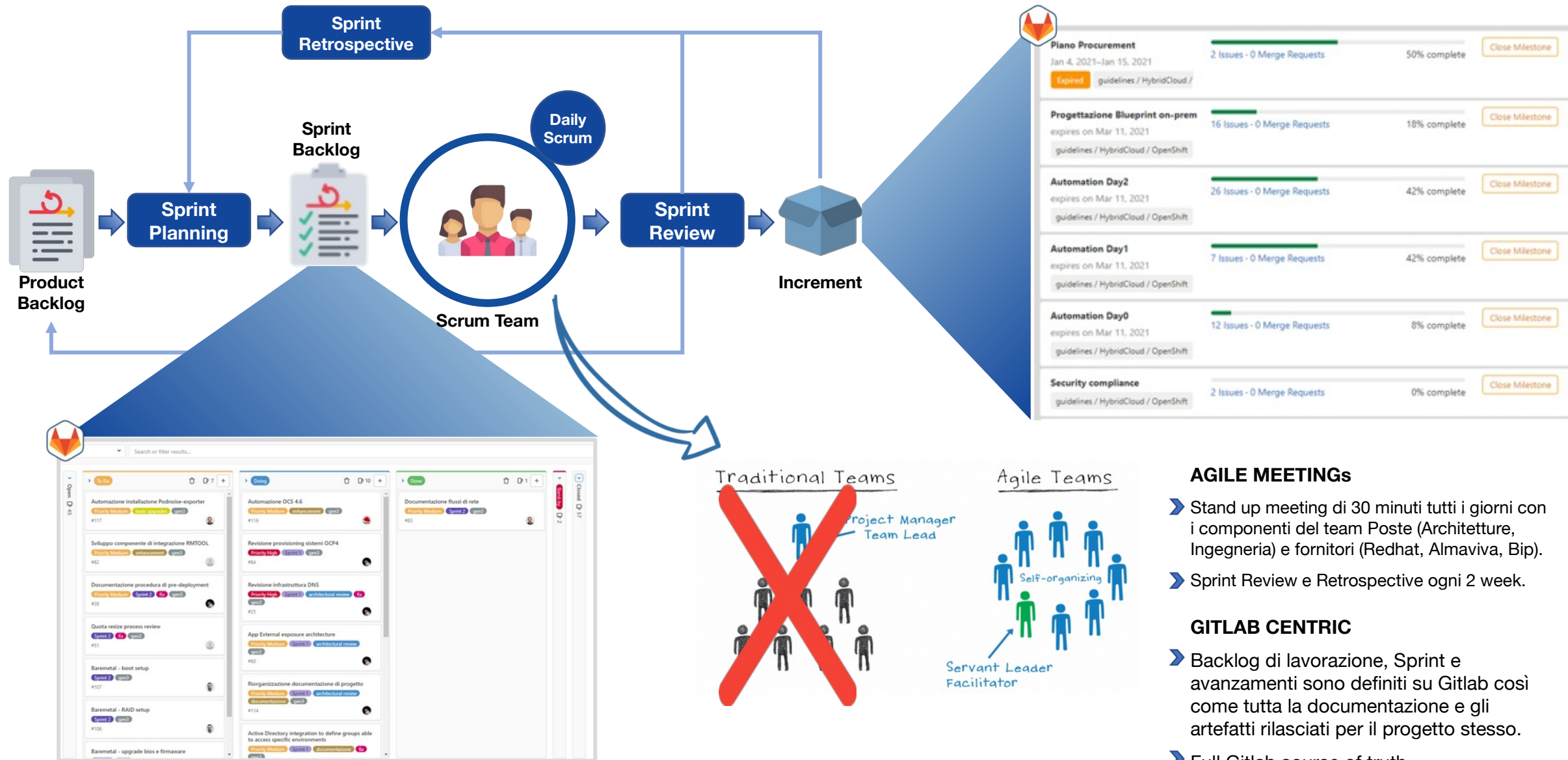


AGILE TEAM

ORGANIZZAZIONE DELL'AGILE TEAM

AGILE DEVELOPMENT

GEN3 SCRUM ADOPTION



AGILE MEETINGS

- Stand up meeting di 30 minuti tutti i giorni con i componenti del team Poste (Architetture, Ingegneria) e fornitori (Redhat, Almapiva, Bip).
- Sprint Review e Retrospective ogni 2 week.

GITLAB CENTRIC

- Backlog di lavorazione, Sprint e avanzamenti sono definiti su Gitlab così come tutta la documentazione e gli artefatti rilasciati per il progetto stesso.
- Full Gitlab source of truth.

NUMERI DALL'AGILE TEAM

Issue gitlab – milestone – sprint – commit

➤ **287** issue / user stories totali ➤ **16** Shared participant

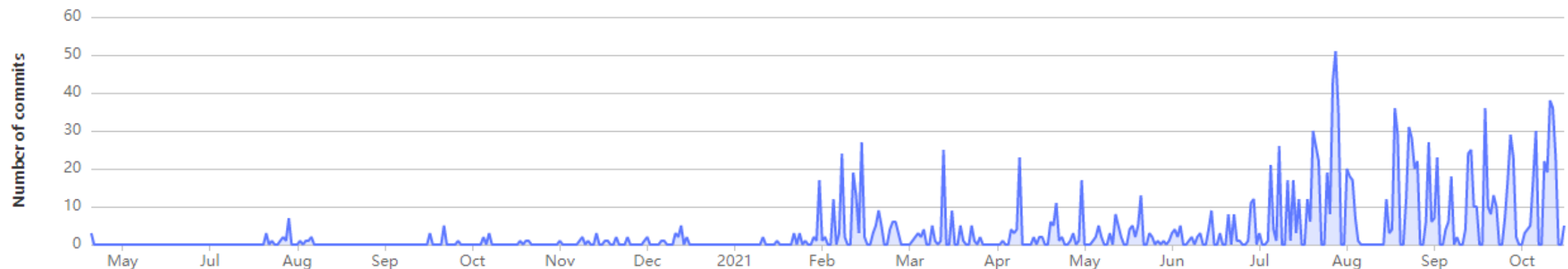
➤ **162** issue closed 1895 commit

➤ **125** issue open □ backlog 13 branches

➤ **17** doing 2 releases

➤ **13** milestone

➤ **16** Sprint



Commits Avg: 3.24 · Max: 51



**DIVULGATE A FULL
STACK APPROACH**

**AGILE WAR ROOM
(two pizza team
rocks!)**



**PLAN TO WORK
REMOTE**

INSOURCING



LESSON LEARNED & ROADMAP



AUTOMATION



AGILE WAR ROOM
(two pizza team
rocks!)



**FULL STACK
APPROACH**



**COLLABORATION /
PLAN TO WORK
REMOTE**



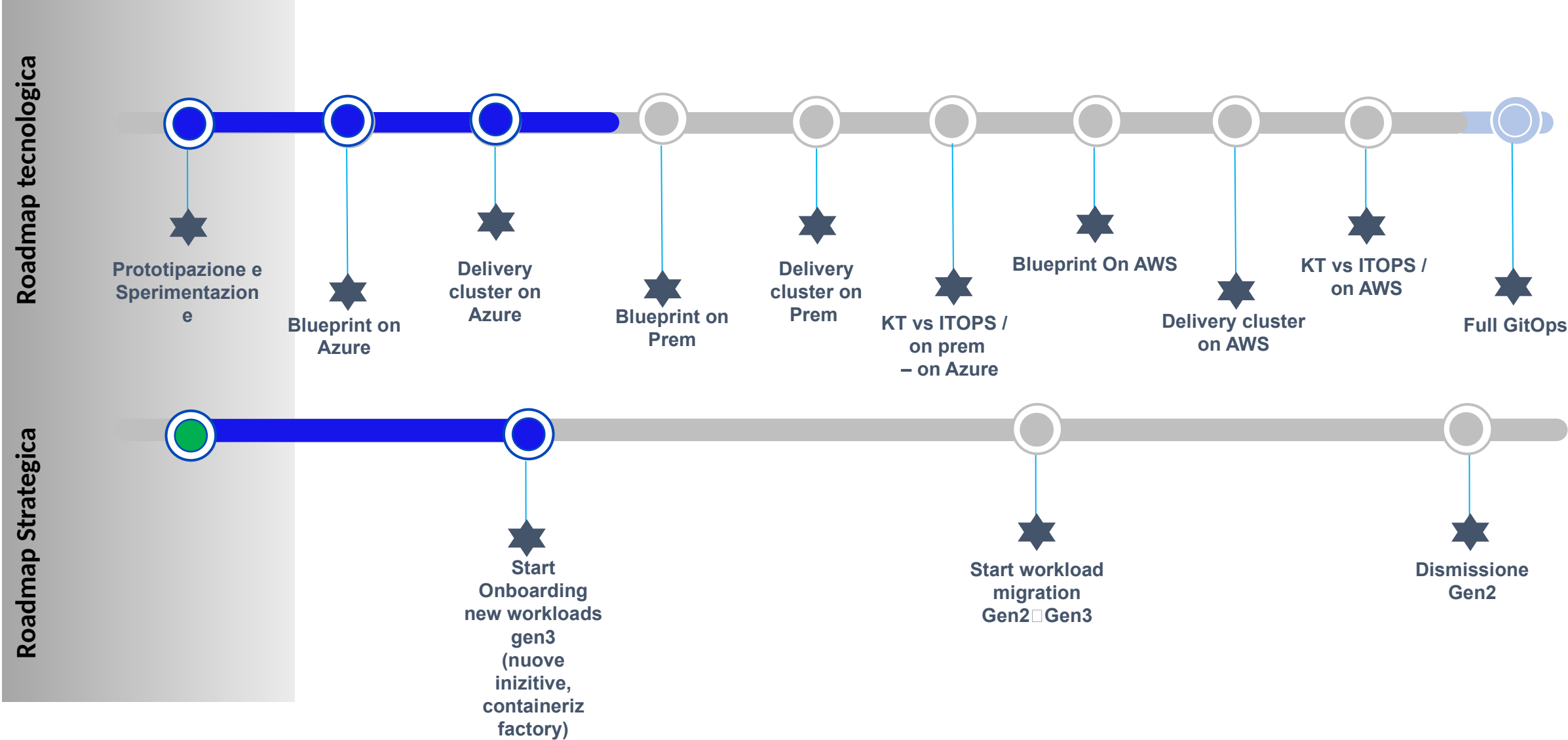
INSOURCING



INFRA AS A PRODUCT

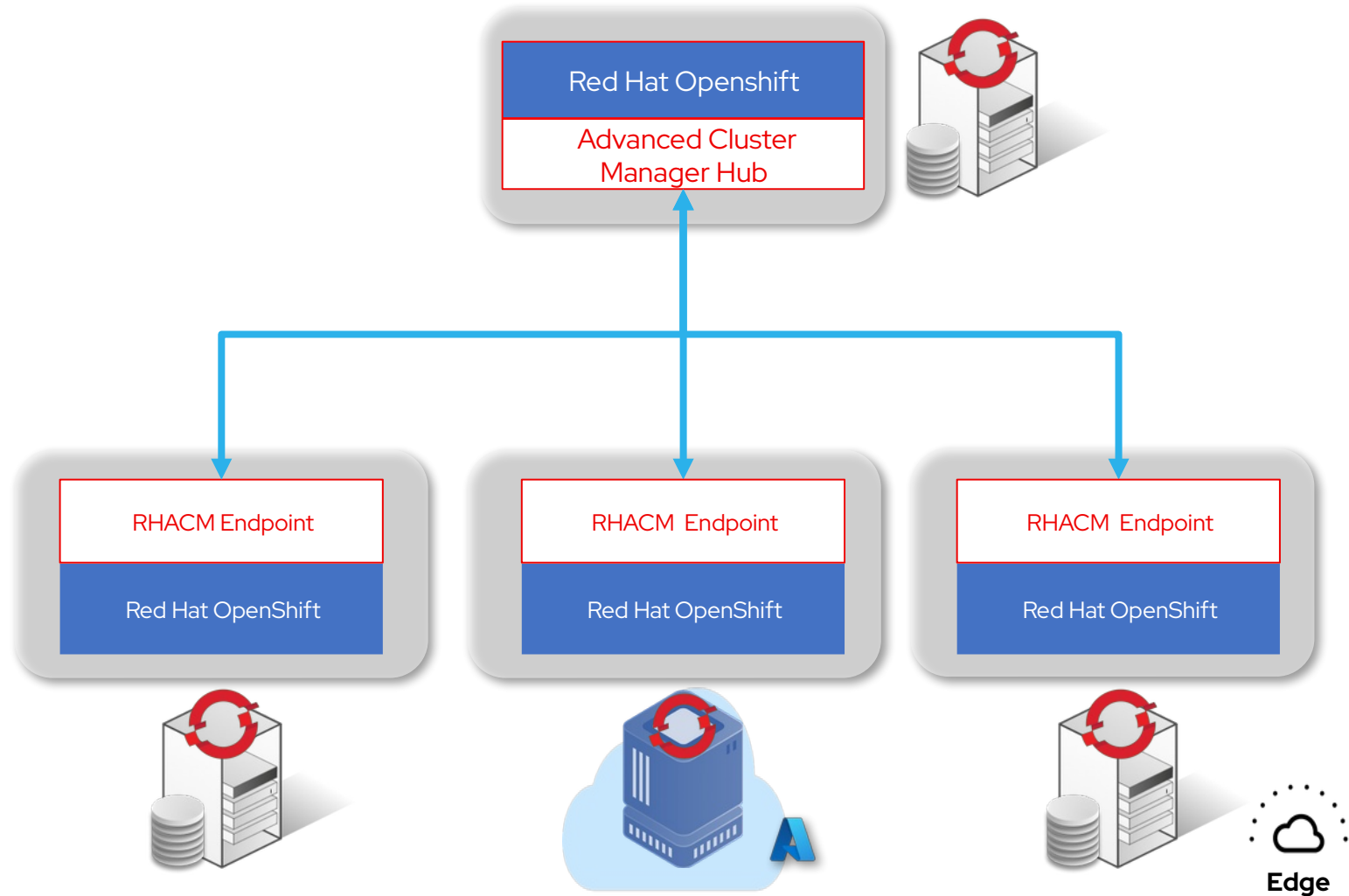
GO HYBRID!

GEN3.1 AND UP



GESTIONE MULTICLUSTER

IL CONTROLL PLANE CENTRALIZZATO



Cluster Lifecycle Management

- Gestione centralizzata del ciclo di vita dei cluster gen3



Policy-Based Management

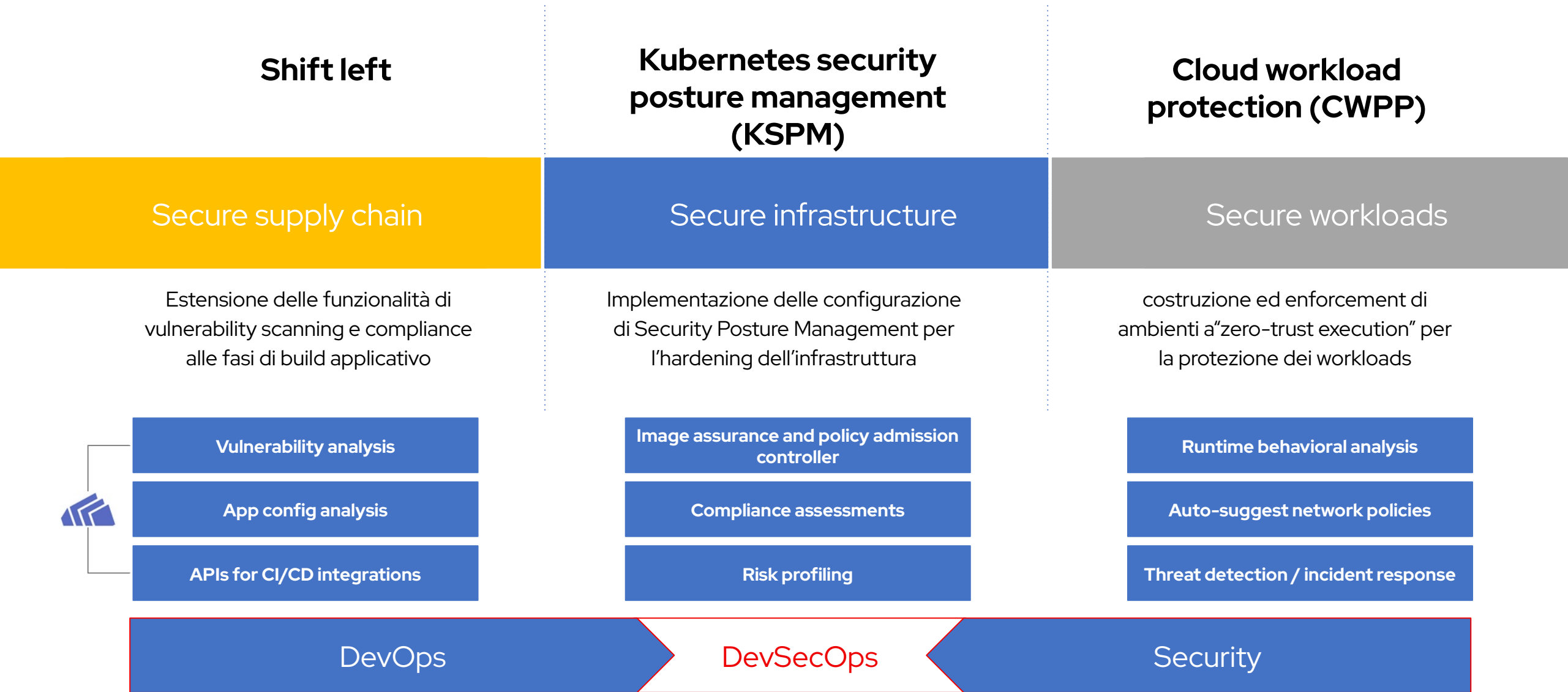
- Aderenza agli standard aziendali tramite policy centralizzate



Observability - Visione consolidata delle performance e del comportamento dei clusters

DEVSECOPS

LE EVOLUZIONI IN AMBITO SECURITY



Q&A

GRAZIE!



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Giuseppe Brindisi

Head of Hybrid Cloud Engineering

✉ Giuseppe.brindisi@posteitaliane.it

in <https://www.linkedin.com/in/brindisig>

Posteitaliane



Matteo Bernacchi

Solution Architect

✉ mbernacc@redhat.com

in <https://www.linkedin.com/in/traktopel>



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