

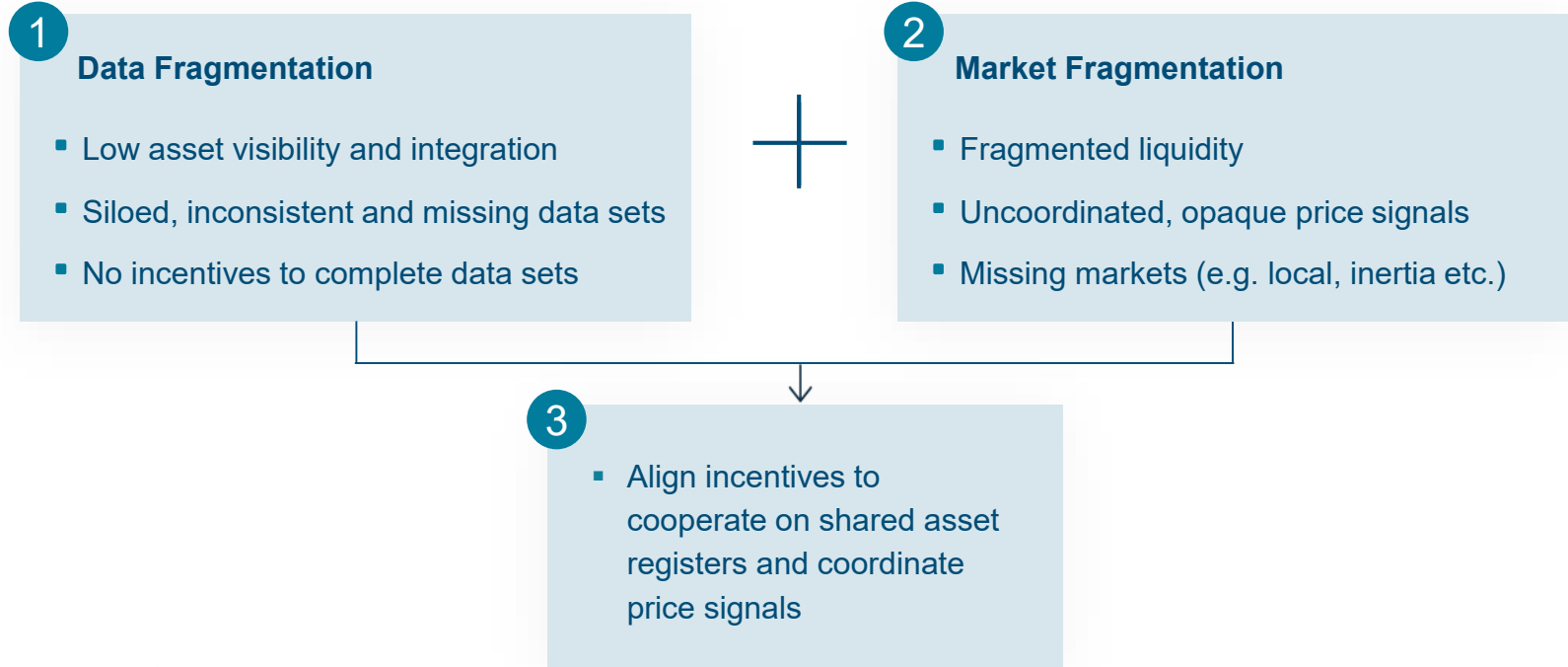
ELECTRON

**How can we capitalise on smart,
digital technologies for storage?**

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Electron Thesis

Industry fragmentation (data and markets) needs coordination to optimise utilisation of distributed assets

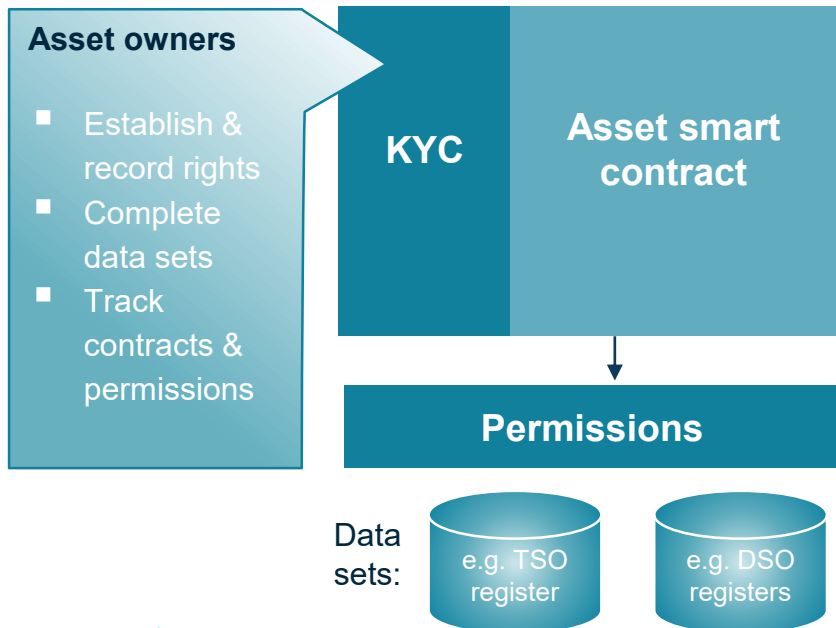


Project RecorDER: Asset registration - KYC & permissioning

Partners: UKPN, SPEN and National Grid ESO

A permissioning layer for existing and new market data infrastructure

Provides: Know your customer, provenance and permissioning services as well as quality assurance



Approach:

- Provide secure, resilient way to grant access to embedded datasets, rather than creating new silos.
- Users can create shared datasets (collaboratively) that implement agreed standards.
- Asset owners/managers can link assets to third party datasets or authorise connected systems to use their data.

Benefits:

- Improved visibility and availability of asset data
- Better forecasting (& lower system balancing costs)
- Better inclusion of assets in new/existing markets, and therefore improved component management
- Aggregates data from multiple sources
- Responsible for user management & data privacy
- Low friction data collection, cleansing, sharing
- Enables multiparty service innovation

Market coordination approach

Missing markets need to be developed to facilitate coordination

Price-driven coordination through layering disaggregated value attributes
Decentralised platform for neutral market facilitation optimizing for whole system value

Approach

- Coordinate multiple market operators for vertical and horizontal value stacking
- Facilitate Peer-to-Peer trades for network optimisation
- Address missing markets (implicit and explicit)
- Harmonise with existing products & services (long term and near real time)
- Allow flex providers to provide simultaneous non-rival services to multiple buyers

