

# Self Descriptions

Status Update

—

Anja Strunk

20/01/2022

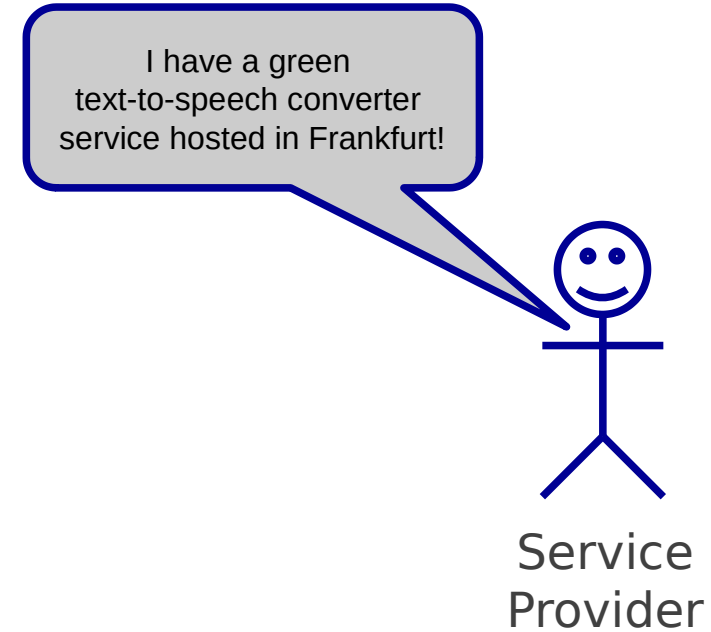
# Agenda

- 
- 01** Introduction
  - 02** Scope & Definitions
  - 03** For Users: Tools and Tutorials
  - 04** For Developers: Governance Process & Single Point of Truth
  - 05** Next Steps

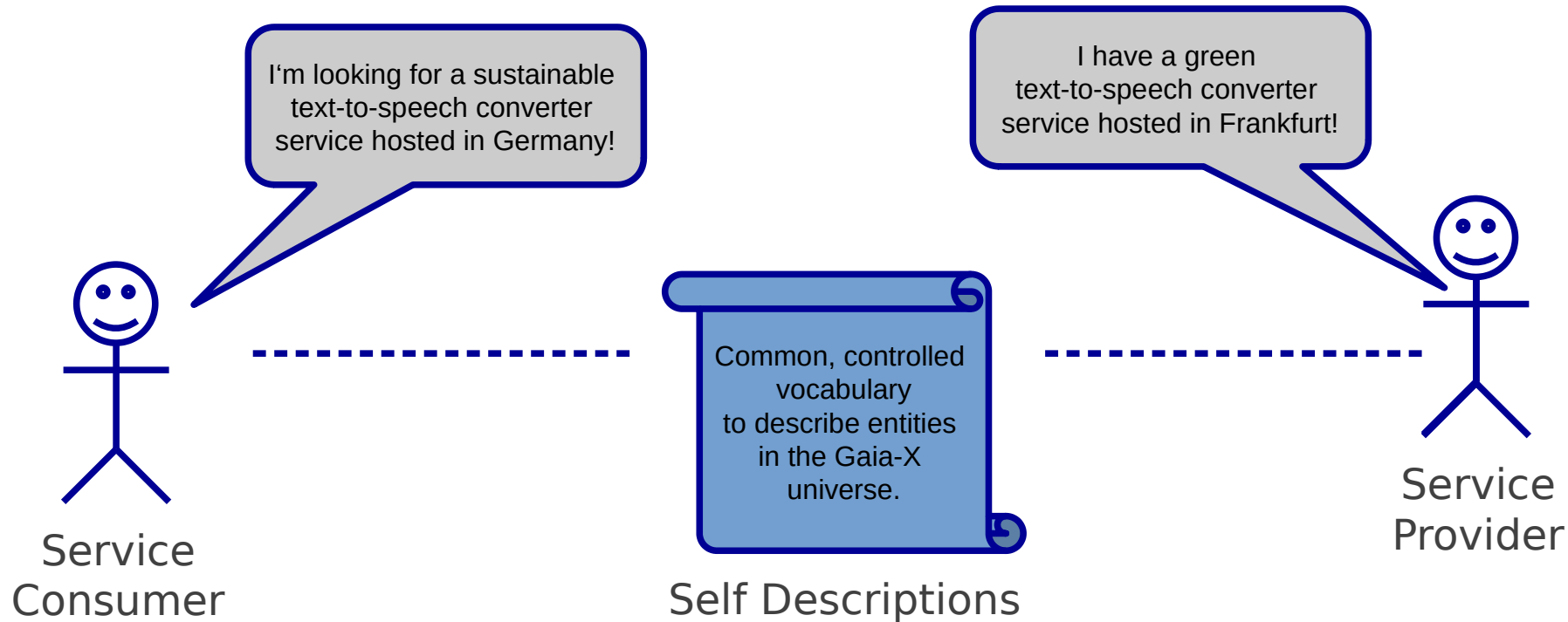
# 01

## Introduction

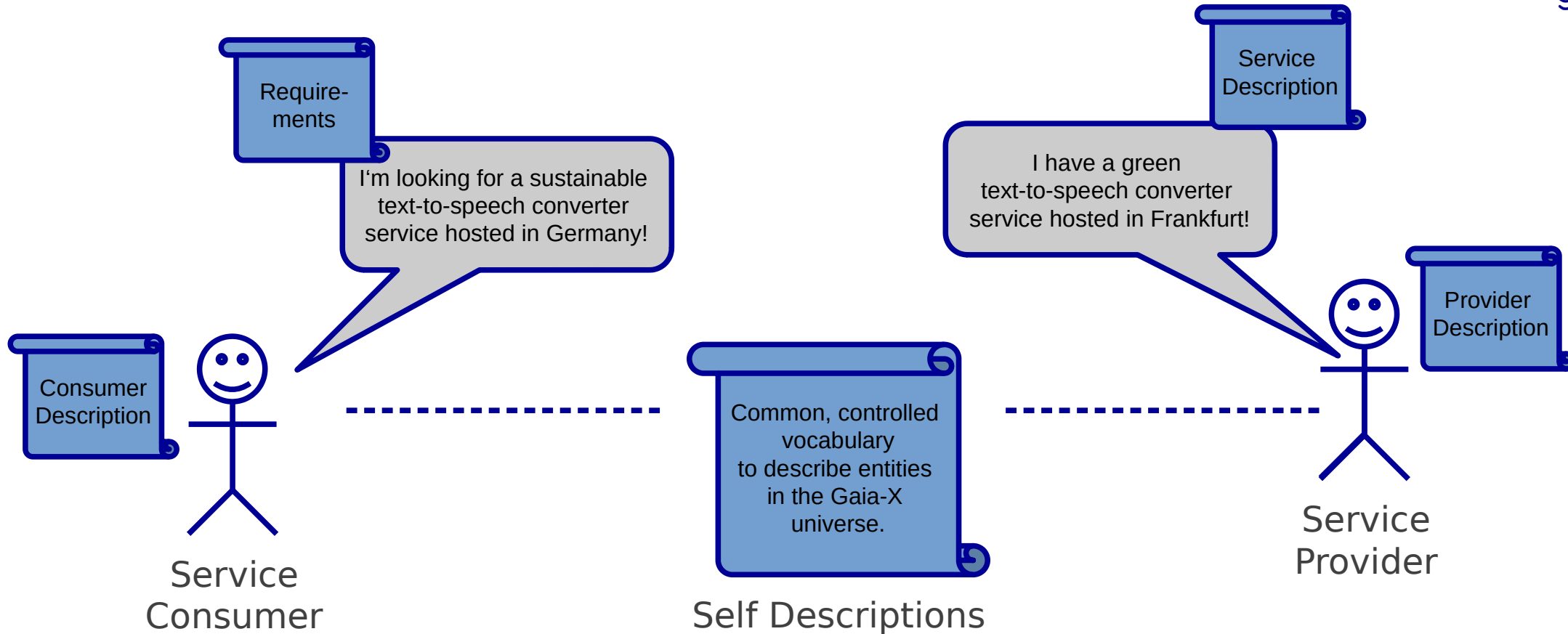
# Why Self Descriptions?



# Why Self Descriptions?



# Why Self Descriptions?



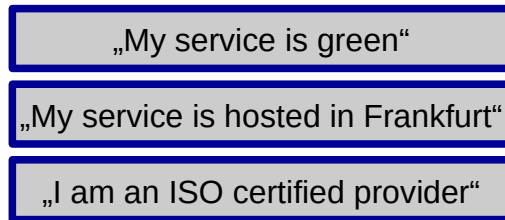
# 02

## Scope & Definitions

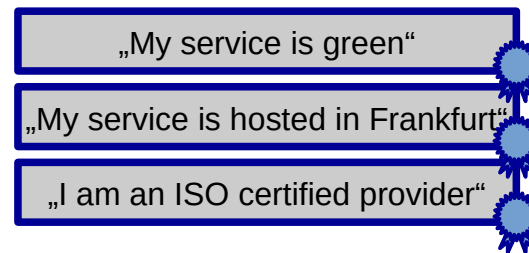
# Self Descriptions

Gaia-X uses the term self descriptions synonymously for three artefacts

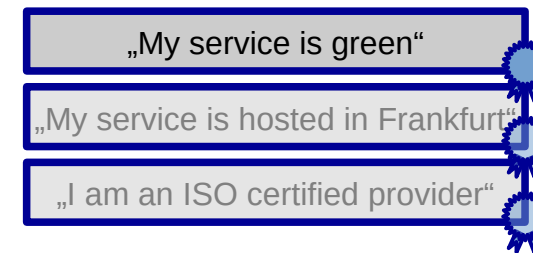
## Claims



## Verifiable Credentials



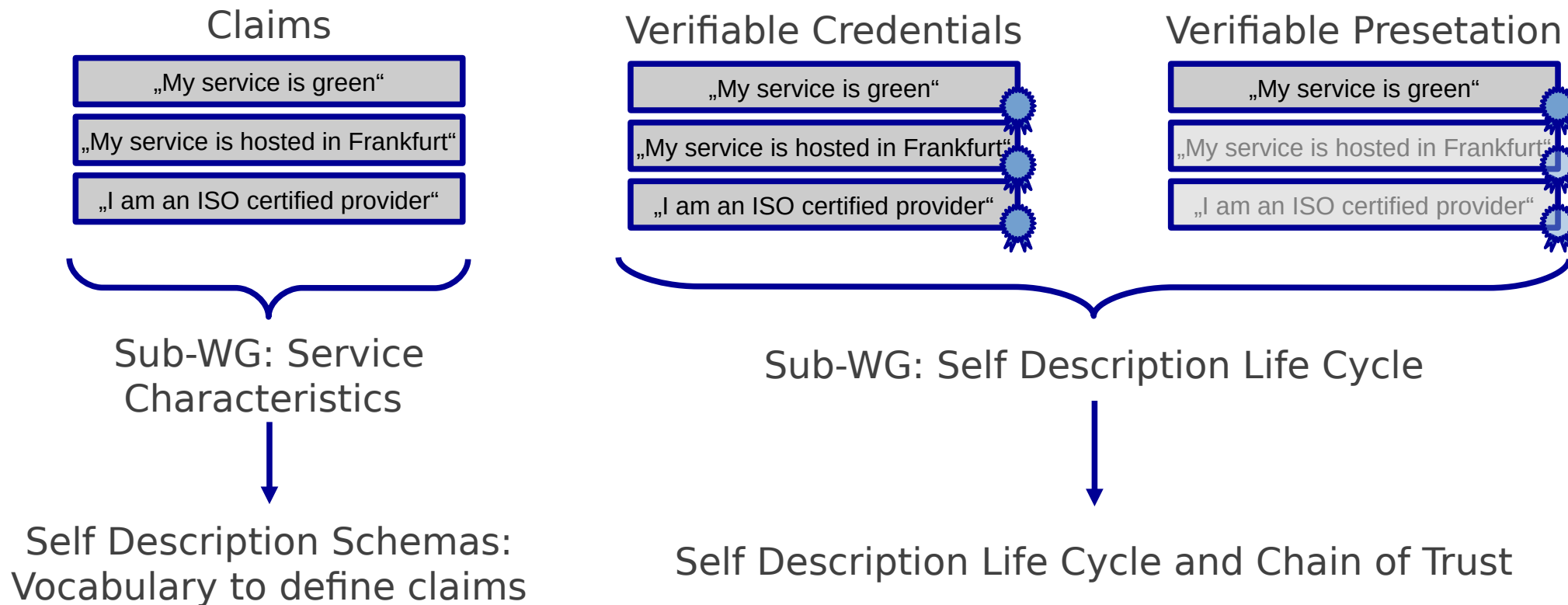
## Verifiable Presentation





# Self Descriptions

Gaia-X uses Self Descriptions synonymously for 3 artefacts



# Conceptual Model

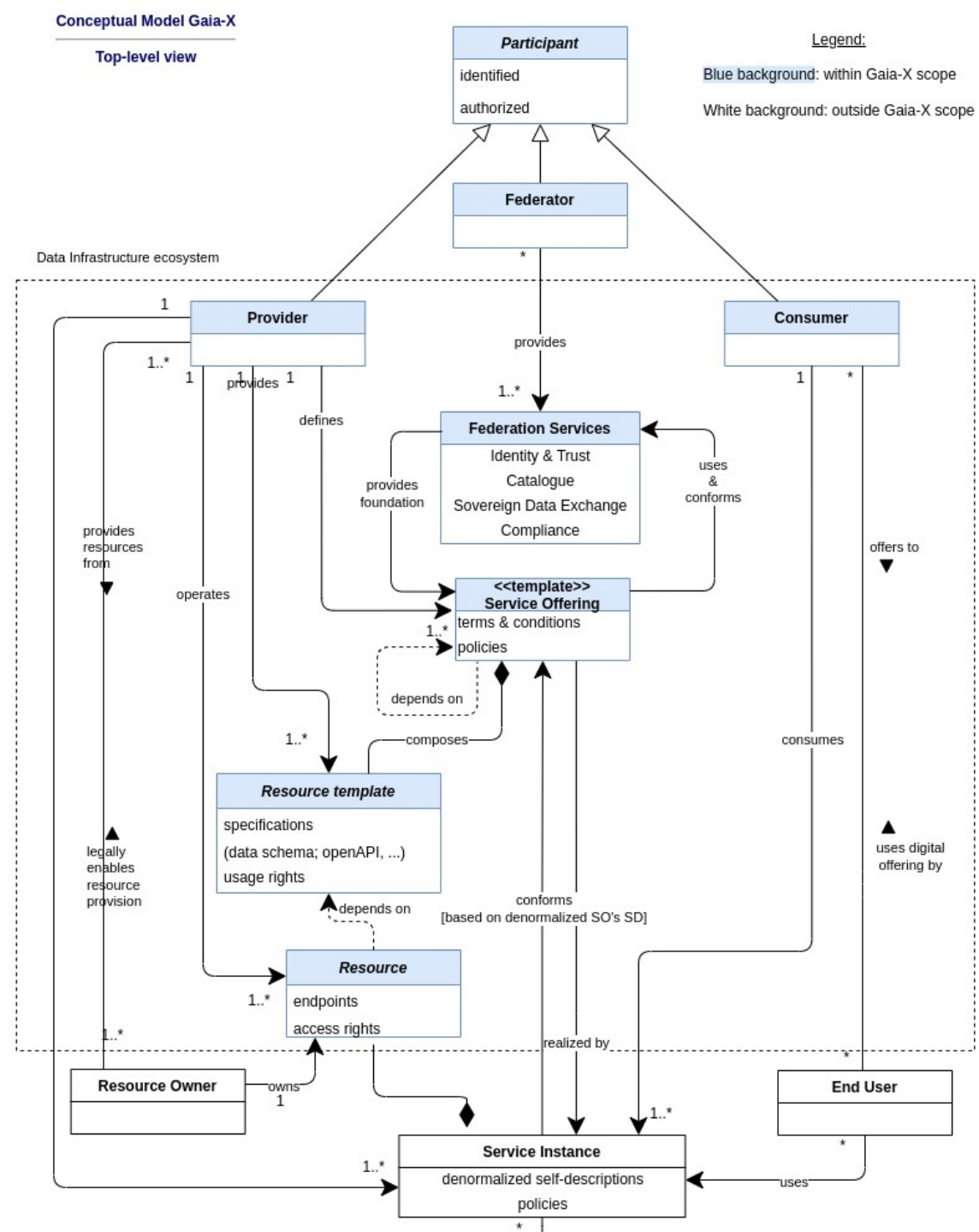
## Gaia-X Conceptual Model - What

(see [TAD 2112](#)):

- All entities existing in Gaia-X universe.
- Defines which entities (=classes) a Self Description is required for

## Self Description Schema - How

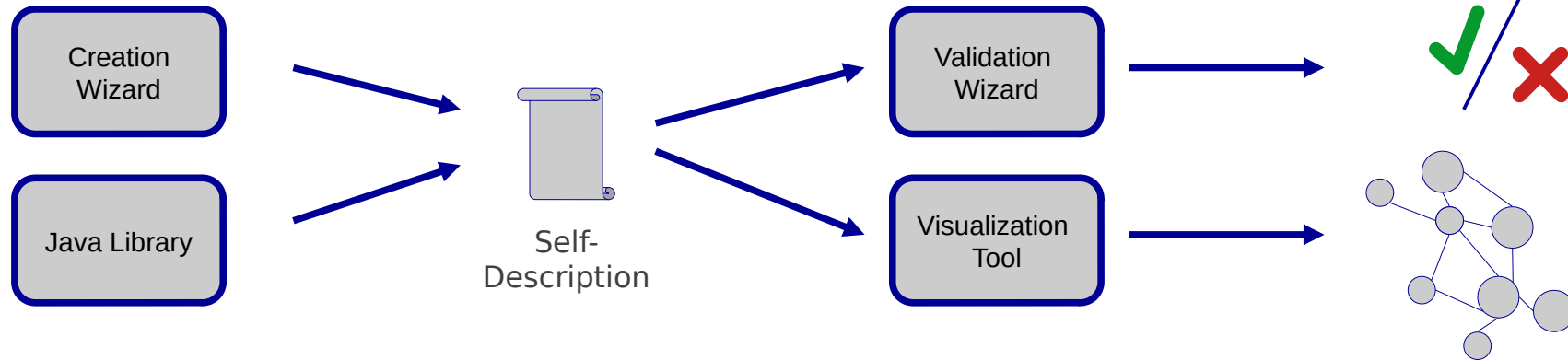
- Collections of mandatory and non-mandatory attributes available to describe class instances (=vocabulary), such as Provider or Service Offerings.
- Constraints to use vocabulary



# 03

For Users:  
Tools and Tutorials

# Tool Support



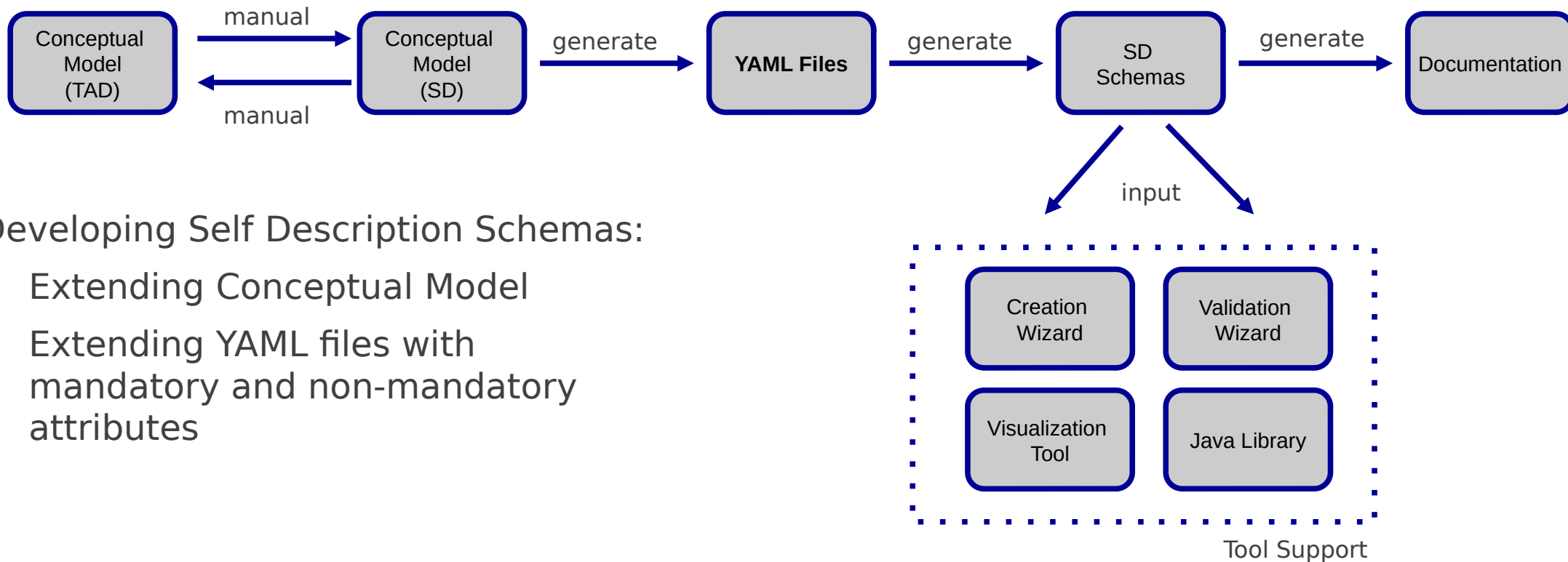
Tool	Scope	Online
Creation Wizard	Web UI to create Self Descriptions	<a href="https://gaia-x.fit.fraunhofer.de/">https://gaia-x.fit.fraunhofer.de/</a>
Java library	Create and Manage Self Descriptions within Java	To be announced
Validation Wizard	Web UI to verify if a given Self Descriptions is Schema compliant	CW 6
Visualization Tool	Hierarchical visualization of Self Descriptions	To be announced
Tutorial	<a href="https://gitlab.com/gaia-x/gaia-x-community/gaia-x-self-descriptions/-/tree/master/documentation/sd-tutorial">https://gitlab.com/gaia-x/gaia-x-community/gaia-x-self-descriptions/-/tree/master/documentation/sd-tutorial</a>	Under development
SD Samples	<a href="https://gitlab.com/gaia-x/gaia-x-community/gaia-x-self-descriptions/-/tree/master/implementation/instances">https://gitlab.com/gaia-x/gaia-x-community/gaia-x-self-descriptions/-/tree/master/implementation/instances</a>	Under development

# 04

For Developers:  
Governance Process &  
Single Point of Truth

# Governance Process & Single-Point-of-Truth

Implementing single-point-of-truth for Self Descriptions attributes.



Developing Self Description Schemas:

- Extending Conceptual Model
- Extending YAML files with mandatory and non-mandatory attributes

# 05

## Next Steps

# Next Steps

## Self Description Schema

- Service types:
  - Infrastructure-as-a-Service: Virtual Machines and Bare Metal
  - Data-as-a-Service (DaaS),
  - Kubernetes-as-a-Service (K8saaS)
- Extend/Refine Conceptual Model
- Define attributes

## Tool Support

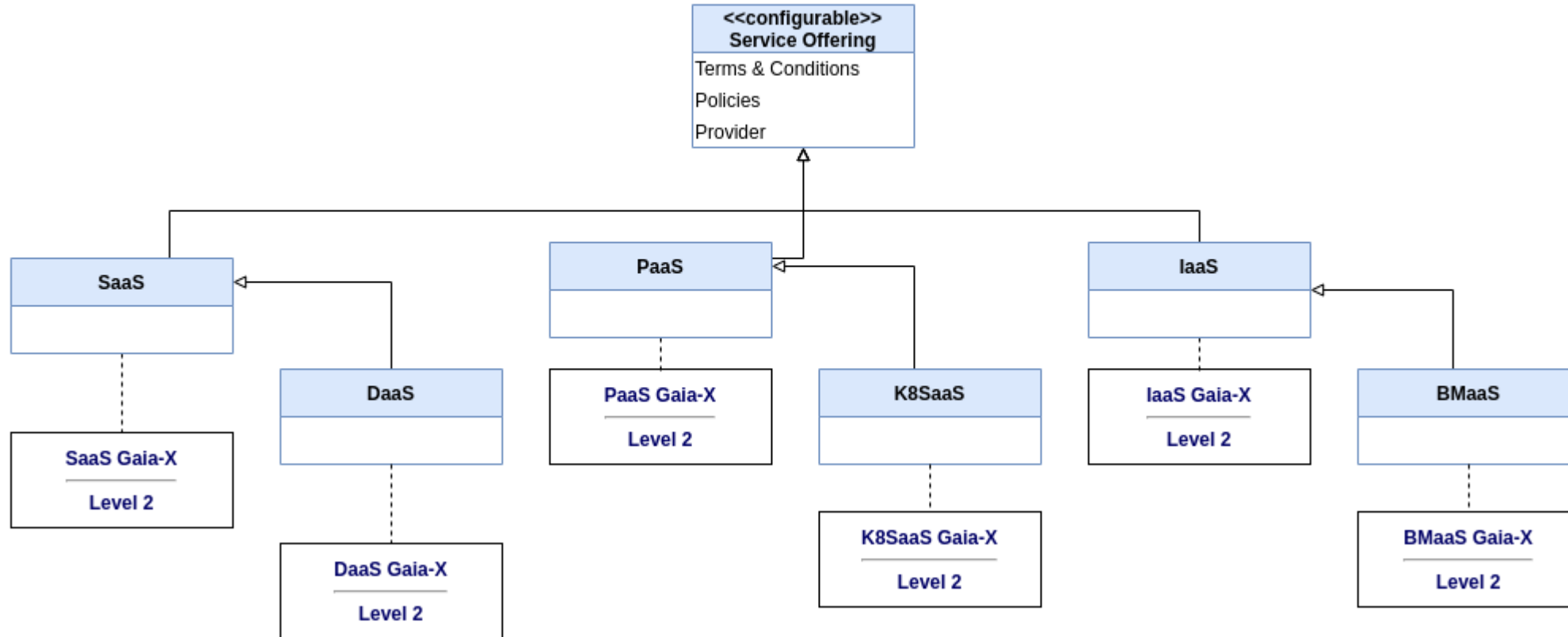
- Publishing all tools

## CI/CD Pipeline

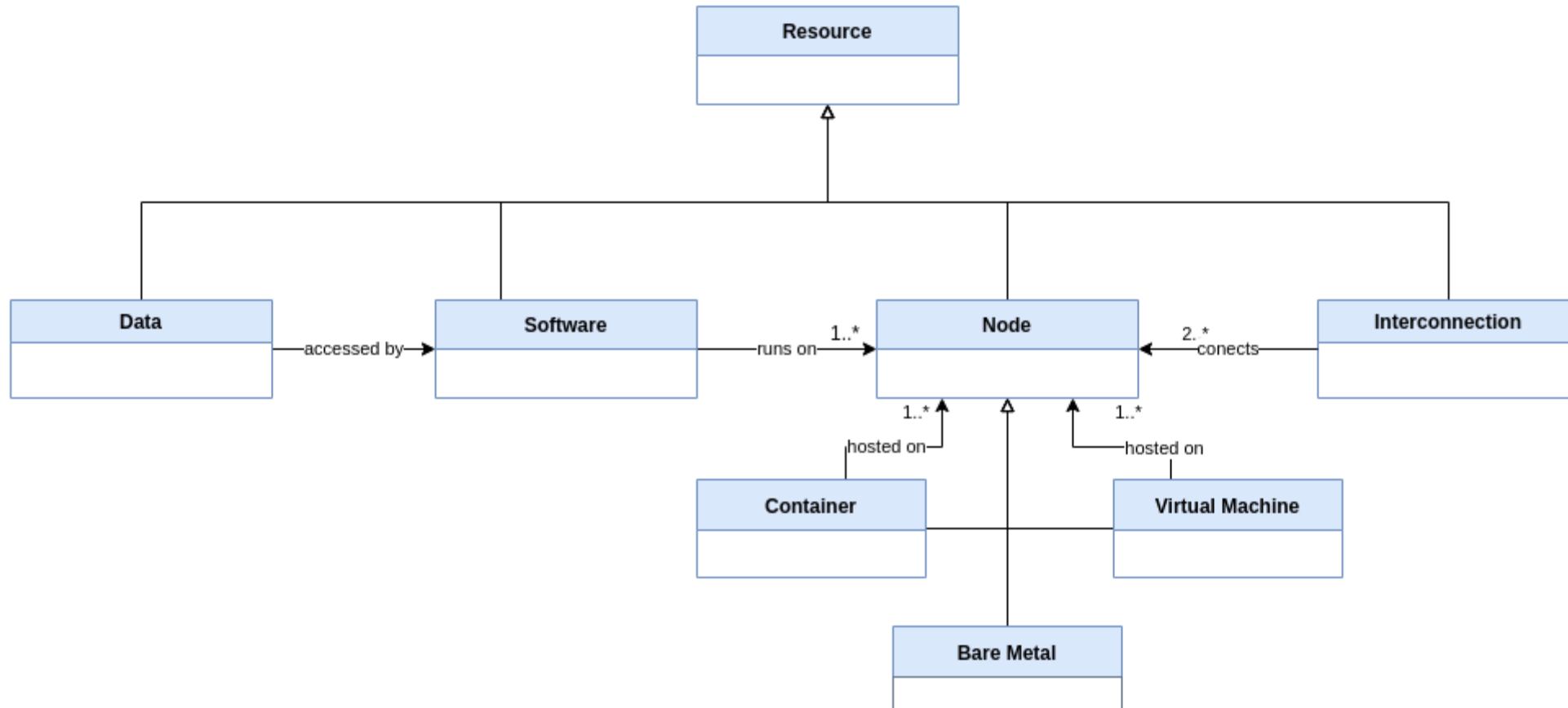
- Implementing full automation



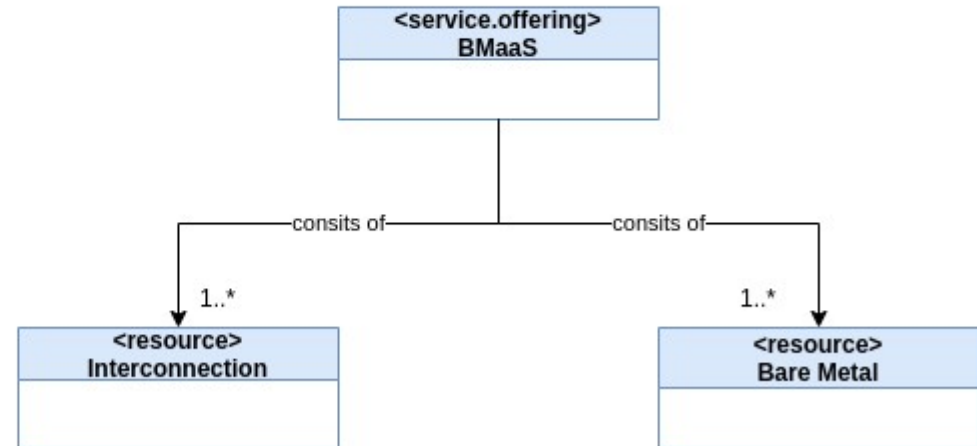
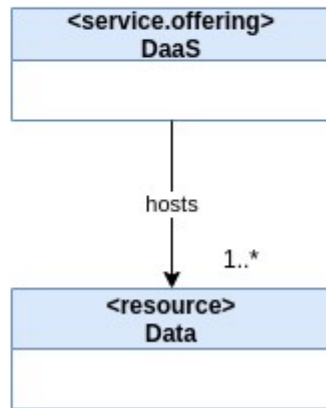
# Service Offering - Extension



# Resource - Extension



# Service Composition



—  
**Be part of gaia-x and create  
a future that is both open and  
fair!**

**We are happy to have you  
with us and welcome you.**