

FINESCE Architecture

SGSG Meeting, Berlin

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Contents

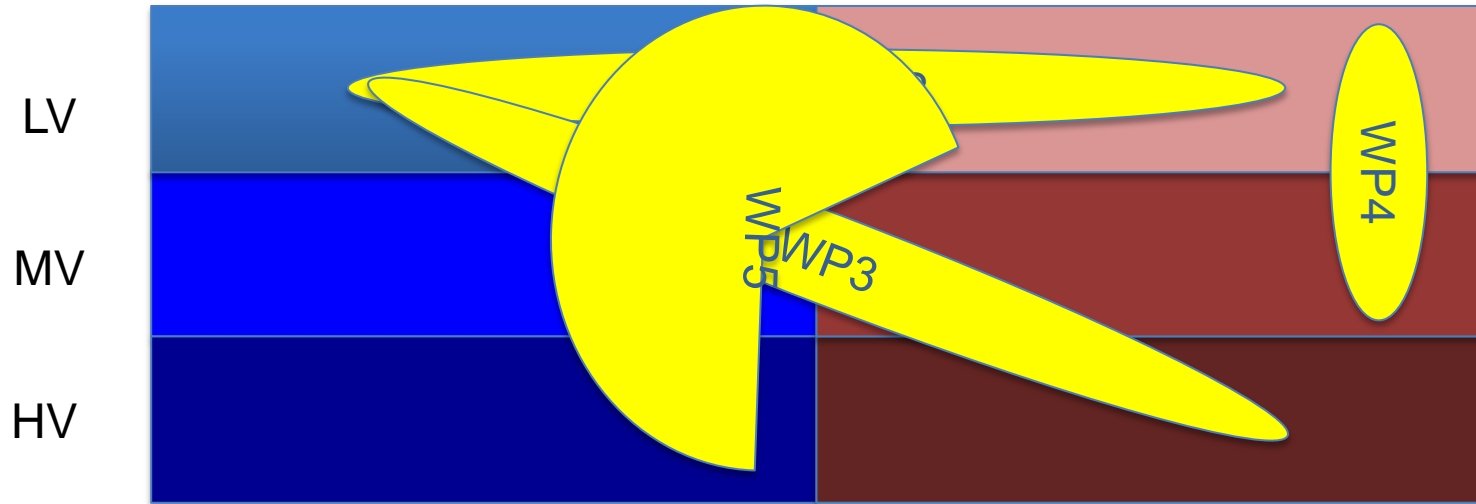
- Architecture of FINESCE's WPs
- FINESCE Overall Architecture



FINESCE Vision and Strategy

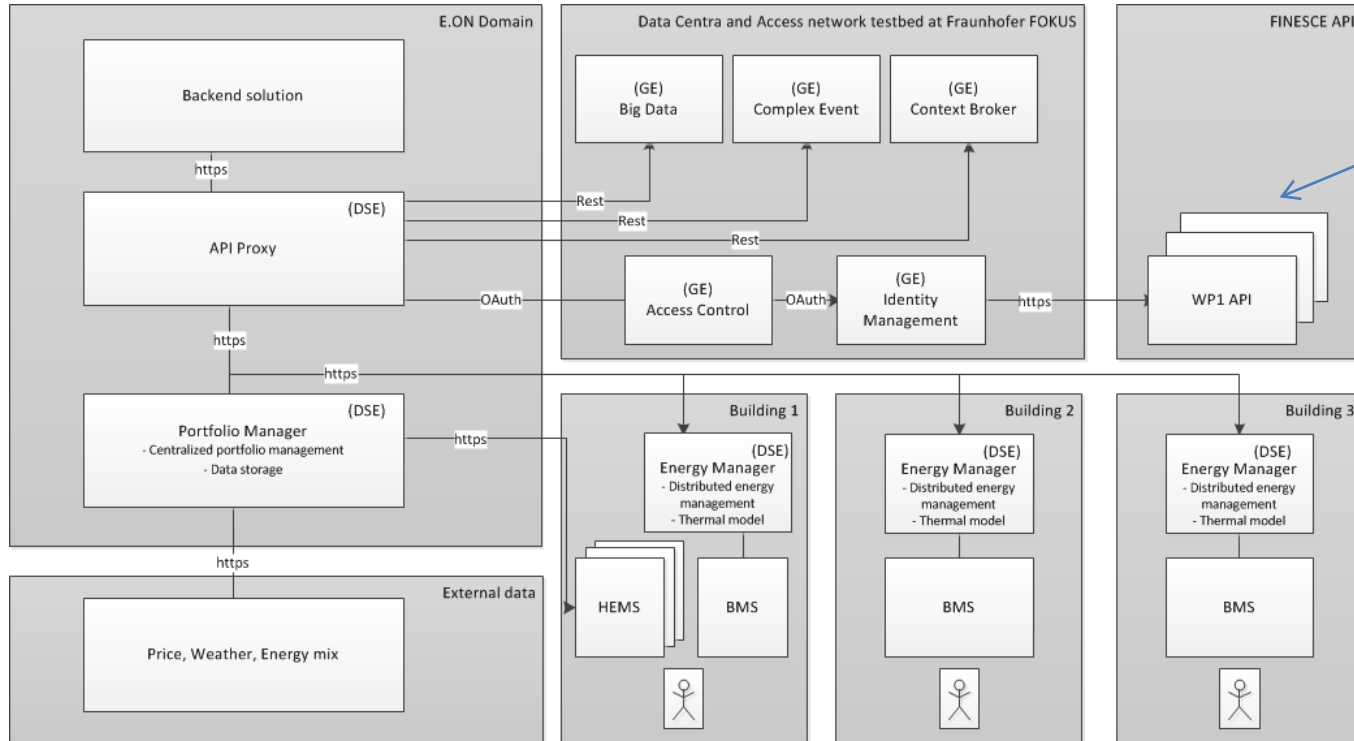
Smart Grid

Smart Market





WP1 Functional Architecture

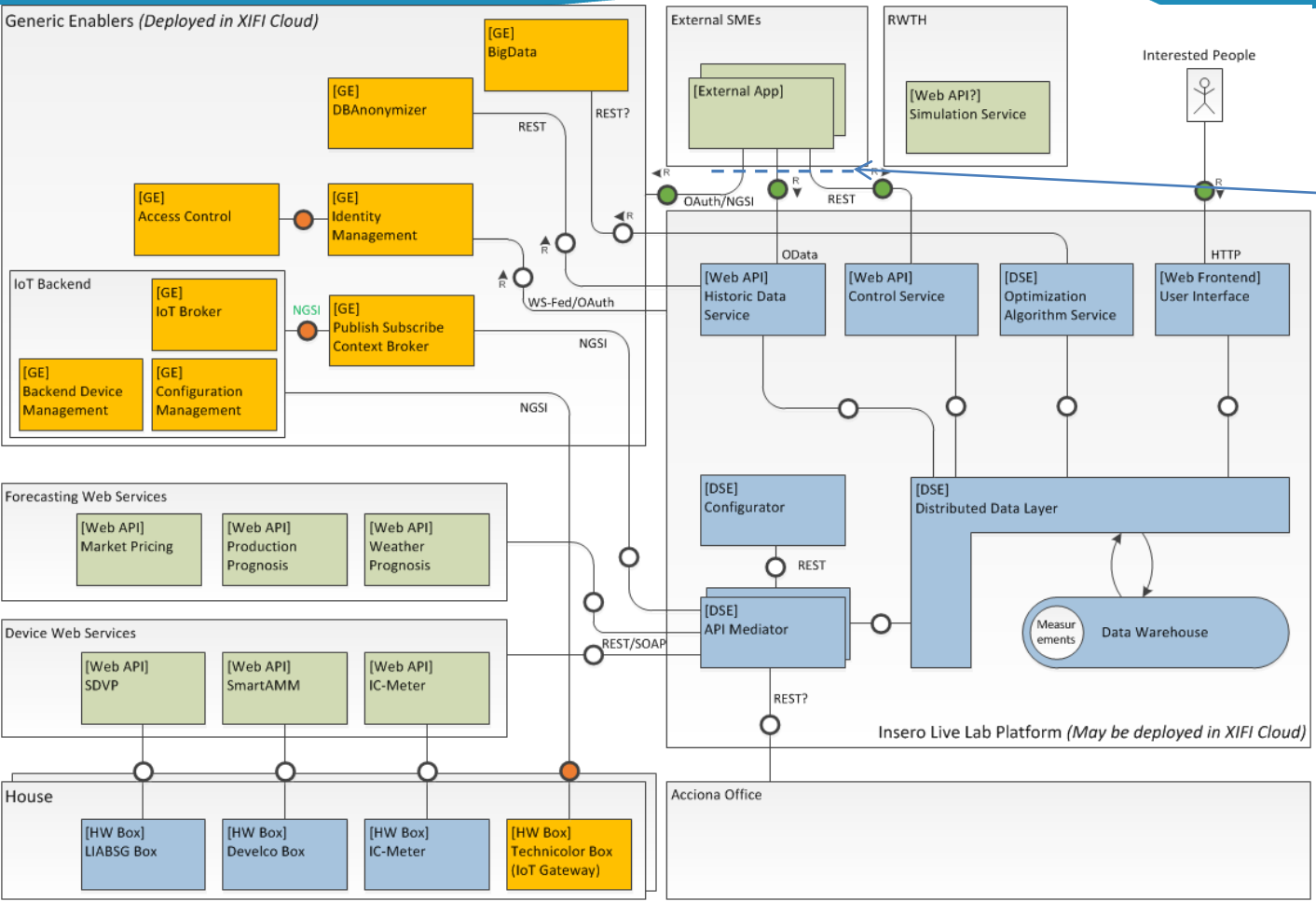


WP2 Horsens Functional Architecture

FUTURE
INTERNET
SMART
UTILITY
SERVICES

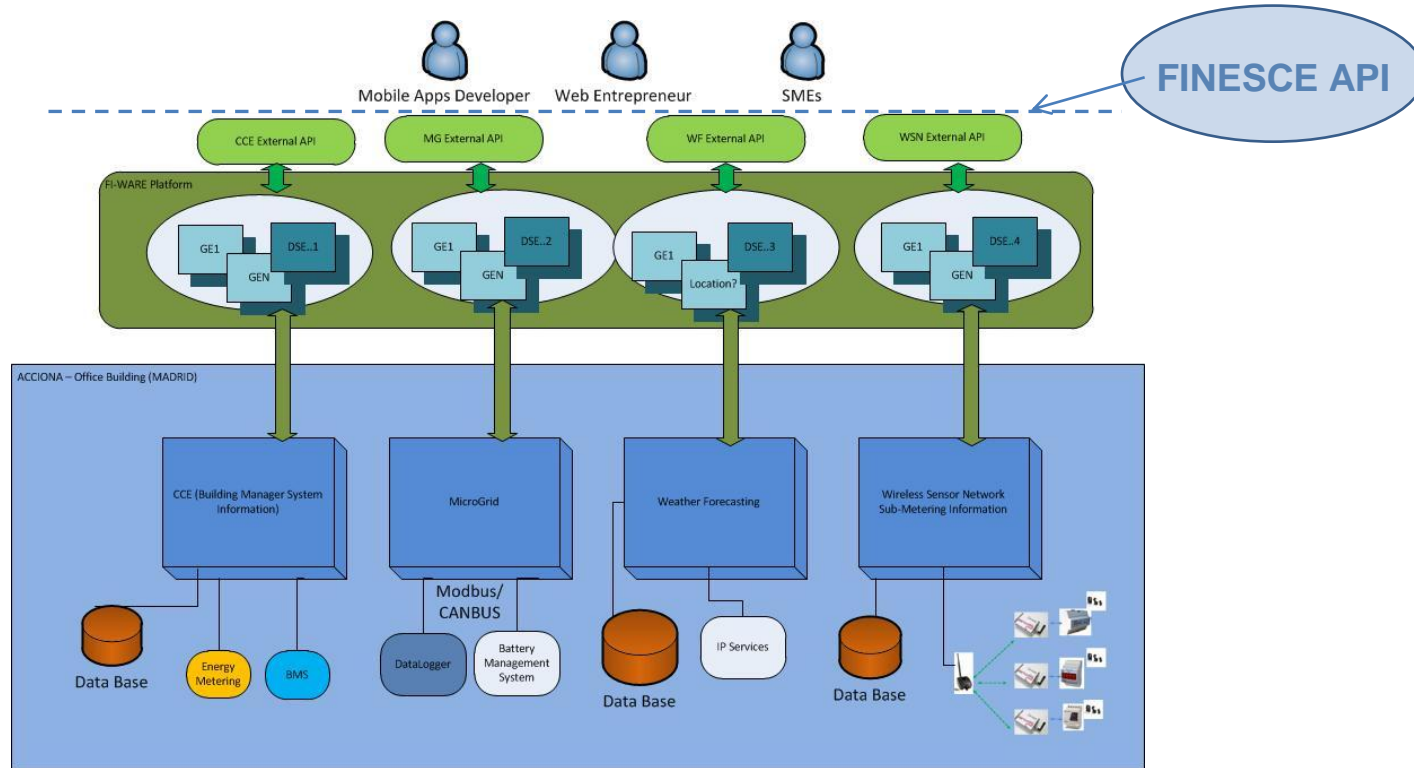


FINESCE API



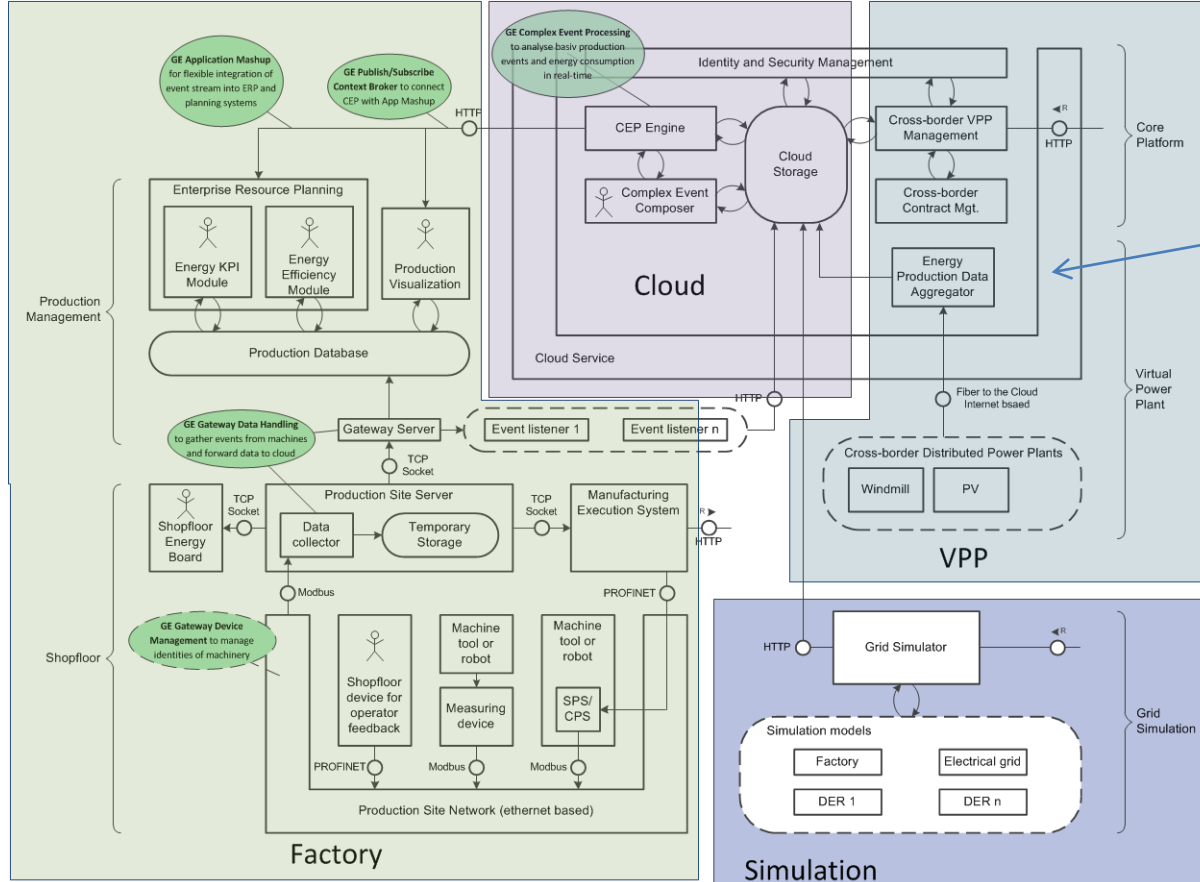
Insero Live Lab Platform (May be deployed in XIFI Cloud)

WP2 Acciona Functional Architecture



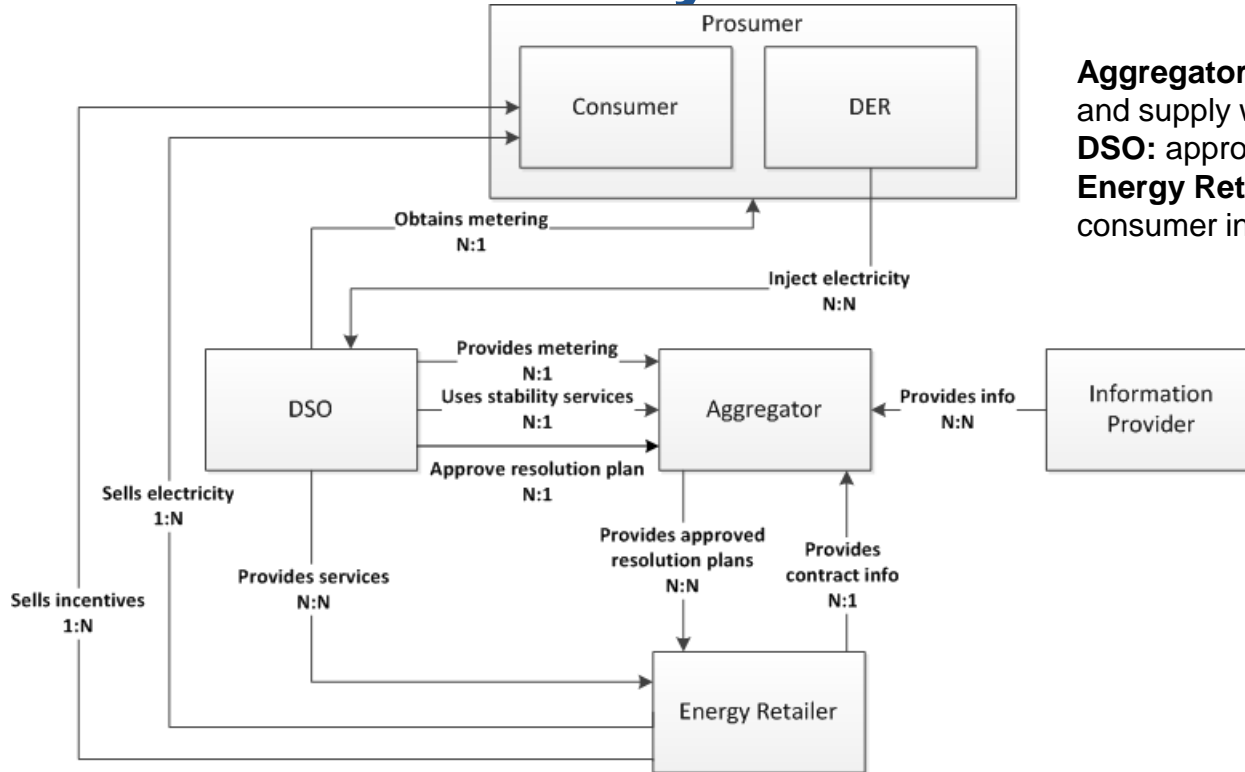
WP3 Functional Architecture

FUTURE
INTERNET
SMART
UTILITY
SERVICES



FINESCE API via Cloud

WP4: Actors in System Model



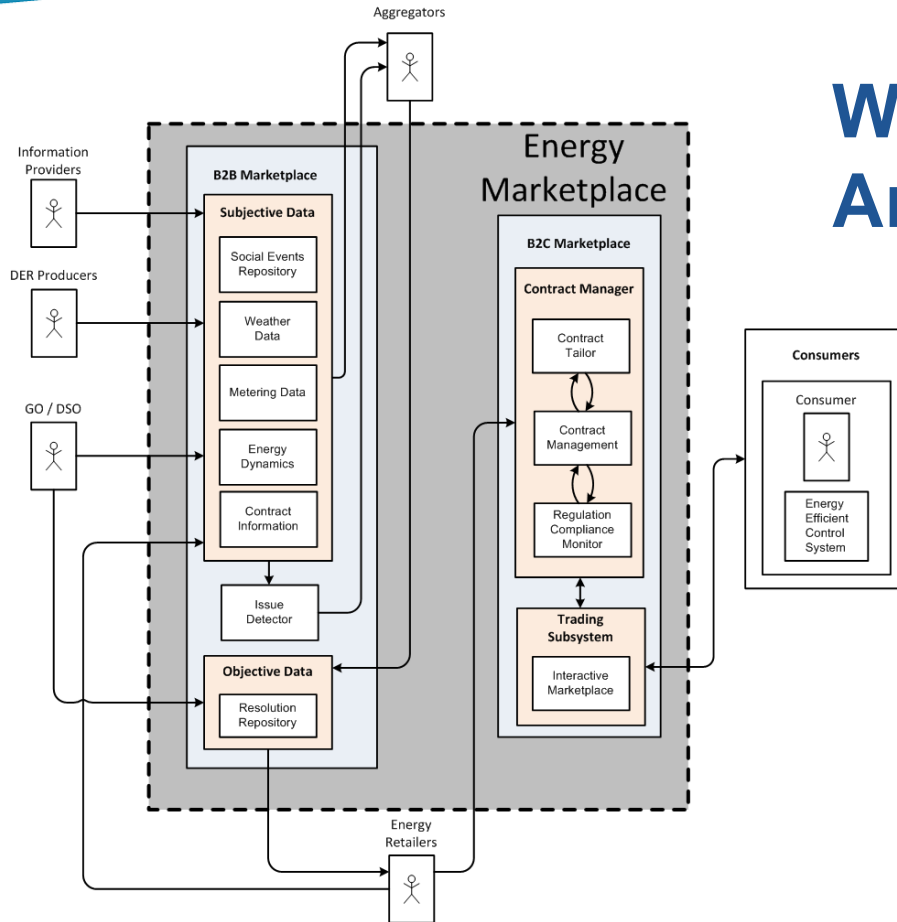
Aggregator: addresses imbalances in power demand and supply with a resolution plan.

DSO: approves resolution plan

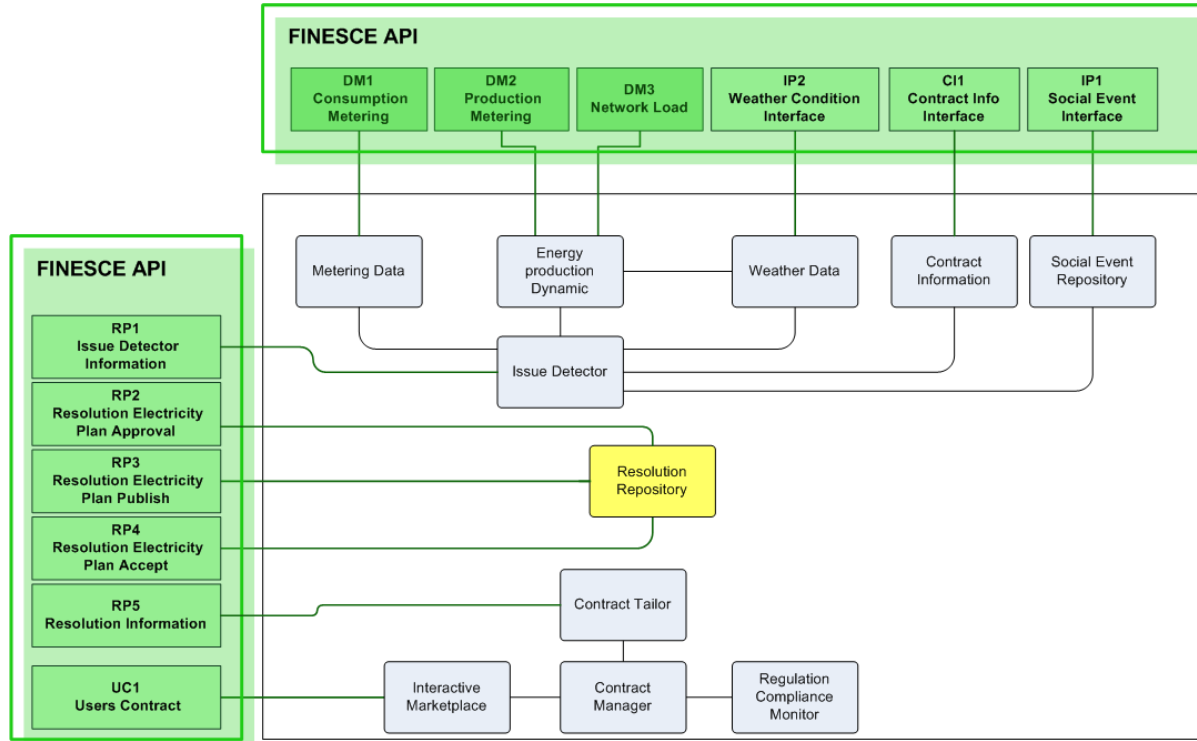
Energy Retailer: transforms resolution plan to consumer incentives to shift consumption pattern.



WP4: System Architecture

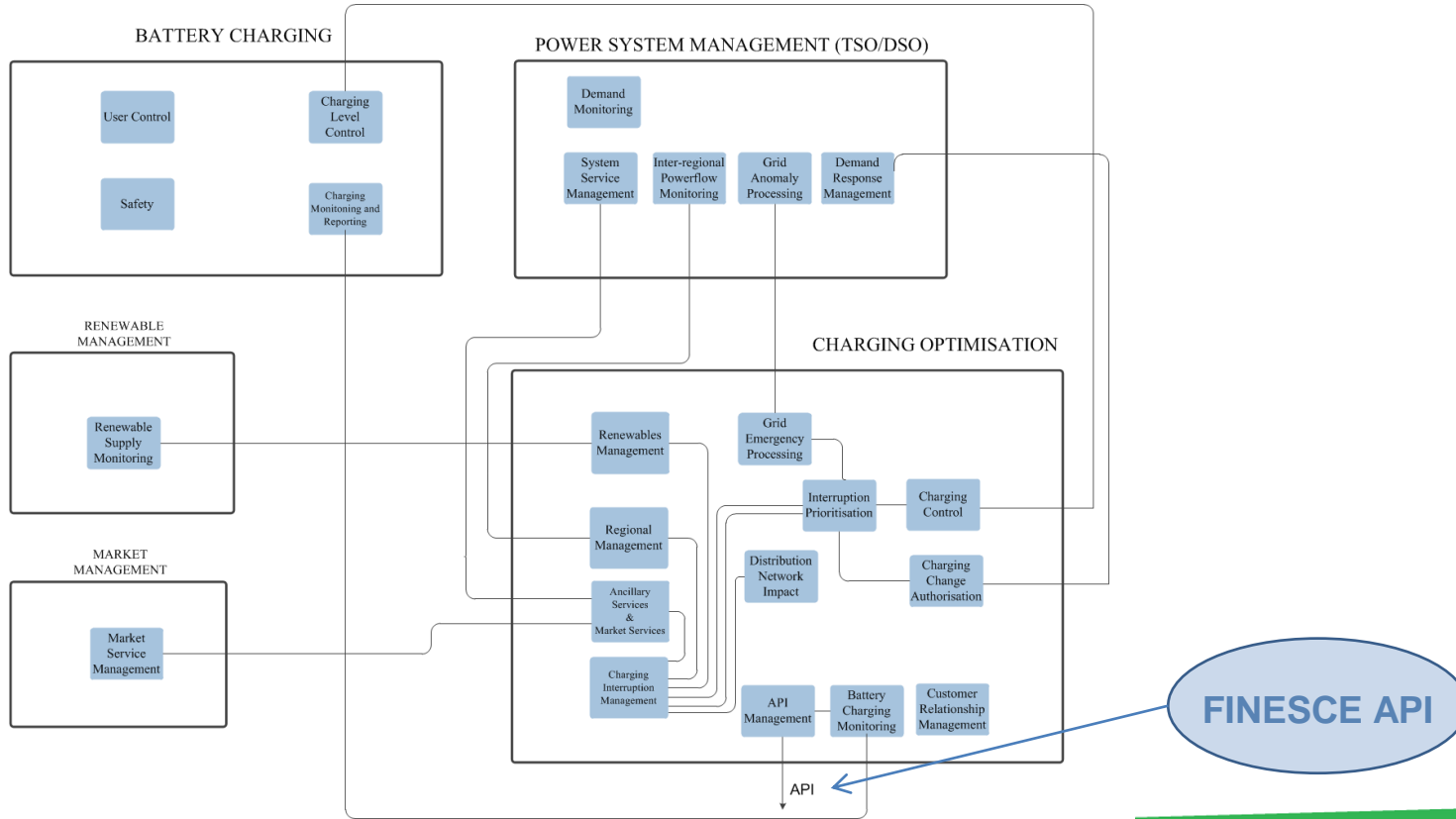


WP4 System Architecture

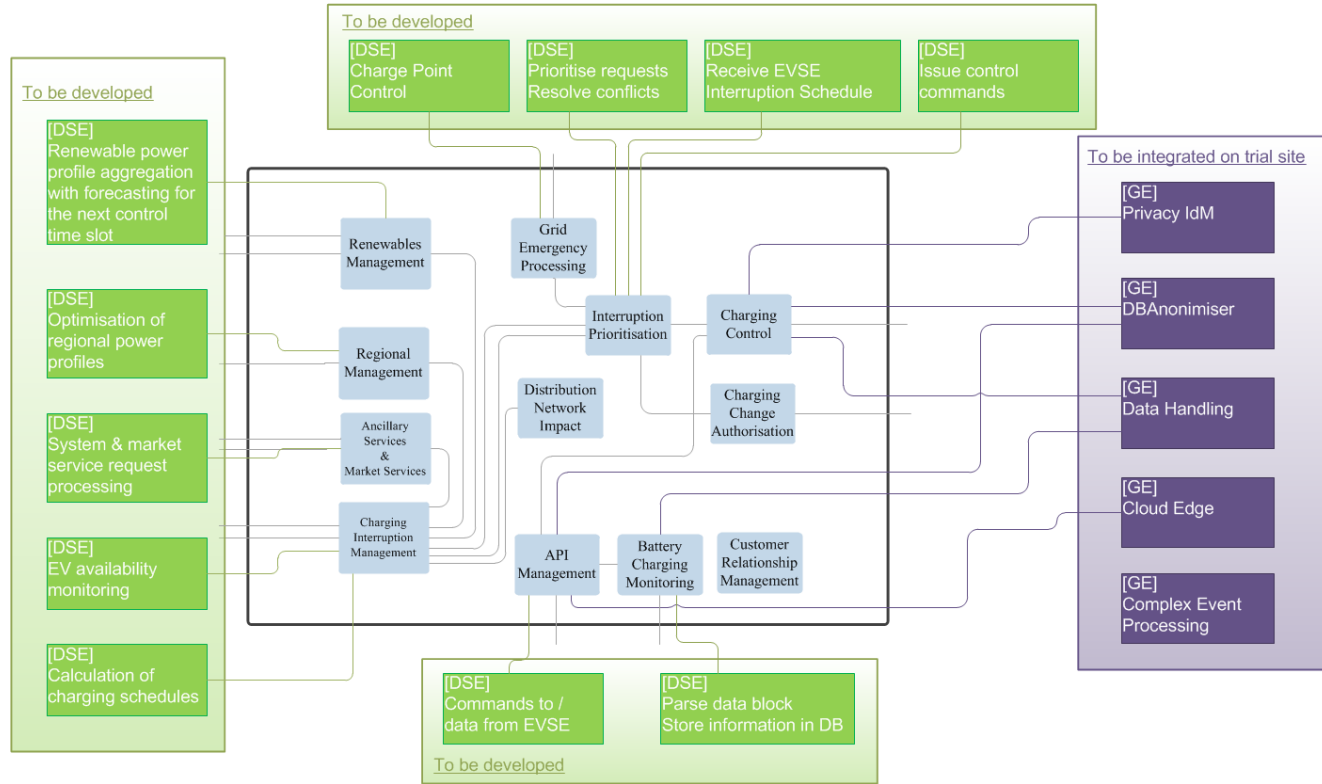


WP5 Stream 1 Functional Architecture

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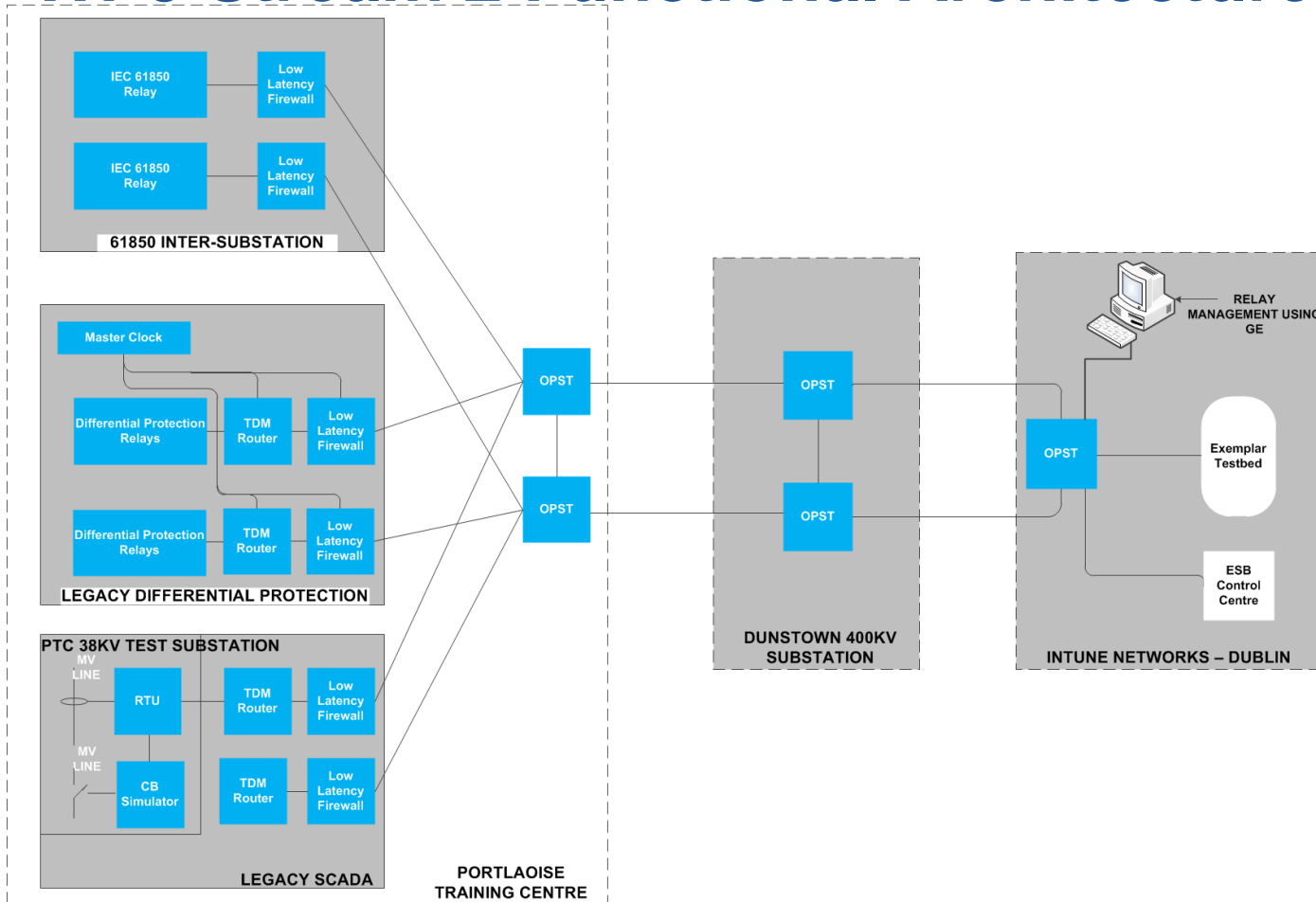


WP5 Stream 1 Mapping of GEs and DSEs onto Charging Optimisation Function



WP5 Stream 2 Functional Architecture

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SERVICES

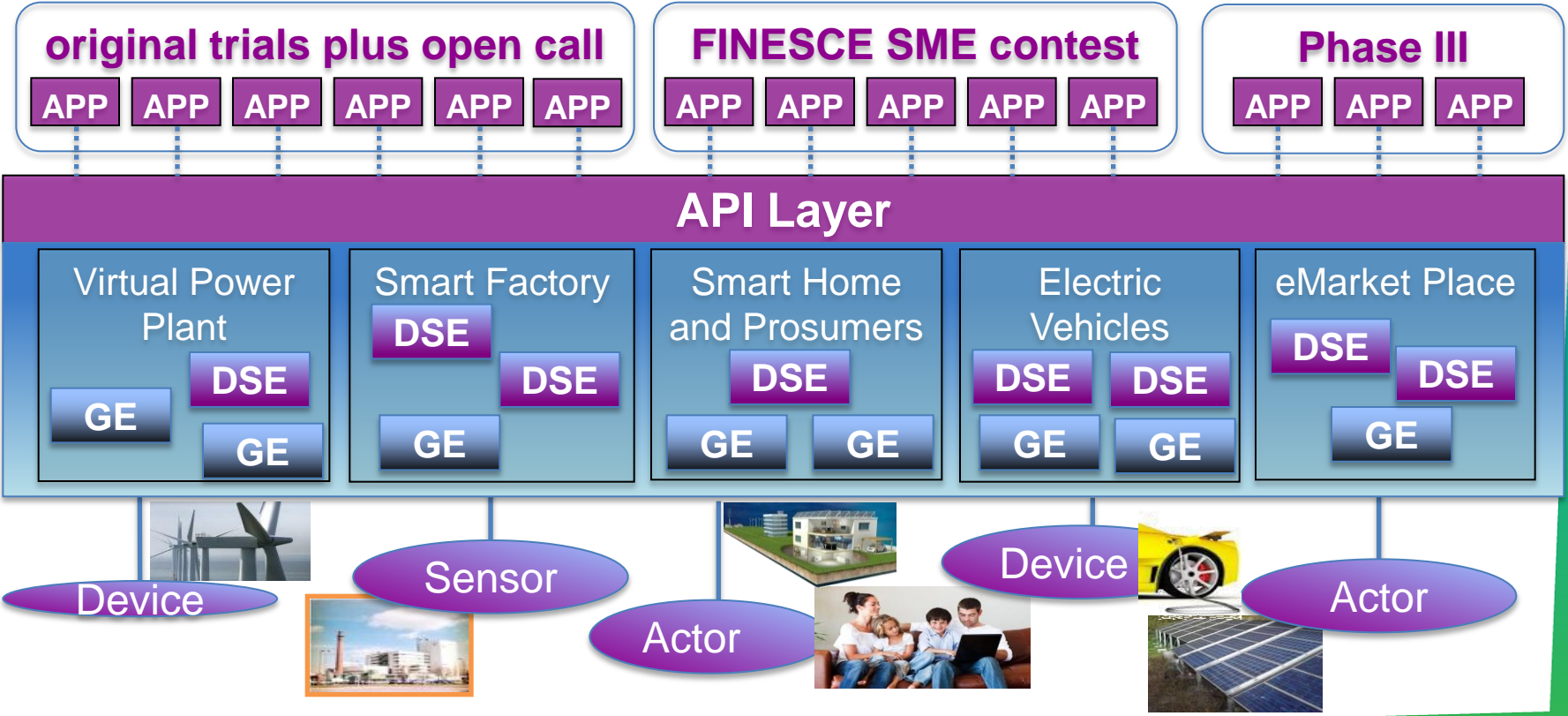


FINESCE Component-based Architecture

- FINESCE has 5 vertical Work Packages developing independent field trials of different aspects of using FI in the Smart Energy domain.
- The broad scope of the trials means that a top-down architectural approach cannot be applied.
- FINESCE uses a bottom-up approach
- each trial's architecture uses the components suitable for its needs
- each trial develops API services which are consolidated into a common unified FINESCE API

Apps for the Smart Energy World!

FUTURE
INTERNET
SMART
UTILITY
SERVICES





API Layer Offers Services to Apps

