

## LIPOR

#### Intermunicipal Waste Management of Greater Porto

Fernando Leite | CEO





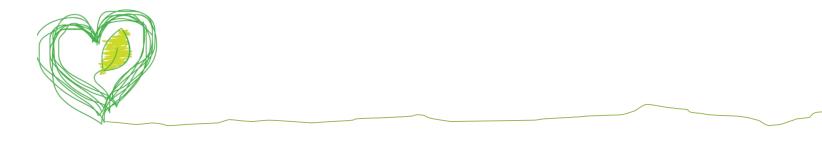
#### LIPOR Vision in the Path to Circular Economy

o Circular business model and examples of circular practices

#### Waste and Circular Economy

- The role of the waste sector and its importance in circular economy
- Transition from linear economy to circular economy
- The Case Study Smart Waste Portugal
  - The challenge turned into opportunity





## LIPOR Vision in the Path to Circular Economy





**BEING PART OF A WHOLE.** 

somslipor







**BEING PART OF A WHOLE.** 

somoslipor

LIPOR is People LIPOR is Partners LIPOR is Recovery LIPOR is Innovation

LIPOR is Processes LIPOR is Products and Services LIPOR is Resources

LIPOR wants to be a **New Trend** of Management!









#### LIPOR

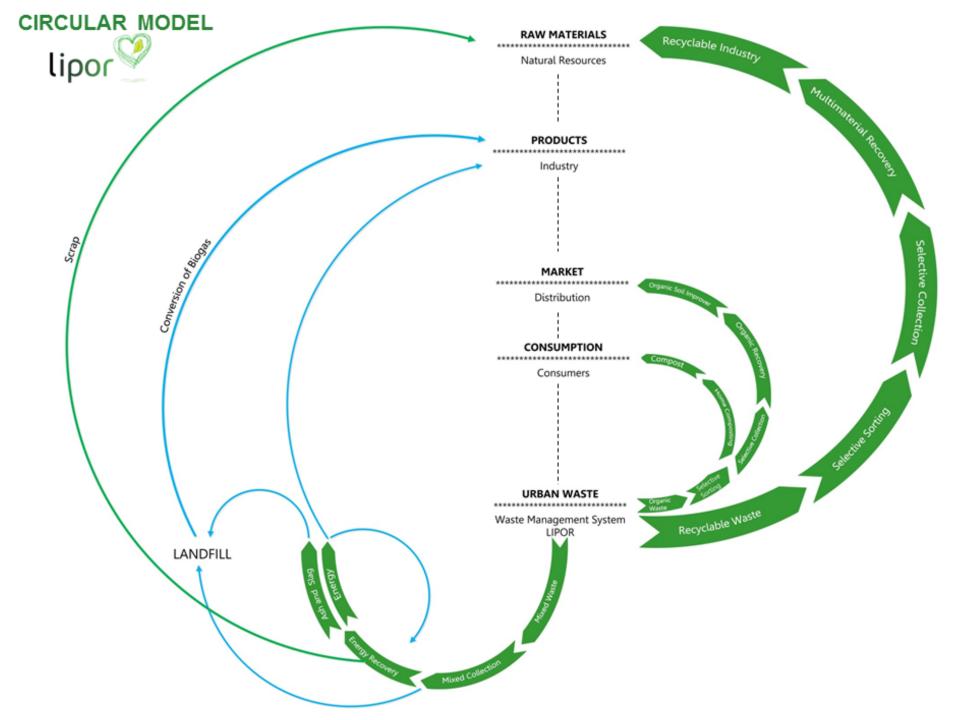
**Baguim do Monte Unit** 

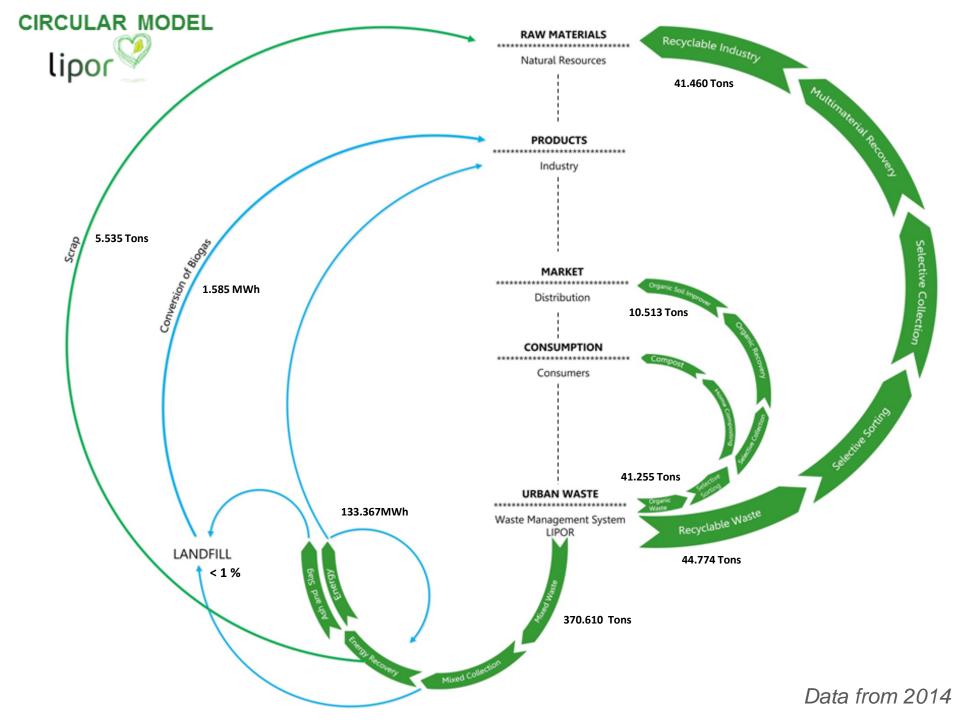
(Sorting Plant, Composting Plant, Biogas Plant, Fotovoltaic Plant, Parque Aventura, Administrative Services) LIPOR II

Maia Unit (Energy Recovery Plant and Landfill)

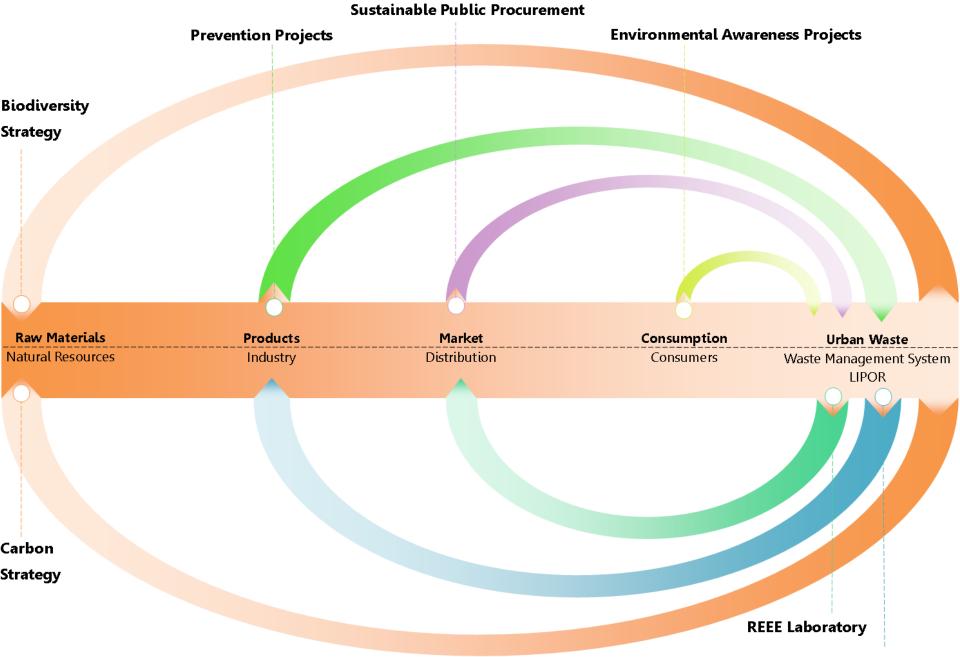
## Waste as a **RESOURCE**







#### **CIRCULAR PRACTICES**

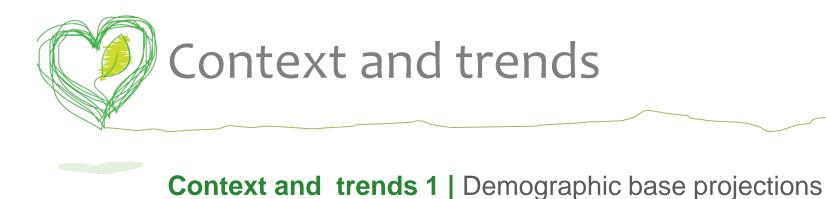


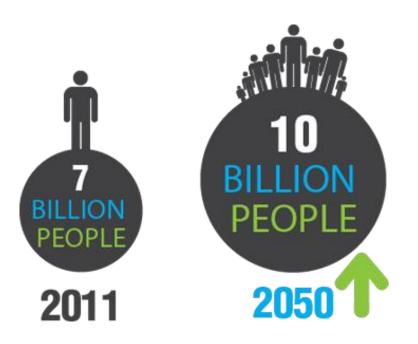
Used Cooking Oils Project



# How does the **Waste Sector** can contribute to the Circular Economy?





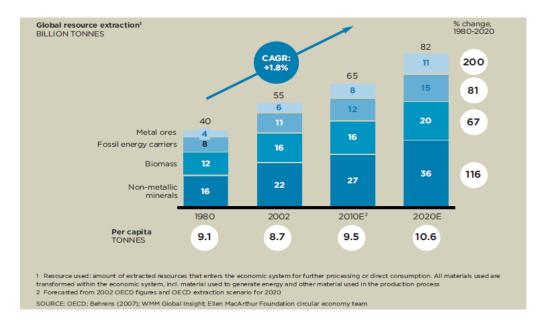


By 2050, the number of inhabitants of the planet is expected to reach 9 billion, with more than 5 billion to belong to the middle class (Kharas, 2010)





#### Context and trends 2 | Extration of Natural Resources

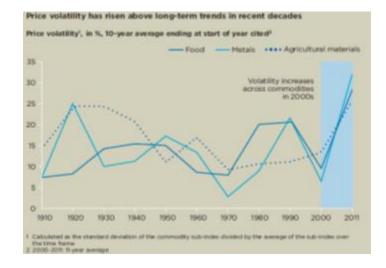


In 2010 it was extracted 65 billion tons of raw materials. In the current system, 80% of these materials have an end of life as waste. For 2020 is expected to increase to 82 billion (Ellen MacArthur Foundation, 2013)





#### Context and trends 3 | Price Volatility

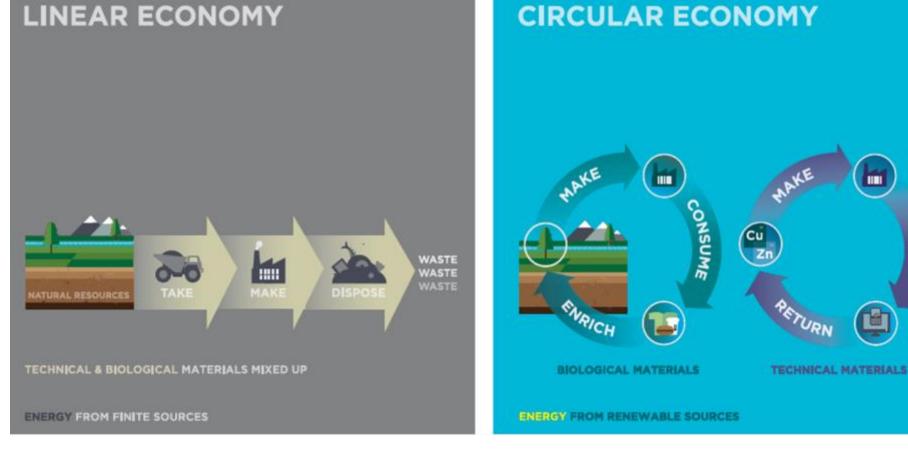


The levels of **price volatility** (for example, food, metals and agricultural materials) grew strongly in the first decade on 21 century, comparing with any other decade from 20 century (Ellen MacArthur Foundation, 2013)





## Transition from linear to circular





Source: Ellen MacArthur Foundation

SE



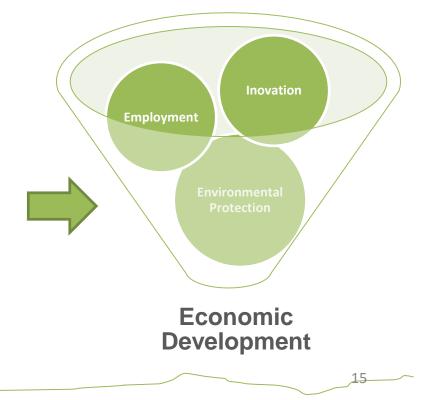
## Transition from linear to circular

#### LINEAR ECONOMY

Based on a traditional chain is to "extract – produce - waste" there is a potential loss of economic and environmental value.

#### **CIRCULAR ECONOMY**

Aspires to a greater efficiency in terms of production processes to full the use of natural resources by minimizing waste.



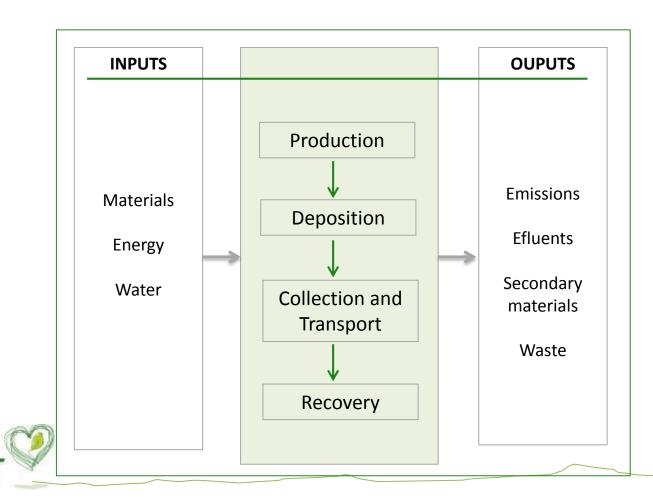




lipo

## Waste and Circular Economy

#### Value Chain







## **Rethink** Processes

## **Businesses** Tools

## **Power** of Citizens

## **Opportunity** Lipor

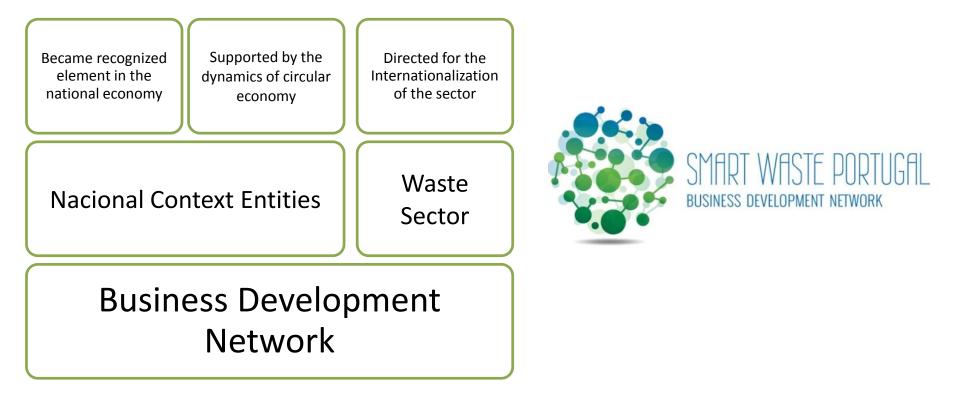


# The Case Study – Smart Waste Portugal





## Challenge into Opportunity







## Challenge into Opportunity

Estudo sobre a Relevância e o Impacto do "Setor" dos Resíduos em Portugal na Perspetiva de uma Economia Circular Study on the relevance and impact of the waste sector in Portugal by the perspective of circular economy

Hermano Rodrigues | 14.09.2015 | SWP (Maia)





### **Smart Waste Portugal**

Stimulating cooperation actions between entities operating in the waste area, through a collaborative approach, this platform aims to create green jobs and promotes the entrepreneurship.





## Thank for your attention!

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