

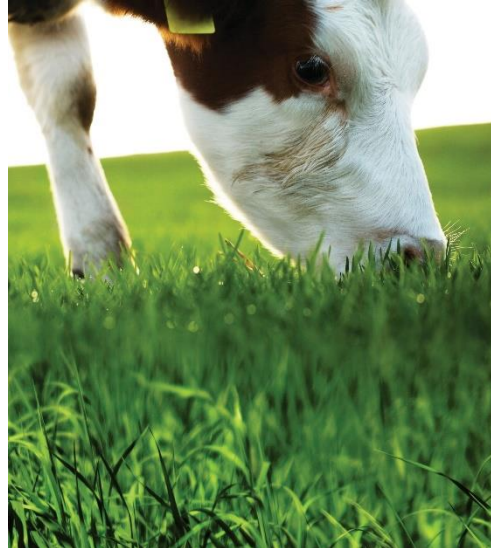


Implementing the DEMETER reference architecture

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INTERNATIONAL

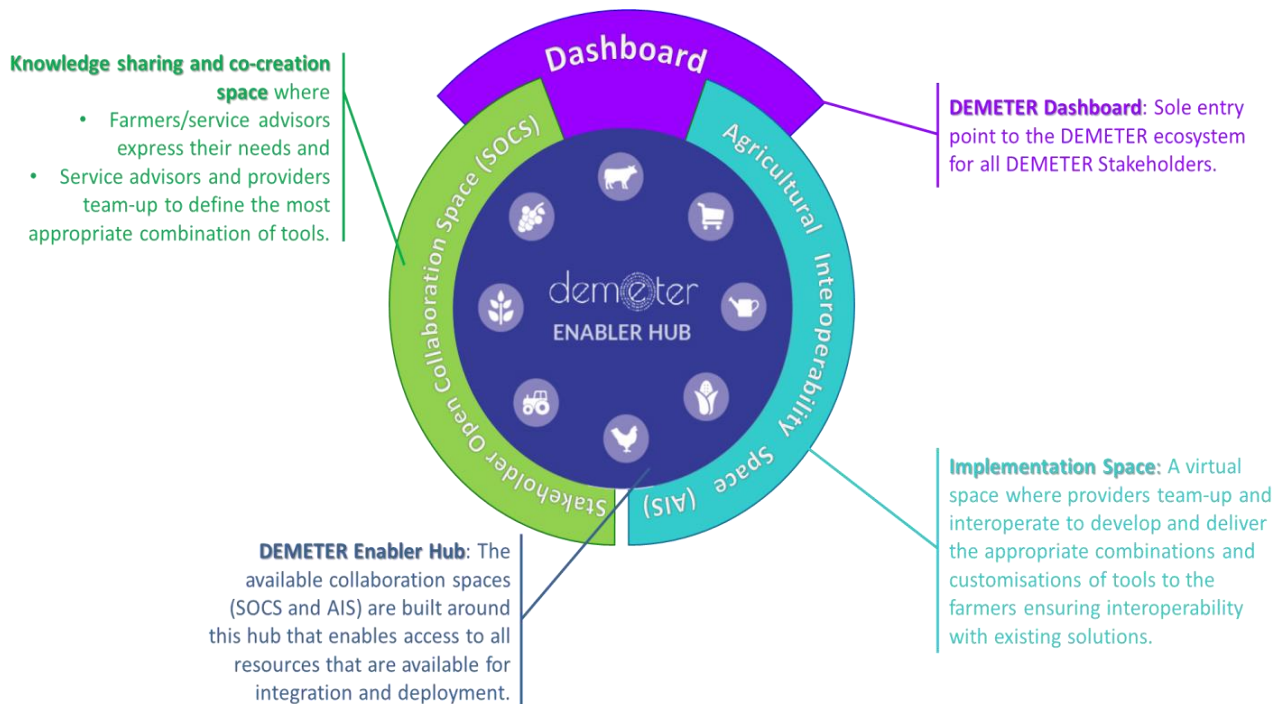


H2020 Agri-Tech Research in Europe
Webinar, 18 June 2020



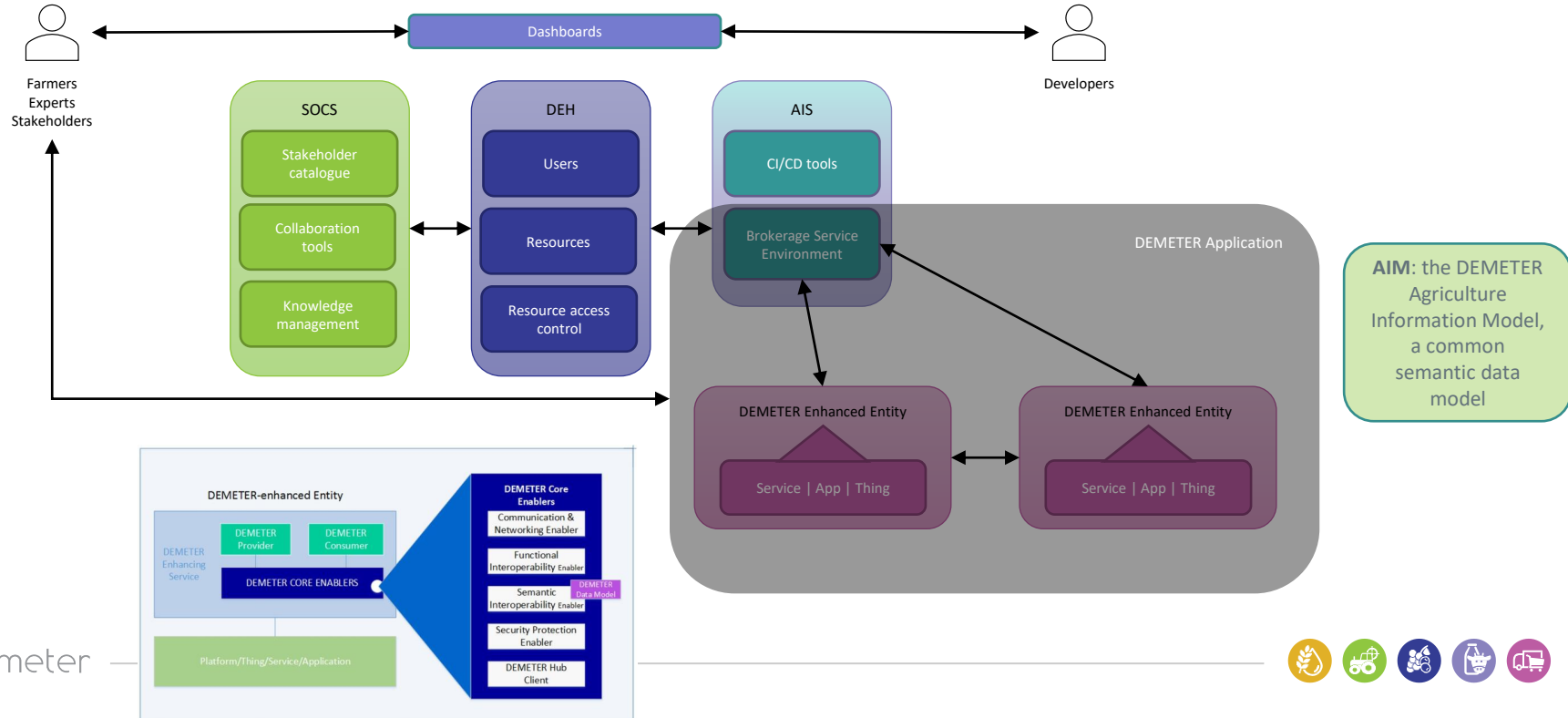


The main DEMETER elements



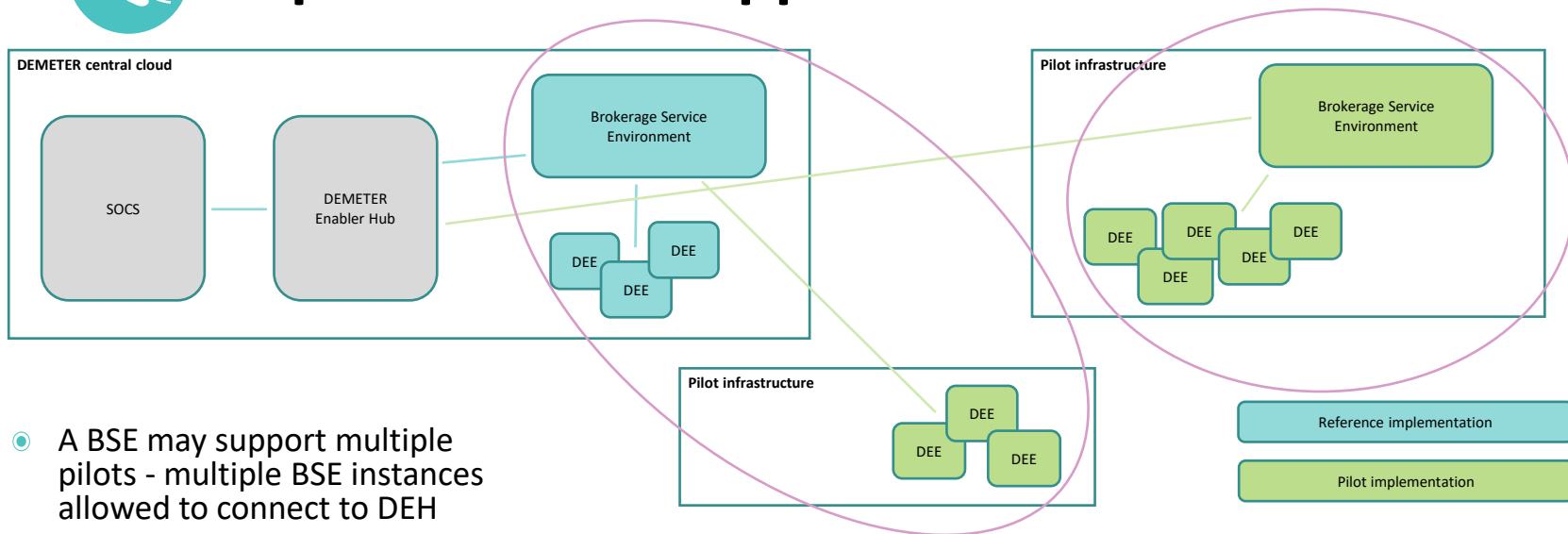


Arraying the main elements





Implementation approach

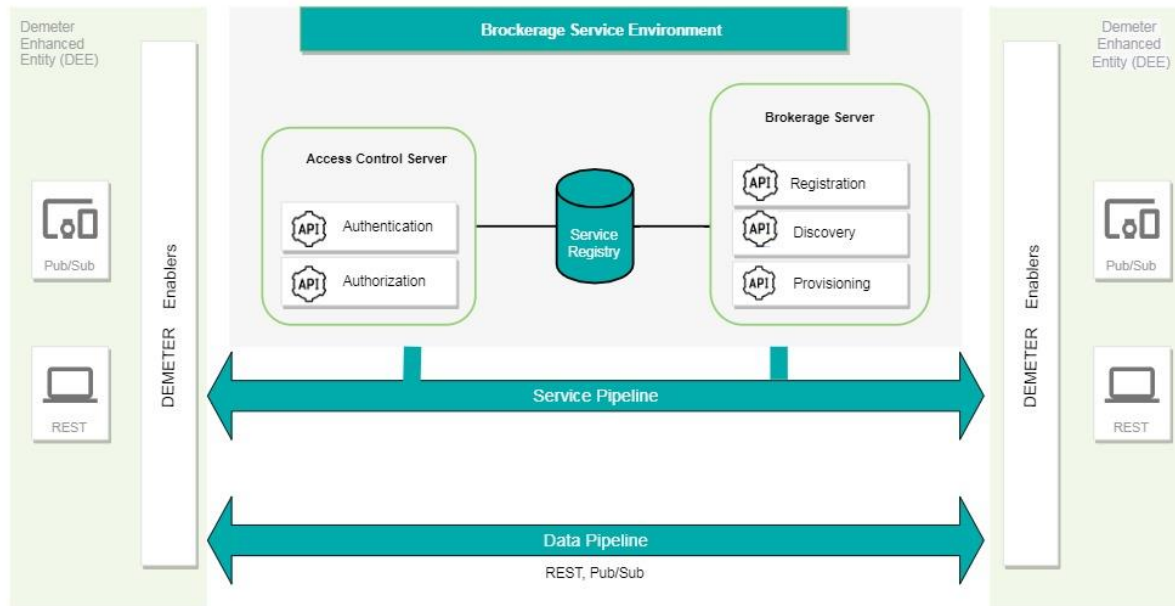


- A BSE may support multiple pilots - multiple BSE instances allowed to connect to DEH
- One DEH deployed within the project, but multiple are possible if required by business models
- Our implementation approach: provide a **concrete** implementation and at the same time allow full **flexibility** for business development



DEMETER Brokerage Service Environment (BSE)

- **Microservices**-based framework
- DEEs after **auth** will be able to consume BSE's API for service **registration/discovery/provisioning**
- DEEs will have direct communication through **REST** APIs with other DEEs
- Or, DEEs can subscribe to a DEE supporting the **publish-subscribe** pattern

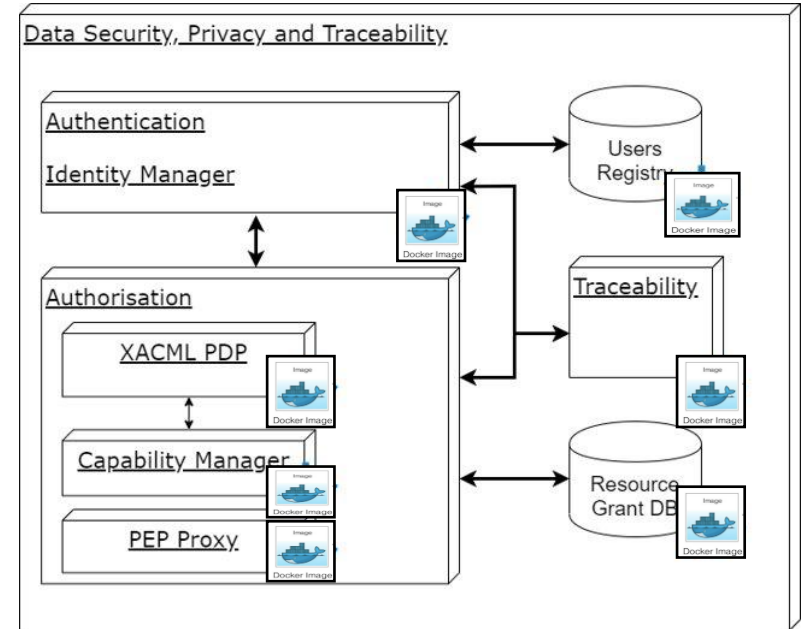




DEMETER Access Control Server (ACS)

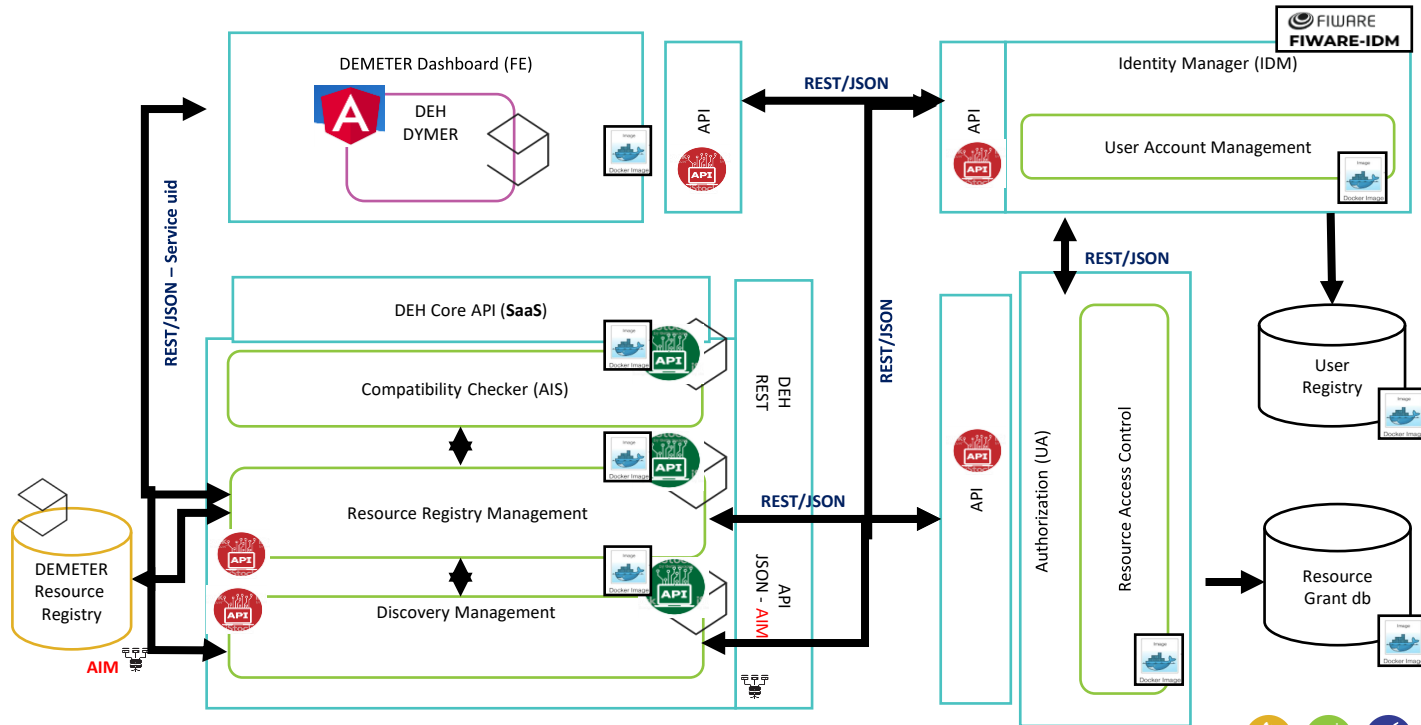
The Communication and Security Framework will provide

- authentication
 - authorization
 - information audit capabilities
- to
- DEMETER components **DEH** and **BSE**
 - DEMETER **Enablers** (Core and Advanced)





DEMETER Enabler Hub (DEH)





SOCS priority features



Stakeholders Catalogue

Discover who is part of the network

- User catalogue (Consumers, Service Advisors, Providers)
- Organisations Catalogue



Success Stories

DEMETER best practices, get inspired!

- Agrifood Trial Catalogue



Collaboration Tools

Share experiences and interact with the rest of the community, join forces, exploit synergies, build partnership.

- Blog & Discussion
- Events Matchmaking



Knowledge Management

Find out the most relevant resources shared by DEMETER partners

- Papers and publications
- References (Bookmarks)
- Events



Experimental Facilities

Integrate research and innovation processes in real life and controlled environments!

- Pilots Catalogue



Innovation Space

Create, share and manage your innovative ideas in a collaborative way

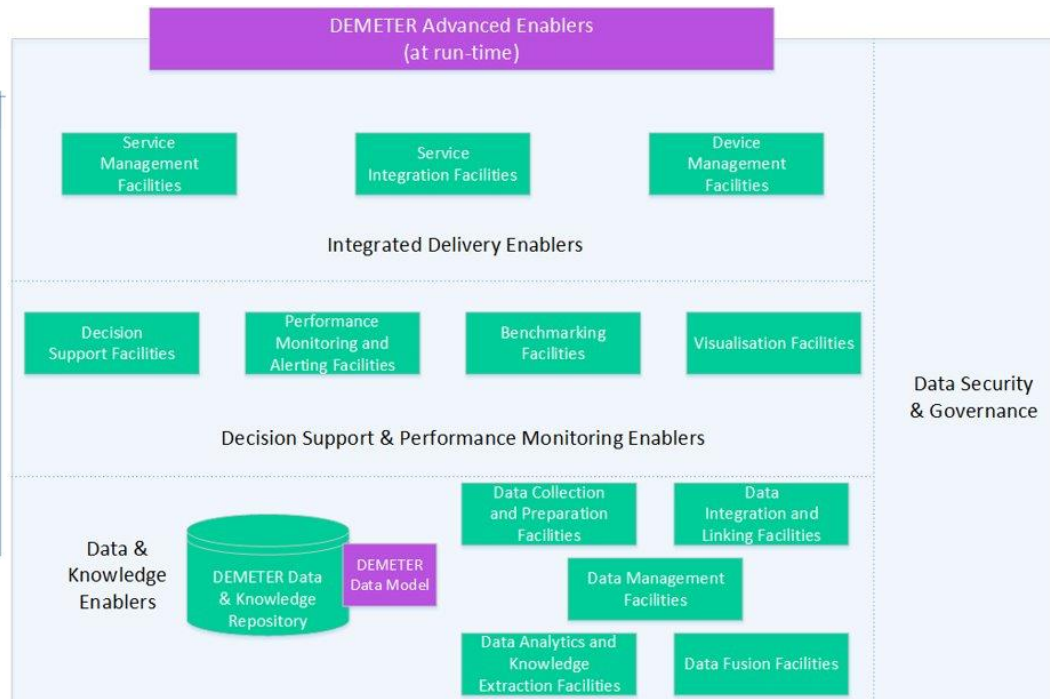
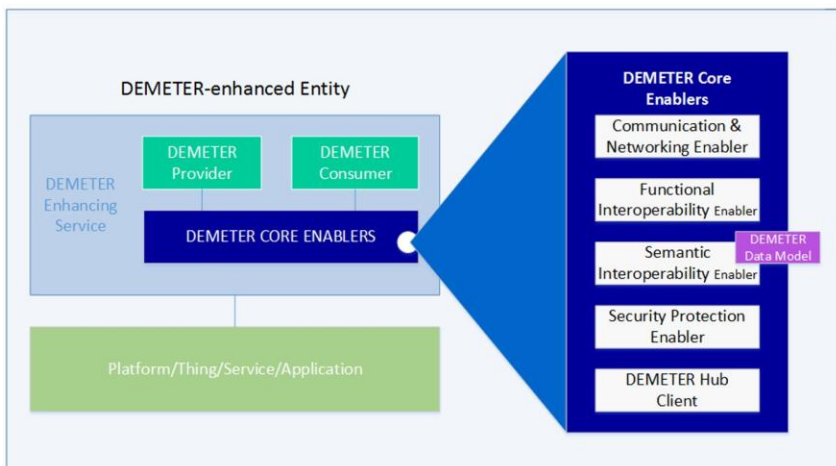
- Idea Management System
- Weight up decision
- Multi poll

Universal Search

Workflow and KPI

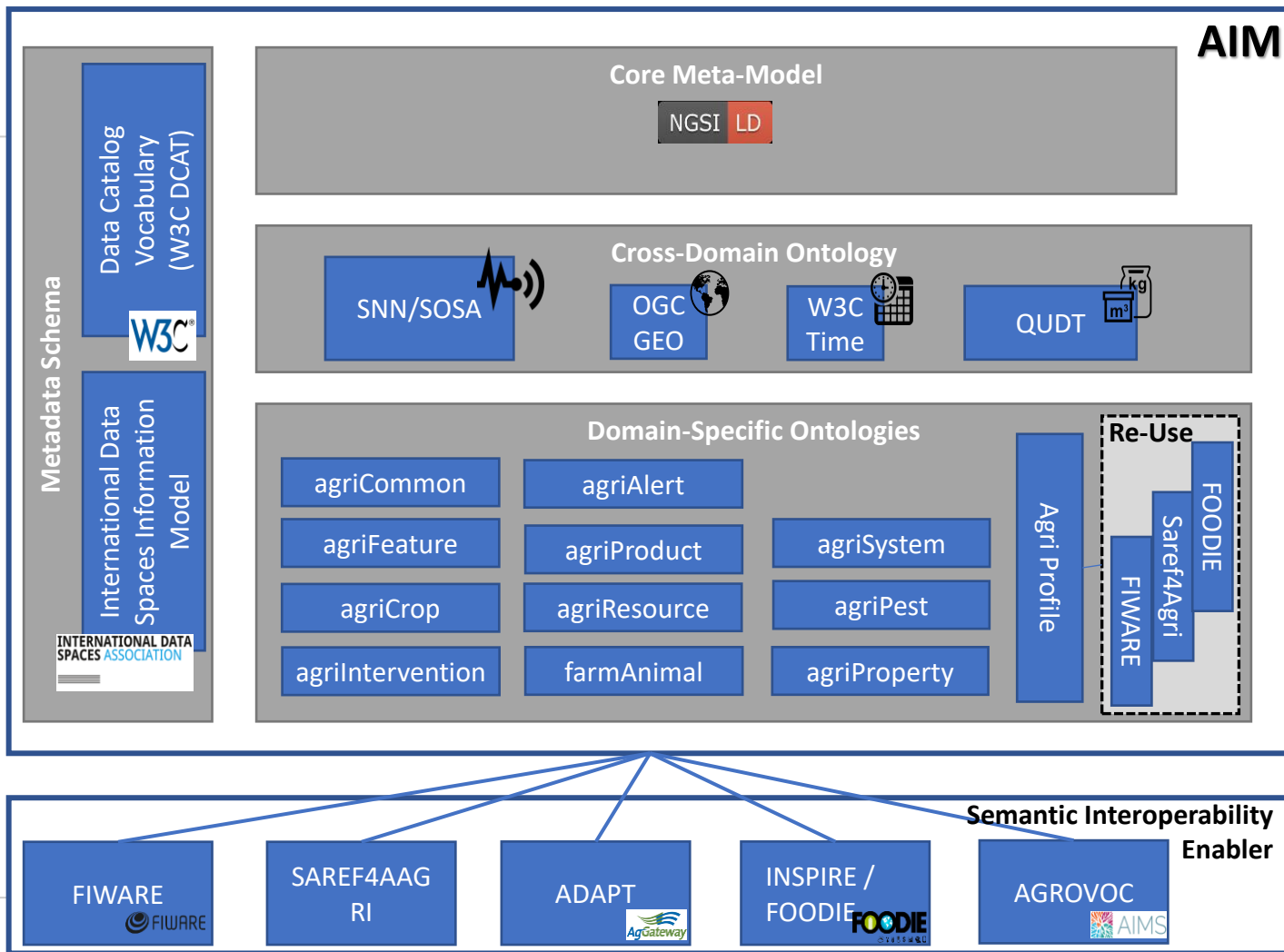


Enablers: under development



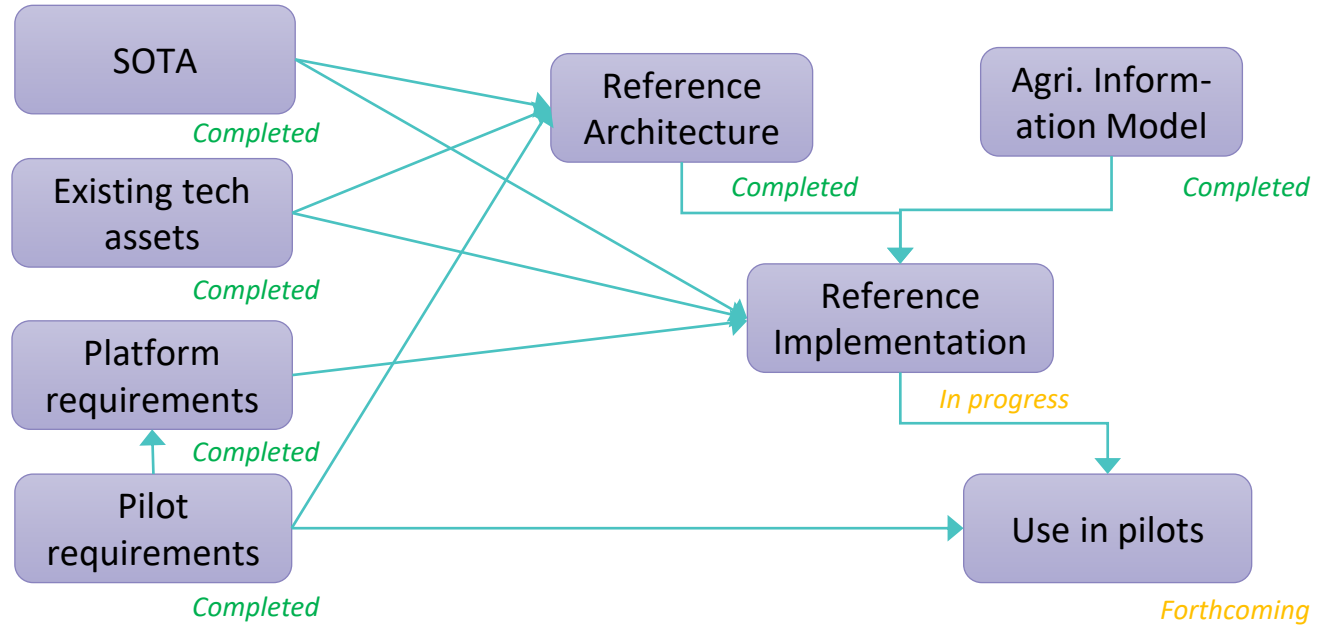
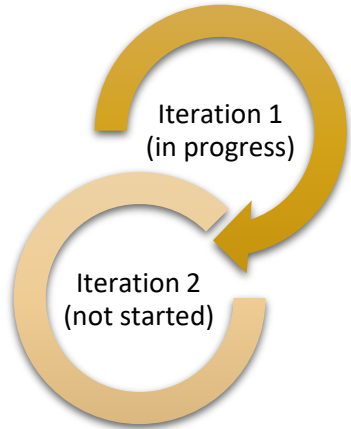


DEMETER Agriculture Information Model (AIM)





Roadmap: things falling into place



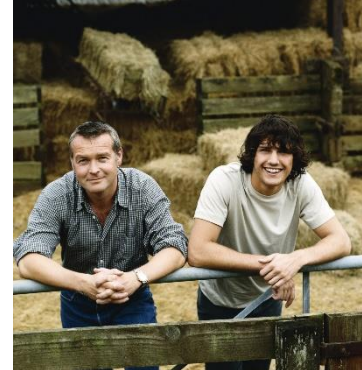
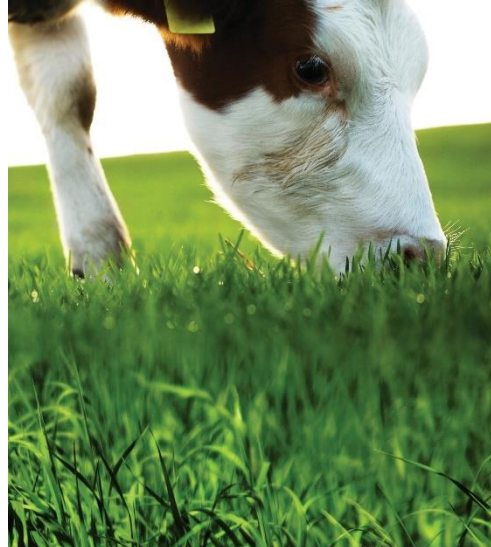


For more information visit:

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Thank you for your attention!



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