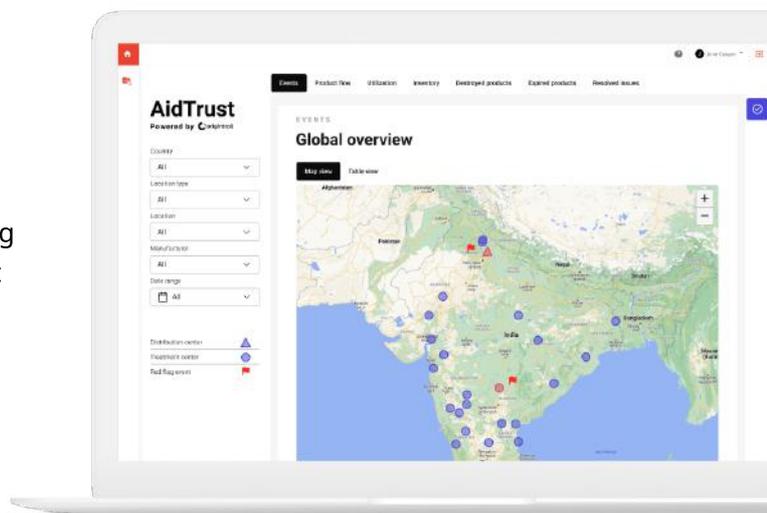# AidTrust case study

**Global donor organization, national supply chain, quality and security –
From losing product to quality standards improvement**

## Background

In 2014 two global pharmaceutical companies, in partnership with an NGO, pledged to donate and distribute up to 1 billion international units of cold chain pharma product for use in developing countries over ten years. Between 2015–19 over 450 million units have been provided and more than 18,000 people have been treated. The scheme has been extended to 2025.

## Problem Statement:

The NGO distributes donated medicines through a global distribution network comprised of numerous treatment centres situated throughout the receiving countries. The donating parties raised initial concern to the NGO regarding potential and significant product diversion and subsequent loss of medicines in the supply chain in India. The contributing factors to this diversion were stakeholder competency gaps in quality management, uncertainty around stock and storage capacity levels, as well as inconsistent and manual processes to document and track products. There was also a risk possibility of these challenges occurring in other parts of the world as well.



Inspiring trust for a more resilient world.

# Project Scope:

In just over six months, this single-issue investigation engagement developed into a comprehensive, standards-based quality distribution strategy. BSI engaged in a long-term consultative engagement to improve the in-country management systems and governance, as well provide on the ground presence to monitor the ongoing implementation of the client's quality management program.  As part of the engagement, BSI and Trace Labs also deployed AidTrust, a data management hub powered by the OriginTrail Decentralized Knowledge Graph (DKG). AidTrust allows the client to significantly enhance the transparency of their in-country distribution, using trusted data to better understand the traceability and risk exposure of their donated products. More specifically, AidTrust enables product authentication, tracks patient utilization, provides transparency on stock levels, and highlights any diversion or waste issues. This innovative solution enables the NGO to manage donations in a more efficient and effective way, ensuring the medicine reaches the intended way, ensuring the medicine reaches the intended patients at the right time.

After the successful deployment of AidTrust in India, the NGO is working with BSI and Trace Labs to plan for the global roll out of AidTrust across 40 countries.

# Deliverables

- Comprehensive quality distribution strategy, based on standards and best practice
- Improved management systems and governance at each point of the chain of custody
- Deployment of AidTrust in India, enabling end-to-end, digitally enhanced supply chain visibility for the NGO client and their distribution and healthcare partner network:
  - Ensuring data interoperability based on global data standards such as GS1 EPCIS
  - Unlocking the value of existing product data from NGO and manufacturer ERPs
  - Allowing warehouse staff and medical practitioners to verify product authenticity and enrich existing product data by scanning products with their smart phones

- Using OriginTrail DKG to link and ensure the integrity of data, based on knowledge graph and blockchain technology
- Enabling utilization reporting, risk analysis, diversion and expired product alerts, and transparency on capacity and stock levels based on linked and trusted data

- Framework for roll out of AidTrust across 40 countries where the NGO donates products