UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION

SUSTAINABLE
DEVELOPMENT
GOALS

Circular Economy support in TCLF sector: lessons from UNIDO

UNIDO is a specialized UN agency – CER Unit promotes circular and resource-efficient modes of production and consumption

United Nations Industrial Development Organization (UNIDO)

UNIDO is a specialized agency of the United Nations with a unique mandate to promote, dynamize and accelerate industrial development. UNIDO provides support to its 172 Member States through four mandated functions:

- Technical cooperation
- Action-oriented research and policy-advisory services
- Normative standards-related activities
- Fostering partnerships for knowledge and technology transfer

UNIDO Headquarters in Vienna

Circular Economy within UNIDO

UNIDO's Circular Economy and Resource Efficiency Unit promotes circular and resource-efficient modes of production and consumption through technical cooperation and other means. The Unit helps countries and actors along value chains realize social, environmental and economic benefits, with a focus on the upstream activities (design for circularity)

We deliver interventions typically on three levels

Level	Description	Example
Macro	**Strengthening national/regional policy frameworks and regulatory instruments/standards** via • Evidence based policy advice • Drafting of new policy instruments and stakeholder validation • Awareness raising and knowledge dissemination	Cooperation with Ministries to develop a National Strategy for a Bio-based Economy in Egypt and drafting of relevant national standards
Meso	**Assistance to intermediary institutions** such as business support organizations (BSOs) and service providers via • Strengthening their institutional capacity • Supporting them in fostering CE in their sphere of influence	Cooperating with financial institutions to create dedicated finance products for green SMEs in Morocco and Egypt
Micro	**Supporting businesses and value chain actors** via • Direct support to a group of companies to implement Resource Efficiency and/or Circular Economy • Demonstrating technical feasibility/business case of recommended measures for larger scale up across the sector/value chain	Direct support to selected SMEs to pilot innovative green products, processes and business models in multiple countries

CER unit portfolio includes 30+ ongoing projects across four continents

A) Plastics

B) Textiles

C) Eco-industrial parks

D) Blue economy

E) ICT

F) Agro-food

G) Other

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SwitchMed II

Description: SwitchMed II aims at achieving productive, circular and sharing economies in the Mediterranean by changing the way goods and services are consumed and produced so that human development is decoupled from environmental degradation

Duration: 2019-2024

switchmed

Funded by the
European Union

Co-funded by

Generalitat de Catalunya
**Departament d'Acció Climàtica,
Alimentació i Agenda Rural**

Agència de
Residus de
Catalunya

Italian Development
Cooperation
Ministry of Foreign Affairs
and International Cooperation

In partnership with

MedWaves
the UNEP/MAP Regional
Activity Centre for SCP

UN
environment
programme

Mediterranean
Action Plan
Barcelona
Convention

Activities run in 8 countries in the Southern Mediterranean[1]

Tunisia Lebanon

Morocco Jordan

Israel

Palestine

Algeria

Egypt
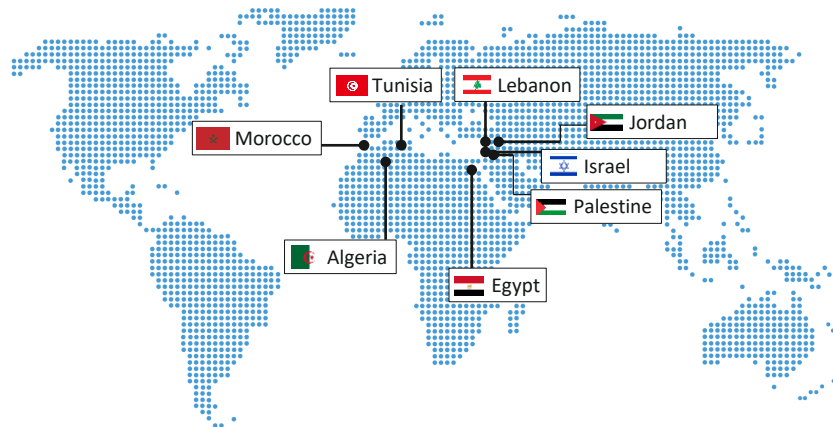
60 industry pilot projects
to demonstrate the business case for resource-efficient and circular business models

Engaging **17** industry sectors in the region

Switch to Circular Economy Value Chains (SWITCH2CE)

Description: The SWITCH2CE programme aims to accelerate the transition to circularity in global value chains of large EU manufacturers for plastics, textiles and electronics, through industrial pilots and create enabling environment through policy, local capacity building and finance opportunities.
Duration: 2020-2025

switch
to Circular Economy
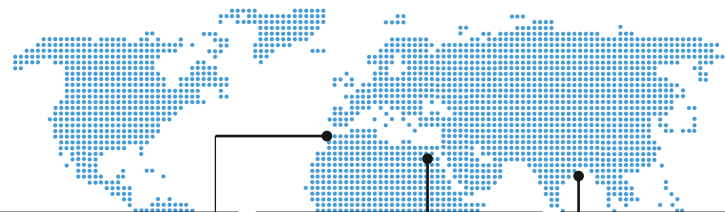Value Chains

Co-funded by
the European Union

Ministry for Foreign
Affairs of Finland

In collaboration with

CIRCLE
ECONOMY
FOUNDATION

CHATHAM
HOUSE

European
Investment Bank

Activities run in 3 countries across 3 value chains, and 4 pilots

Plastic packaging

🇲🇦 Morocco

Organize an efficient and scalable bottle-to-bottle collection and recycling scheme and assess the economic and business case on integration of rPET into preforms with ECCBC.

Electronics & ICT

🇪🇬 Egypt

Establish refurbishment centre(s) to develop the secondary market for electronics and smartphones in Egypt and the region with Orange, Nokia and Cordon Group.

Textiles & Germants

🇧🇩 Bangladesh

1)Build indigenous capacity on collection, sorting and recycling solutions for cotton and polyester with H&M Group, and 2) Scale up traceable recycling of post-industrial textile waste with BESTELLER.

Projected impact:

3,000 green jobs supported

10% reduction in raw material use

15-20% reduction in cumulative CO2 emissions by supported companies

Traceability in SWITCH2CE textile pilots/ Bangladesh

SWITCH to Upstream Circularity pilot (BESTSELLER)

Scale up **traceable textile recycling** with suppliers in Bangladesh, capture and valorise high volumes of post-industrial textile waste.

Activity partners: **BESTSELLER,** Global Fashion Agenda, Reverse Recourses, BGMEA

Local capacities on recycling solutions for cotton and polyester (H&M Group)

Building an ethical and traceable waste collection and recycling supply chain to build capacity and capability of the local supply chain through surfacing, testing, piloting, and scaling the adoption of collection, sorting and recycling solutions for cotton and polyester

Activity partners: **H&M Group**, Intellecap, Garbageman, Circ

EU4Environment

The EU-funded "EU4Environment" Programme, launched in 2019, helps six Eastern Partnership (EaP) countries: Armenia, Azerbaijan, Georgia, the Republic of Moldova, and Ukraine, to preserve their natural capital and increase people's environmental well-being. It supports environment-related actions, demonstrating and unlocking opportunities for greener growth, and setting mechanisms to better manage environmental risks and impacts.

Funded by
the European Union

EU4Environment
Green Economy in Eastern Partner Countries

german
cooperation
DEUTSCHE ZUSAMMENARBEIT

In collaboration with:

Action implemented by:

OECD
BETTER POLICIES FOR BETTER LIVES

UNECE

UN environment programme

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THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

Georgia

Azerbaijan

Ukraine

Moldova

Armenia
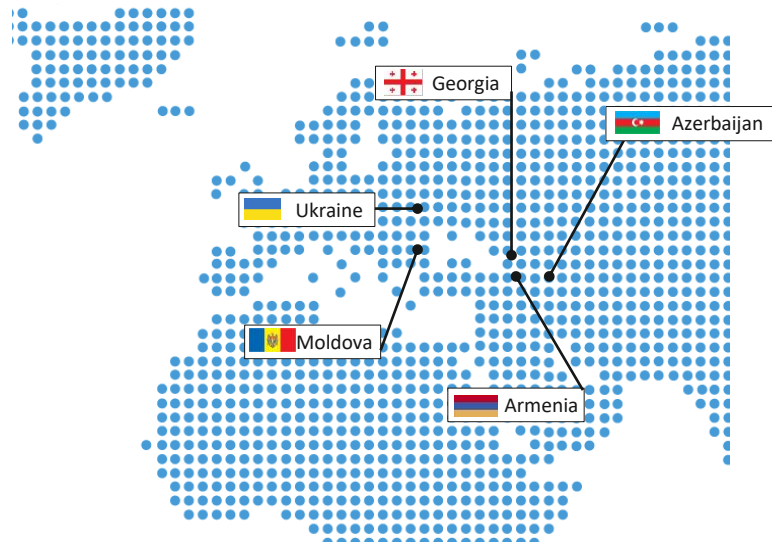
222 393 tons estimated
CO2 reduction by green public investment programme in Georgia

1000+ officials and experts trained

2 million €
potential annual savings of 30 SMEs

FRAMEWORK FOR VISIONS & PATHWAYS

1. Economy-wide scenarios:

These cover the whole Ukraine economy: drawing from international experience and focusing on Ukraine's unique expertise and resources.

2. Key Product Value Chains (KPVCs)

Identifying KPVCs and their key structural gaps, barriers, and linking the supply side with the demand side.

CE in Ukraine

3. Value chain visions:

For each KPVC there are 'grounded visions' which can link general goals to practical ways forward (pathways).

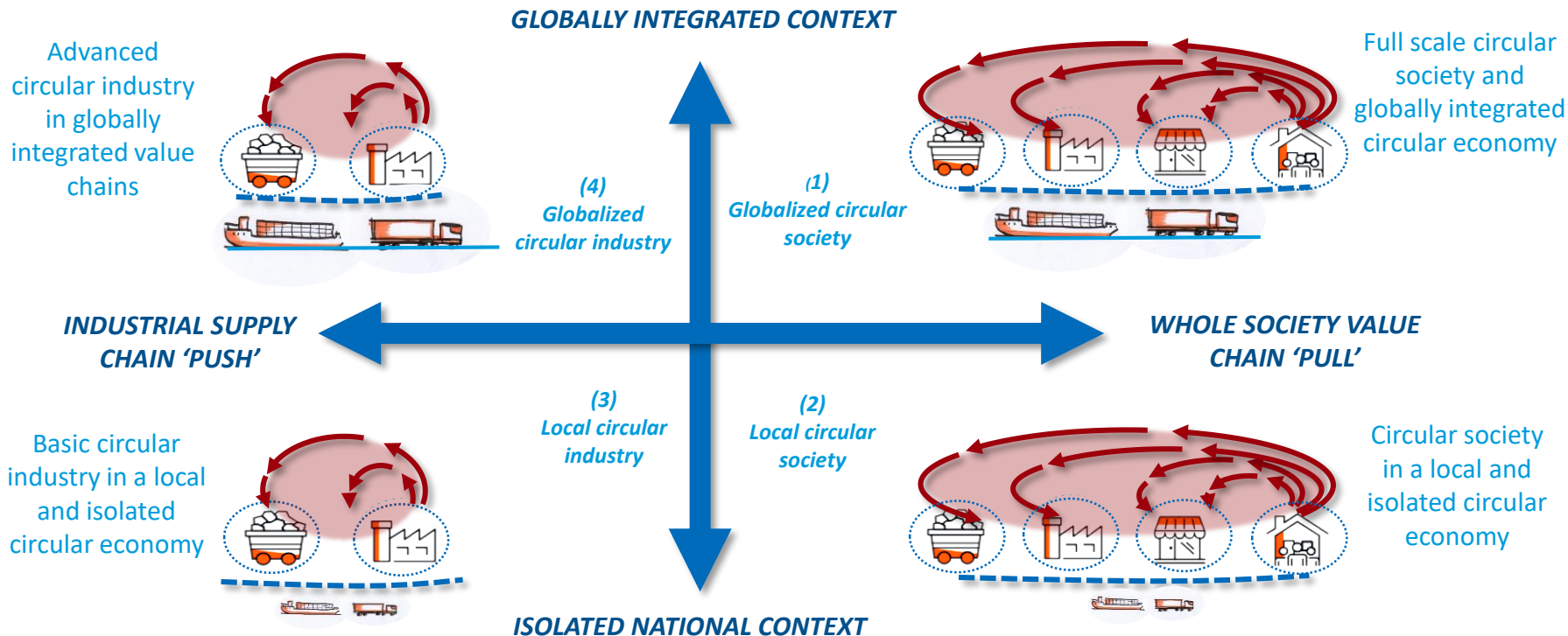**4. Socio-technical enablers**

For each pathway, there is a menu of 3-4 combined actions or 'enablers'.

5. Value chain pathways

Mapped out in each of the 'social systems' (business, policy, and community) and 'technical systems' (technology, industry, and infrastructure).

Scenarios framework

GLOBALLY INTEGRATED CONTEXT

Advanced circular industry in globally integrated value chains

Full scale circular society and globally integrated circular economy

(4) Globalized circular industry

(1) Globalized circular society

INDUSTRIAL SUPPLY CHAIN 'PUSH'

WHOLE SOCIETY VALUE CHAIN 'PULL'

(3) Local circular industry

(2) Local circular society

Basic circular industry in a local and isolated circular economy

Circular society in a local and isolated circular economy

ISOLATED NATIONAL CONTEXT

CIRCULAR ECONOMY & 'SOCIO-TECHNICAL SYSTEMS'

- **Business-finance** – from 'product' to 'service':

- **Policy-governance** – from 'regulation' to 'partnership':

- **Social-community** – from 'consumers' to 'citizens':

- **Design-technology-innovation** – from 'products' to 'value chains':

- **Eco-industry** from 'resource efficiency' to 'circularity':

BUSINESS & FINANCE: Service business models for integrated value constellations

GOVERNANCE: strategic partnerships, intelligent regulation, procurement

URBAN & INFRASTRUCTURE: regenerative cycles of assets & resources

TECHNOLOGY INNOVATION: Product life & circular design principles

ECO-INDUSTRIAL: systems for material loops, cascades,

ECOSYSTEMS & RESOURCES: Regeneration & recirculation, local / regional / global

SOCIAL-COMMUNITY: social livelihoods & enterprises, public awareness & education

Thank you

T.Chernyavskaya@unido.org