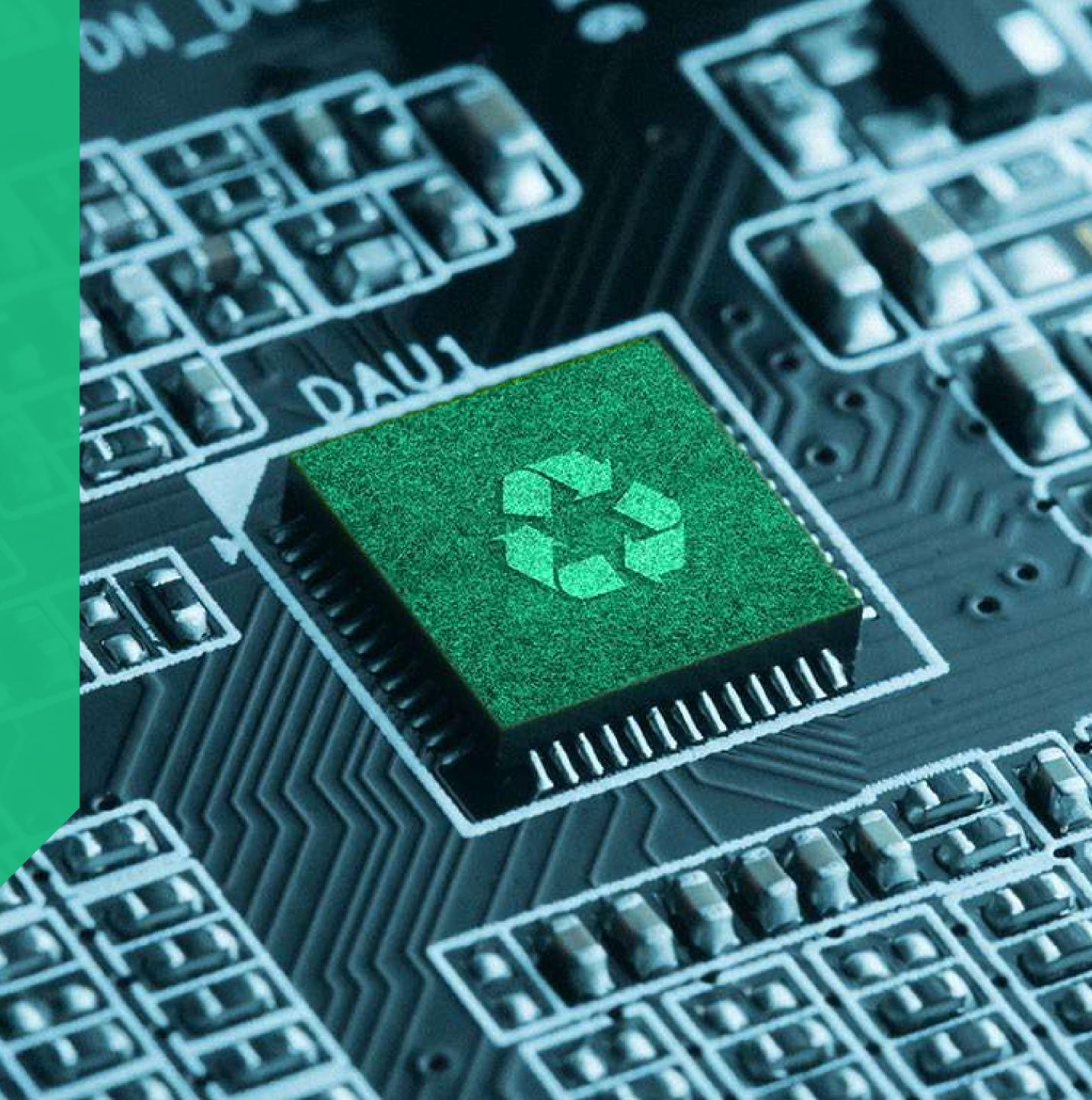




GCC Partnership Guidebook

Recycle Your Device

cst.gov.sa





The Digital Cooperation Organization (DCO) is an enabler for a sustainable digital economy for its Member States, including KSA, by supporting responsible E-Waste Management

The DCO supports Member States achieve social prosperity and growing the digital economy



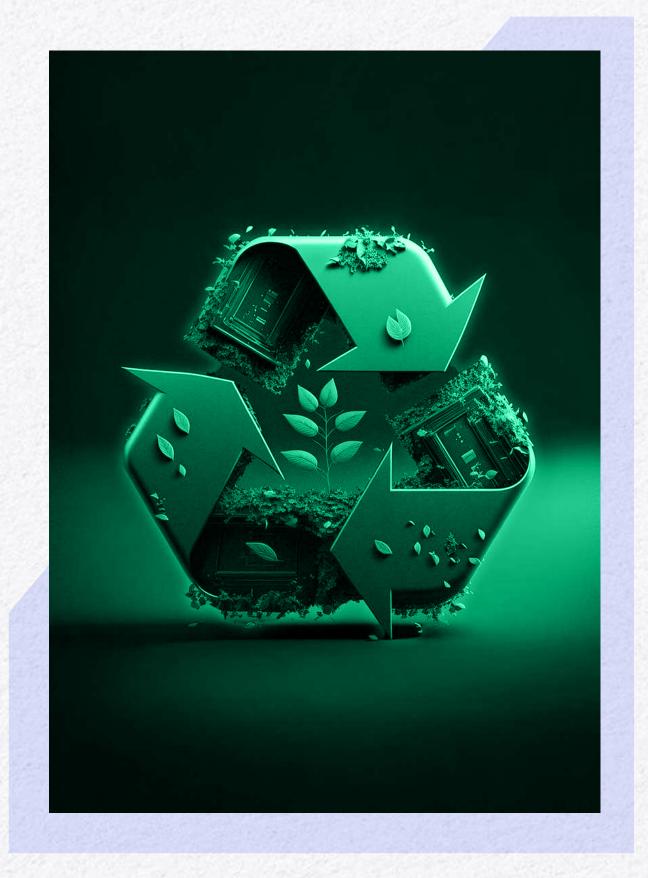
The DCO Strategic Roadmap for 2030, DCO 4-Year Agenda 2025-2028, and DCO Digital Economy Navigator (DEN) are also centered to foster an inclusive, human-centric, and sustainable digital economy using digital technologies



The DCO also aims to enable women, people with disabilities, the youth, and entrepreneurs by giving them the access, skills to benefit from internet and digital technologies



The DCO accelerates collaboration, innovation and cooperation in the digital economies bringing together Member States





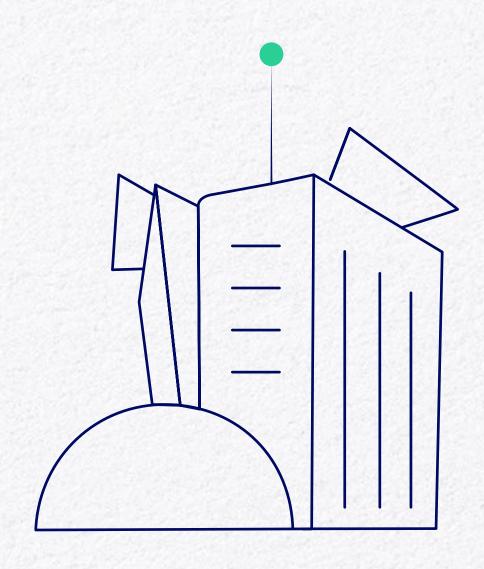




The Kingdom of Saudi Arabia, a DCO Member State, is working to advance sustainable development through various initiatives, including the E-waste Management Initiatives

Launched the "Recycle Your Device" initiative to encourage the public sector, businesses and individuals to recycle electronic devices to advance e-waste management in support of the KSA's Sustainable Development Goals.

CST aims to reduce e-waste, promote social responsibility, and support a circular economy through responsible device recycling.

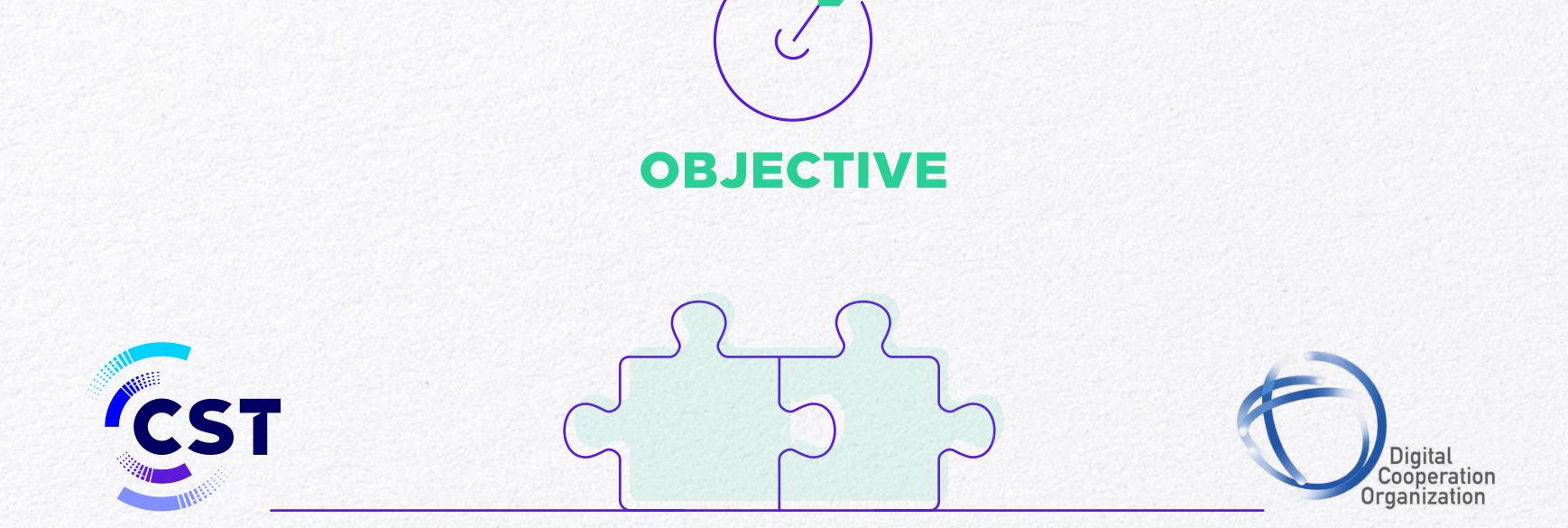


CST's Initiative "Recycle Your Device"





CST and the DCO partnered to raise awareness, foster strategic policy dialogue and strengthen cross-sector collaboration on e-waste management to support sustainable digital ecosystems



To advance e-waste management by promoting responsible recycling of electronic devices across sectors



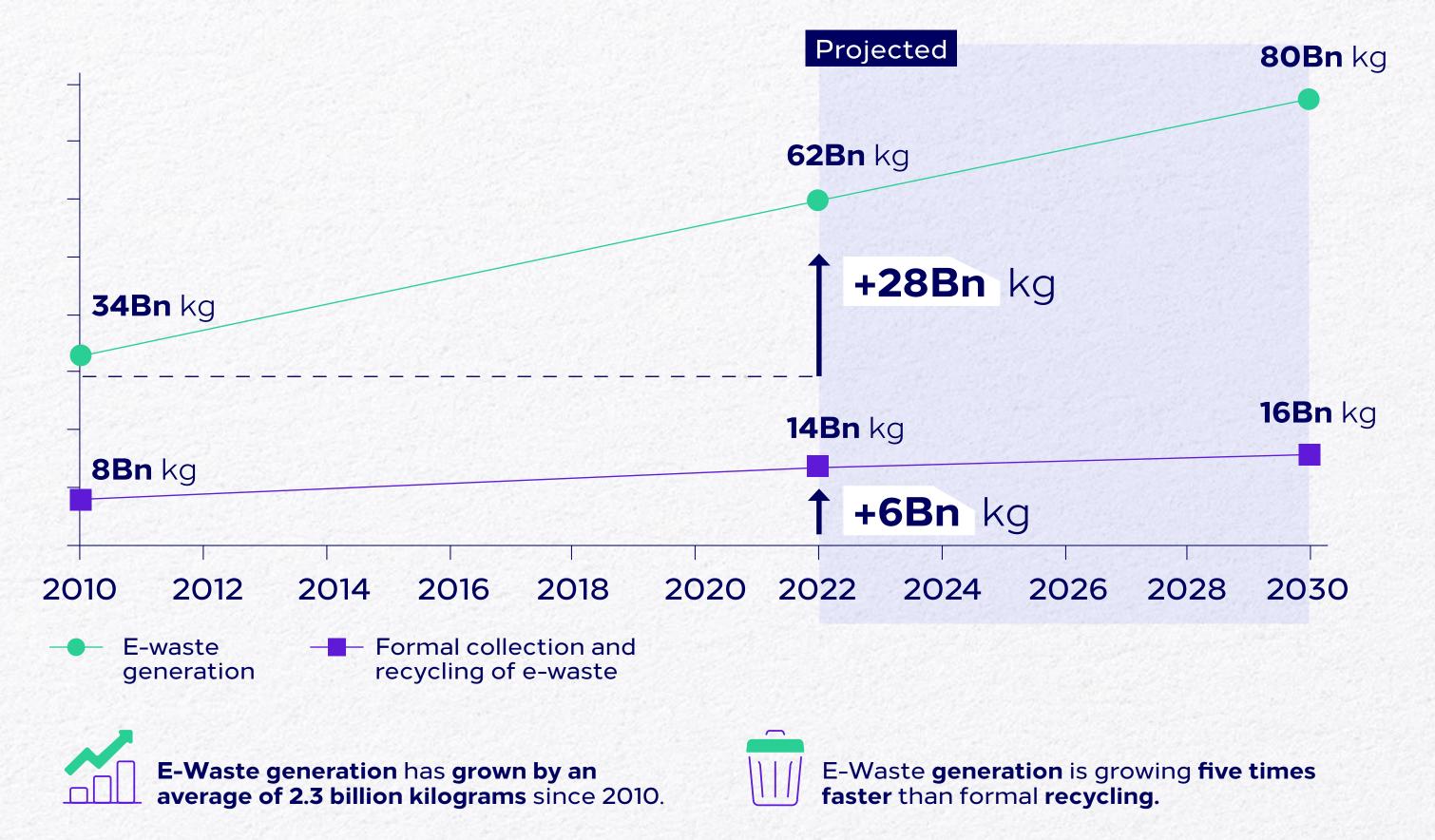




E-Waste is both a challenge and an opportunity: growing volumes strain collection systems, yet vast economic value remains untapped

E-Waste Growth and Environmental Impact

VOLUMES OF GLOBAL E-WASTE GENERATION, COLLECTION AND RECYCLING [2010-2030]







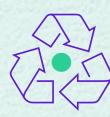


Challenges in E-Waste Management

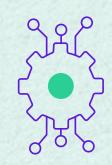


Lack of e-waste specific legislation and/ or challenges with enforcement.

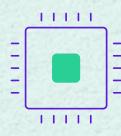




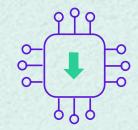
Limited e-waste collection, treatment and recycling infrastructure.

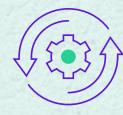


Fragmented Value Chain, with unregulated informal sector involvement.



Limited availability of e-waste data, and lack of e-waste tracking system.





Commercial viability of operating high quality recycling infrastructure.

strengthening e-waste management requires assessing current systems and empowering both the private and social sectors.





DCO E-Waste Management Framework

Differentiating factor

Key Components:

Guiding Principles	Desired characteristics	Framework Layers
Covers The Whole E-waste Value Chain	Maps government mechanisms exhaustively across the whole value chain.	The first Layer of the framework structure is the value chain, including import and export steps.
Considers Both National And Cross- border E-Waste Flows	Brings together national and cross-border considerations in an integrated framework.	
Exhaustive Coverage Of Government - Driven Mechanisms	Looks beyond policies to provide comprehensive coverage of government-driven mechanisms, including capability building and private sector enablement.	The second Layer of the framework is categories of government-driven mechanisms.
Country Agnostic: Applicable To Diverse Contexts	Derives content from best practices and encourages countries to identify relevant mechanisms for implementation based on their current state.	O3 Alongside the framework, stages for successful
Simple, Practical, And Effective	Clearly structured, including no more than two dimensions to ensure comprehensibility, and provides specific guidance for actioning the framework.	implementation is detailed.





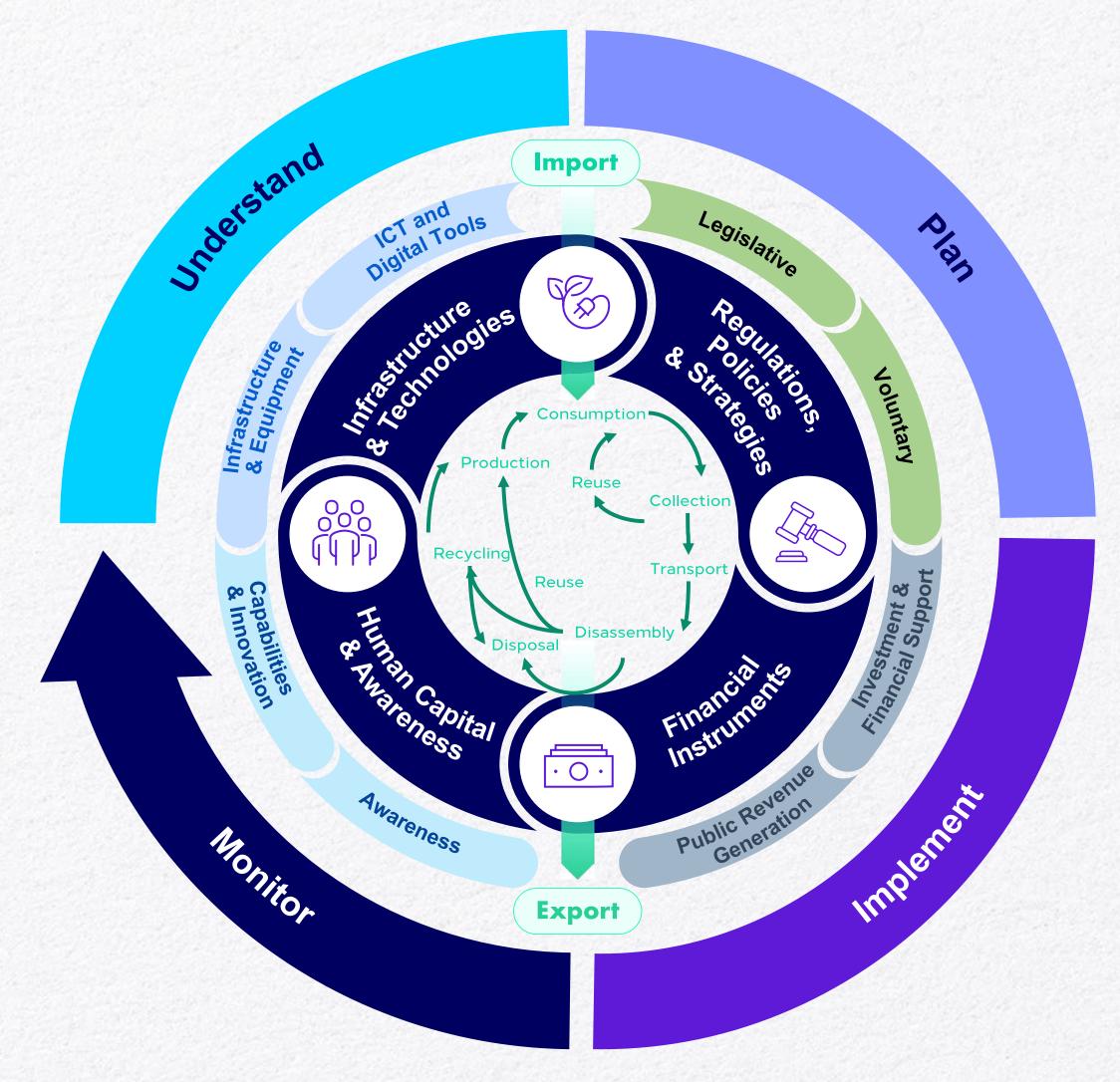




- DCO

DCO E-Waste Management Framework

"E-Cycle In Action For Governments"









A Real-World Use Case: "Recycle Your Device" & the DCO E-Waste Management Framework



Aligned Holistic Approach

'Recycle Your Device' supports DCO Framework covering the entire E-Waste value chain





Policy Engagement

Promotes stakeholder alignment and voluntary participation within the DCO's Regulatory, Policy & Strategy Pillar





Infrastructure & Awareness

Boosts recycling infrastructure and public awareness, reinforcing the framework's human capital and technology pillar







What is Recycle Your Device?

"Recycle Your Device" is an initiative designed to encourage governments, businesses, and individuals to recycle their electronic devices.

At the national level, the Communications, Space and Technology Commission (CST), in cooperation with the Ministry of Communications and Information Technology (MCIT), MWAN, and private sector partners, launched the campaign to support the Kingdom's near- and medium-term sustainable development goals.

CST is working with the Digital Cooperation Organization (DCO) and its Member States, particularly in the GCC, to adapt and replicate the "Recycle Your Device" campaign internationally, aligning with national e-waste priorities.

The initiative has two core objectives:

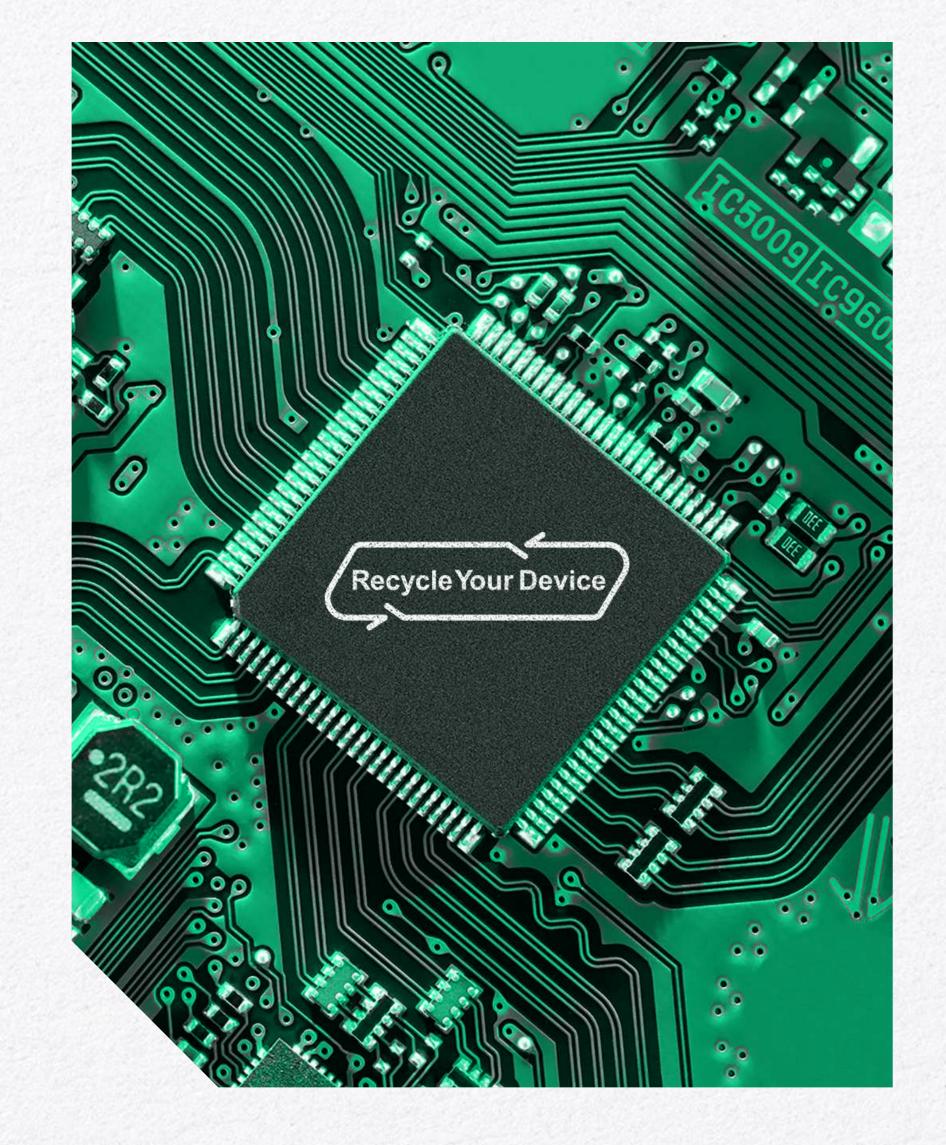
- 1 Raise awareness among individuals, institutions, and governments about the importance of recycling electronic devices and advancing sustainability.
- 2 Expand partnerships with private sector stakeholders and public authorities to build a broad national and cross-border recycling movement.







هيئة الاتصالات والفضاء والتقنية Communications, Space & **Technology Commission**









What is Recycle Your Device?

Promoting Progress on the SDGs

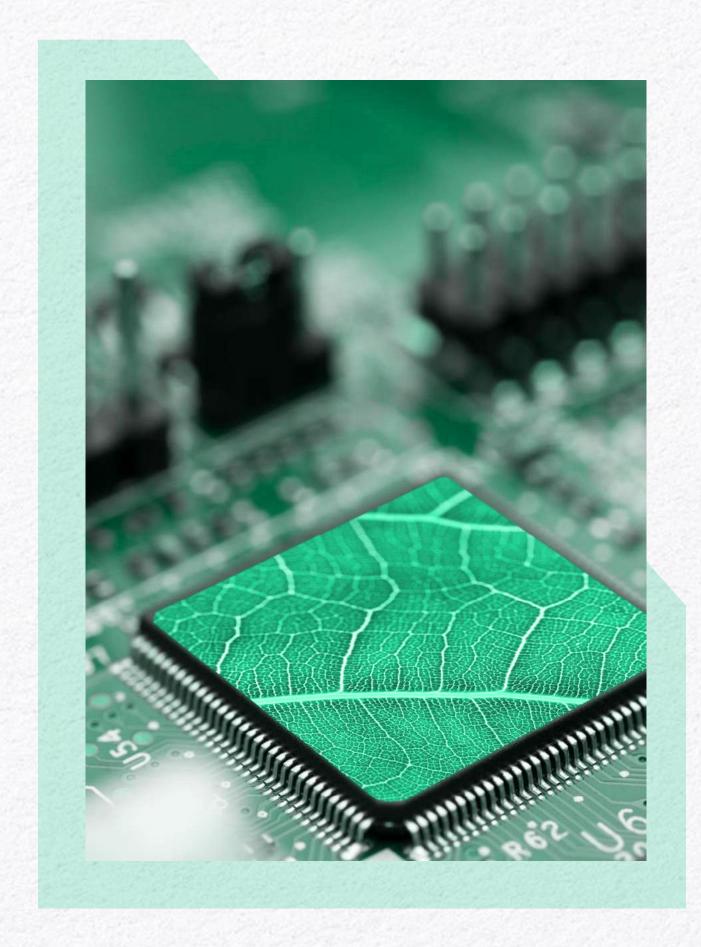














Economic

Harnessing e-waste economic value by recovering usable materials to support the production of new devices

Reducing financial waste through efficient recycling and raw material utilization



Lowering carbon emissions.

Limiting electronic waste to protect the environment.



Empowering low-income families with access to digital devices.

Creating employment opportunities that support digital inclusion and bridge the digital divide.





S

Recycle Your Device Initiative: Achievements and Impact



First national initiative

In recycling electronic devices



+350K

Collected devices



+105M SAR

Market value of the devices



+840 tons

Recycled or repaired



+150

Charities and schools were supported



+20K

Individual contribution



26

Visited entities to encourage and rise awareness



37

Entities have made donation of their devices





To expand this impact and lesson learned have been gained on the previous years we developed this guidebook



This guide focuses on replicating the "Recycle Your Device" initiative, offering stakeholders clear steps, tools, and best practices to plan, launch, and scale similar campaigns that drive sustainable e-waste management, foster cross-sector alignment, and expand national and crossborder device recycling.





Strategic Direction 01

to Guide Global, Regional and National E-Waste **Efforts**

Operational Alignment

for practical implementation of recycling initiatives

Well defined process 03

to ensure consistent and replicable e-waste management approaches

Collaborative action

to foster partnership across stakeholders, including governments, businesses, and society





This guide is targeted to support a national level implementation of device recycling



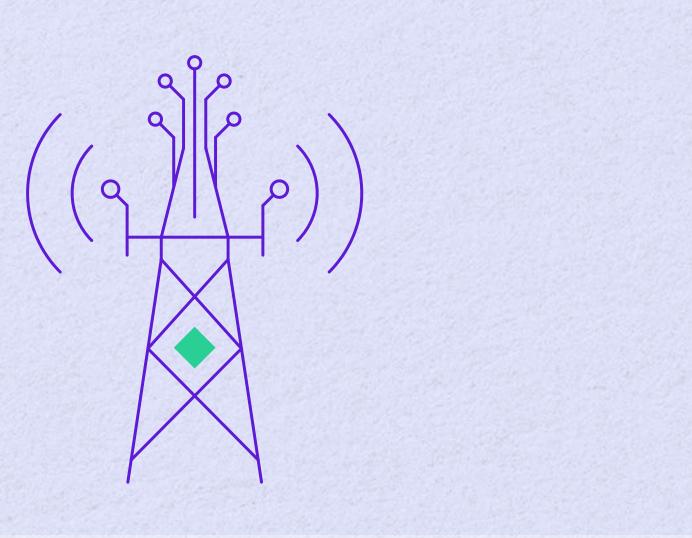
- Equip stakeholders with a practical guide to initiate and implement effective e-waste management programs.
- > Foster cross-sector and multilevel alignment on sustainable e-waste management practices
- Support cross-sector collaboration to scale national and cross-border electronic devices recycling efforts.





Regulators / Ministries for ICT sector

(Comms & Technology)

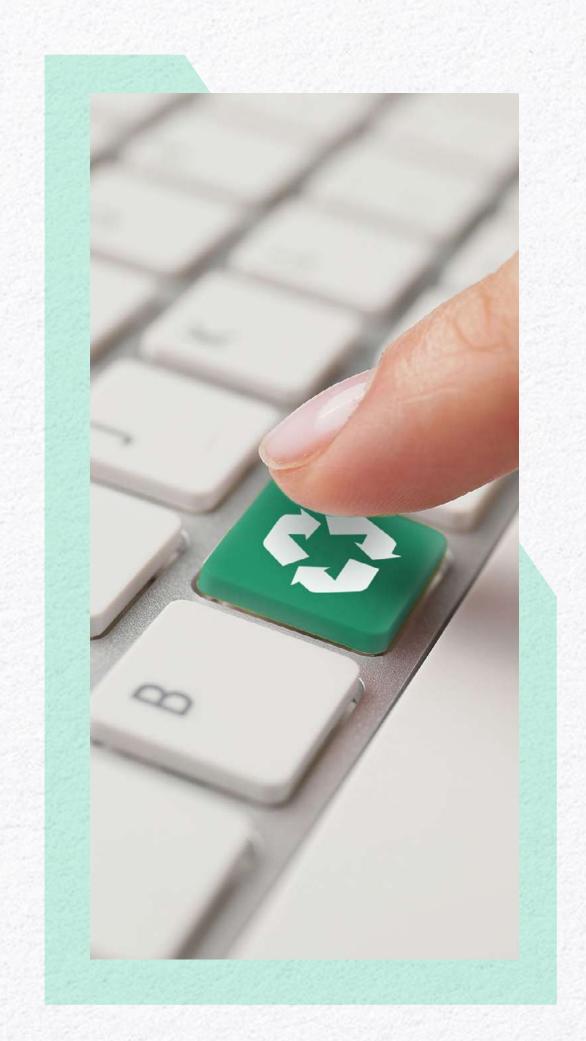


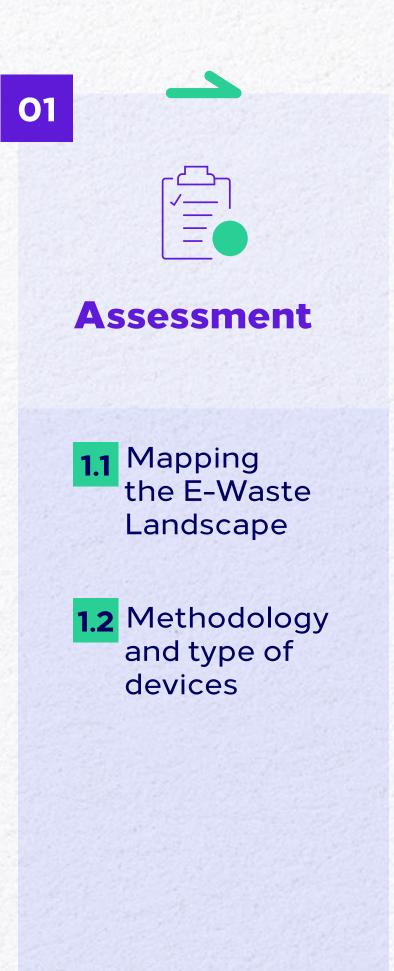




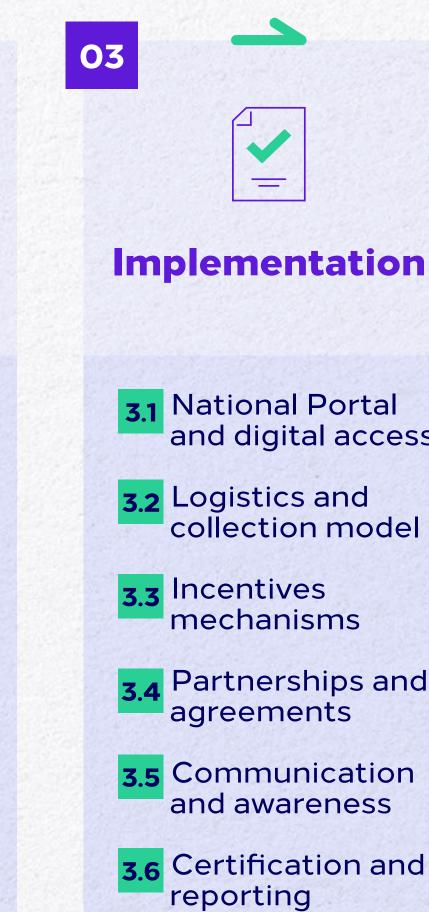


Pillars of the 'Recycle Your Device' Initiative











and awareness



04



Step 1: Assessment

1.1 Mapping the E-Waste Landscape

To develop an effective recycling program, it's essential to understand the national landscape:

Stakeholder Mapping:

- Regulators: Identify all relevant public entities (e.g., ICT regulators, environmental ministries, waste management authorities).
- > Private Sector: Include telecom companies, e-waste logistics providers, and retailers.
- Nonprofits and Academia: Engage with technical universities and sustainability **NGOs**





Regulators responsible for e-waste:

- > MWAN: National center for public sector waste-management
- MCIT and CST: Public ICT sector regulators
- Ertiqa: non-profit organization for device repair services
- > Atta Digital: Non-profit initiative to raise public awareness
- Sirc: Private sector e-waste management organization
- Eg.DHL, STC, Jahez, Zain, Mobily, SMSA: Delivery and logistics services partners





Step 1: Assessment

1.2 Methodology

Targeted Device Categories:



Assessment Methods:

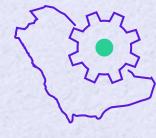
- Surveys and focus groups to understand user behavior.
- Use of digital platforms (e.g., national portals) to track preferences and engagement.
- Geospatial mapping to identify underserved areas.







The initiative identified target groups, including individuals and businesses, prioritized focus areas and evaluated service accessibility across cities.



For the KSA implementation, small IT devices, such as mobile phones, landline telephones, computers, modems, and printers, were chosen for their ease of repair, straightforward handling, and strong potential for reuse.





Pillar 2: Planning and governance

2.1 design the process

Design a citizen- and business-friendly process

Access Channels:

- Drop-off points at retail stores, government buildings, and telecom centers.
- > Scheduled home pick-up services.
- > Smart kiosks with automated incentives (recommended enhancement).

Digital Integration:

- Develop or localize a unified mobile/web portal for all services.
- Include features such as real-time tracking, incentive management, and educational content.

Customer Journey Optimization:

- > Ensure simplicity from registration to certification.
- > Provide multilingual support.







Drop-off: devices can be delivered to a designated collection points of partners















Pick-up: home collection service is provided in collaboration with delivery partners (Eg. Jahez, SMSA)







A national portal was developed under CST official platform







Pillar 2: Planning and Governance

2.2 Roles and Responsibilities







- Central Governance and Oversight: CST and MWAN
- **Digital Infrastructure:** digital platform is developed by CST to manage user interaction
- > Targeted Segments: Business and Individuals
- **>** Collection and Logistics Partners:

Drop-off Points: Provided by telecom operators and Riyadh Bank (e.g., STC, Mobily, Zain)

Pick-up Services: Supported by logistics partners (e.g., Jahez, SMSA)

- **A non-profit partner (Ertiqa):** for individuals and business registration, including the Device assessment, repair, and donation process
- **Recycling entity (Sirc)**: Unrepairable devices is transmitted to sirc to handle the device destruction process





Pillar 2: Planning and governance

2.3 Develop the guide line

Develop a governance framework to ensure program scalability, transparency, and trust:

Standard Operating Procedures (SOPs):

- > Define handling, collection, and transportation protocols.
- Include device testing, data wiping, and quality checks.

Legal and Regulatory Alignment:

Ensure compliance with e-waste and data protection laws (ex: following GDPR or national data protection laws, waste management national framework, ..etc)

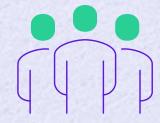
Risk Mitigation Measures:

Address collection inefficiencies or low public participation.



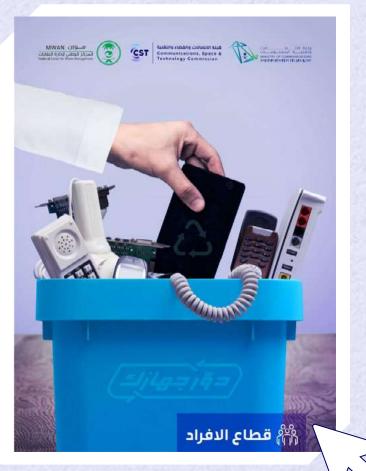


Developed a "Device Donation Manual"



Guidance for business

Click here to access the full Device Donation Manual for Individuals





Guidance for individuals

Click here to access the full Device Donation Manual for organizations







3.1 National Portal and Digital Access

Develop a National Portal

Two Tracks:

- Business Track: For companies to recycle in bulk.
- Individual Track: For residents donating or recycling.

Include features like:

- Device registration
- > Pickup/drop-off scheduling
- > Real-time status updates
- Digital certificate issuance

Mobile App Integration (Optional)

> Provide convenience for users to track donations and receive digital incentives.







National informative portal:

- > CST launched the portal to guide users through the recycling process that outlines delivery options
- Once the option is selected, the user is redirected to the partner's page to complete the request



Branch drop-off option:

> a map linked to Google Maps aiding users in navigating the drop-off journey



Pick up - option:

> a map is provided to users by partners to track their devices and requests status







3.2 Logistics and Collection Models

Flexible Collection Channels

- Drop-off Points: Partner with logistics providers (e.g., DHL) to offer accessible collection hubs.
- Home Pickup: Enable scheduling for home/office collections for large quantities.
- > Events-Based Collection: Temporary stations during national events or sustainability weeks.







KSA has developed multiple collection and logistics models

- **Drop-off points:** for individuals has been strategically utilized and selected to maximize reach (Eg. STC,Zain,DHL)
- O2 Home pickup: requests via delivery partners (Eg. Jahez, SMSA)
- **Events based collection:** the initiative participate in public events (Eg.Leap conference) where a branded booth is setup for visitors to donate devices and invitations are extended to organizations and employees to encourage donation.







Pillar 3: Implementation

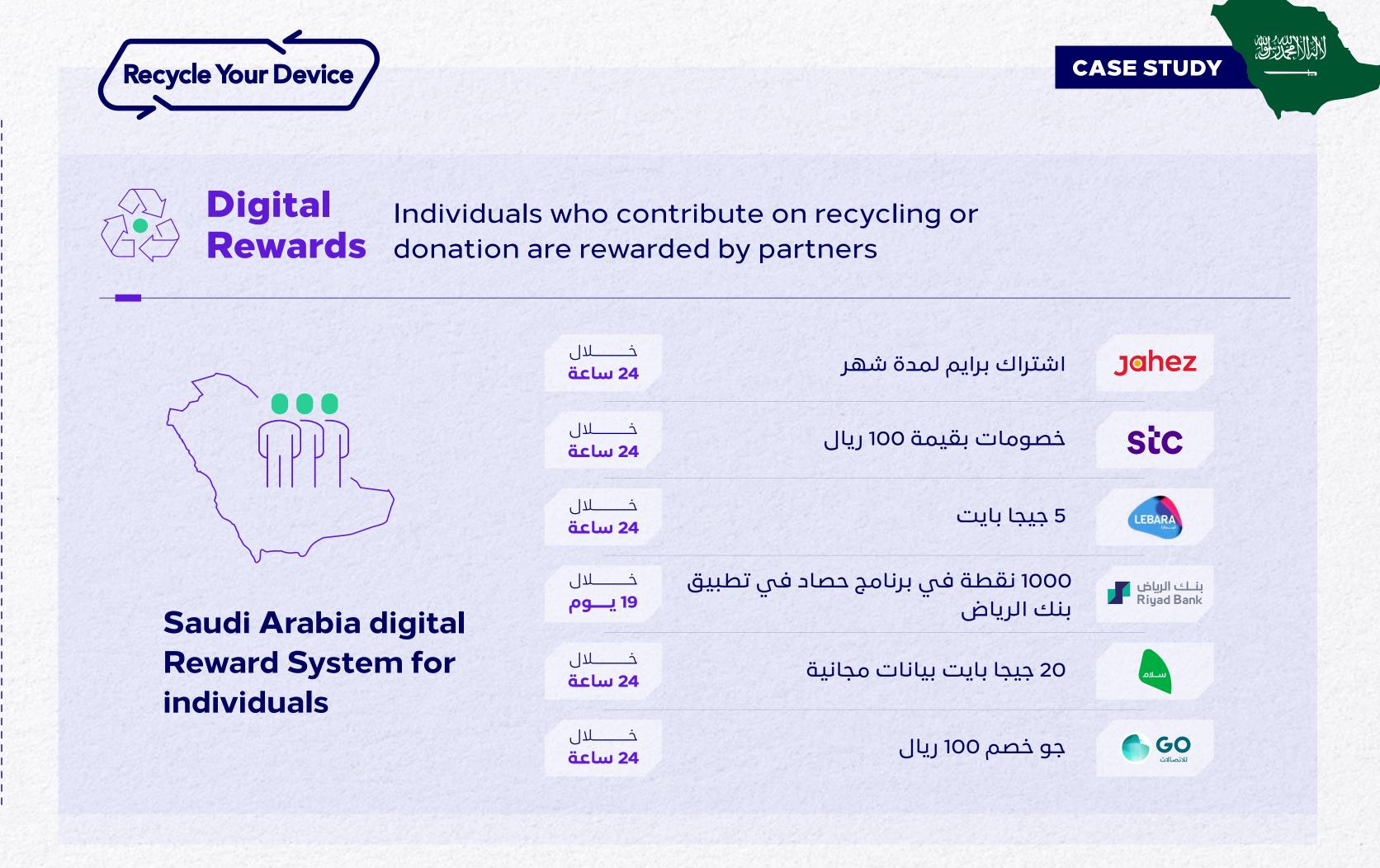
3.3 Incentive Mechanisms

Digital Rewards Program

- > Encourage participation through:
 - Points redeemable at retail partners
 - Telecom discounts
 - Certificates of contribution (especially for students and CSR reporting)

Gamification & Recognition

- Rankings by city/school/ organization
- Public recognition of top contributors







3.4 Partnerships and Agreements



- > Nonprofits: Repair and donation
- > Recyclers: Certified destruction
- Private Sector: Logistics and communication
- > Government: Awareness campaigns and policy support

Sign MOUs

> To clarify roles, responsibilities, and data-sharing agreements







In KSA intersections between partners where defined and signed by agreements

- Memorandums of Understanding (MOUs) were signed between CST and key implementation partners to define roles and responsibilities clearly
- > Delivery apps intersects with the recycling company to manage pickups. A process was agreed upon for submitting requests from the delivery app's warehouse, including expected timelines and approved forms between both parties
- Coordination between the repair and recycling entities to agree upon the transfer of nonrepairable devices, including weight measurements and the donation value per ton
- Agreement between drop-off point entities and the recycling company to coordinate pickup schedules from branches and related logistics







3.5 Communication and Awareness



- Use digital and traditional media to promote:
 - Environmental benefits
 - How to participate
 - Success stories

Targeted Messaging

- > Schools: Emphasize education and competition
- **Corporates:** Focus on ESG/CSR value
- General Public: Simplicity and rewards

Toolkits for Partners

Provide ready-to-use social media content, posters, and **FAQs**







Raising Awareness through:

- > Spreading promotional content through digital media
- Collaboration with partners to ensure unified promotional content

- Integration of an FAQs section via initiative's website
- Activation of CST's call center to assist users regarding the initiative



To reach out for infographics

Click here









3.6 Certification and Reporting

For Individuals:

Receipt + digital certificate of contribution

For Organizations:

- > Certificates of participation
- Impact reports summarizing:
 - Number of devices
 - Weight/volume
 - Environmental benefit (e.g., CO₂ saved)







Refurbishment reporting for organizations:

- > Participated organizations will receive Certificate and Receipt from 'Ertiqa'
- > A report on the recipient organizations of the donated devices



SMSA

Provides Ertiqa with donation receipt and a certificate of appreciation acknowledging the donor's contribution







Recycling reporting for organizations

- A report on recovered materials quantities and estimated CO₂ emissions reduction is provided to the organization from recycling entity 'SIRC'
- Participated organizations will receive two Certificates issued by the Recycling Entity 'SIRC'







Certification and reporting for individuals

- > Certificate of acknowledgment for device refurbishment donation
- > Jahez: provides a digital receipt of recycling to donors upon device pickup





Pillar 4: Monitoring and refining

4.1 Key Performance Indicators (KPIs)

Suggested KPIs Area Tons of e-waste collected • CO₂ emissions avoided **Environmental** • % of devices reused vs. destroyed **Impact** • # of individual contributors 02 • # of organizations enrolled • Drop-off point utilization **Participation** rates • Campaign reach and engagement 03 Social media mentions **Awareness** • Surveyed awareness levels Average time from collection to certification 04 Portal uptime and user satisfaction **Process** % of devices with data wiped **Efficiency**

properly







To mentor performance KSA Has:

- Developed a unified mechanism for collecting performance data from stakeholders
- > Implemented weekly reporting cycles to track KPIs of the initiative

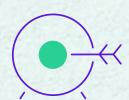






Pillar 4: Monitoring and refining

4.2 Refinement Cycles



Annual review sessions

with all stakeholders to evaluate performance and realign goals.



Iteration roadmap

- > Version 1: Pilot and adapt
- > Version 2: Expand and standardize
- > Version 3: Automate and regionalize







KSA has applied a phase approach initiative:

- Version 1 (2022–2024): Tested collection models, partnerships structure, and awareness strategies
- Version 2 (2025 onward): Focused on scaling and standardizing based on data insights from the first launch based on KPI results and consumers feedback (e.g., user preferences, success rates and lesson learned)
- **Vesrion3:** Insights from previous versions informed and allowed for collaboration (Eg. GCC-wide framework presented today)

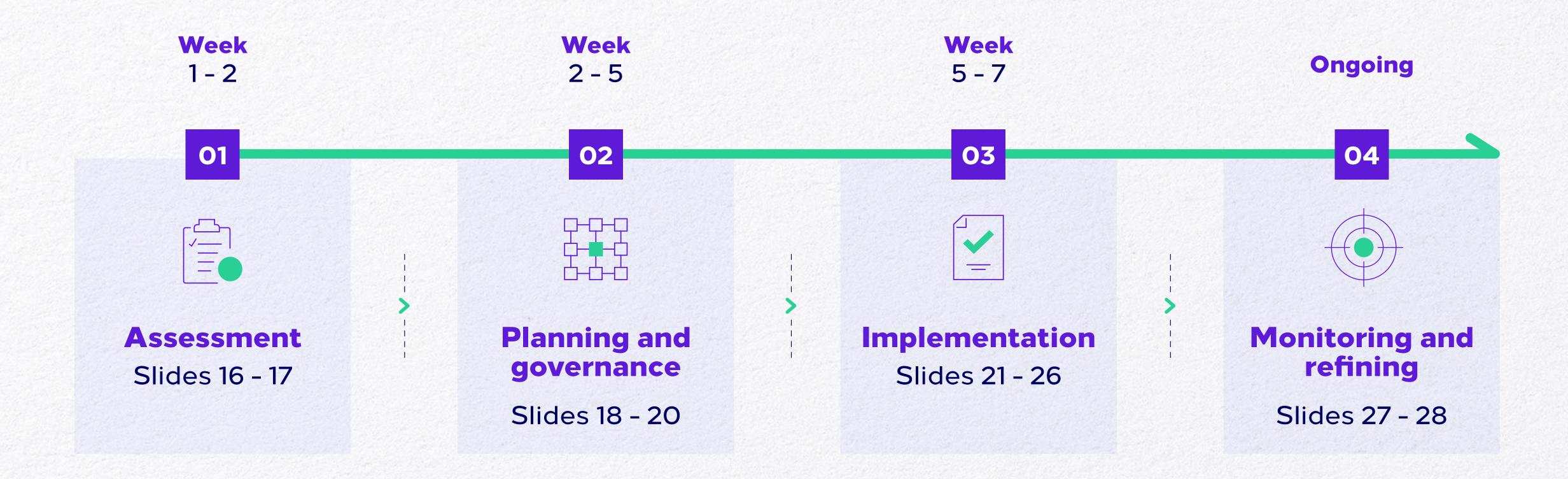








This guide can be implemented in four steps over an eight-week period



Future outlook

The Recycle Your Device initiative is more than a campaign, it is a foundation for sustainable digital future.

As we look ahead, the goal is to **move from isolated efforts to a unified regional movement** that embeds e-waste recycling into national culture, digital policies and economic planning. The GCC has the opportunity to lead globally by turning digital waste into digital value, economically, socially and environmentally.