



# Introduction of a management system of waste electrical and electronic equipment (WEEE) in Ukraine as a step towards sustainable production and consumption

## *GREEN MIND*

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# The call for action



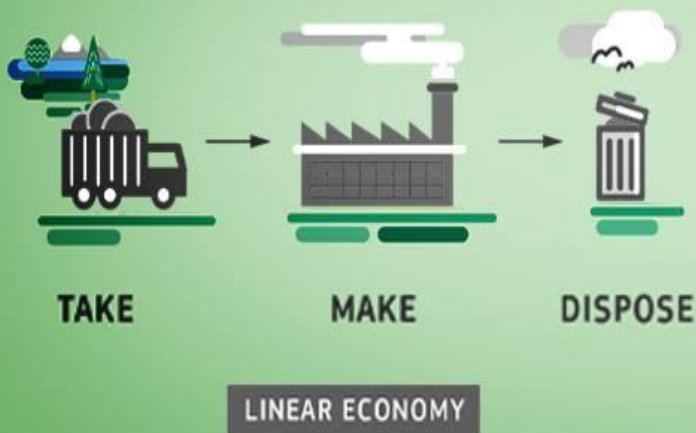
- Natural resources are becoming scarcer
- Population and economic growth increases the consumption of products and volumes of wastes
- Industrial development and urbanization requires more resources
- Increasing waste streams affecting the land, air and water quality
- Cause adverse short and long-term health effects



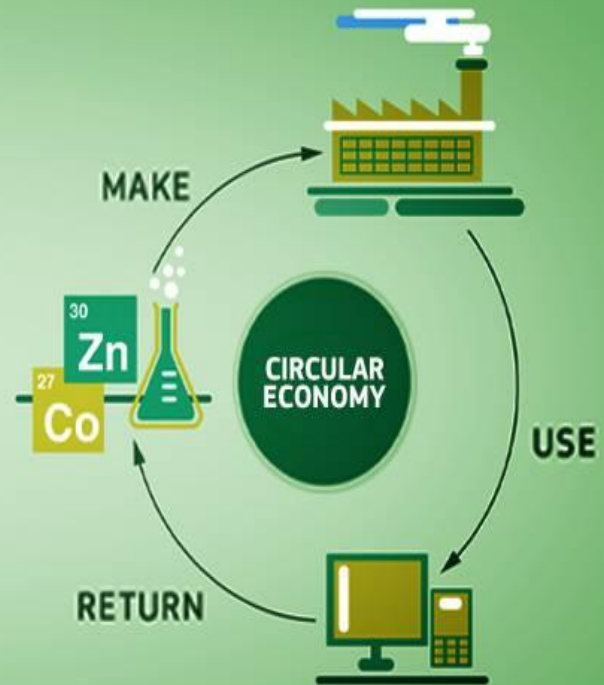
# The call for action



Are we today throwing away  
the resources of tomorrow?



**VS**





# Circular Economy



## What is Circular Economy?



*Circular economy systems keep the added value in products for as long as possible and eliminate waste.*

*They keep resources within the economy when a product has reached the end of its life, so that they can be productively used again and again and hence create further value.*

Source: COM (2014) 398 "Towards a circular economy"

Energy



# Closing the loop – Circular Economy Package



## EU Action Plan for the Circular Economy

- concrete and ambitious programme of action, with measures covering the whole cycle:
  - ✓ production and consumption,
  - ✓ waste management
  - ✓ market for secondary raw materials

## New legislative proposals on waste

- foster sustainable economic growth and generate new jobs
- greater recycling and re-use
- benefits for both the environment and the economy

# Circular Economy is essential for sustainability

## WE SIMPLY CAN'T AFFORD TO WASTE OUR WASTE

The circular economy is an economic model that treats **waste as a valuable resource** – nothing is wasted. It's good for the environment, good for business and good for the economy.



### TODAY'S CHALLENGES...

**475kg** of annual municipal waste generated per person

**~600m tonnes** of recyclable materials thrown away or 'wasted' annually

**48%** of total waste treated is sent to landfill

only **44%** of municipal waste in EU composted or recycled

**~50%** of plastics go to landfill (<25% are recycled)



### TOMORROW'S OPPORTUNITIES...

**50%** less food waste

**100%** ban on landfilling separated waste

maximum **10%** landfilling of municipal waste

**65%** of municipal waste recycled

**3%** boost in GDP from industrial material savings

**...AND ALL WITHIN OUR LIFETIME!**

### CLOSING THE LOOP...

The European Union's circular economy package closes the loop in production, consumption, waste and raw materials.

*Because it's time to leave behind the linear – take, make and throw away – economy in favour of the circular – make, use, reuse – economy.*



# Sustainable management



## From Waste to Resources

Better waste management - clear targets and tools

- ✓ EU target for recycling municipal waste of 65% by 2030
- ✓ EU target for recycling packaging waste of 75% by 2030
- ✓ Material-specific targets for different packaging materials
- ✓ A binding target of max 10 % municipal waste landfilling by 2030
- ✓ General requirements for the operation of Extended Producer Responsibility (EPR) schemes



- Better product design
- Products easily recycled or reused
- Innovative industrial processes

- ✓ Energy savings
- ✓ Reparability,
- ✓ upgradability,
- ✓ durability and
- ✓ recyclability of products

### Consumers:

- know the footprint of products
- choose sustainable products and services



# Who will benefit?



## BUSINESS

- new business opportunities - new production technologies and materials
- resource efficient processes and financial savings

## CONSUMERS

- improved waste management rules and value generation from waste
- better product design - products more durable and efficient

## THE ENVIRONMENT

- smarter use of resources
- reduced climate change for current and future generations





# Why WEEE and Batteries



- WEEE and waste batteries: important waste streams (like end of life vehicles, packaging, mining waste, construction and demolition waste...) – specific administration & management
- The amount of WEEE generated in the World is growing rapidly - in EU27 between 8.3 and 9.1 mln tonnes (2005)
- The content of hazardous components in electrical and electronic equipment (EEE) and batteries – cause high risk for environment and human health
- Composition of WEEE and waste batteries- Fe, non Fe metals, big % of valuable materials



# Why WEEE management system is essential for Ukraine



- Lack of relevant legal base
- Absence of well established system to produce materials or energy from waste products
- Common practice to dispose waste in landfills or illegal dump sites
- Not introduced integrated waste management systems due to associated high costs
- Need to improve sustainable consumer behavior through repair, re-use and recycling



**Project Purpose:** to bring gradually the Ukrainian waste management system closer to EU by introducing effective and sustainable management systems

**Indicators:**

- MS Expert support for Ukrainian institutions and other stakeholders for facilitating the implementation of the AA in the Environment Sector
- Relevant Ukrainian legislation brought closer to the EU legislation
- A strategy how to introduce a management system for WEEE and waste batteries



# Expected results



- Introduction of a management system of WEEE and batteries in Ukraine
- Administrative, technical and economic conditions for WEEE and batteries collection and recycling in Ukraine improved
- Clear operational requirements regarding WEEE and batteries including labeling
- Collection and reprocessing targets for WEEE and batteries defined
- Best suitable technical and financing schemes identified



# Expected results



- Reducing the amount of WEEE and batteries going for disposal
- Increased efficiency of material resources management
- Effective collaboration between government, stakeholders, municipalities and civil society
- Closing the loop with the effective product and waste policies
- Keeping potentially hazardous substances out of biosphere
- Information campaigns for awareness rising on waste prevention, separate collection and environmentally sound treatment



# Any Questions





This project is funded by the European Union



# *Thank you for your attention*

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