



# Architecture / Mapping

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Infoshare <https://events.geant.org/event/1849/>


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Public (PU)



# Agenda

- Introduction to OAV Architecture
- Why TMForum ODA?
  - ODA Architecture
- Mapping process overview
- Activities published and under development
- Comparison

# Introduction to OAV Architecture

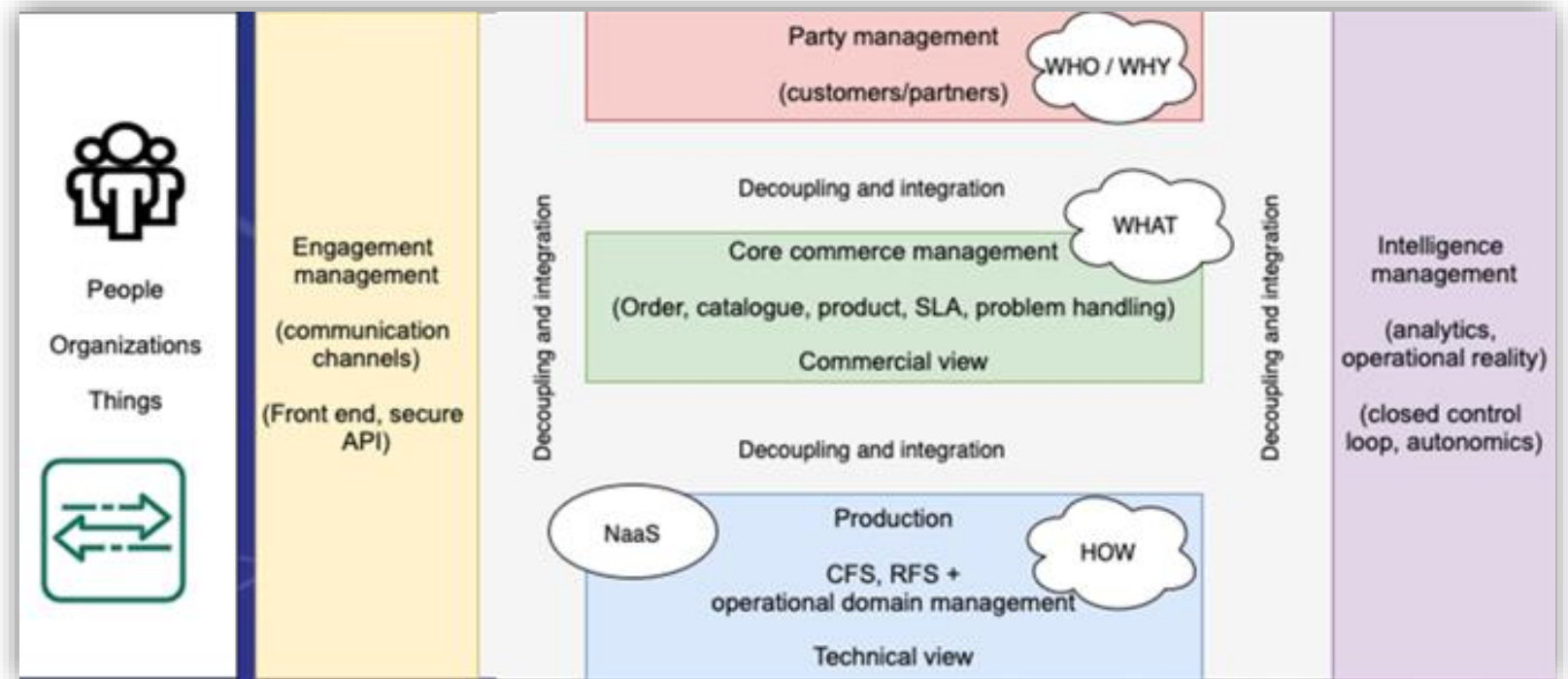
- **OAV** - Orchestration, Automation and Virtualisation
- NRENs use services that cross different networks  need a shared way to connect
- Mapping architecture helps:
  - align OAV efforts
  - find similarities
  - enable collaboration and interoperability
  - supports the transition from traditional work organisation to a model where services are automatically provisioned and orchestrated

## Why TMForum ODA?

- **Goal** to create flexible blueprint
  - many standards and architectures to choose from
- TM Forum Open Digital Architecture (ODA) as a reference model
  - supports combining **existing solutions** with new approaches
- Final architecture depends on each case (NREN)
- ODA  modular approach  building BLOCKS

# ODA Architecture

- Five domains:
    - Engagement management,
    - Party management,
    - Core commerce management,
    - Production and
    - Intelligence management
- +
- Decoupling and integration layer



# Mapping process overview

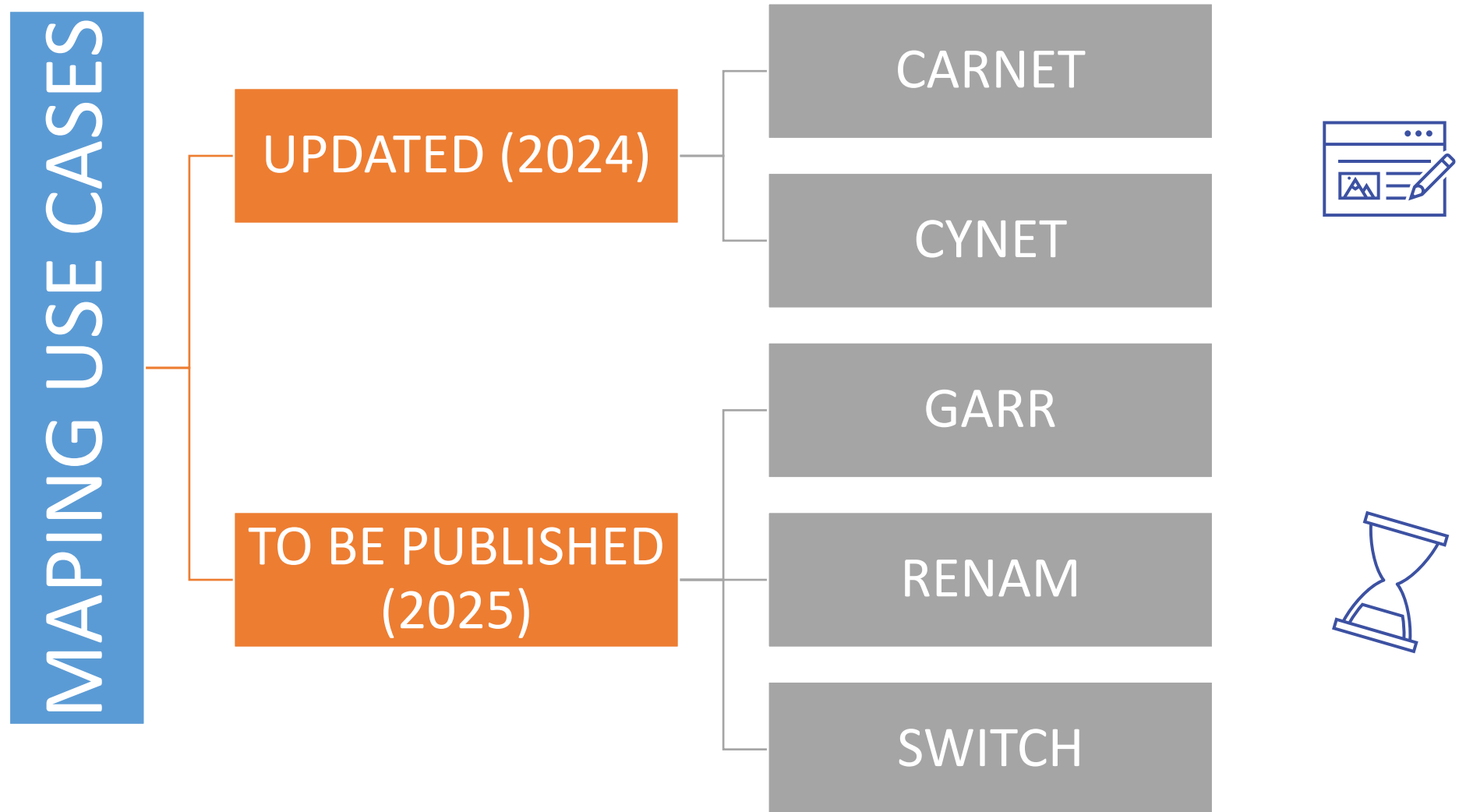
STEP 3:



31-12-2024

**CARNET OAV Architecture Analysis – Update**

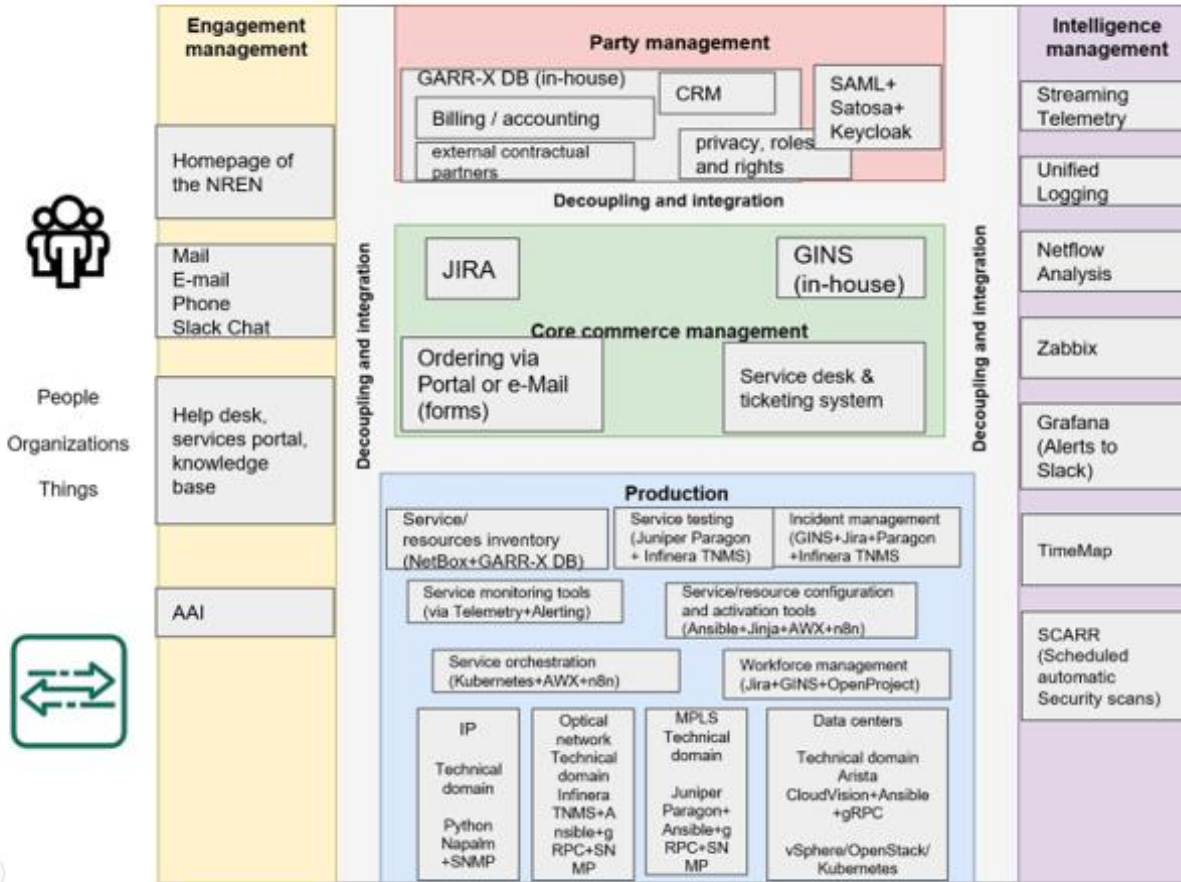
## Activities published and under development



- <https://wiki.geant.org/display/NETDEV/Mapping+Use+Cases>

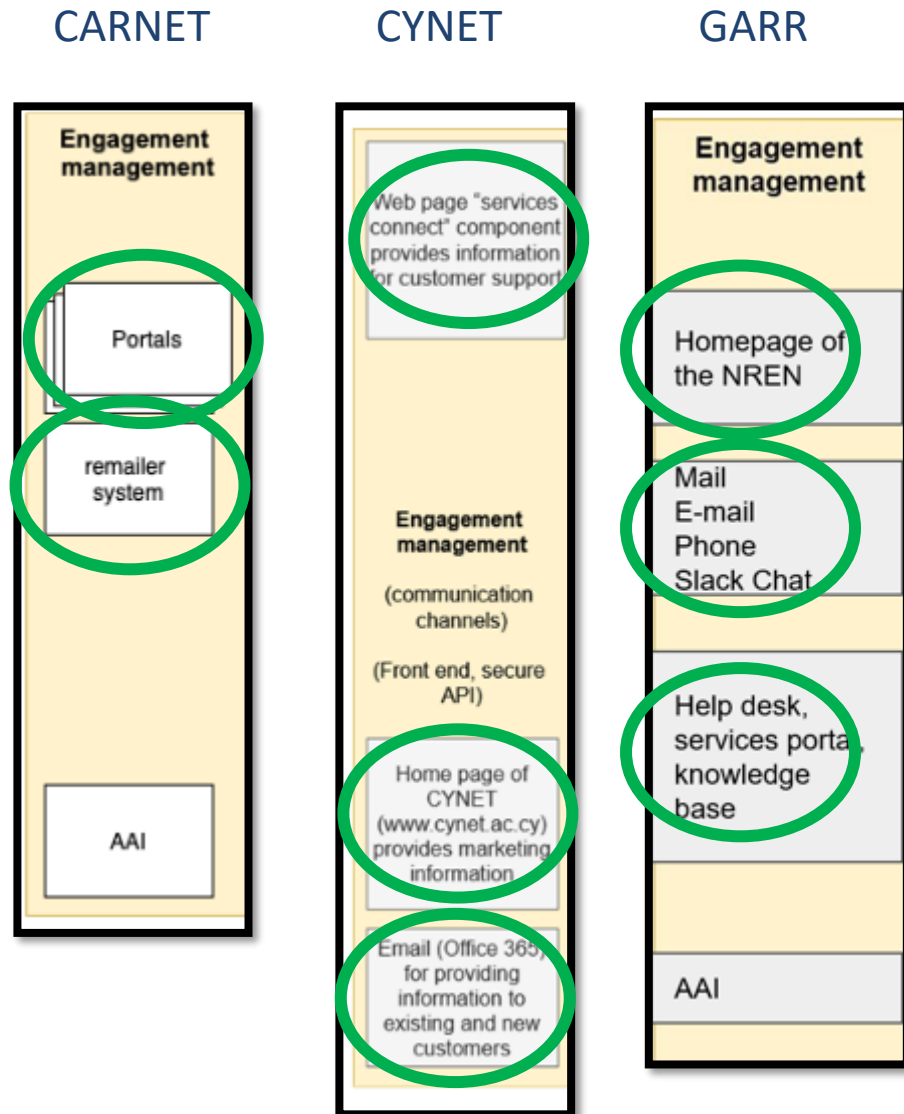
# Comparison

- CARNET
- CYNET
- GARR





# Comparison

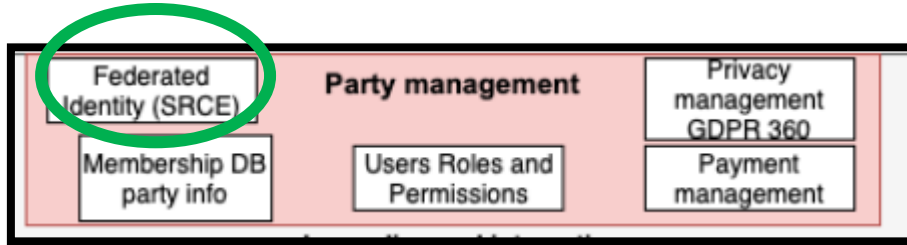


Interaction between the organisation and its environment:

- Web pages, homepage
- Portals
- E-mail

# Comparison

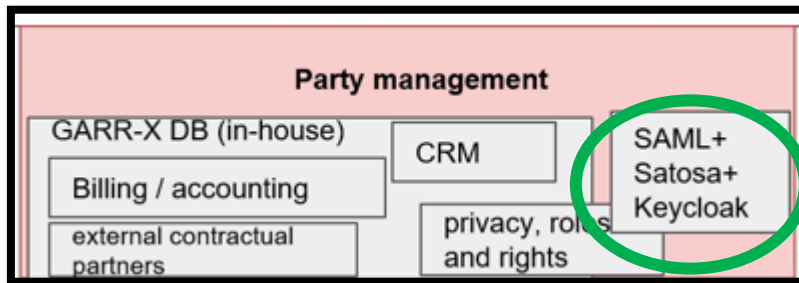
CARNET



CYNET



GARR

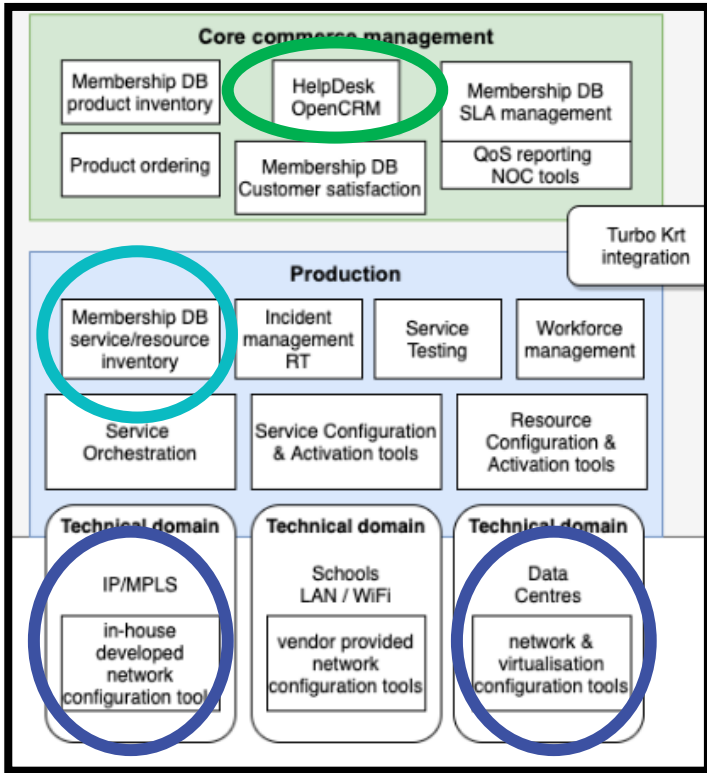


All the information and processes related to internal and external parties:

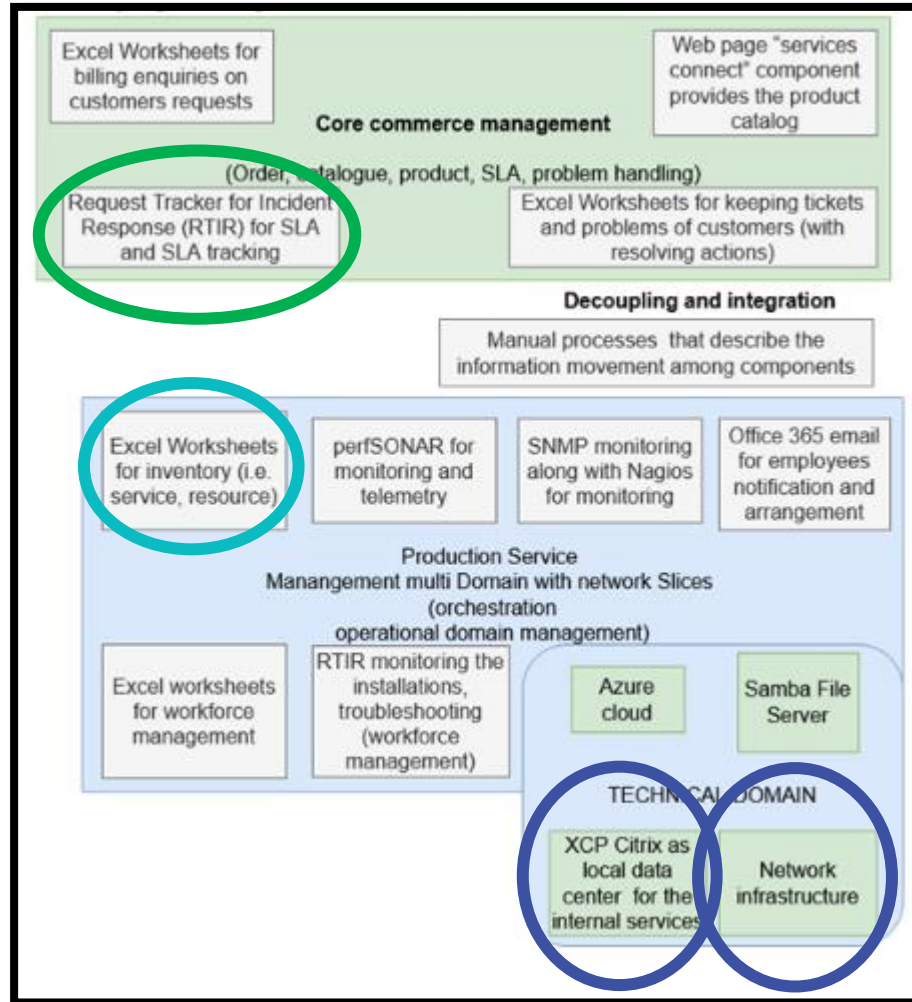
- Identity management (federated identity, SAML..)
- Roles, permissions, customer management

# Comparison

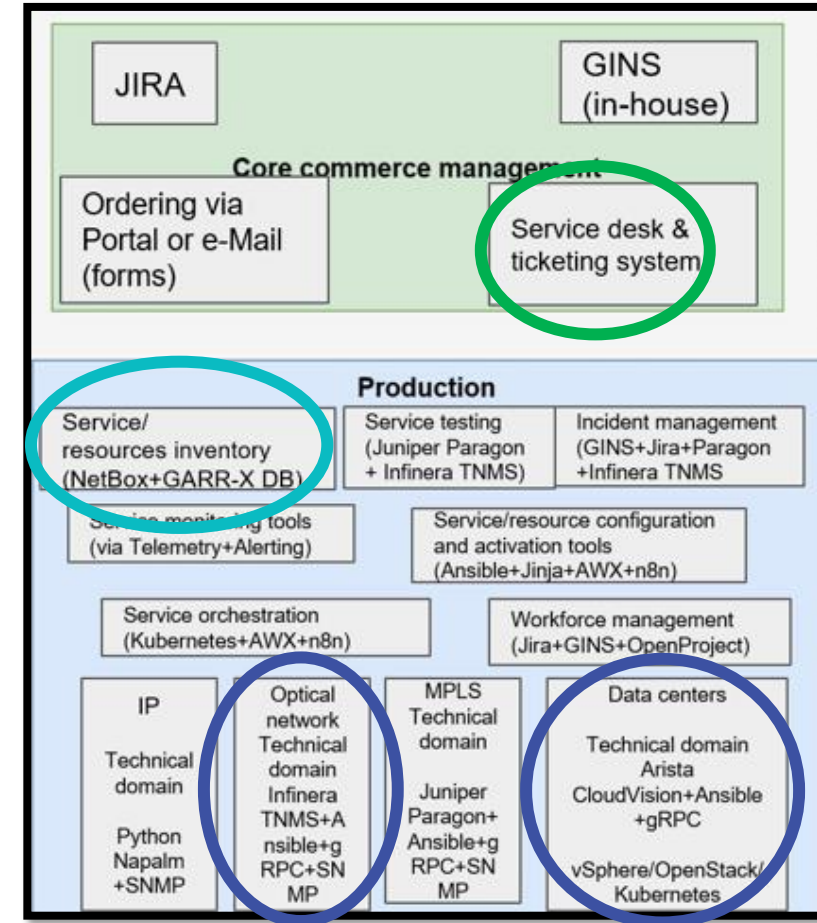
## CARNET



## CYNET



## GARR

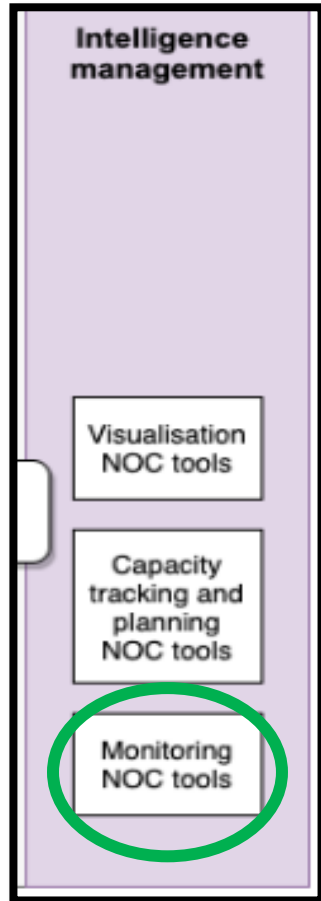


Core Commerce Management description of offers via a product catalogue: HelpDesk, Ticketing system

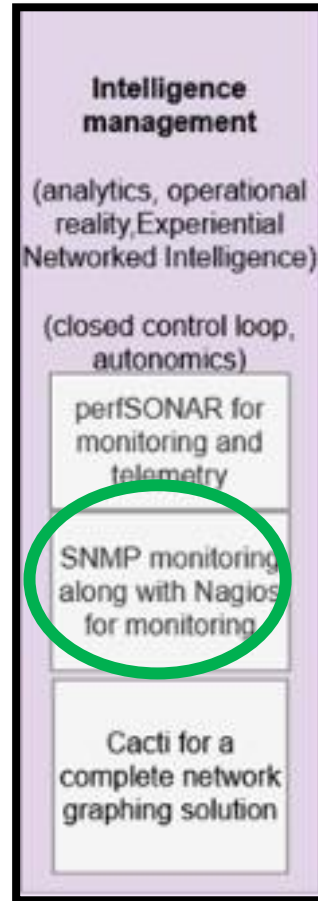
Production domain most of the technical processes tasks and tools: Inventory, service tools, technical domains..

# Comparison

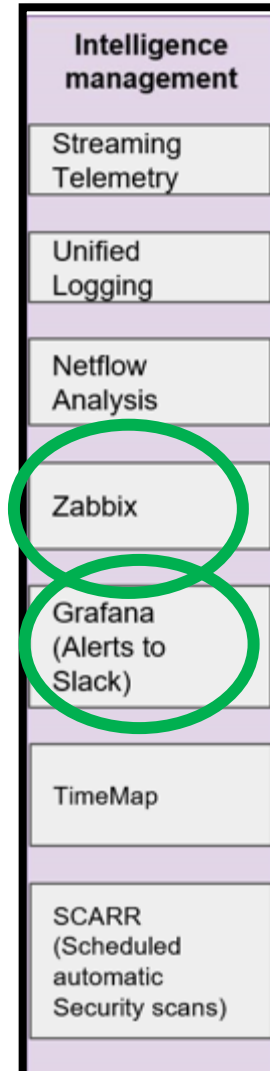
## CARNET



## CYNET



## GARR



Focuses on data analytics:

- Monitoring tools (Grafana, Zabbix, InHouse tools)
- Roles, permissions, customer managent
- Streaming telemetry



# Thank You

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