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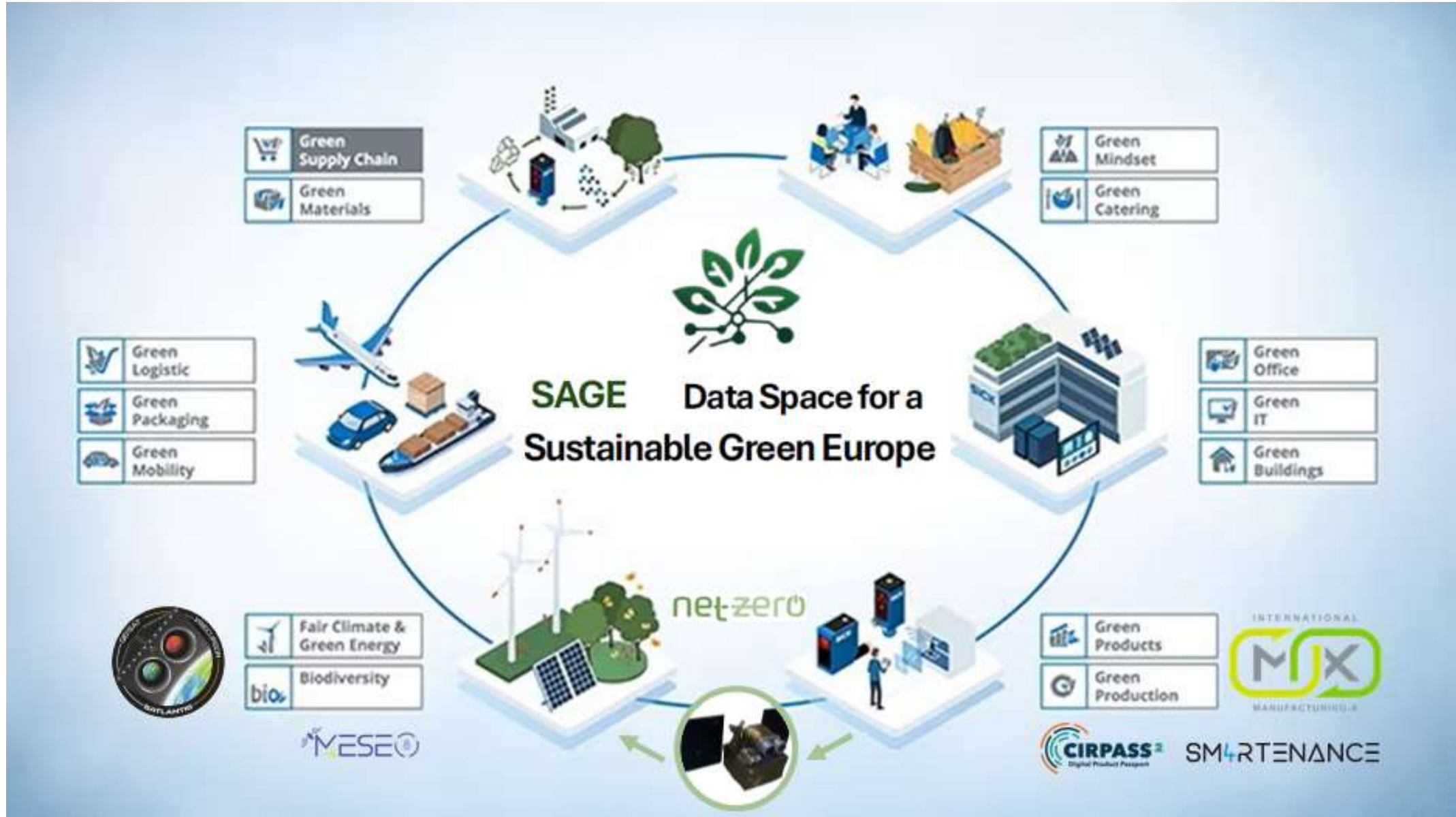


Co-funded by
the European Union



SAGE: GDDS

The Data Space for a
Sustainable Green Europe



Aspirations of SAGE:GD DS

Pilot Use Cases migrate business and workflows onto common SAGE:GD DS platform (Phase 2 – late 2026)

- New Use Cases can test in Phase 2 and reach production in Phase 3 (mid 2027).

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

- ...provides tools for efficient discovery and semantic interoperability
- ...will include open data sources (e.g. Copernicus, EMODNet, EEA)

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

- Requires legal, technical, operational components to deliver data sovereignty for participants
 - *Learn more in “Embarking on Compliance journey: Data Spaces as a Technical Backbone for Responsible AI” Wednesday 14h00 Paris 2*
- SAGE:GD DS working with public holders of valuable but restricted data (e.g. hydrology, soil) to join the platform

SAGE:GD DS interoperable with other data spaces

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



10 Pilot Use Cases Funded in SAGE...

UC1 Forest
Dataspace (FDS)
Cluster -WE

UC2 Pollinator
Monitoring
Dataspace (PMDS) -
PSNC

UC3 Soil Circularity
Dataspace (SCDS) -
SOGELINK (SOG)

UC4 Construction
Environment CO2
Hub & Building
Twins (BECO2) -
iSHARE (IS)

UC5 Circular
Textiles Dataspace
(CTDS) -TEXroad

UC6 Net-Zero Zero
Defect
Manufacturing -
INNO-TRI-SAT

UC7 Climate
Investment Plan
Dataspace (CIPD) -
RISE

UC8 Global
Environmental
ExpoSurE (GEESE) -
Utrecht University

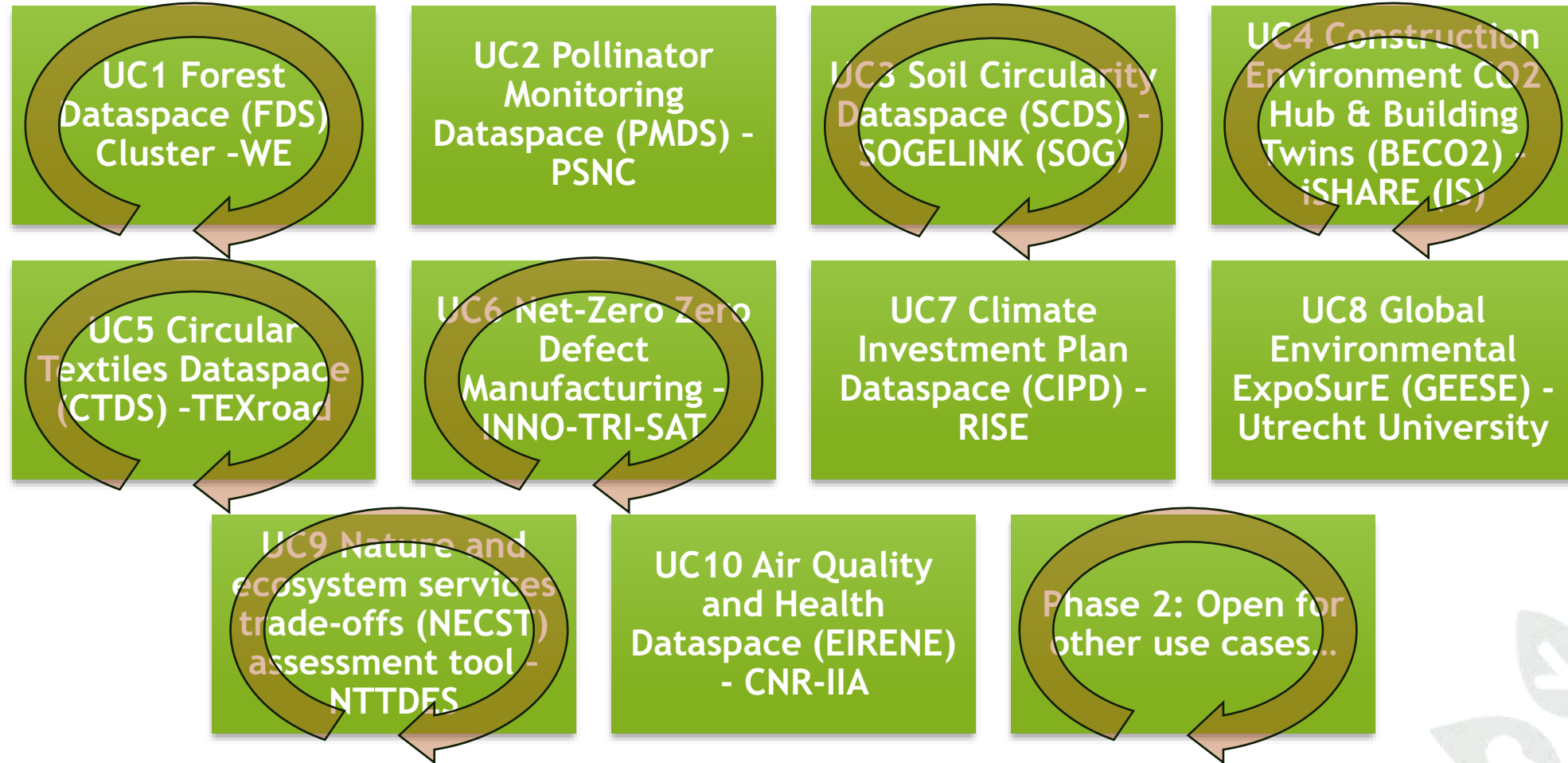
UC9 Nature and
ecosystem services
trade-offs (NECST)
assessment tool -
NTTDES

UC10 Air Quality
and Health
Dataspace (EIRENE)
- CNR-IIA

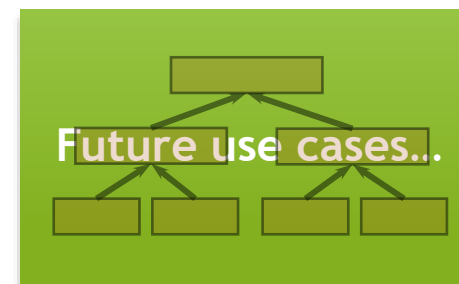
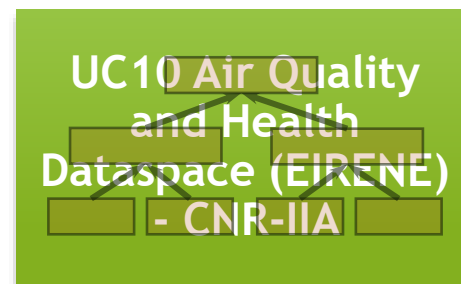
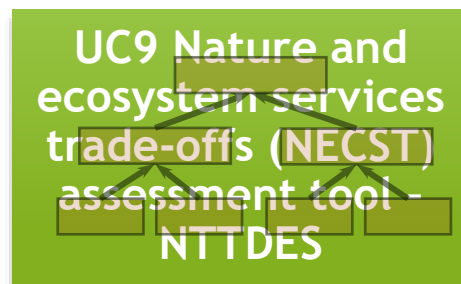
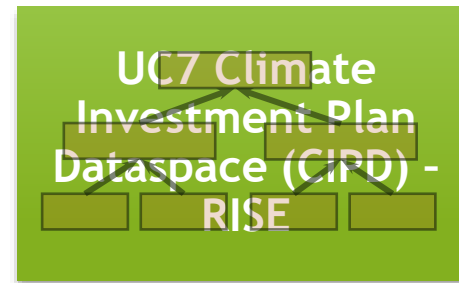
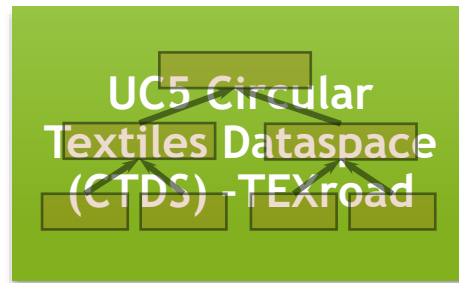
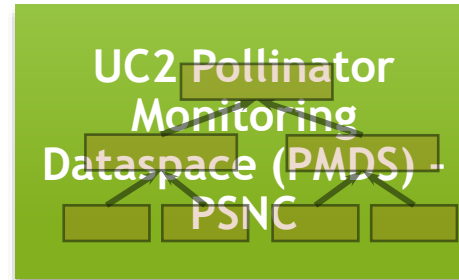
Future use cases...



Use Cases Involve Supply-Chain, Circularity, Reporting

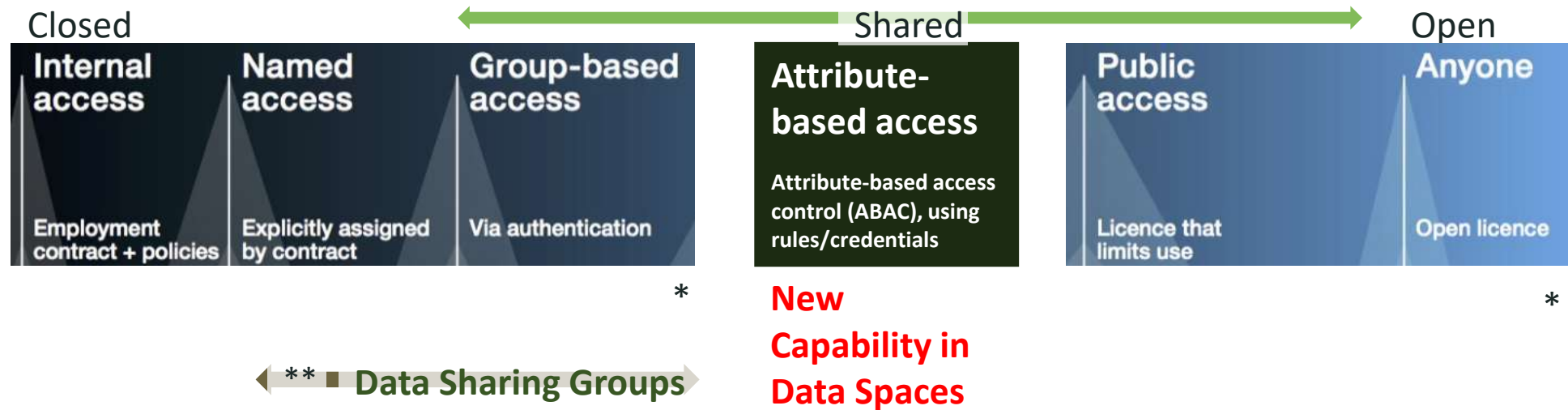


Use Cases Integrate Multi-Layer Data, Governance & Reporting



SAGE:GDDS Must Deliver Data Sovereignty

That Works For Both Supply-Chain and Multi-Layer Use Cases



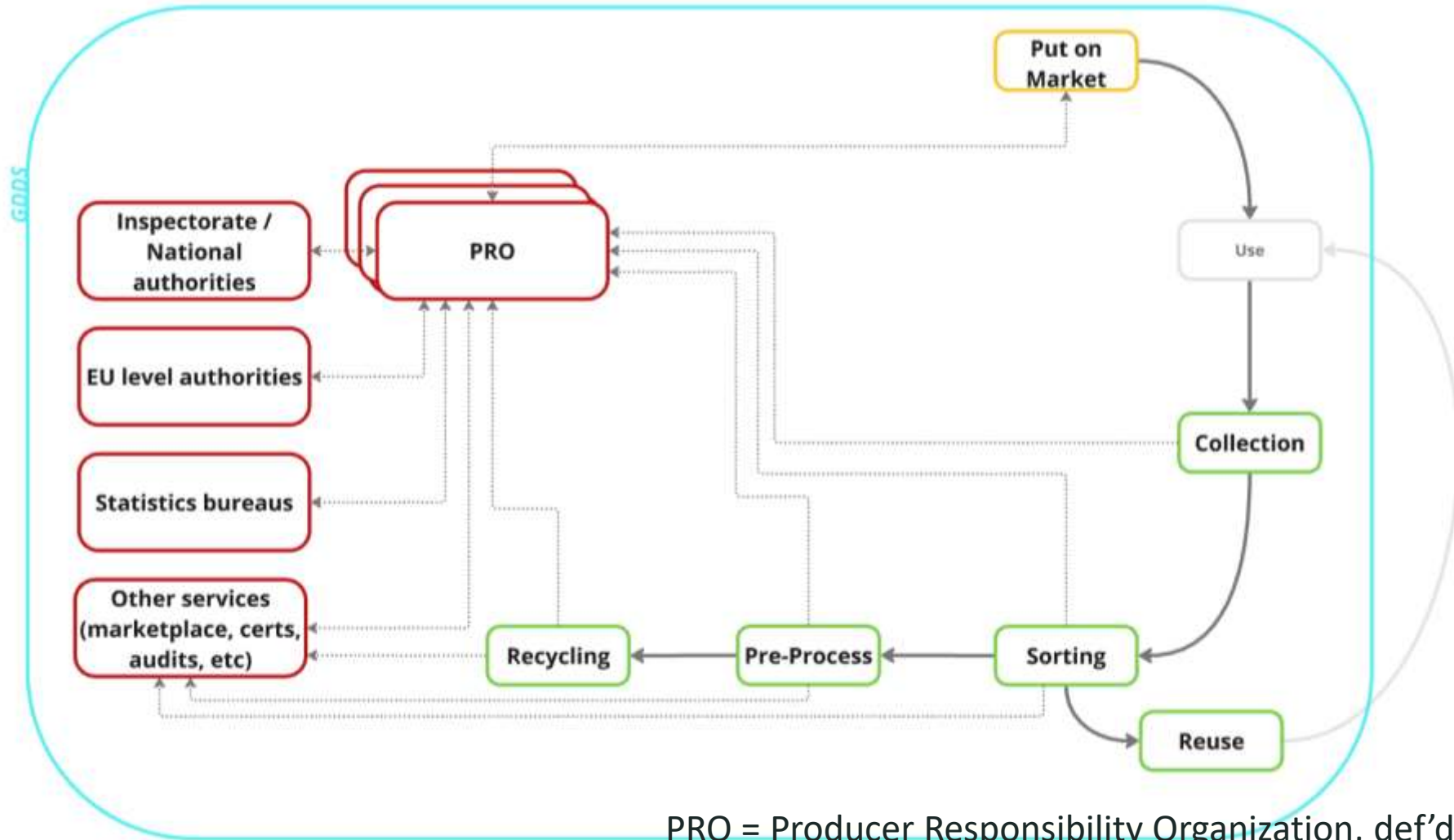
- Data Spaces add limited value when working ONLY with open data
 - But: plenty of data, in both research and in Green Deal, is NOT open
 - E.g. endangered species, national security sensitive map data, environmental factors for critical infrastructure...
- Data Spaces enable holders of restricted data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

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

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

Data Sharing Groups Isolate Visibility/Access/Use Requirements

E.g. For CO₂ Reporting, Soil Circularity, Circular Textiles, Net Zero Manufacturing



Key Features of SAGE:GDDS

