IO.Energy & Data

Workshop on Flexibility Markets and TSO-DSO Cooperation

Energy Services, I want them now
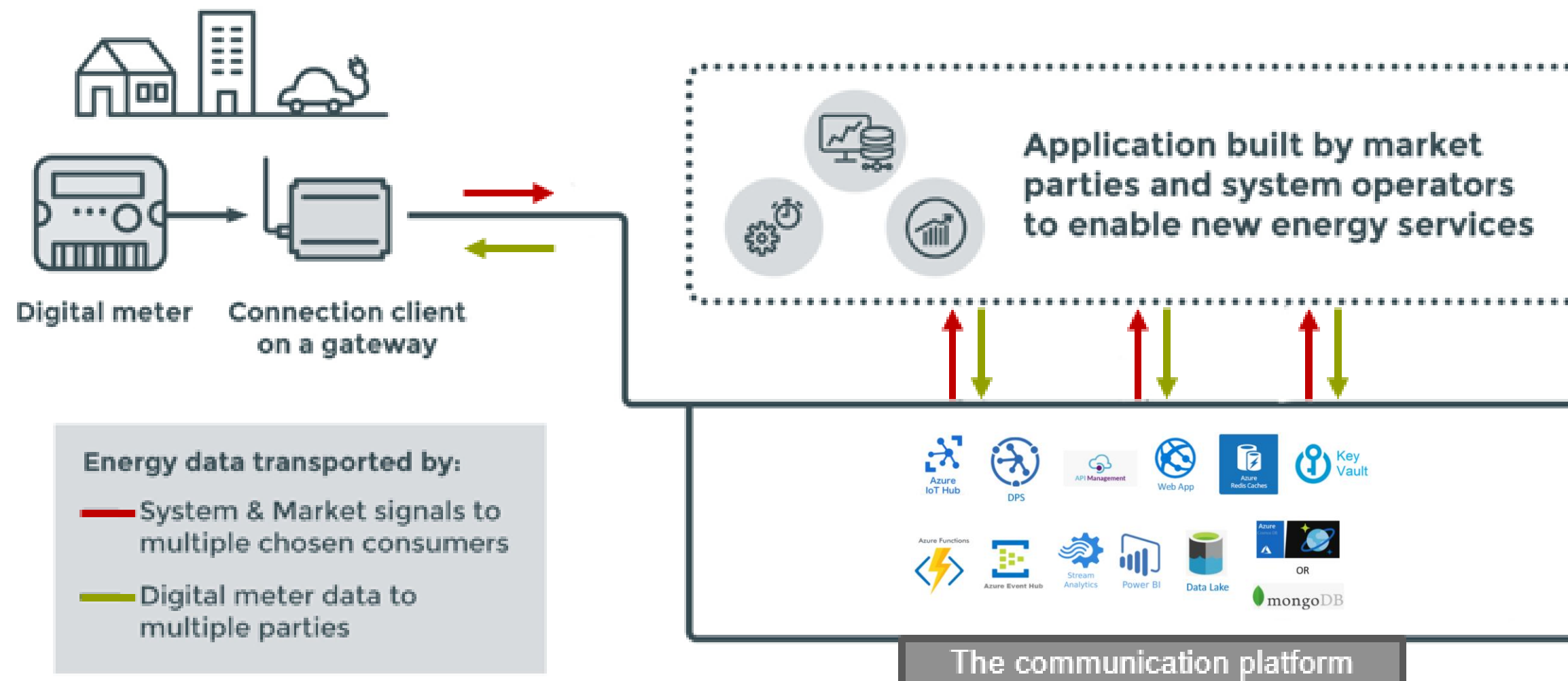
We test a micro-services architecture :

- **I = Customization**
  - ID for consumers and APPs
  - Granular Data
  - Encryption

- **Now = Near Real time**
  - Real time routing
  - Buffering

☑ Questions 3: how do you ensure/facilitate access …
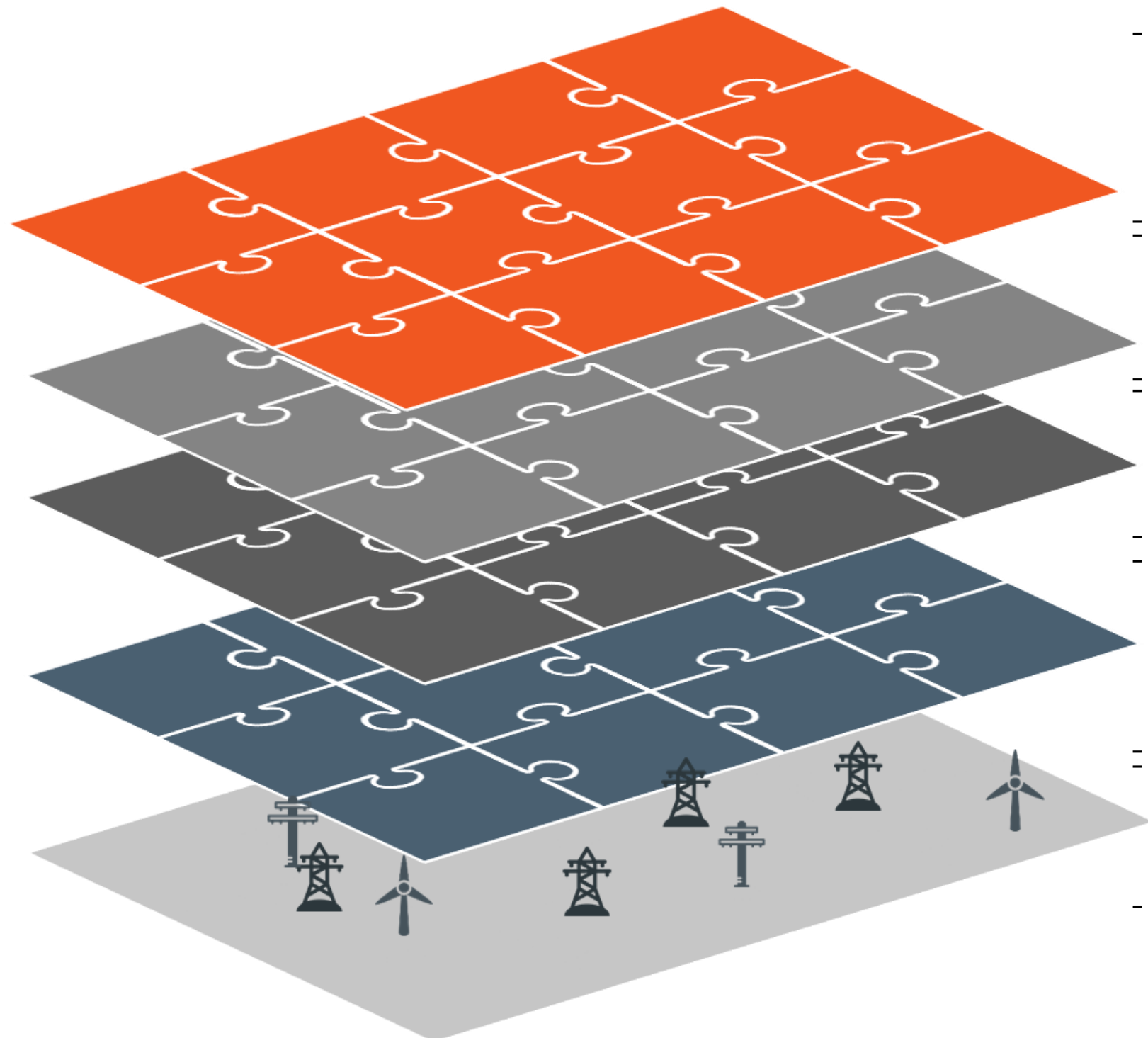
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Alone, you do nothing

60+
Gigawatt
partners

5
System
operators

30+
Megawatt
partners

io.E

Mapping what we are doing

B2C Energy applications

sensa   Community Forecaster   SoTeria   Flexity   CLEF Clean Energy Forecaster   MAKA Strava for energy

B2Business applications

Enleash Energy from buildings   SUN SHARE
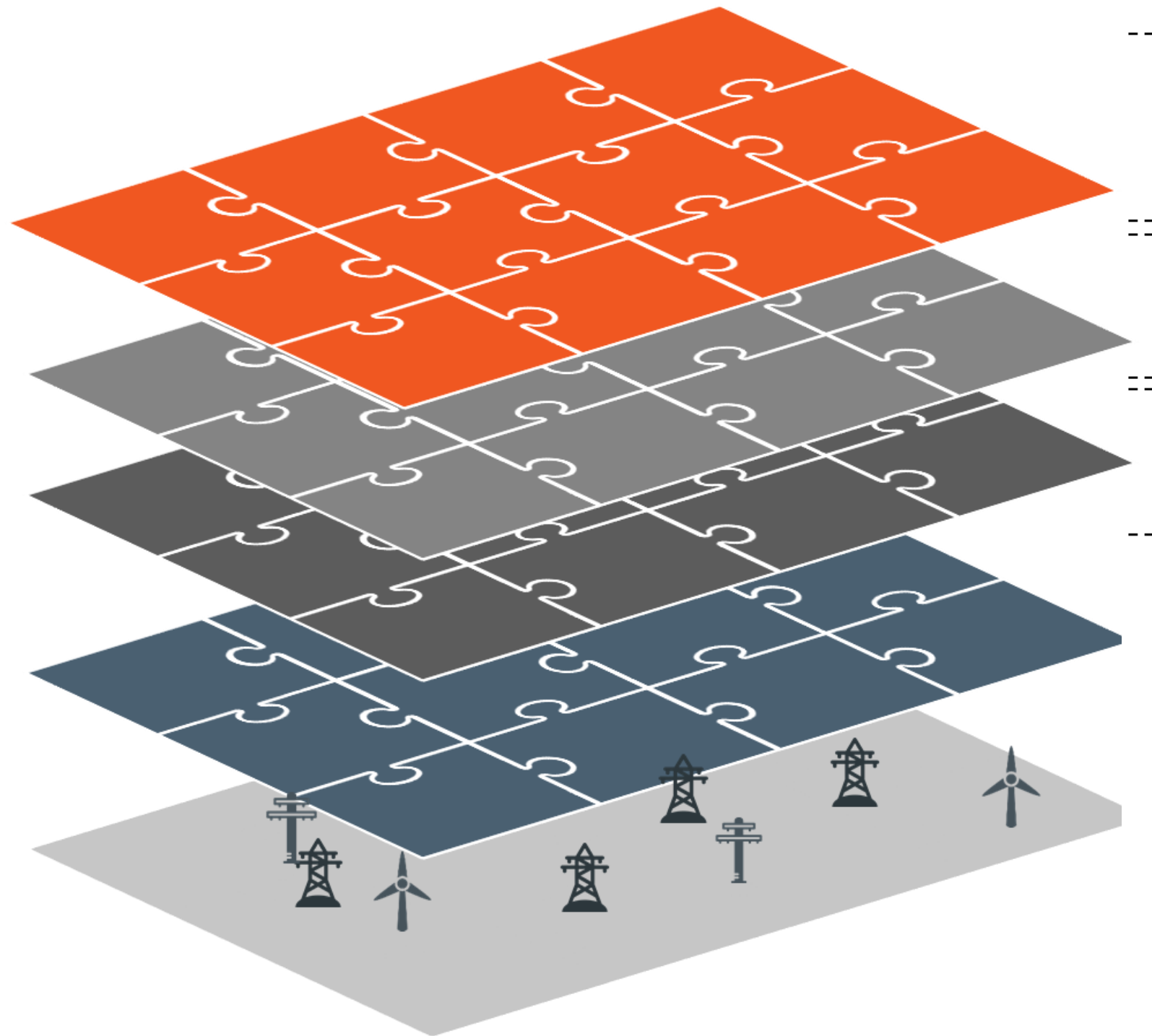
System and market enablers

- Tool for dynamic qualification of access point
- Implicit demand response through dynamic tariff
- Data driven activation control for multli BRP/BSP environment

Digital infrastructure

- Existing micro services
- Facilitated consent management under discussion

Power system

Mapping what we need

B2C Energy applications

- **Historical data from consumers (15 ')**
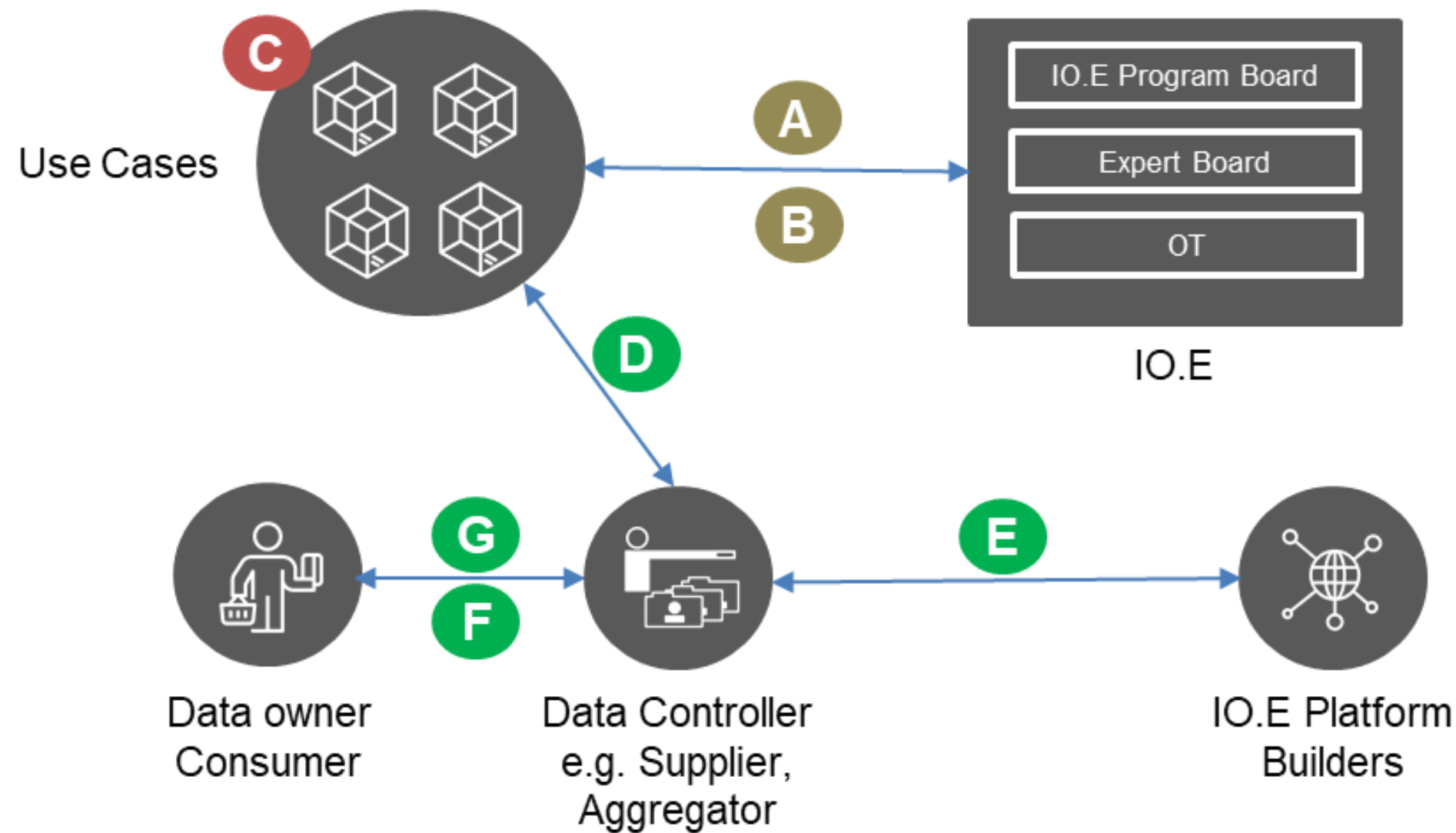- **Historical granular data**

B2Business applications

- Mapping ongoing, start of API interaction between use case on System imbalance forecast, soalar forecast aggregated consumer data

System and market enablers

- **Access to RT meter data at different granularity**

☑ Questions 1: What data do "WE" need

☑ Questions 4: Do we use API ?

And mapping contracts.....

Use Cases

IO.E Program Board
Expert Board
OT

IO.E

Data owner Consumer

Data Controller e.g. Supplier, Aggregator

IO.E Platform Builders

A — Rules of Engagement
B — Sandboxing Rules
C — MoU
D — Controller to Controller Agreement
E — Data Processing Agreement
F — Informed consent
G — Service Level Agreement

☑ Question 2: What data sharing agreement do you have…