

Compliance Journeys in SAGE: GDDS

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SAGE: GDDS

The Data Space for a
Sustainable Green Europe

Aspirations of SAGE:GDDS

Pilot Use Cases migrate business and workflows onto common SAGE:GDDS platform (late 2026)

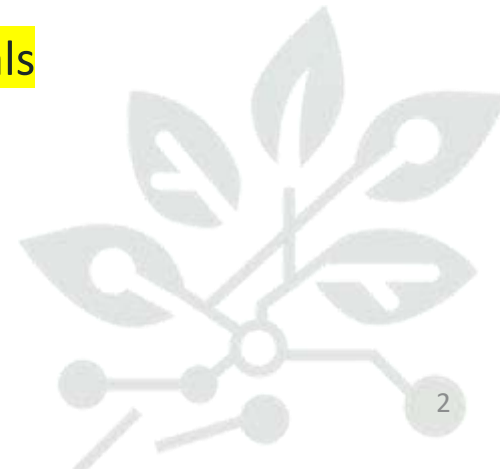
SAGE:GDDS links to – and consolidates – fragmented data ecosystems (including open data)

Use Cases can confidently use this data, plus their "own" data (even if restricted), on SAGE:GDDS platform

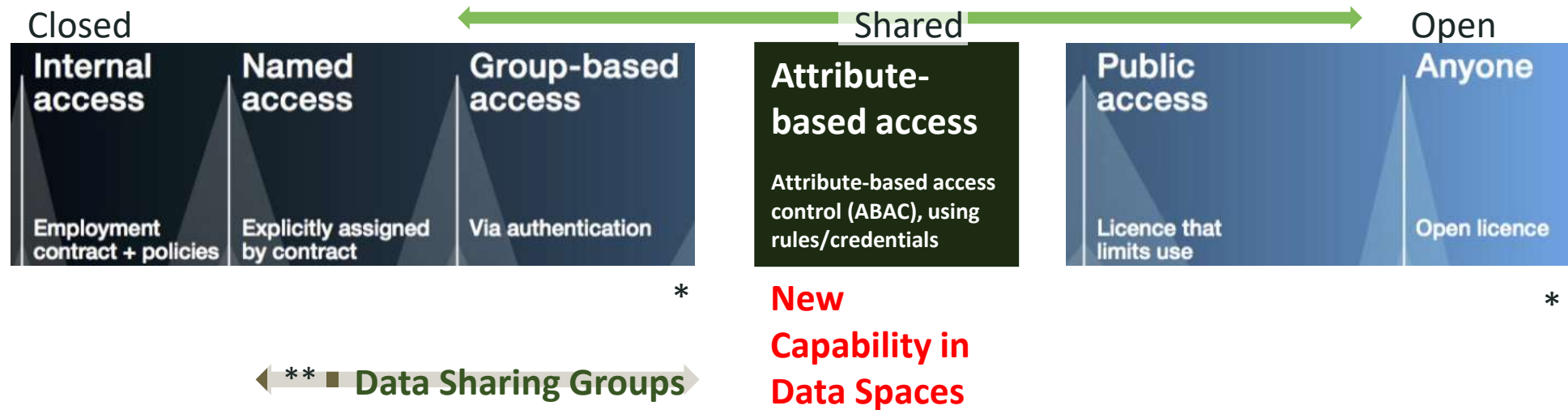
- Legal, technical, operational components deliver data sovereignty for participants
- SAGE:GDDS working with public holders of valuable but restricted data (e.g. hydrology, soil) to join the platform

SAGE:GDDS interoperable with other data spaces

- Recognize externally provided digital identities (e.g. eIDAS, eduGAIN), claims & credentials
- Co-create interoperable governance artefacts



SAGE:GDDS Must Deliver Data Sovereignty Needed by Both Supply-Chain and Multi-Layer Use Cases



- Data Spaces add limited value when working **ONLY** with open data
 - But: plenty of data, in both research and in Green Deal, is **NOT** open
 - E.g. endangered species, national security sensitive map data, environmental factors for critical infrastructure...
- Data Spaces enable holders of restricted data to manage its visibility, access and use
- Governance Framework → Legal, Technical and Organisational Interoperability

* Graphics: Open Data Institute, 2020, CC-BY 4.0

** A "Data Sharing Group" with 2 members!

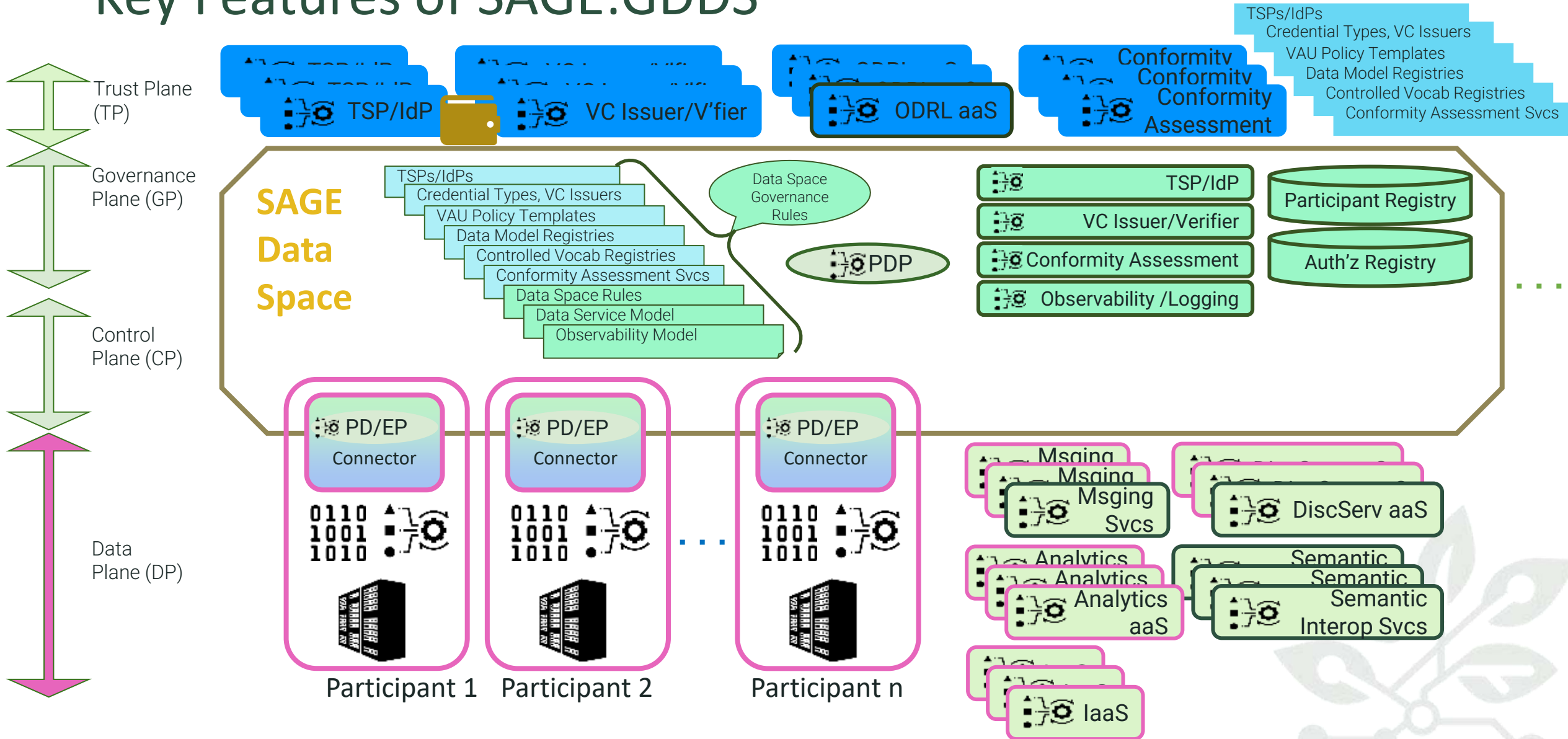
Components of Trust Framework for Data Sovereignty

	Data Provider	Data Requester
Legal	Use Common Vocabulary(ies) for ODRL terms (e.g. extending W3C:DPV to cover other relevant EU legislation) All Participants agree to SAGE Participation Agreement, including <ul style="list-style-type: none"> • ODRL Rule Templates for Data Visibility, Access, Use • Credential Types • Which Credentials satisfy which Rules (mapping) • Processes for enforcement, sanctions, reputation management 	
Technical	Select Rule Templates for Visibility, Access & Use for each Data Product <ul style="list-style-type: none"> • Check conformity when onboarding 	<ul style="list-style-type: none"> • Digital Identity bound to Legal Identity, linked to Credentials • Present Credentials that satisfy Rules of selected Products
	ODRL engine evaluates Credentials against Rules <ul style="list-style-type: none"> • Requester sees only Products where they satisfy Visibility Rules • Requester negotiates access only for Products where they satisfy Access & Use Rules • Requester respects agreed Use Rules at risk of sanctions under Participation Agreement 	
	Conformity Assessment for Data Connectors, Secure Processing/Trusted Research Environments (SPEs, TREs)	
Operational	<ul style="list-style-type: none"> • Monitoring, Enforcement, Sanctions • Reputation management systems 	

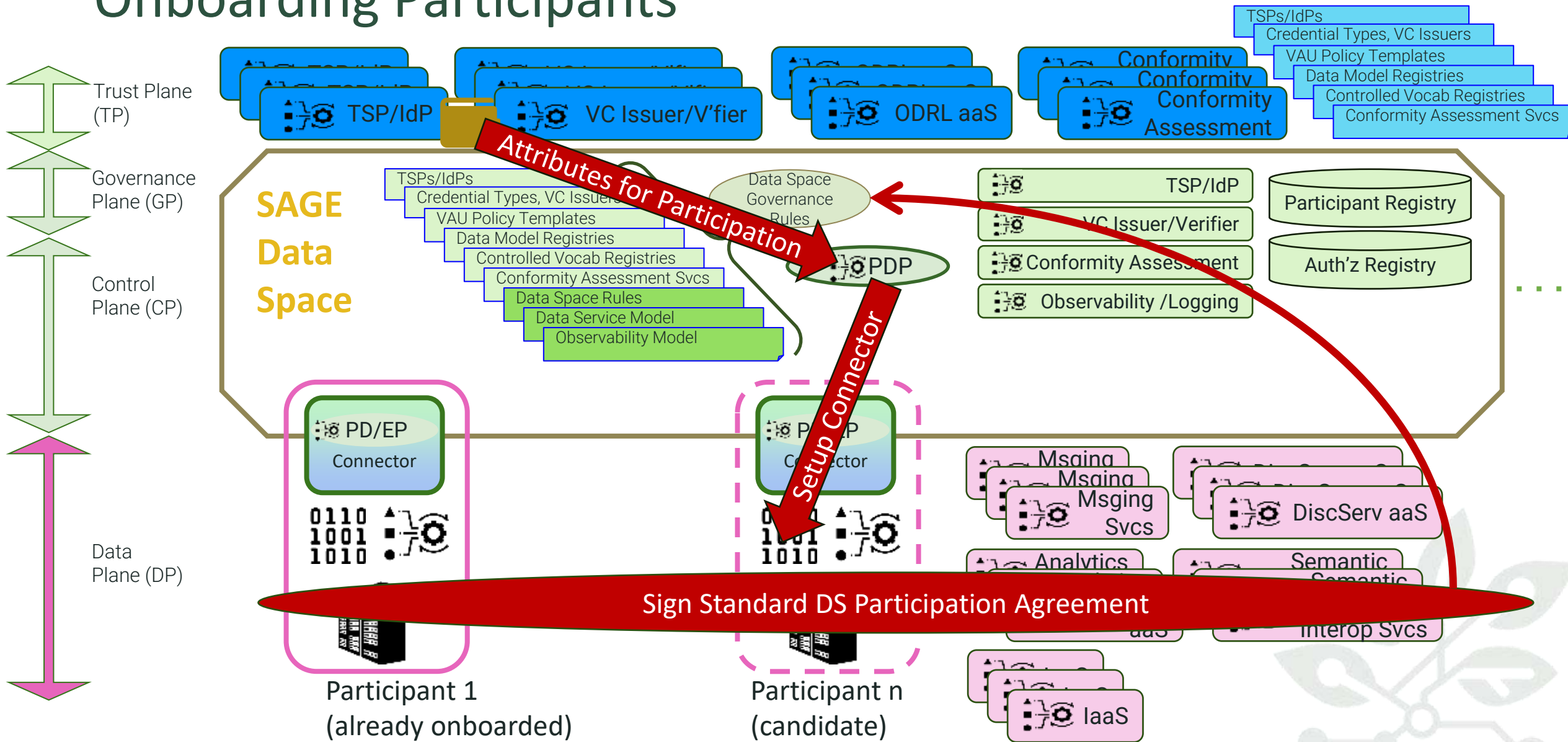
Compliance Journey for Data Sovereignty

Step	Data Provider	Data Requester
Data Space Setup	Define Participation Agreement, Credential Types, Policy Templates, ODRL Vocabulary	
Participant Onboarding	Sign Participation Agreement	Sign Participation Agreement Capture Credentials in Participant Wallet
Data Product Onboarding	Set Policies, Validate conformity of Data Products to Rules	
Discovery Services	Evaluate Credentials to decide what Products can be displayed	Provide Credentials required for Visibility
Evaluate Access Requests	Evaluate Credentials to decide whether to approve Access/Use	Select Product, provide Credentials required for its Access/Use <ul style="list-style-type: none"> • Reserve Secure Processing Environment if required
Data Exchange		<optional – confirm continued approved access status>
Rule Enforcement	Monitor Access/Use for policy violations	
Reputation Mgmt, Sanctions	Review performance for reputation, Apply sanctions if violations occur	

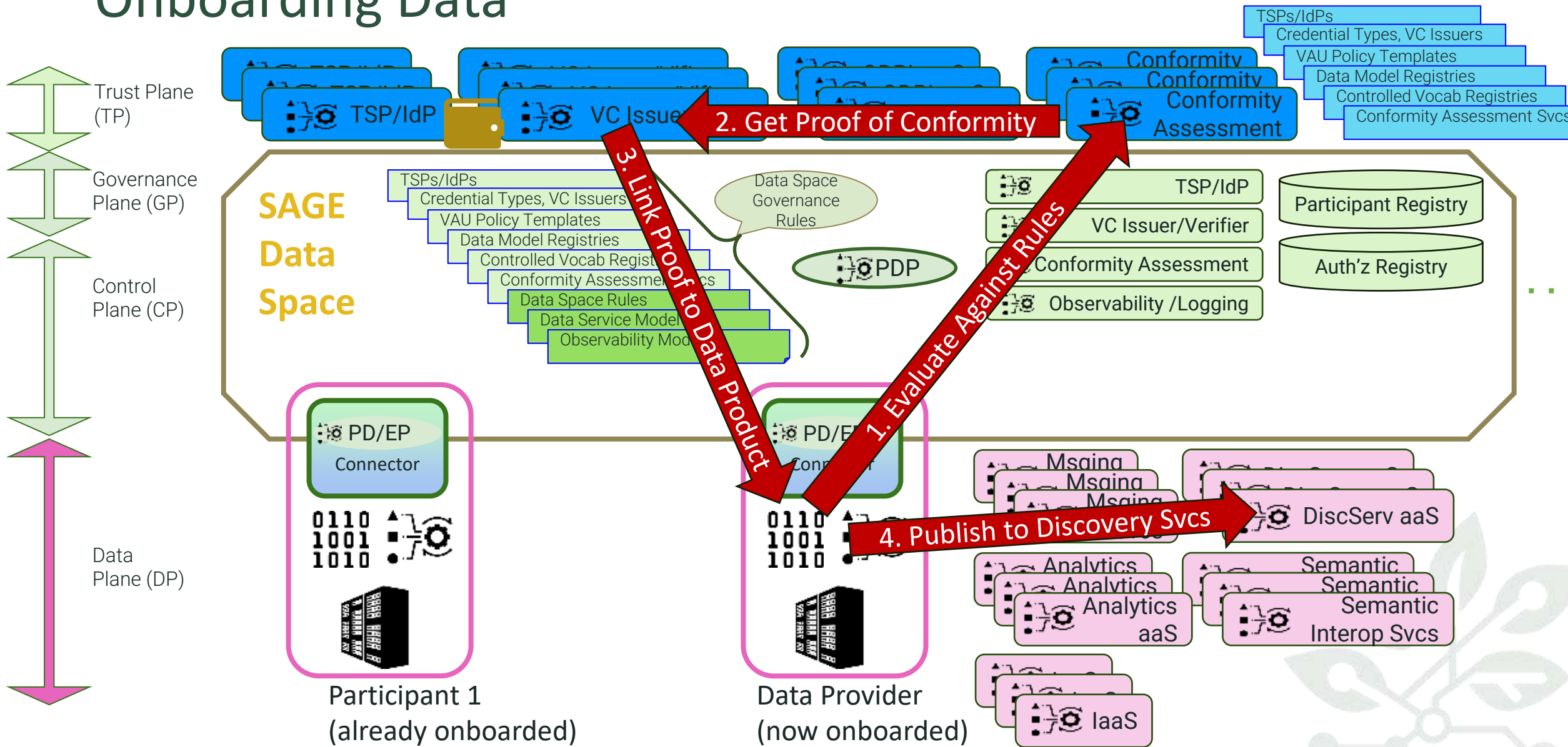
Key Features of SAGE:GDDS



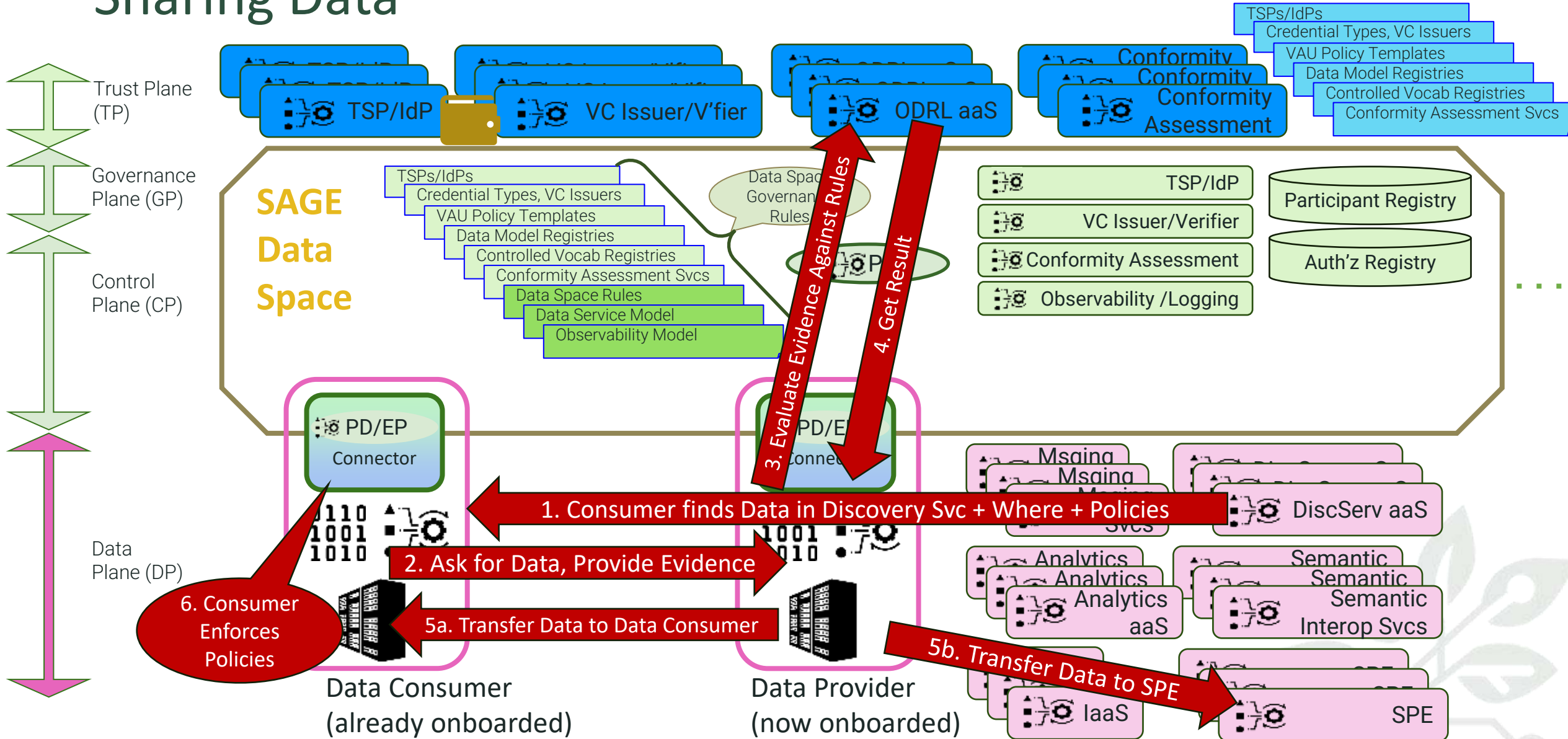
Onboarding Participants



Onboarding Data



SAGE Sharing Data





 greendealdata.eu

 [SAGE Data Space](#)



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