Corporate Social Responsibility Impact Assessment Report for Capgemini Technology Services India Ltd.

Organ Ease
F.Y. 2022-23

INTRODUCTION

Capgemini's CSR Program – Organ Ease

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Capgemini is a global leader in consulting, technology, and outsourcing services, with over 130,000 professionals across 40+ countries.

Known for its Collaborative Business Experience™ and Rightshore® delivery model, Capgemini has been driving business transformation through technology for over 50 years.

Company leverages expertise in cloud, AI, data, connectivity, and digital engineering to foster innovation and operational efficiency, helping organizations confidently navigate the digital era.

Organ Ease is a blockchain-powered initiative developed by IIT Madras to streamline the organ donation and transplantation process.

Designed to be NDHM-compliant, it ensures transparency, security, and efficiency in organ tracking.

The project includes a mobile app and an HMS, allowing hospitals to manage donor and recipient data seamlessly.

Each activity is encrypted and time-stamped, preventing unauthorized changes and enhancing trust among hospitals, transplant centers, and patients.

Successfully piloted in four government hospitals, Organ Ease is now awaiting approval from TRANSTAN to go live, aiming to revolutionize organ donation through technology-driven coordination.

This project is funded by Capgemini Technology Services India Ltd through its CSR funds in FY 2022-23.

METHODOLOGY

A descriptive design was adopted to:

Understand the transplant treatment ecosystem in India to identify the gaps and challenges.	→	Social Impact of IIT- Capgemini's Organ Ease Application.

DATA COLLECTION METHODS

Mapping the transplantation ecosystem through keyword searches on Google.	→	A demo of the application was provided by IIT Madras, followed by a KII with a TRANSTAN representative.	→	IIT's project documents—including progress reports, a database security report, and the MoU with Capgemini—were reviewed.

FINDINGS- TRANSPLANT TREATMENT ECOSYSTEM IN INDIA

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Transplant treatment in India is regulated by the Ministry of Health and Family Welfare under the **Transplantation of Human Organs and Tissues Act (THOTA)**.

The Act governs organ donation and transplantation, ensuring ethical practices and preventing commercial exploitation.

The **National Organ and Tissue Transplant Organization (NOTTO)** oversees implementation under the **National Organ Transplant Program (NOTP)**.

DECENTRALIZED ORGAN DONATION SYSTEM

Andhra Pradesh runs the **Jeevandan scheme.**

Assam and **West Bengal** use **NOTTO's online registry** and digital platforms for donor pledges.

Bihar, Gujarat, Uttar Pradesh, and Rajasthan have **SOTTO units** managing organ donation.

Jammu & Kashmir follows **J&K THOA (1997), amended in 2018**.

Maharashtra's ROTTO-SOTTO system and MahaAyudaan handle organ allocation.

Tamil Nadu's TRANSTAN "Vidiyal" app ensures AI-based transparency.

Organ Ease integrates blockchain technology and has potential to strengthen the security and efficiency of the Indian organ donation eco-system.

FINDINGS- SOACIAL IMPACT

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OECD-DAC Six Evaluation Criteria Framework

OECD DAC Framework is a set of guidelines used to evaluate the inclusiveness, relevance, effectiveness, efficiency, impact, and sustainability of development and aid programs.

INCLUSIVENESS

Organ Ease program by IIT Madras streamlines organ transplant processes, **ensuring fair distribution and accessibility for all** socio-economic groups.

It features a **user-friendly, multilingual interface, is free of cost, promotes awareness** and education, and ensures data privacy and security to build trust and encourage participation.

RELEVANCE

Organ Ease program tackles low organ donation rates by addressing **awareness gaps, cultural beliefs, and trust issues**.

Using **Block Track technology**, it ensures **transparency, security, and real-time organ allocation**.

With **300,000+ patients awaiting transplants**, the app streamlines the process, boosts accessibility, and builds confidence through **education, cultural sensitization, and policy support**.

COHERENCE

Organ Ease supports **THOTA, NDHM/ABDM, PM-JAY, and NOTTO** by enhancing **transparency, accessibility, and efficiency** in organ donation.

It integrates with **India's digital health infrastructure** and **ensures compliance** through collaboration with **Tamil Nadu's TRANSTAN** during its pilot phase.

EFFECTIVENESS

Organ Ease integrates **IoT-enabled medical devices, cloud computing, and 4G/5G technology** to ensure real-time tracking.

By leveraging **real-time data processing**, the platform facilitates seamless coordination between **hospitals, transplant centers, and regulatory bodies**, reducing inefficiencies in the organ donation process.

It Connects **donors, recipients, hospitals, and procurement centers**, ensuring efficient organ matching and allocation.

It Automates **organ requests, confirmations, and tracking**, minimizing delays and errors.

A **user-friendly interface** allows easy donor registration and helps patients find potential matches, increasing organ availability and reducing wait times.

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EFFICIENCY

Minimizes administrative delays and human errors by digitizing donor and recipient records, enabling instant data sharing among hospitals, transplant centers, and regulatory bodies.

Platform **automates donor-recipient matching, streamlines hospital coordination, and features an intuitive design.**

IMPACT

Enhanced Trust: Tamper-proof records ensure transparency, reducing fraud in organ allocation.

Reduced Demand-Supply Gap: Faster matching, wider coverage, and public awareness improve organ availability.

Better Care & Dignity: Tracking systems enhance organ viability for both donors and recipients.

Health Equity: Eliminates biases, ensuring fair organ distribution regardless of background or location.

SUSTAINABILITY

Organ Ease ensures **sustainability through blockchain security, real-time access**, and IoT tracking.

It fosters **trust, enhances accessibility, and promotes equitable** organ donation.

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CONCLUSION

IIT demonstrated the app; TRANSTAN highlighted its relevance, efficiency, and benchmark potential.

App aligns with national regulations and WHO best practices.

Upholds donor/recipient dignity, ensures equitable access, and optimizes risk-benefit.

Potential to addresses key challenges in organ transplant treatment in India such as Skewed demand-supply ratio, Inequity in access, Ethical concerns, Urban/regional concentration, High costs, Lack of information and Safety and security issues.
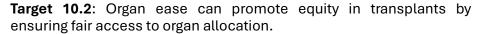
SDG Alignment

Target 3.4 Organ ease potentially reduces mortality

Target 3.8 Can enhance healthcare access through real time tracking.

Target 3.d Can strengthen healthcare delivery systems through the state-of-the-art technology like blockchain and IoT.

Target 9.1: Organ ease can strengthen healthcare infrastructure by streamlining organ donation and transplant processes.

Target 9.5: Can advance medical research and innovation through organ tracking using blockchain and IoT.

Target 10.2: Organ ease can promote equity in transplants by ensuring fair access to organ allocation.

Target 10.4: Can reduce systemic biases through tech-driven decision-making using blockchain and AI.

Target 17.6: Organ ease Promotes technology sharing in organ transplant systems.

Target 17.9: Supports capacity-building through training and digital health initiatives.