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India SMART UTILITY Week 2025

**Session : UNIFIED ENERGY INTERFACE (UEI) AND THE EVOLVING ERA OF ENERGY
INTERNET**

Digital transformation in a fragmented energy landscape

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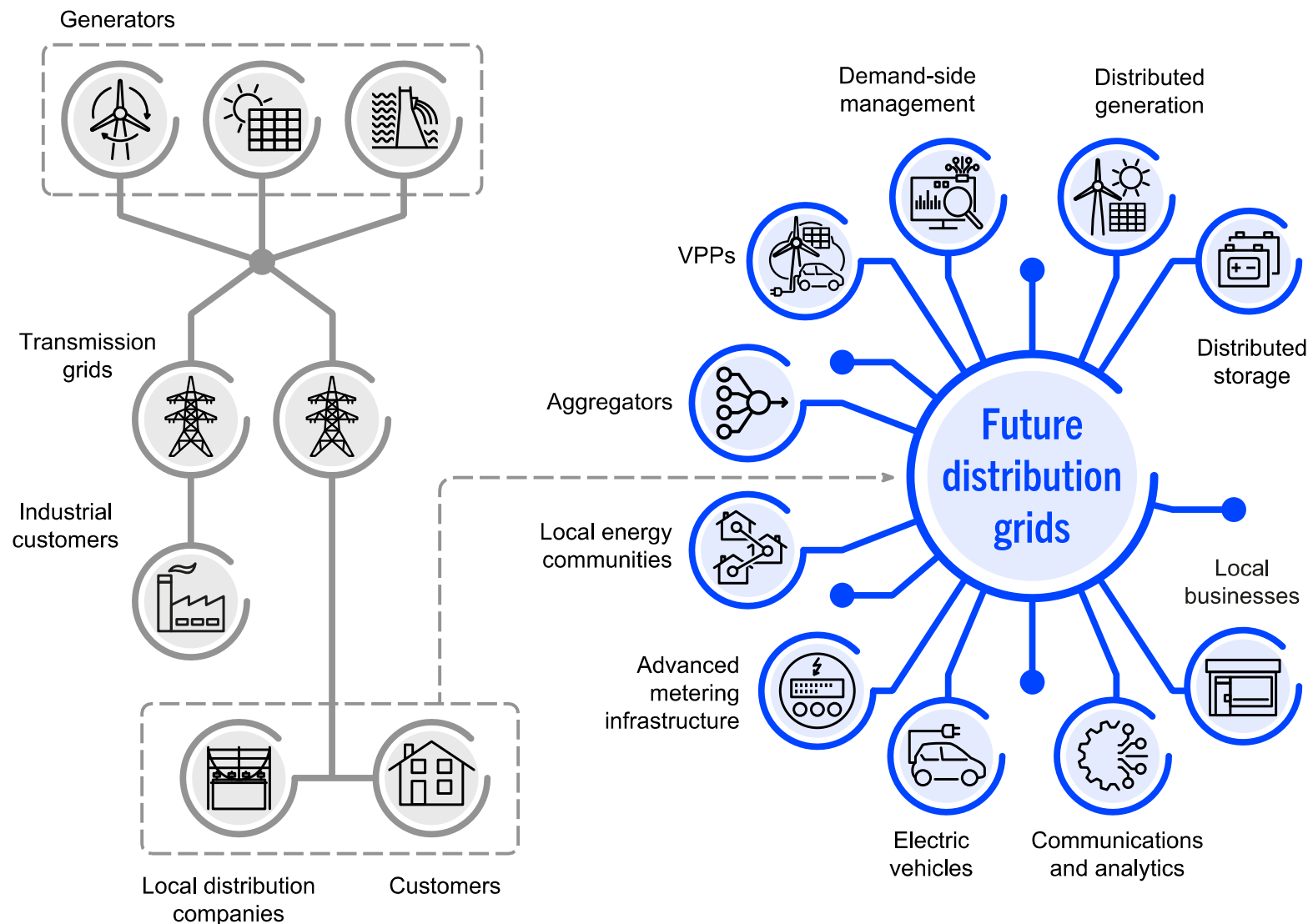
@indiasmartgridforum

Power systems are changing fast – especially at the local level



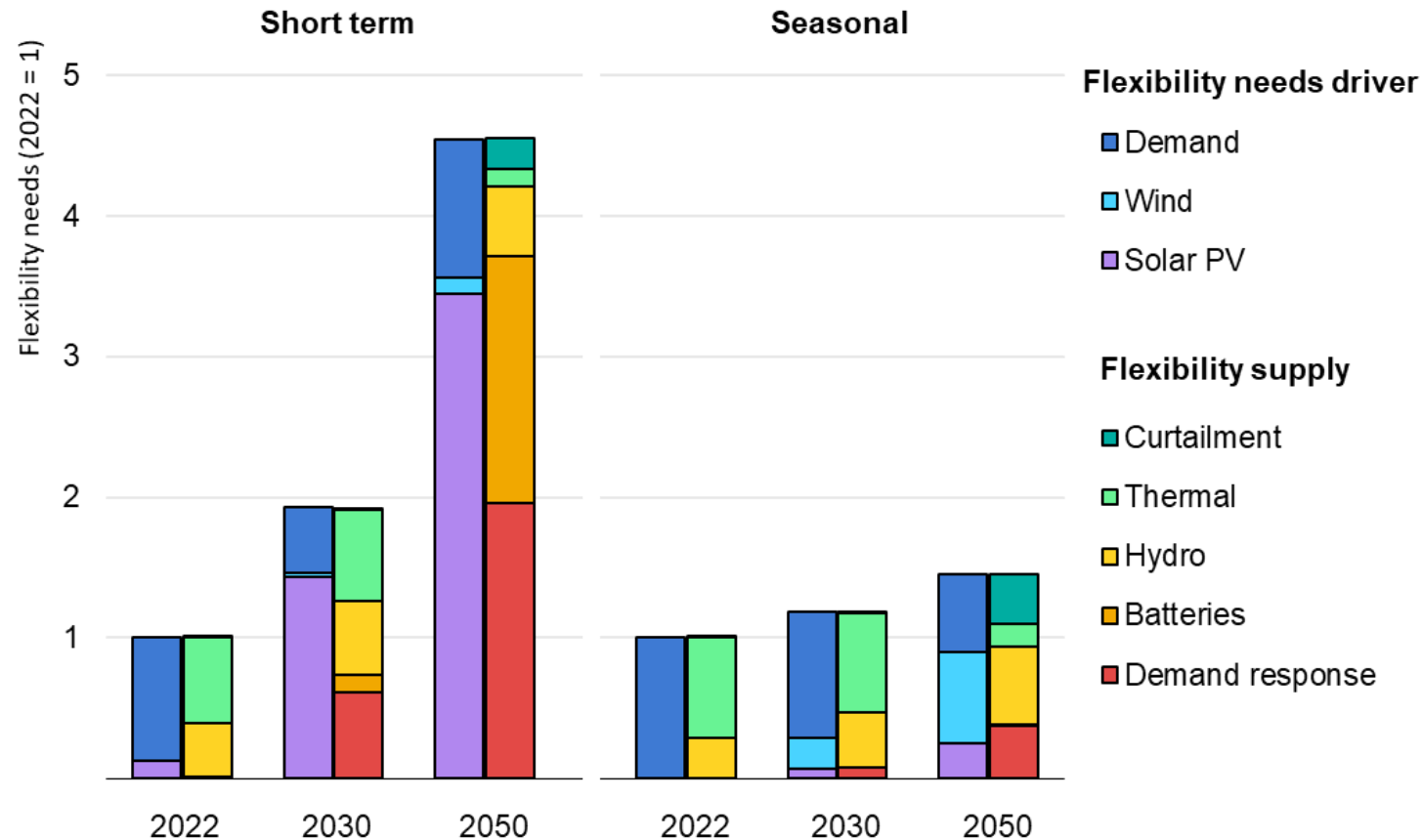
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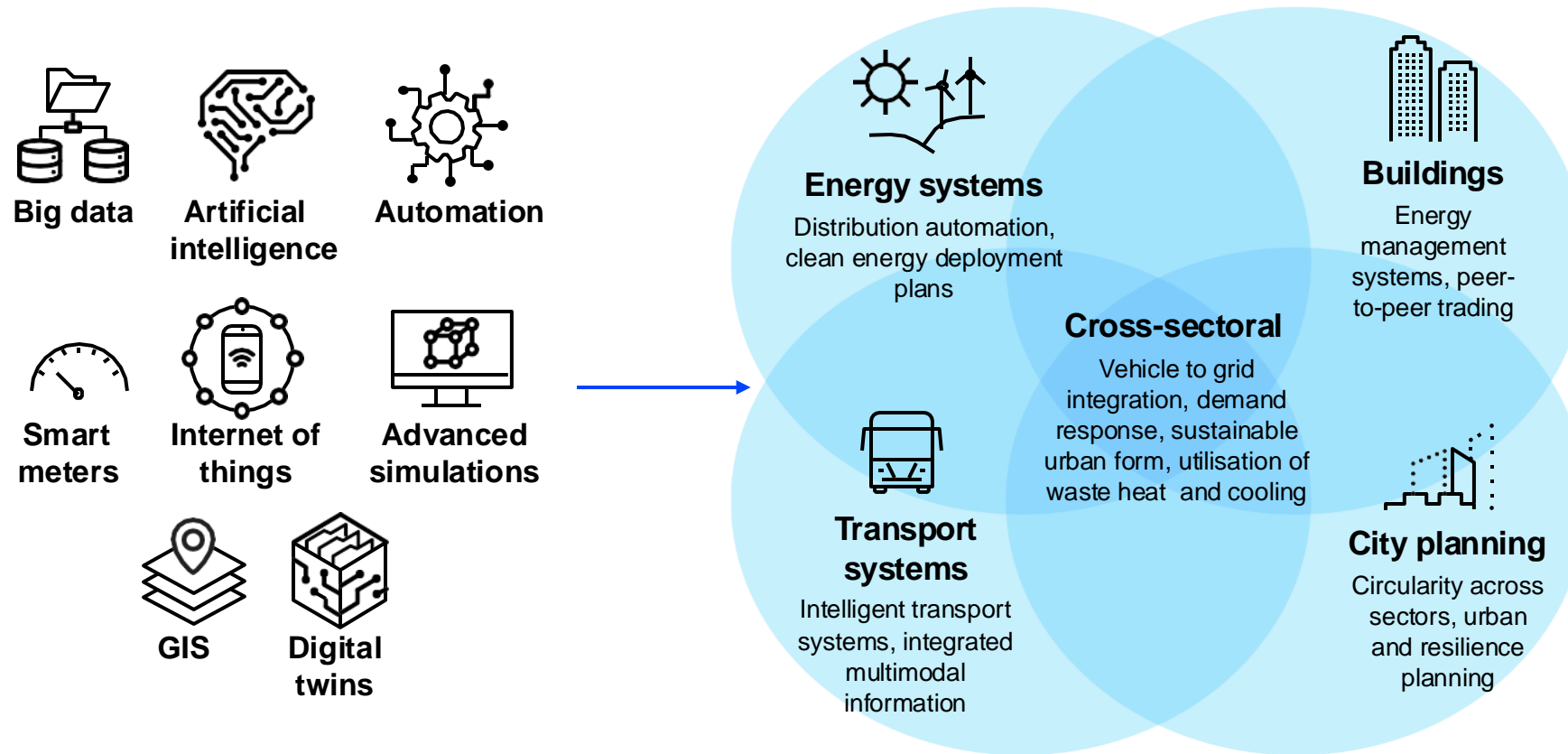


Data, analytics, advanced controls – essential for planning, operation, maintenance, markets...orchestration

Global power system flexibility needs and supply in the Announced Pledges Scenario



Almost all flexibility today from thermal and hydro, **critical to leverage storage and demand response**



By increasing the connectivity across end-uses, digitalisation can leverage data from connected buildings, appliances and transport systems to reduce energy consumption, improve grid stability and better manage services.

Data Availability

Creating appropriate data value chains, and ensuring awareness of growing data resources

Data Accessibility

Enhancing balancing data openness with privacy and security risks

Data Usability

Ensuring data usability tailored to specific use cases



Data quality

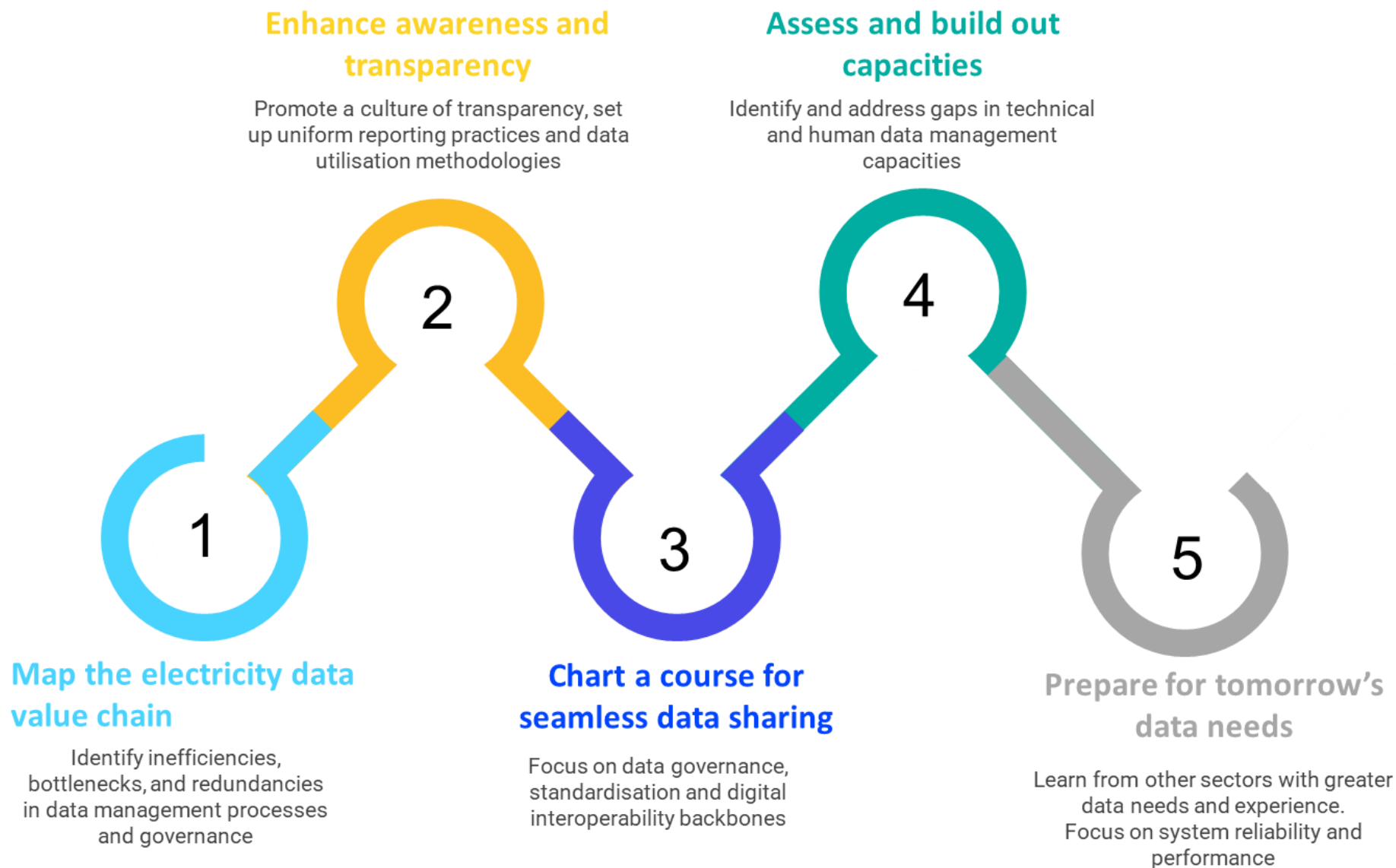
Improving data quality to unlock business models and value

Data standardisation

Accessible, transferable, transparent standards for data exchange

Interoperability

Ensuring data from varying sectors, assets, actors, can be seamlessly exchanged and combined



Without increased international collaboration & sharing – we will:

- ✓ Duplicate efforts
- ✓ Replicate mistakes
- ✓ Take longer
- ✓ Pay more