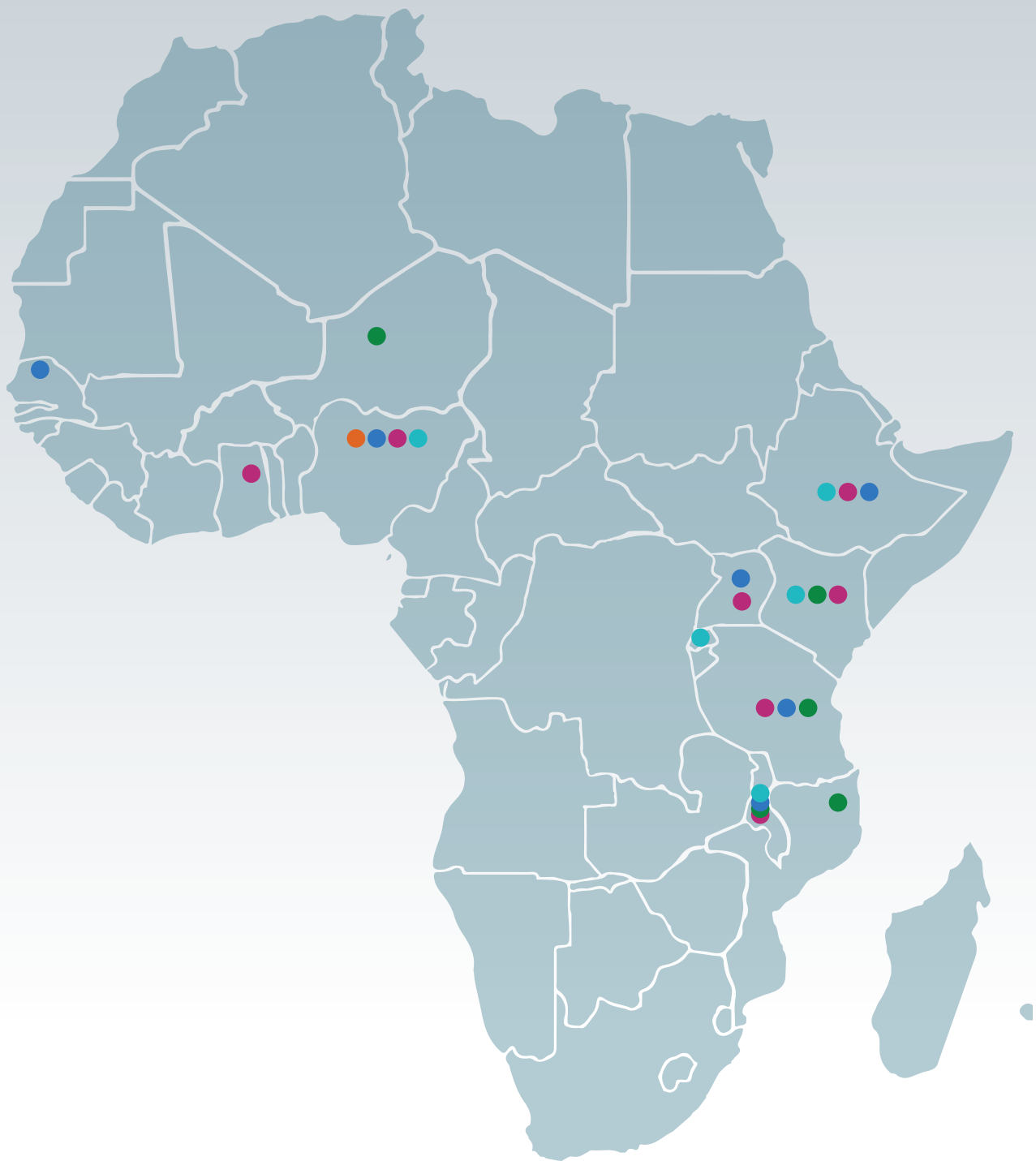# Cold Chain Equipment Maintenance Snapshot

Effective cold chain equipment is the backbone of successful vaccine delivery, but its seamless operation relies on a complex web of "behind-the-scenes" activities. These activities, often supported by multiple partners and government entities, ensure that CCE functions optimally. This graphic highlights several crucial activities that are currently being implemented to contribute to robust CCE maintenance systems in multiple countries, demonstrating that keeping vaccines safely chilled involves far more than just plugging in a refrigerator. While not exhaustive, the activities presented here aim to inspire and inform other countries as we collectively strive to strengthen CCE maintenance globally, ultimately ensuring that life-saving vaccines reach every person in need.

Discovery
- Technicians engaged in solving key problems through human-centered design approaches

Data
- Improved use of remote temperature monitoring data, standardized processes, and building capacity through adult learning method
- Cold chain information integrated into government equipment inventory and maintenance system
- Increased visibility of cold chain temperature through Varo/Pogo® LT apps and 30DTRs
- Cold Chain Inventory System rolled out to all health facilities to track equipment and maintenance action
- Strengthened use of CCE data to inform maintenance actions
- Established requirements for dashboards and visualizations to improve data use for maintenance

Connecting
- Maintenance workshop informed and energized 50 cold chain technicians, engineers, supply chain managers, and data analysts
- Connecting technicians through peer-to-peer channels demonstrated strengthening of maintenance system

Operations
- Technicians informed a new job aid that illustrates how to read equipment faults in temperature patterns
- Floating Assembly brought efficiencies to maintenance system, building capacity of biomedical engineers and technicians

Ownership
- Demonstrated increasing government ownership of maintenance and more efficiency
- Transferred private sector knowledge and best practice to government technicians and systems
- Center of Excellence (Rwanda) built capacity of technicians in multiple countries

JSI   PATH   VILLAGE REACH®

These activities are being supported by multiple partners and are only a snapshot of the great work around the world being done to improve CCE maintenance.

July 2025