

ASCENT Digitalization Strategy: Creating a Momentum for Digital Transformation

Ms. Monali Ranade, Lead Energy Specialist
World Bank



ASCENT WEEK 2025

Achieving Results Faster, Together

Implemented by



Supported by



Achieving **Impact at Scale** with **Efficiency and Speed**



**ASCENT
Beneficiaries**



100,000,000
people
with access
to electricity



50,000
health and
education
facilities
provided
with access



20,000,000
people
provided
with clean
cooking
solutions






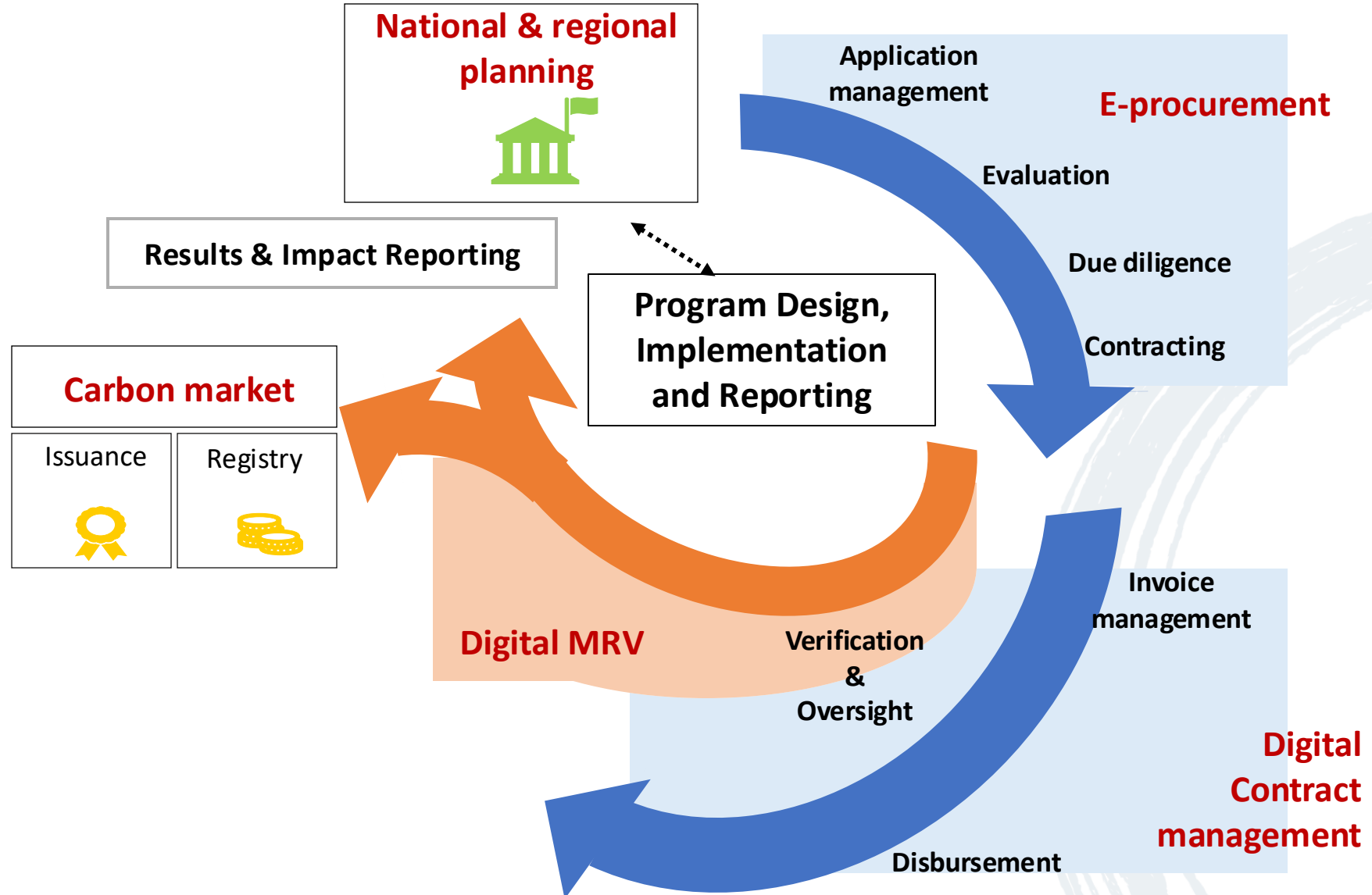
10,000,000
farmers and
rural SMEs
provided
with power
and
equipment

Mobilize **US\$10B financing**, with US\$5B IDA envelope, development partners, private investment and global sources, incl. climate finance and carbon markets

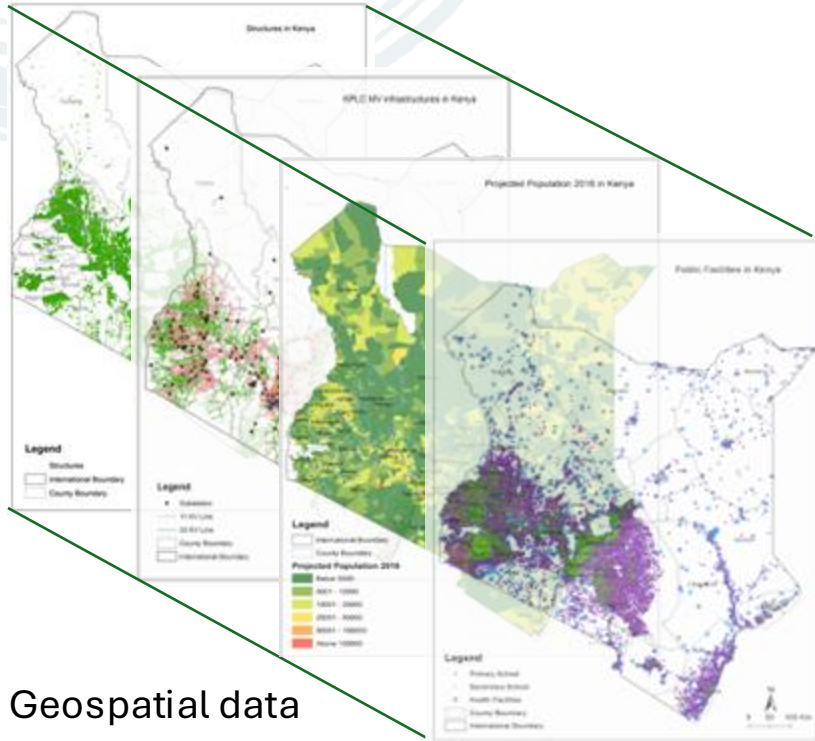
Digital Ecosystem to Accelerate Energy Access

Capitalizing on an existing trend

-  Digitalization of the energy sector
-  Increased connectivity
-  Increased financial inclusion

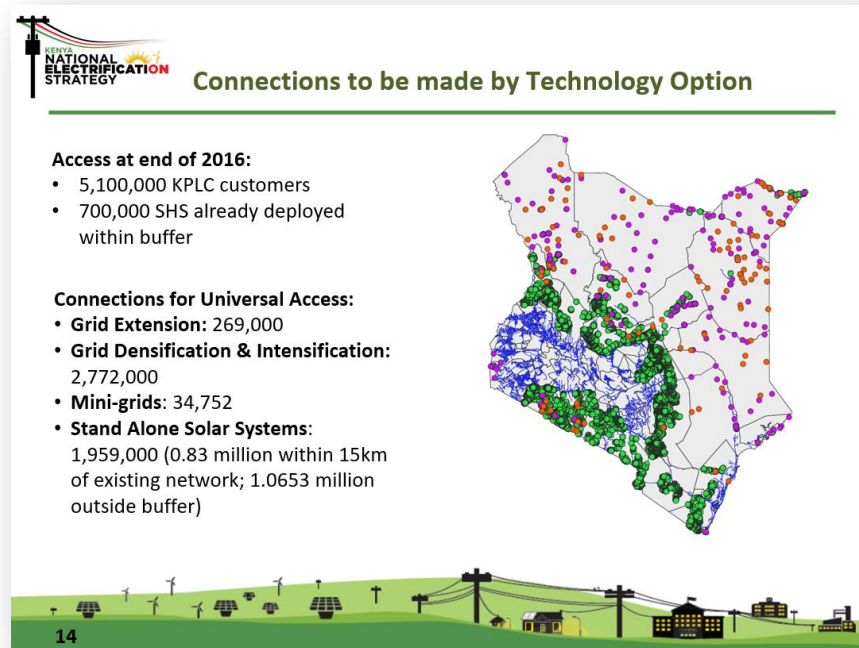


Geospatial Planning: Where are the people? What are their energy needs? How best to reach them, quickly, cost-effectively?



Geospatial data

Geospatially-informed electrification plan in Kenya



**From 200k →
1 million
connections/year**

**From 25 % access
(2015) → >80 % (and
increasing)**

Geospatially-informed planning enable:

- Clear identification of zones for different technology types (on-grid, mini-grids, SHS)
- Accountability of all actors (Ministry, utility, private companies) in adhering to and enforcing the plans

Digitalizing Processes for speed, efficiency and transparency

Challenges of Procurement and contract management



Multiple stakeholders



Complex workflows



Reliable communication channels



Strict timelines



Sensitive data



Extensive documentation and records

Digital tools can help



Digitalized and automated workflows



Clear allocation of roles and responsibilities to operationalize procedures



Storage of all documentation related to the contract and its execution, enabling version control, auditing trail generation



Clear progress tracking against agreed milestones (automated reminders, notifications and alerts) enabling to detection underperformance early



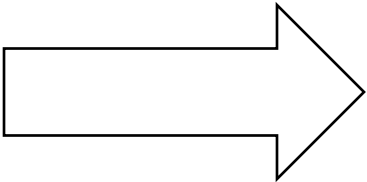
Less human error and more oversight






Increased compliance and integrity

Digital MRV is key enabler of efficiency and transparency

Most programs need to answer specific questions on the customer, the system and the level of service



-  Customer identification
-  System performance monitoring
-  Payment tracking

dMRV can triangulate several data sources

Main dMRV functionalities

Features

DATA COLLECTION & STORAGE

- Structured collection of real-time data on energy access through automatized ingestion in a single database
- Secured storage
- Traceability of changes

DATA PROCESSING & ANALYTICS

- Automatized data validation/eligibility checks
- Verification processes
- Tailored reporting & visualization

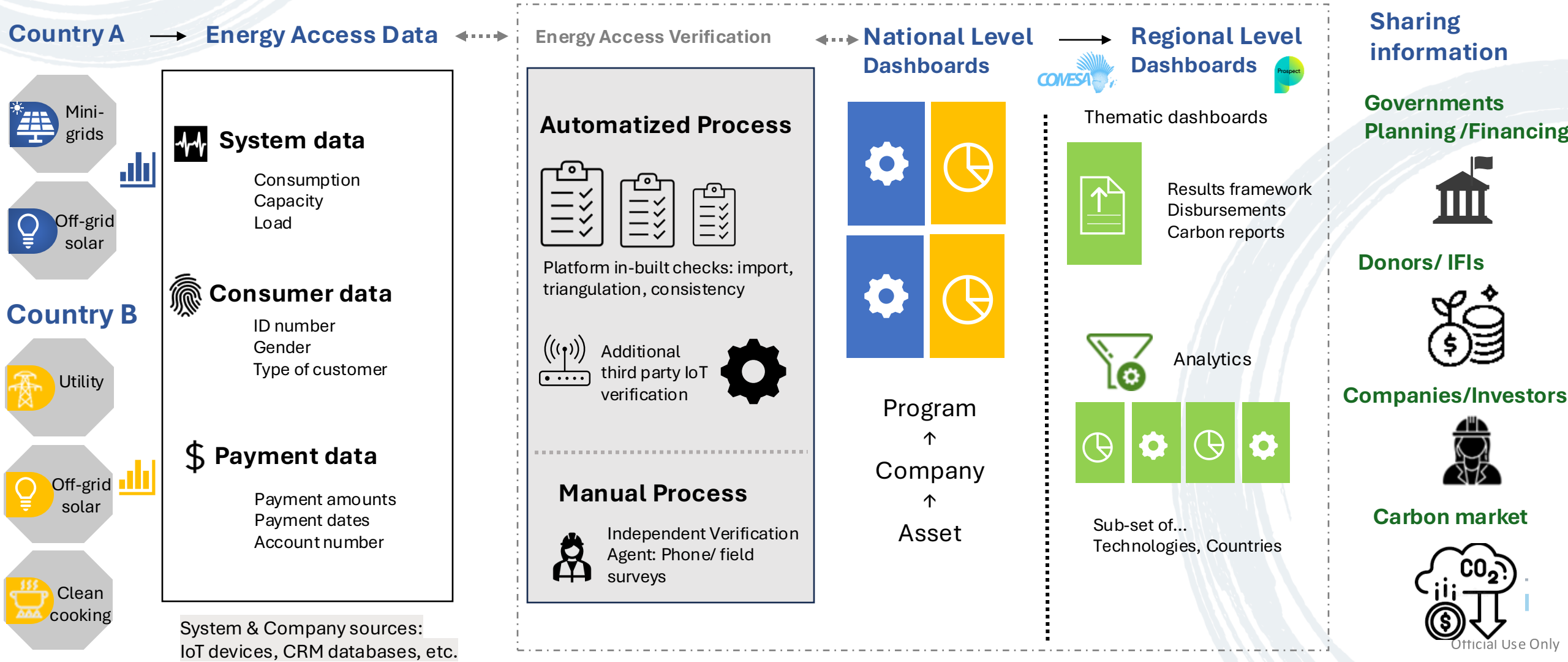
DATA SHARING

- Differentiated user rights
- Facilitates contract management and/or planning updates

Building Data Bridges: Local – National – Regional – Global

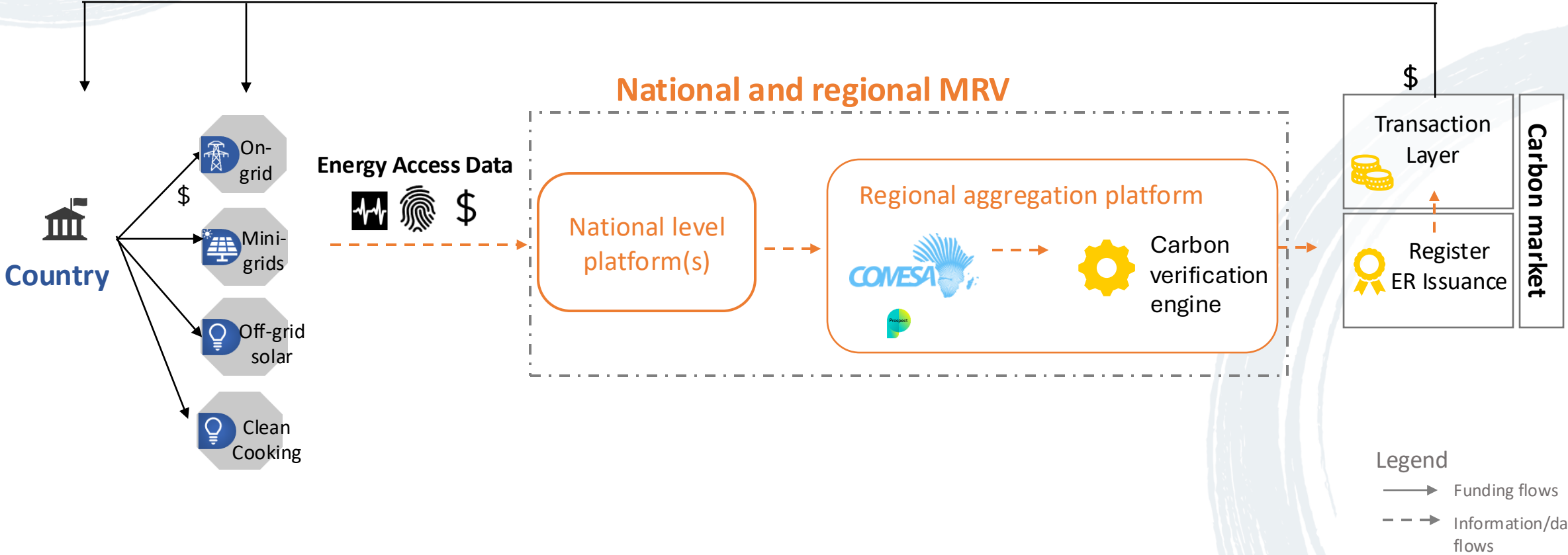
1 Data sources from energy projects Data collection

2 National and regional MRV Data aggregation

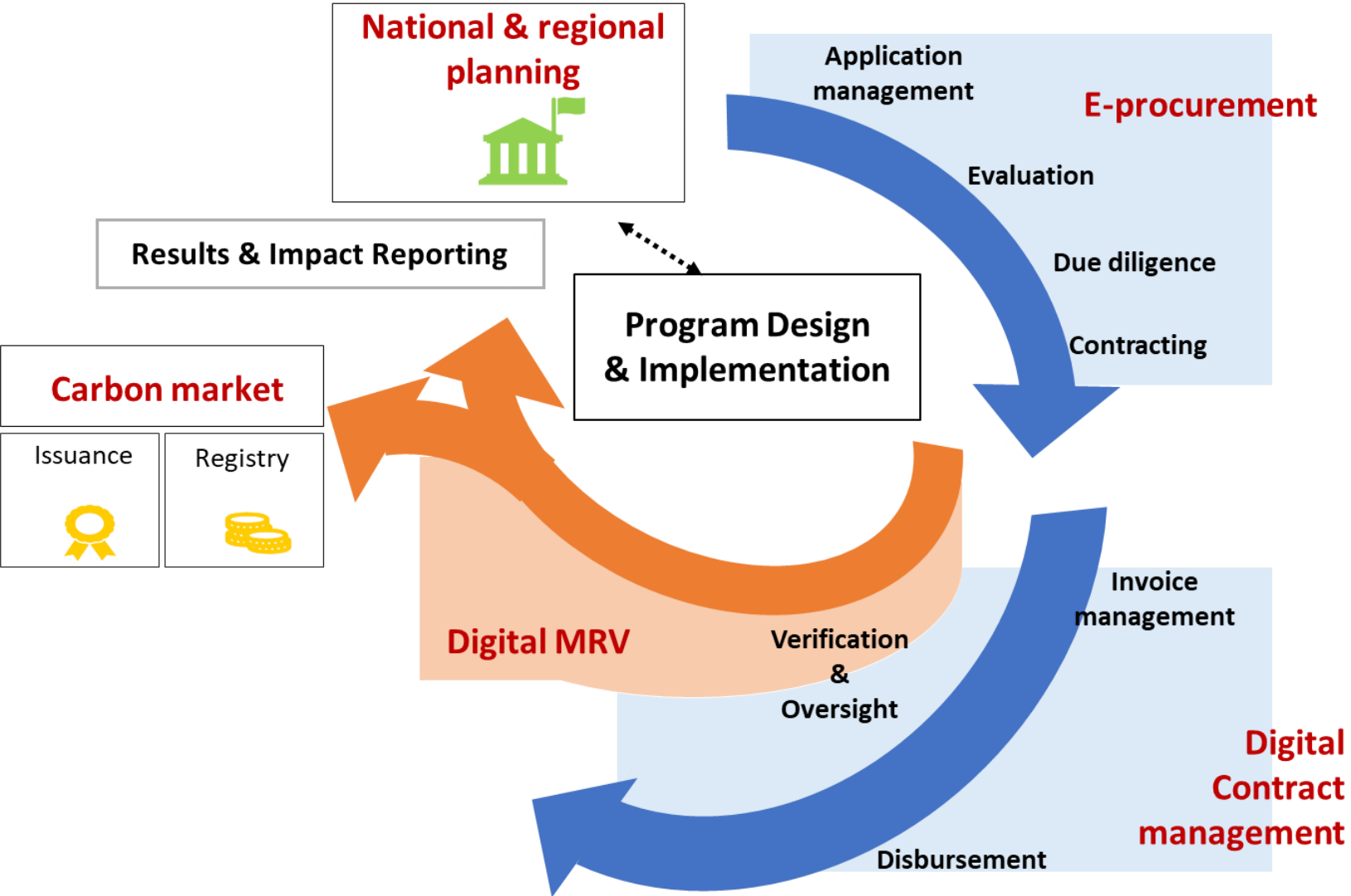


Building on dMRV for Accessing Carbon Markets

Reducing transaction costs, improving efficiency, attracting interest



Faster and Better reporting of results and demonstration of impacts is the key to mobilizing finance





Throughout ASCENT week, please explore how digital solutions can help achieve our energy access ambitions faster..

Thank you!

Achieving Results Faster, Together