



Mitigation Enabling Energy Transition in the MEDiterranean region

# WP4: Promote Efficient Appliances & Develop the Market

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Agência para a Energia

**Challenges and opportunities  
For appliances scrapping  
July 1, 2024**

# WP4.1.1Implementation of Appliances Scrapping Campaigns

## Development of 4 fact sheets for Appliances scrapping

Four countries have been chosen to create fact sheets (Egypt, Lebanon, Jordon, Morocco Tunisia), that outline their current policies and legislation regarding appliance scrapping, as well as their institutional structure for managing this process. These fact sheets will also detail the current status of appliance collection, treatment, and safe disposal practices. Additionally, they will highlight the involvement of the private sector and their capacity for collecting and recycling appliances.



- **WEEE generation volume in Arab region**

*Since 2010, e-waste generation has increased in the Arab States by **61 %** – to 2.8 Mt in 2019.*

*The collection rate of e-waste is **0.1 %** in 2019.*

Valuable materials
13 t of gold
0.47 t rare earth metals
1.05 Mt of iron
96 kt of copper
167 kt of aluminium
0.7 kt of cobalt



**\$3 BILLION**



Regional E-waste Monitor for the Arab States, 2021

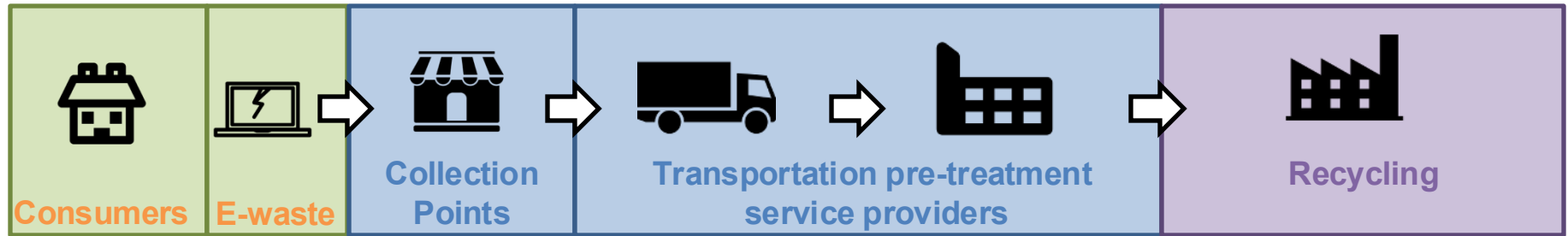
- **WEEE generation volume**

- *Shorter lifespan (Planned obsolescence, cheap/counterfeited equipment)*
- *Rapid changes in technology, new type of equipment's*
- *GDP growth (Urbanization)*
- *Falling prices*
- *Absence of circular economy concept*



Challenge or opportunity?

# E-waste management – an engine for green growth



- Inculcates responsible consumer behaviour that is applicable for other consumer goods as well
- Less waste, less pollution, better health

- Builds collection infrastructure or finances upgrades of existing infrastructure

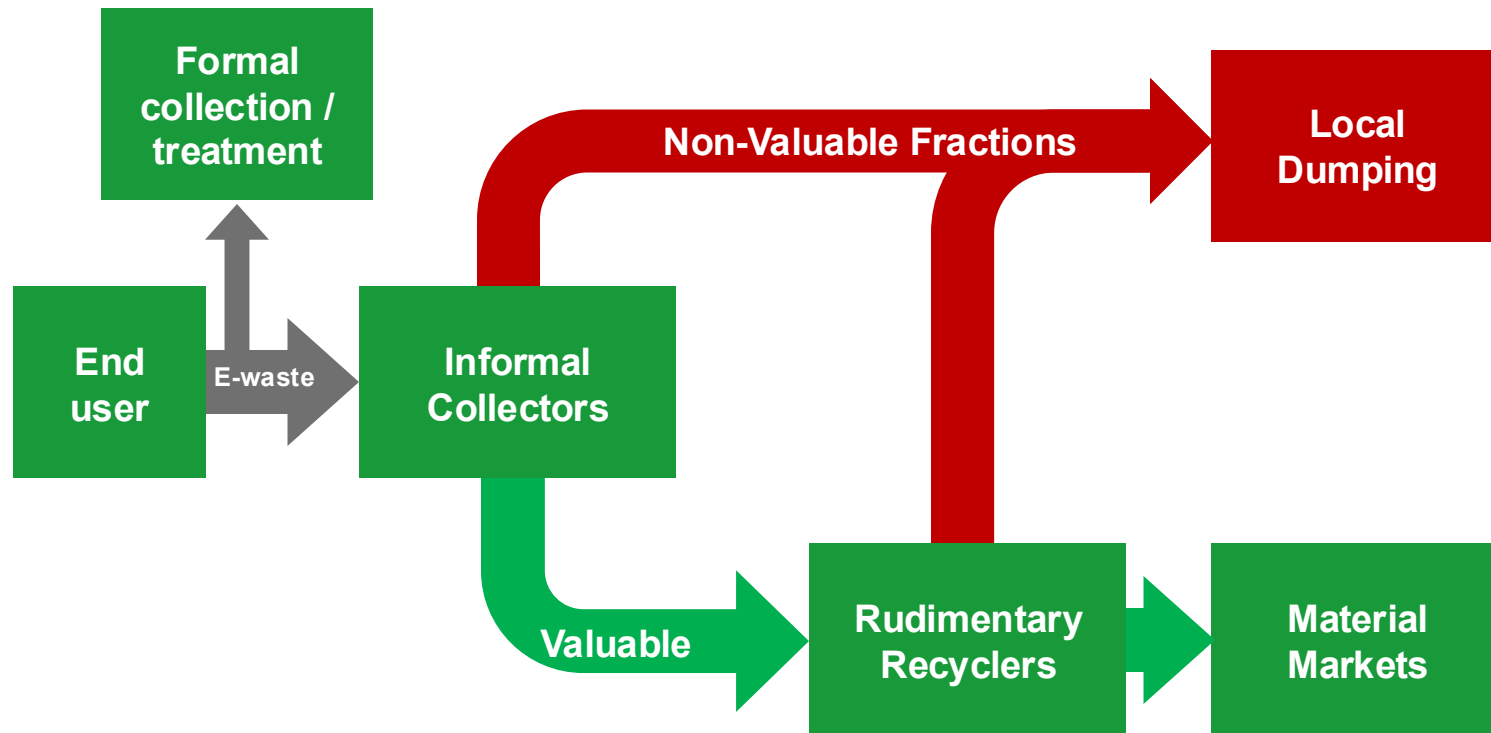
- Drives creation of reverse logistics, transport and storage infrastructure
- Encourages investment in small and medium enterprises
- Requires skilled, semi-skilled and managerial manpower

- Triggers domestic and foreign investment/venture capital in recycling industry



## E-waste management policy and legislation

# The problematic informal sector



Rudimentary recyclers exist in many countries; they focus on valuable fractions in e-waste and dump non-valuable fractions.

Some formal and approved recyclers may already exist but volumes are often low.

# Opportunity of proper e-waste management



**Social gain:** formalised recycling creates

- large number of green jobs at all skill levels
- better social status as entrepreneurs & employees rather than subsistence actors
- better health and lower occupational hazards through proper use of tools and technologies
- higher and more regular incomes for workers who have more job security



**Environmental gain:** air, water and soil pollution avoided results in

- secondary raw material gained (such as gold, copper, steel, aluminum) otherwise lost in landfills or inefficient processes
- avoided remediation costs of contaminated sites
- feedstock to other industries eg. steel, aluminum, plastic and encourages green industrial development



**Economic cost:** developed industrial recycling resulting in

- improves government finances through higher taxes and lower costs for municipal bodies for waste disposal
- attracts investment and technology



# Contact us!



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For any inquiries or comments,  
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This project is funded  
by the European Union