



SYNERGIES

Project Overview

13 September 2023

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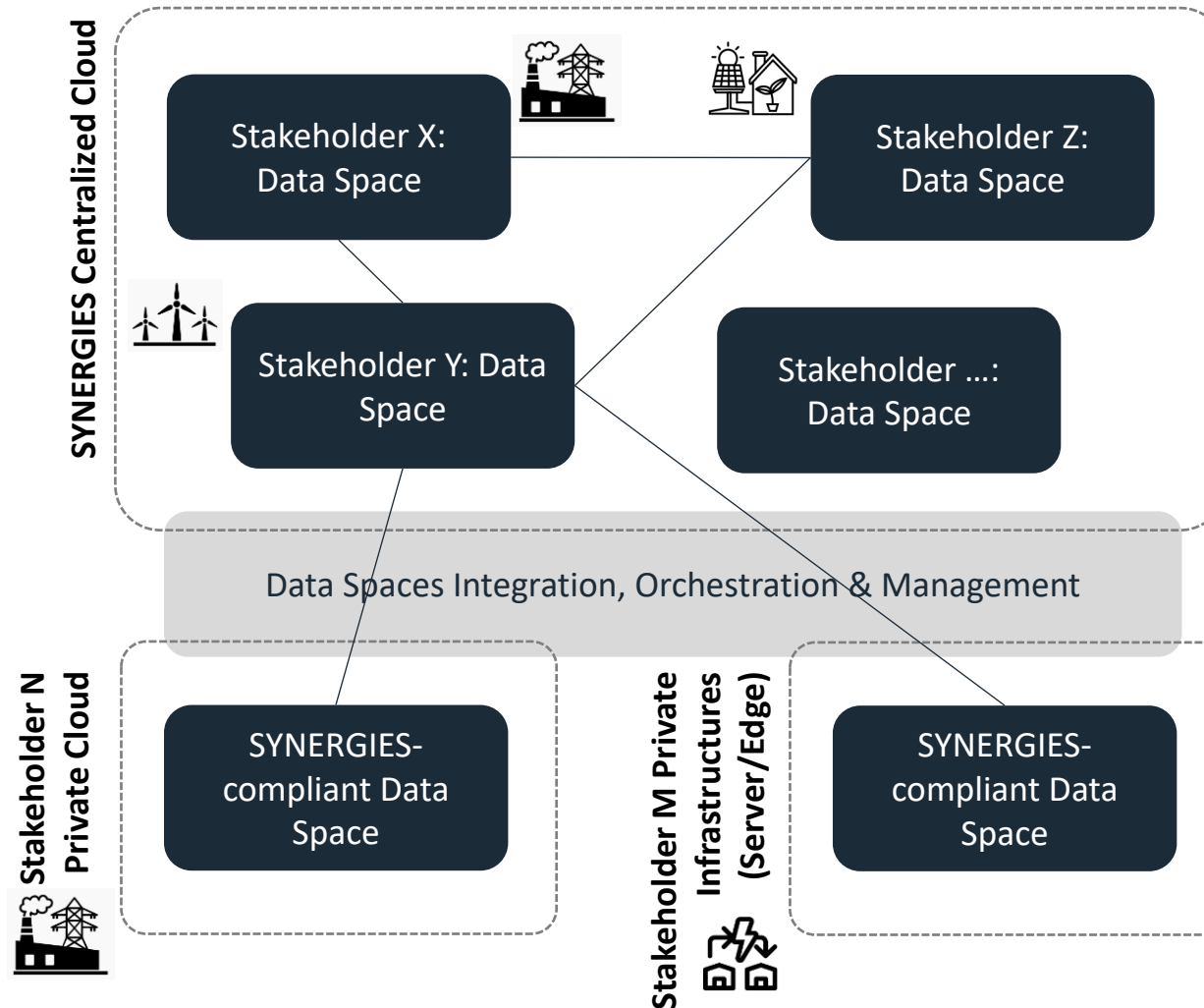
Suite5



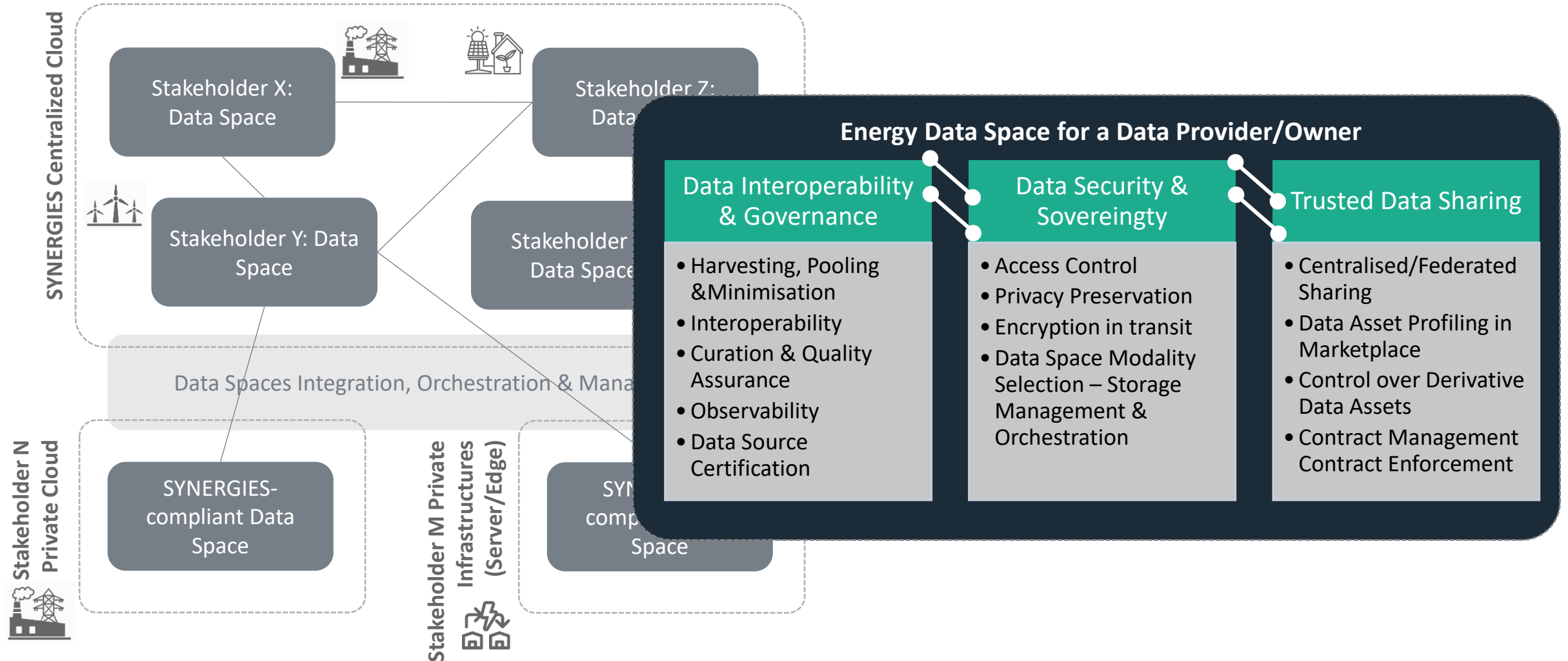
This project has received funding from the EU HORIZON Innovation Actions
- Sustainable, secure and competitive energy supply CL-5-2021-D3-01

Grant Agreement: 101069839

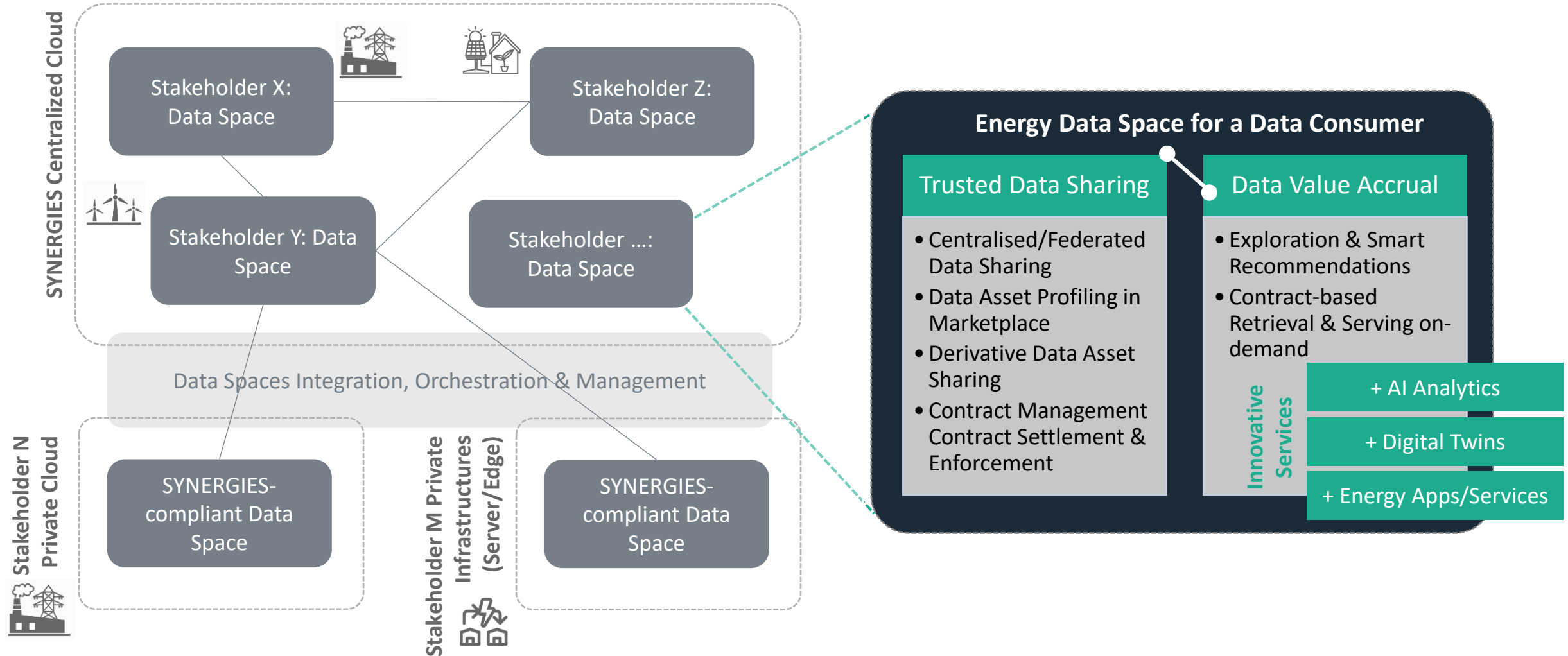
SYNERGIES Federated Data Spaces Approach



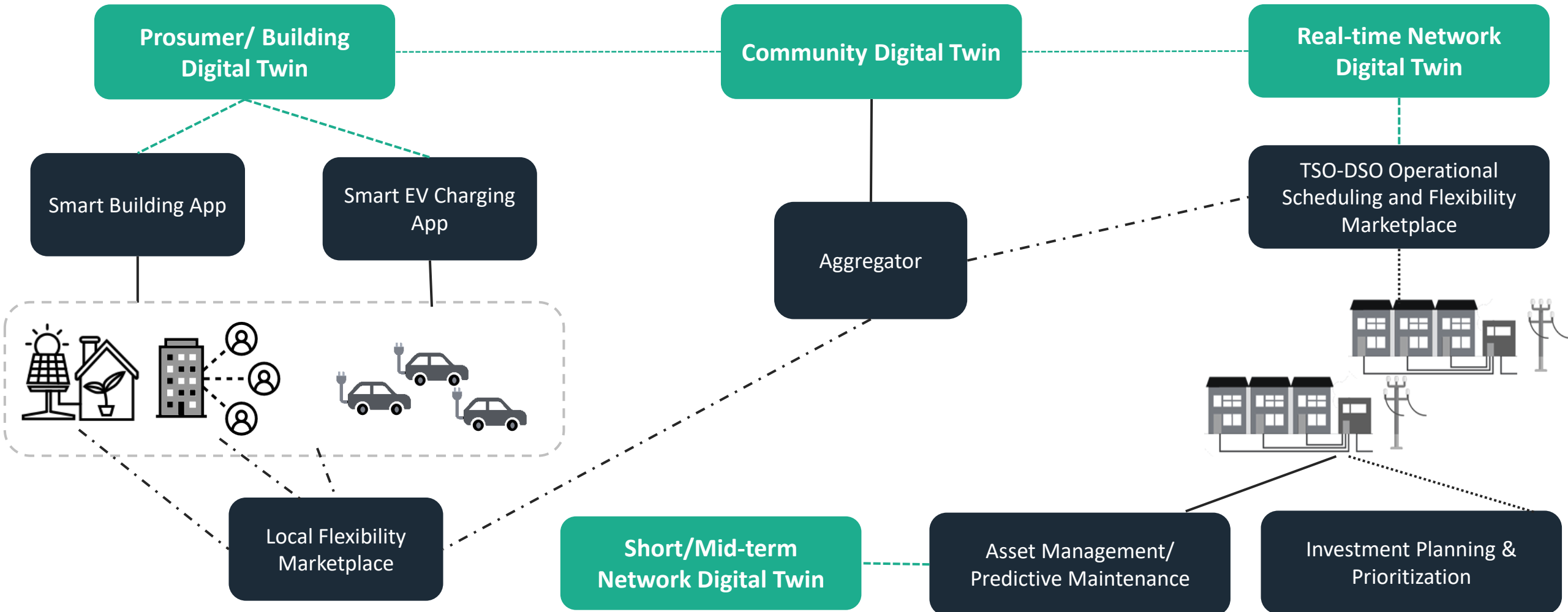
SYNERGIES from a Data Owner / Provider Perspective



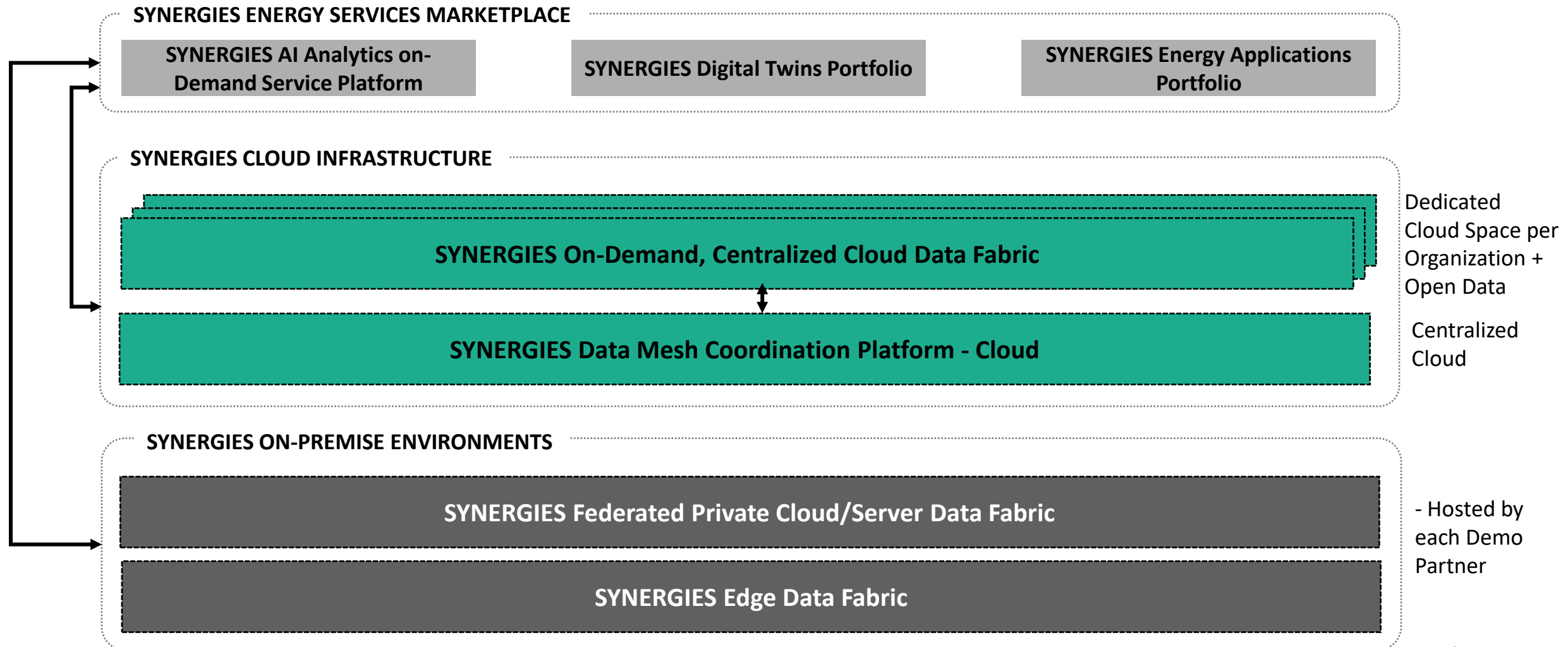
SYNERGIES from a Data Consumer Perspective



SYNERGIES from an Energy Ecosystem Service Integration Perspective



Architecture Layers



Progress during the 1st Year

Outlook till M12

- Use Cases Definition – 38 UCs (11 Data Space & 27 Energy System-oriented)
- Technical Requirements Elaboration (>300 Requirements)
- Detailed Architecture Design
 - Definition of the SYNERGIES “data space” components across the 3 layers: cloud core platform, cloud data fabrics and federated environments
 - Definition of the components of the SYNERGIES energy apps and digital twins
- MVP Consolidation
- Detailed Data Landscaping (smart metering, sub-metering, IoT sensing and actuation, network topology, network asset data, batteries/ EV/ RES/ flexible assets, energy markets, weather, satellite...)
- Definition of the data modelling approach for the Network of Sectorial Data Models (Common Information Models - CIM)
- Study of over 15 standards, models, ontologies for the Building and EV sectors while revisiting the SYNERGY Energy CIM
- Elaboration on the Draft Network of Sectorial Data Models (Energy, EV, Building, General)
- Detailed Development Plan
- Kick-off development of the Energy Data Spaces across all layers/modalities

Thank you for your attention!



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