

# Orchestration Automation and Virtualisation Maturity Model

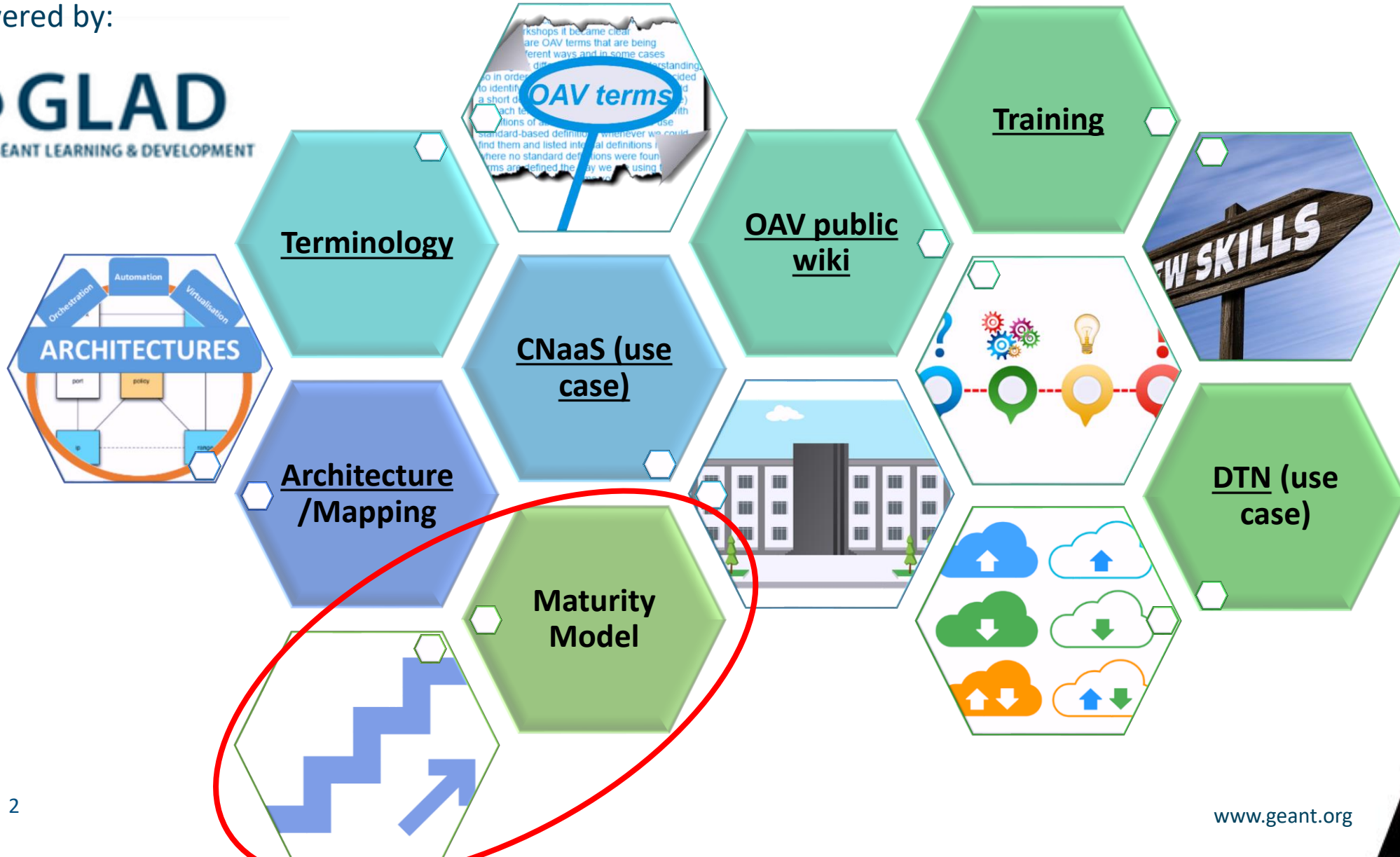
**Maria Isabel Gandía, CSUC/RedIRIS**  
**WP6-T2**

17<sup>th</sup> SIG-NOC Meeting  
Paris, 17 November 2022

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# Network (Automation) eAcademy

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## Why OAV MM?



Provide a common OAV progress indicator for the community



Help organisations on their OAV journey

## Maturity Model Goals

Measure	Measure the current OAV capabilities in a meaningful way
Identify	Enable clear identification of strengths and improvement points, be aware of threats and opportunities
Prioritise	Help prioritise what to do in order to advance and improve
Journey	Identify gaps between the current and future state and how to get there

# OAV Maturity Model - Stages

Level 0

Sit

None



Created by Valerie Lamr

Level 1

Crawl

Ad Hoc



Created by Gan Khuan Lay  
From the Moon Project

Level 2

Walk

Use Case /  
Project-based /  
Reactive



Created by Gan Khuan Lay  
From the Moon Project

Level 3

Run

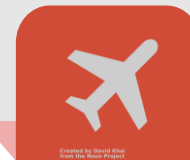
Integrated



Level 4

Fly

Proactive



Created by Gan Khuan Lay  
From the Moon Project

Level 5

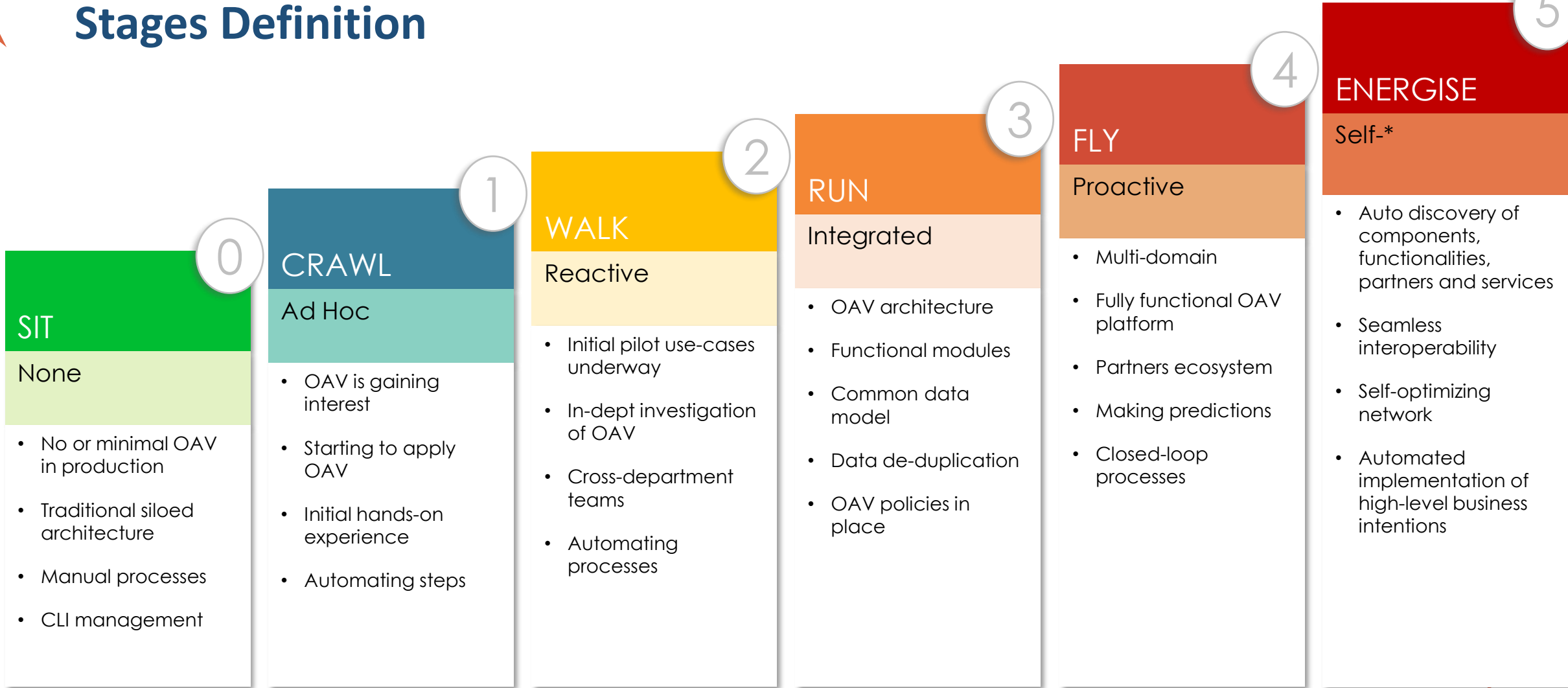
Energise

Self-\*



# Stages Definition

ORGANISATION REACH



**0**

**SIT**

None

- No or minimal OAV in production
- Traditional siloed architecture
- Manual processes
- CLI management

**1**

**CRAWL**

Ad Hoc

- OAV is gaining interest
- Starting to apply OAV
- Initial hands-on experience
- Automating steps

**2**

**WALK**

Reactive

- Initial pilot use-cases underway
- In-dept investigation of OAV
- Cross-department teams
- Automating processes

**3**

**RUN**

Integrated

- OAV architecture
- Functional modules
- Common data model
- Data de-duplication
- OAV policies in place

**4**

**FLY**

Proactive

- Multi-domain
- Fully functional OAV platform
- Partners ecosystem
- Making predictions
- Closed-loop processes

**5**

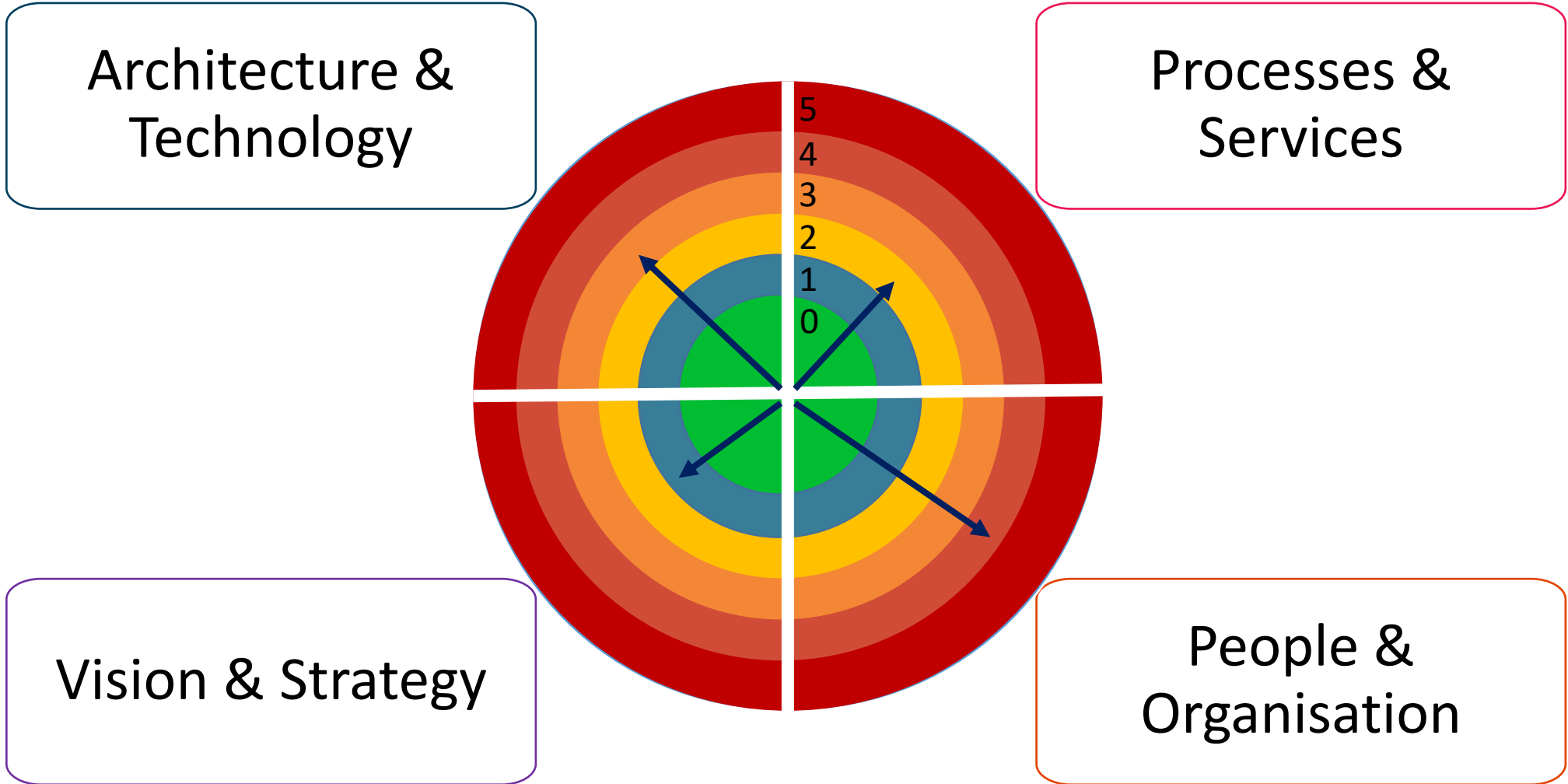
**ENERGISE**

Self-\*

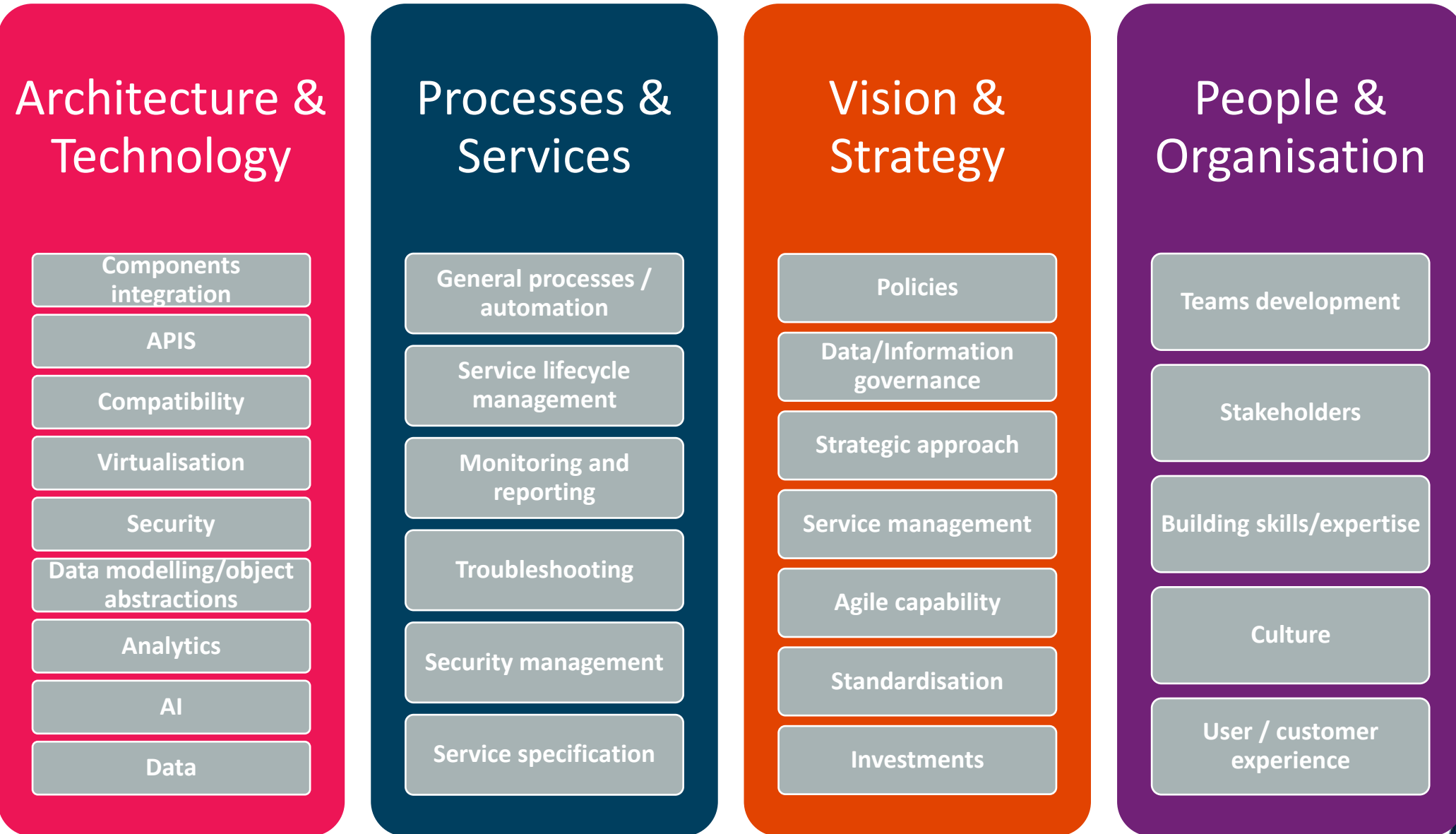
- Auto discovery of components, functionalities, partners and services
- Seamless interoperability
- Self-optimizing network
- Automated implementation of high-level business intentions

MINDSET ADOPTION

# OAV Maturity Model - Dimensions









# OAV Maturity Model – Sub-dimensions





# OAV Maturity Assessment

			Architecture & Technology	Processes & Services	Vision & Strategy	People & Organisation
Level 5		Self-*				
Level 4		Proactive				
Level 3		Integrated				
Level 2		Reactive				
Level 1		Ad Hoc				
Level 0		None				



## The Maturity Model

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Survey (31 questions)\*:

<https://www.surveymonkey.com/r/SPYDQVB>

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Information to help you check your progress through stages and dimensions:

<https://wiki.geant.org/display/NETDEV/OAV+Maturity+Model>

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Presentations of the OAV MM Infoshare:

<https://events.geant.org/e/OAV-MM>

\* Data will be used for analytical purposes only (we will not publish data for individual institutions)  
The report will be sent to person defined in survey

## Tips & Tricks

### Choose

Choose the best answer by collaborating with relevant parties

- Avoid personal views and opinions
- Try to define strict measurable criteria relevant for your organisation

### Consolidate

Consolidate the results and define your to-be stages

### Achieve

Keep in mind that future state objective does not need to be to achieve the highest level in all areas

- Depends on goals, expenses, applicability...

# Conducting a Maturity Assessment



**Three-phase approach**

## Important to remember!



Assessing your maturity isn't a one-time exercise



You need to measure your progress toward your desired to-be state



Re-assessing your maturity levels helps review if changes are leading to the right direction

# Thank you!

With special thanks to Sonja Filiposka  
and the OAV MM FG team!

Any questions?

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