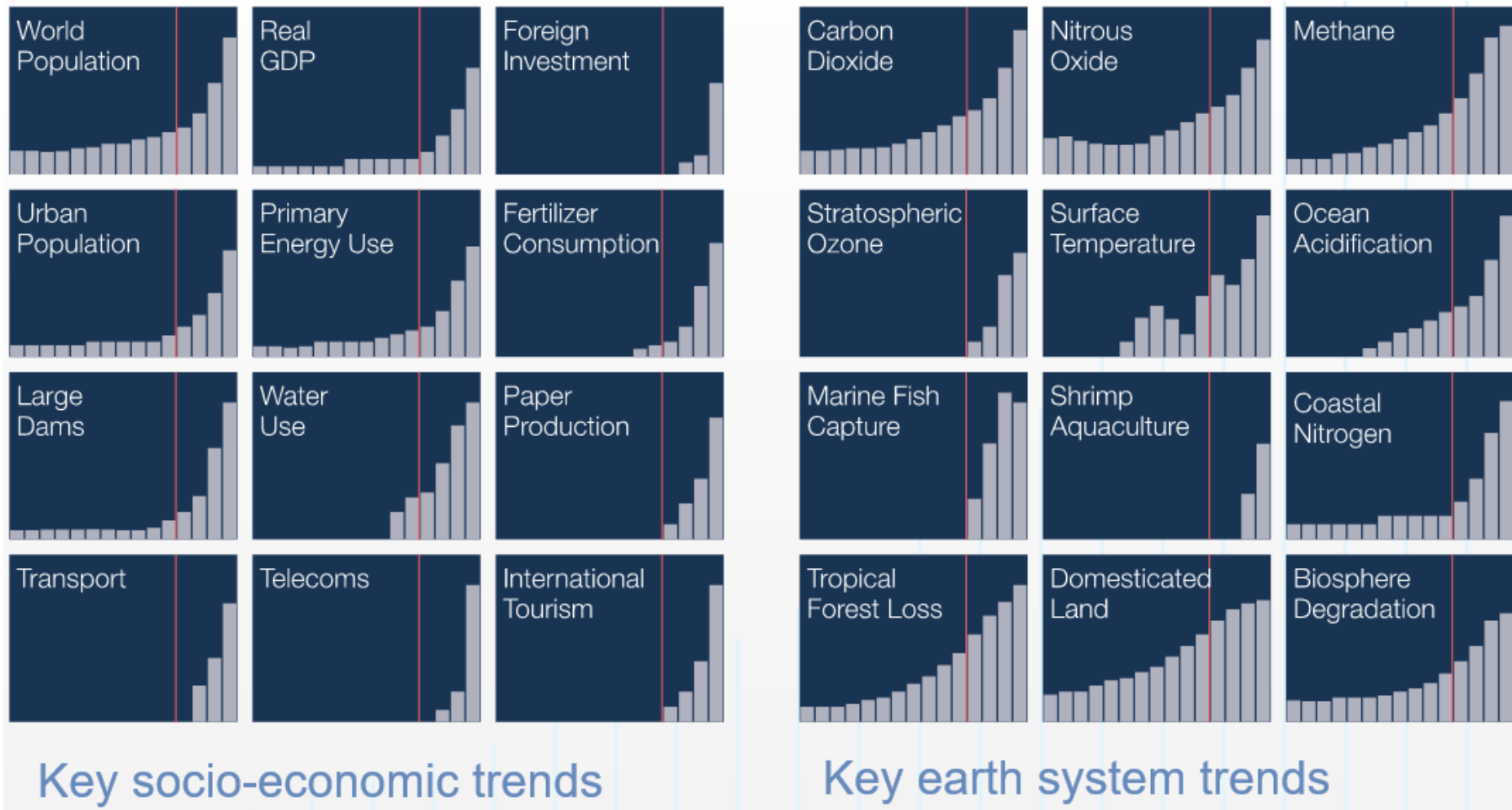


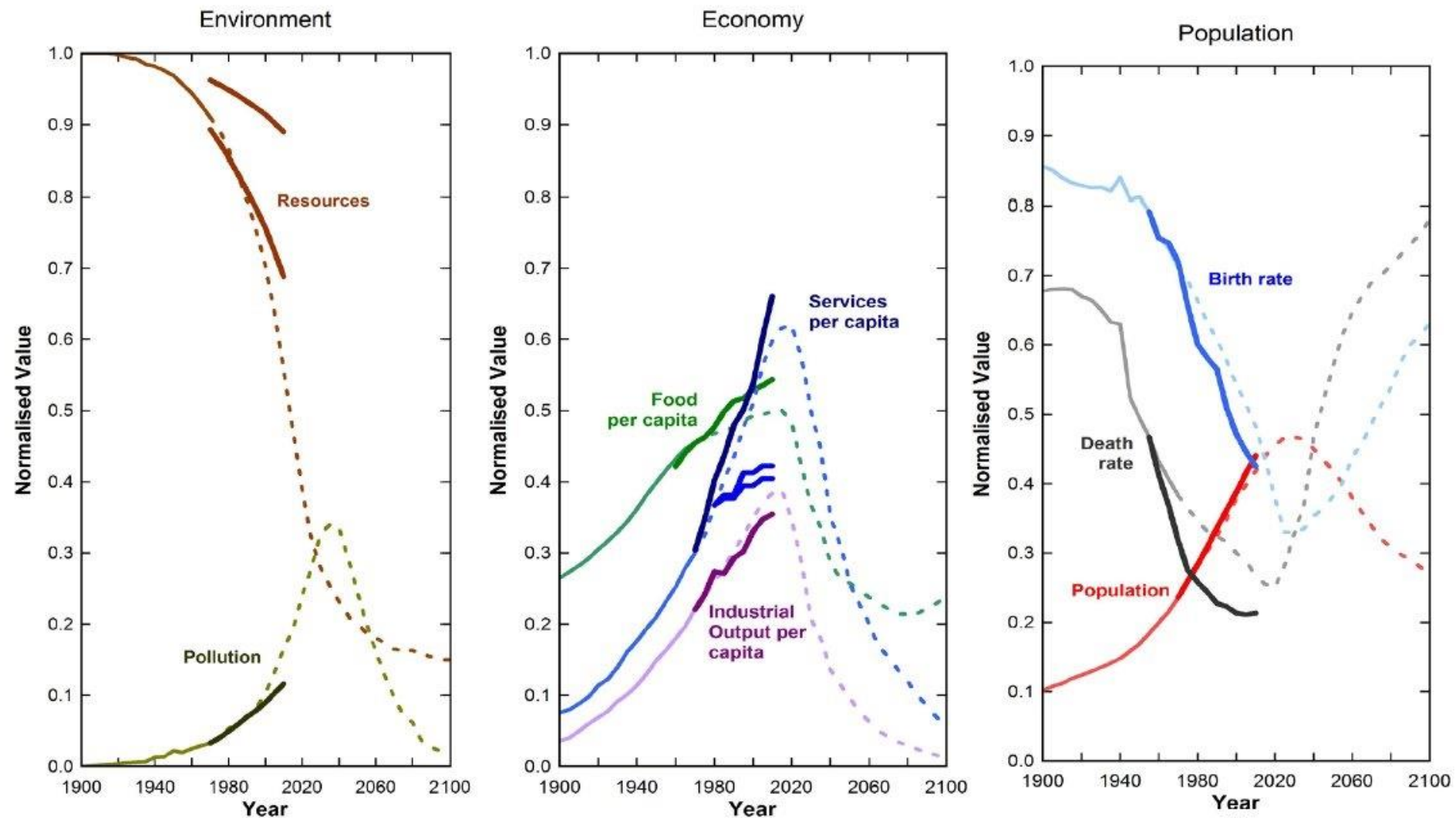
Image credits: Plasticus Maritimus

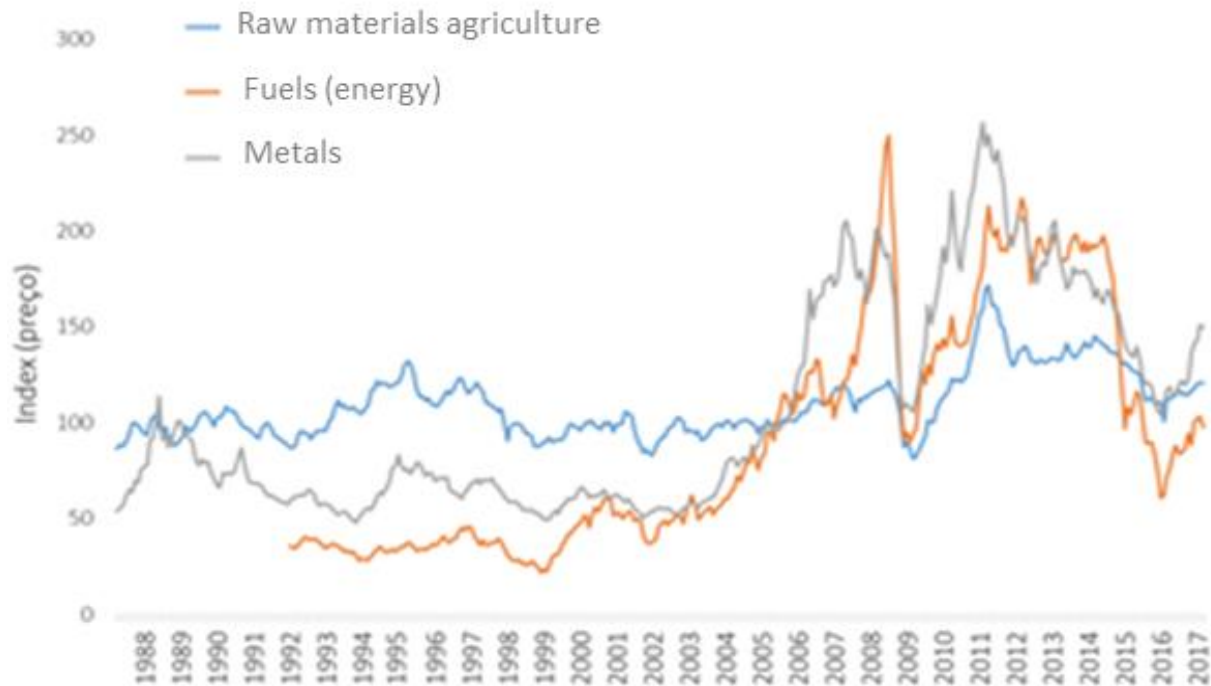
Why we need a circular economy (for Portugal) ?



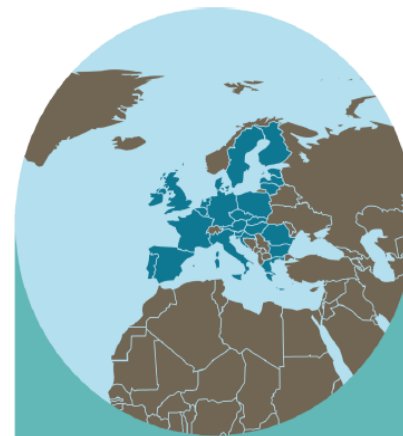
Source: Steffen, W., W. Broadgate, L. Deutsch, O. Gaffney and C. Ludwig (2015). The Trajectory of the Anthropocene: the Great Acceleration

**SINCE 2000 GLOBAL MATERIAL EFFICIENCY HAS DROPPED AND MATERIAL INTENSITY HAS RISEN
WE NEED MORE MATERIALS TO GENERATE THE SAME AMOUNT OF WEALTH**





European Union (EU-28)



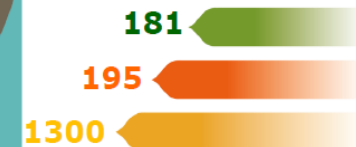
**Total trade
EU-28 to ROW**
In 2004: 455 million tonnes
In 2014: 640 million tonnes

Source: <http://ec.europa.eu/eurostat/data/database>

EU-28 exports (2014)



EU-28 imports (2014)



- Biomass
- Manufactures (finished manufactured products)
- Fuels and mining products (fossil energy, metal ores and non-metallic minerals)

Rest of the world (ROW)



**Total trade
ROW to EU-28**

In 2004: 1664 million tonnes
In 2014: 1534 million tonnes



CLIMATE

DECARBONIZATION

SOIL

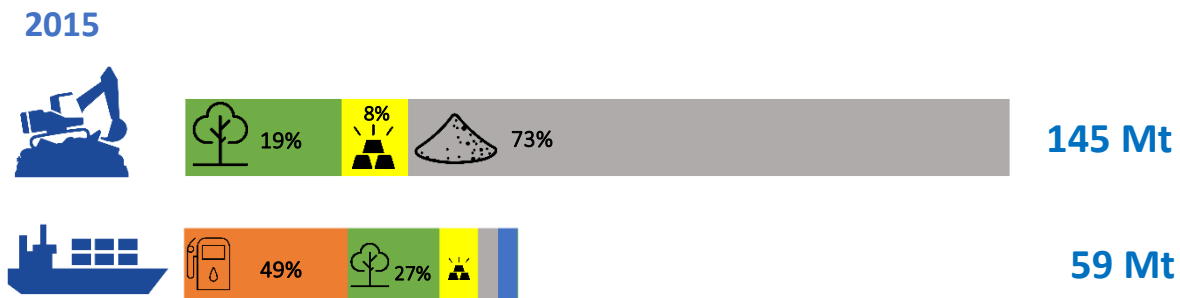
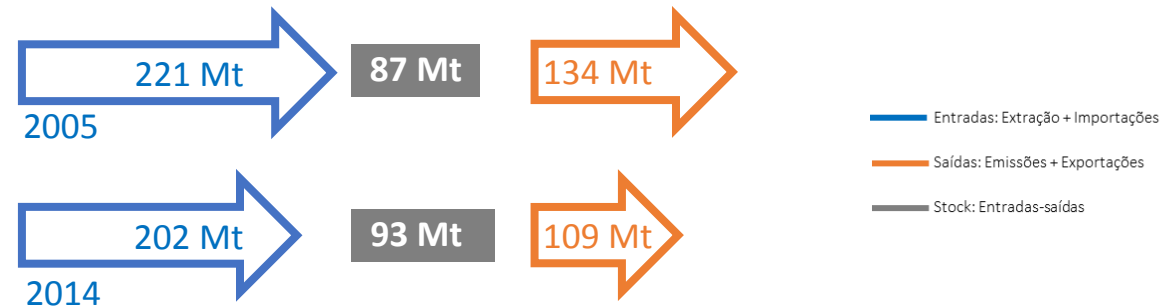
WATER

ENERGY

MATERIALS

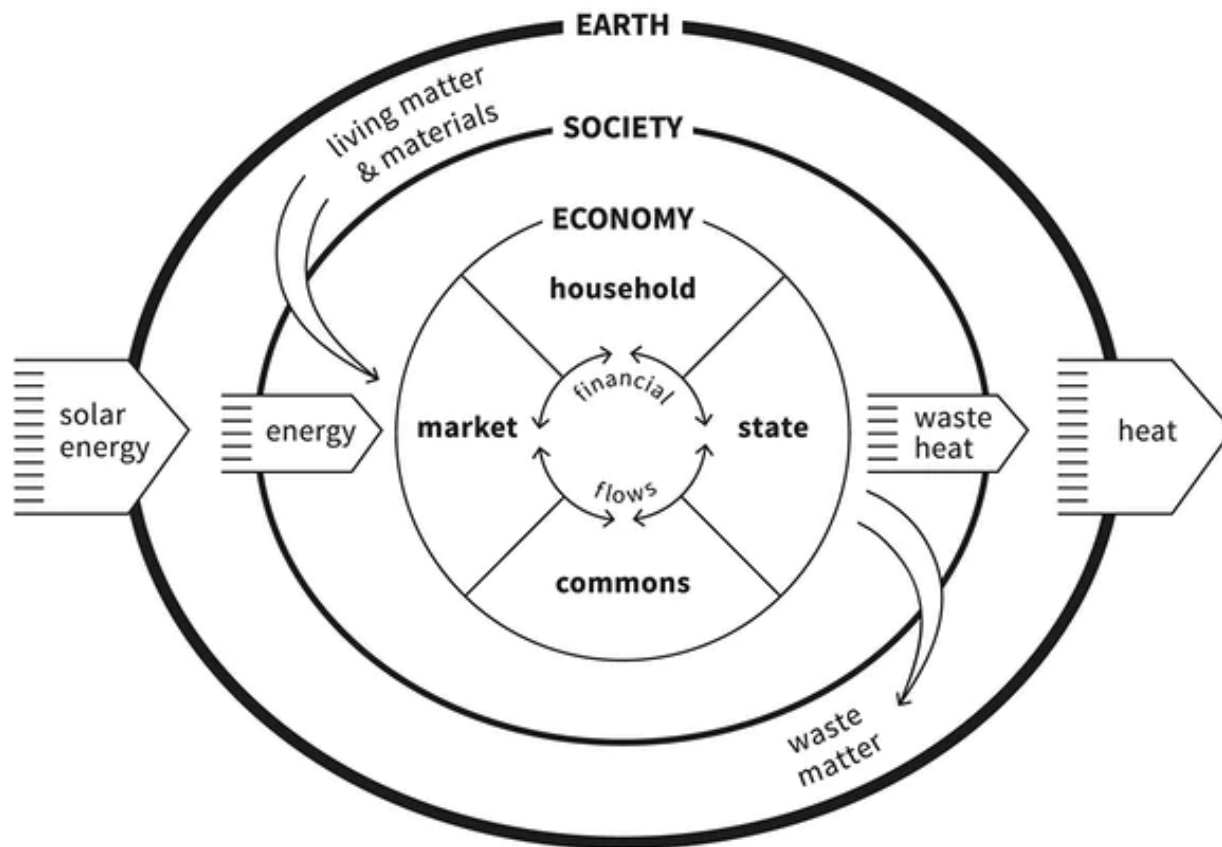
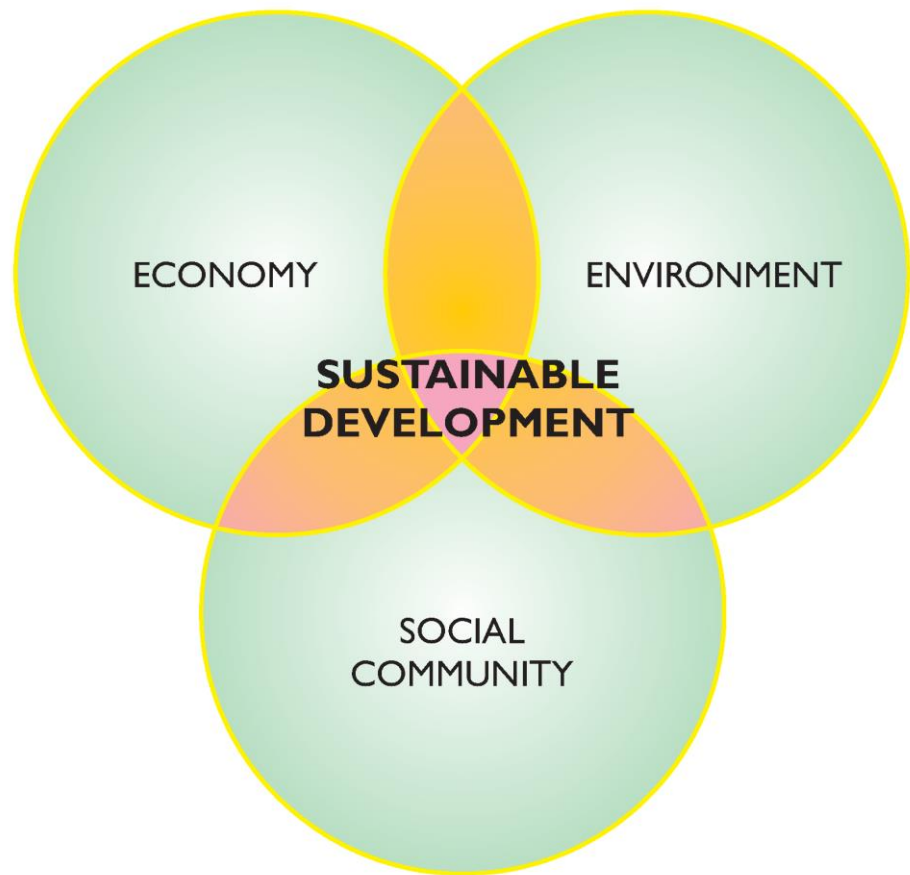
DECOUPLING

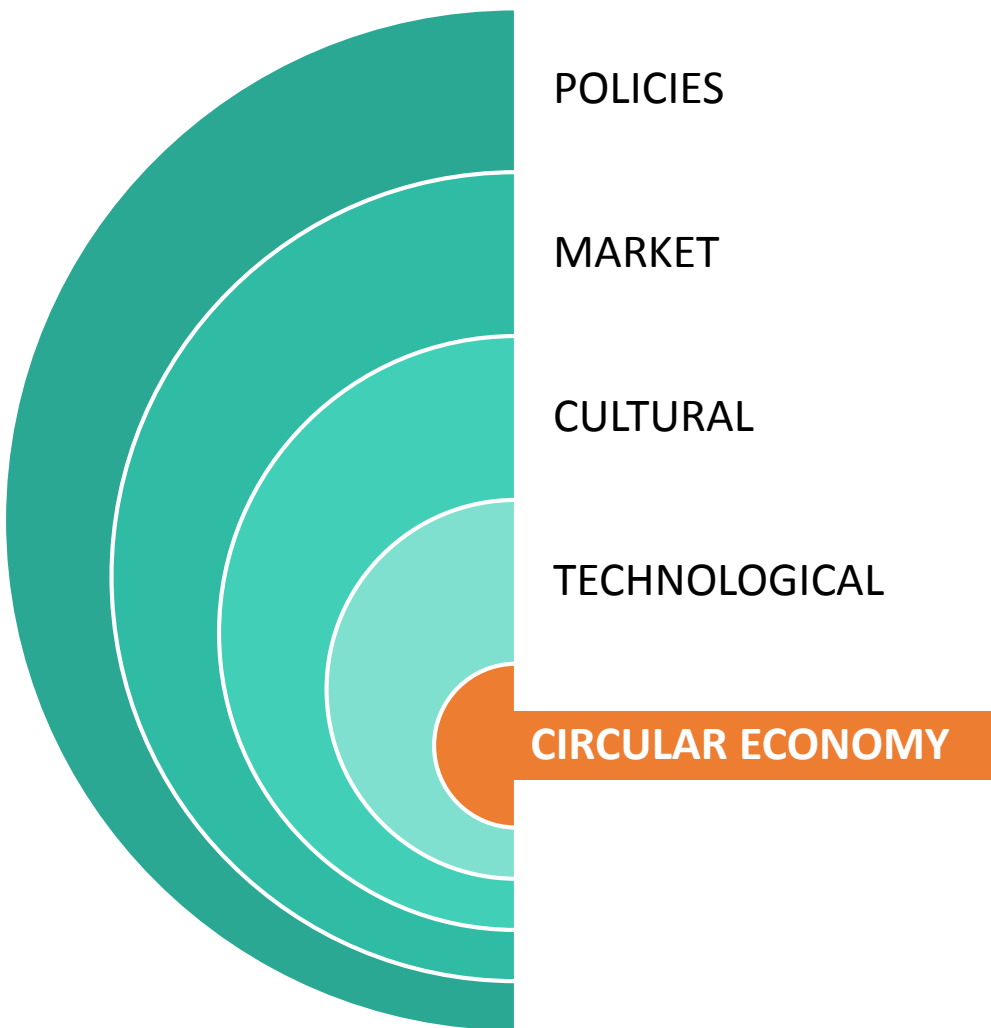
RESOURCES



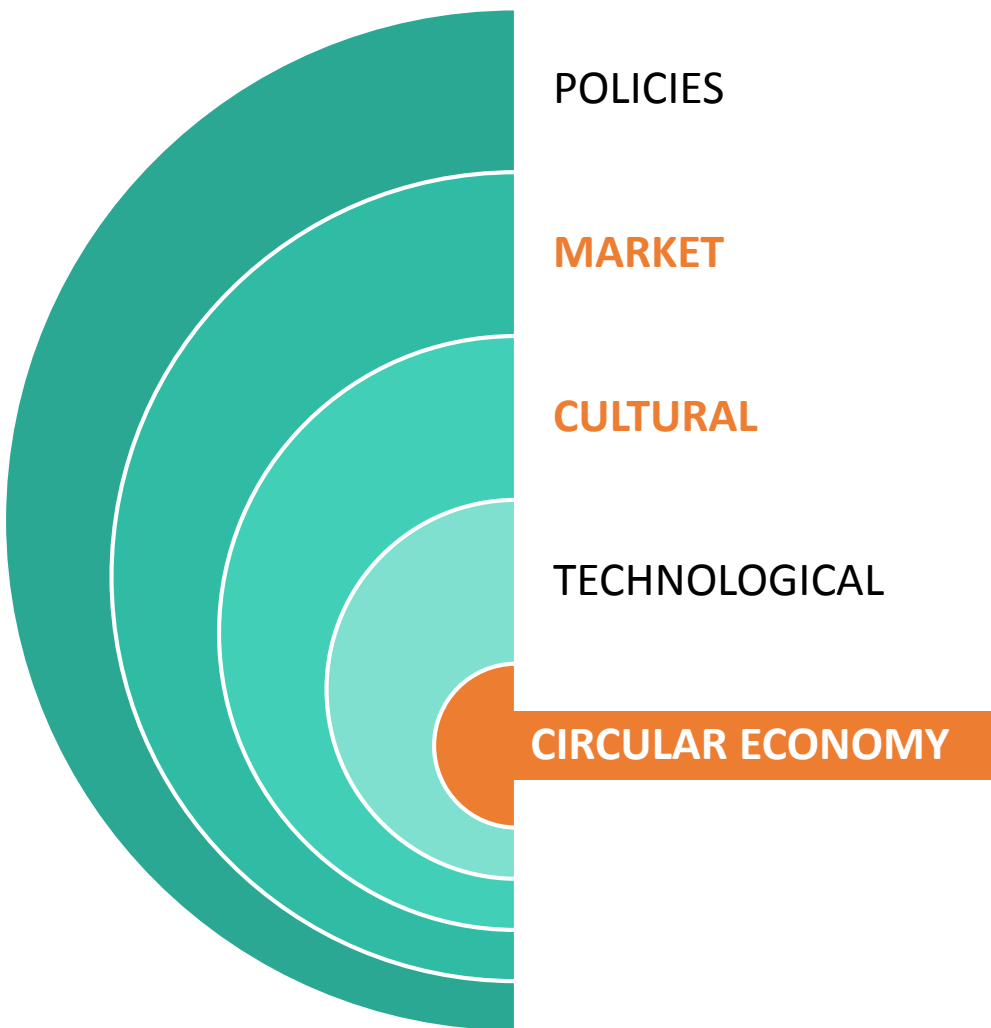
- PT | slow economic metabolism = **stocks resources**
- PT | construction: **73% of materials extracted, 1/3 of the waste**
- PT | **lagging in material efficiency and productivity** (PT:€1,1 / kg materials | €2 /kg EU average)
- PT | **energy dependent on foreign supply** (fossil fuels)
- PT | GHG emissions decreasing since 2005, but **energy and carbon intensity of the economy still above EU average**







- **Barriers are** embedded in each other, meaning they are **interrelated**;
- Action demands a **systemic shift**: coordination needed;
- Needs an exploration on “**root**” **causes** in order to deliver targeted interventions → chain reaction

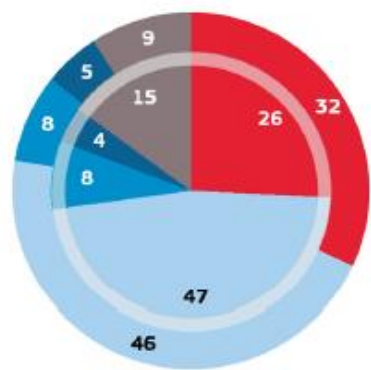


Cultural	Technological	Market	Regulatory
Company culture	Circular design	High upfront investment costs	Obstructing laws and regulations
Willingness to collaborate in the value chain	Ability to deliver high quality remanufactured products	Limited funding for circular business models	Limited circular procurement
Consumer interest and awareness	Lack of data, e. g. on impacts	Low virgin material prices	Lacking global consensus
Operating in a linear system	Too few large scale pilot projects	Standardisation	

■ Most pressing barriers
 ■ Intermediate pressing barriers
 ■ Least pressing barriers

SME'S main CE focus: recycling and energy efficiency

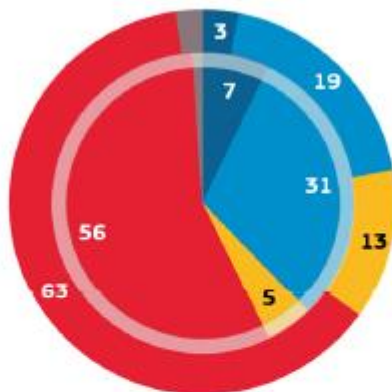
Q2a Over the last 3 years, what percentage of your company's turnover have you invested on average per year to undertake these activities? (%)



● 0%
● Between 1% and 5%
● Between 6% and 10%
● 11% or more
● Don't know

EU28 Outer pie PT Inner pie

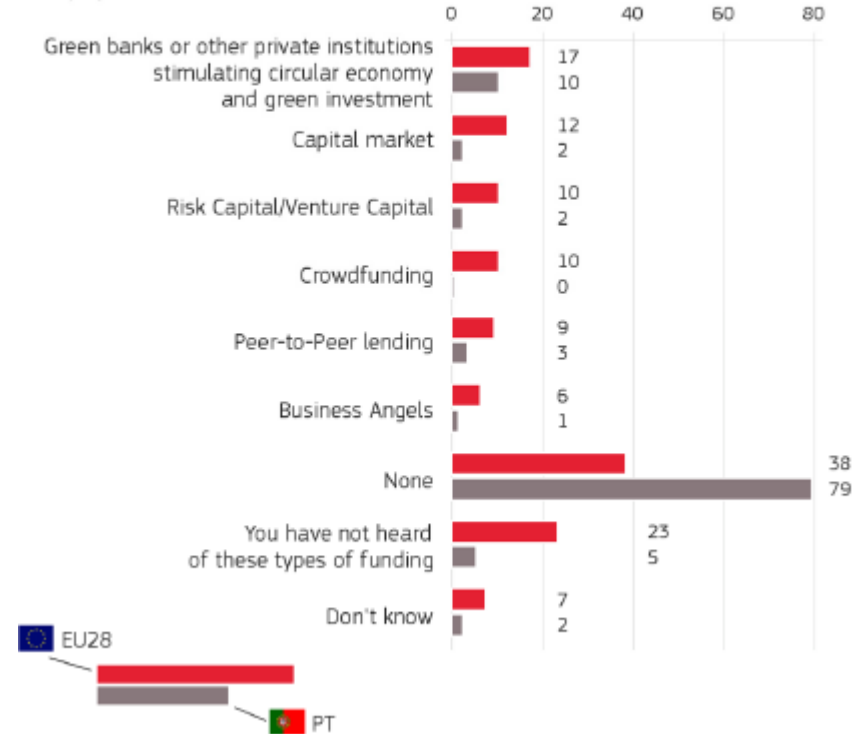
Q7 Are you aware of any financial incentives through government programmes supporting activities related to the circular economy? (%)



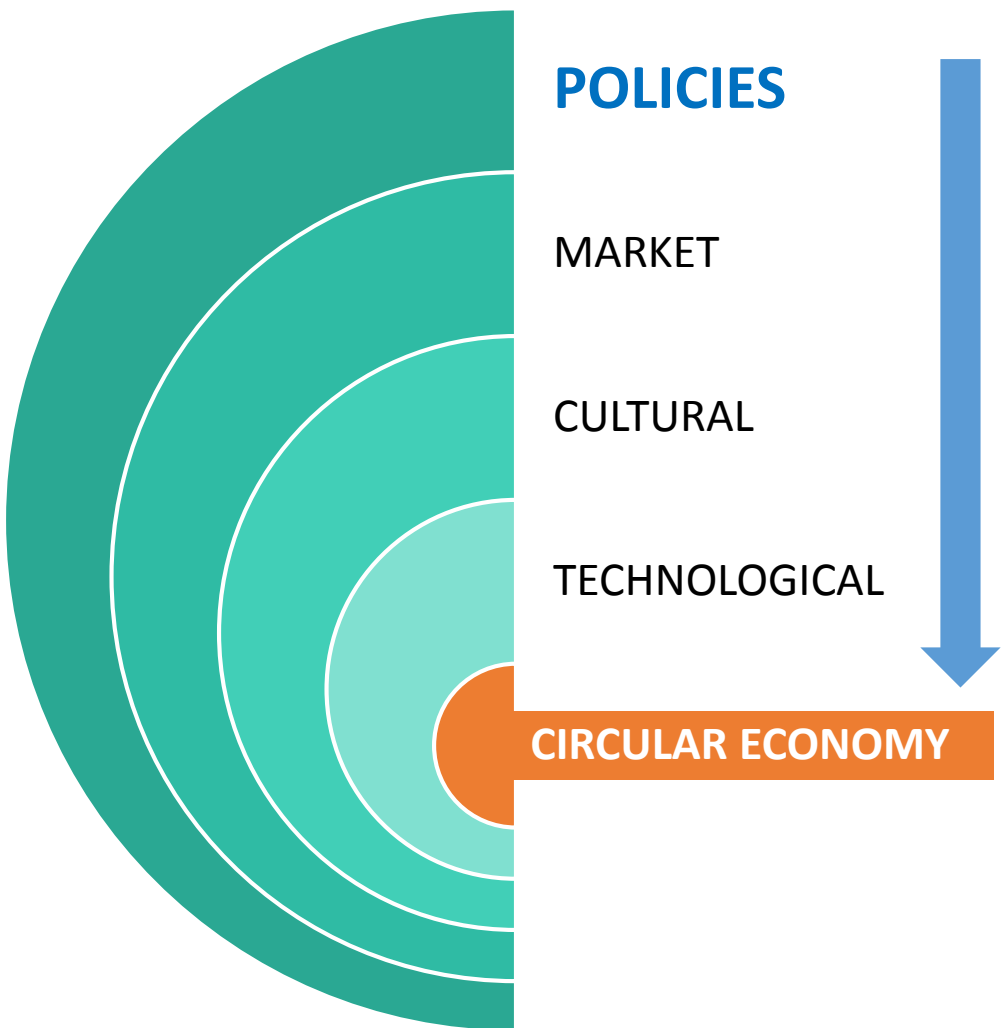
● Yes, and I have used them
● Yes, but I have not used them
● Yes, but I do not know exactly what they are
● No
● Don't know

EU28 Outer pie PT Inner pie

Q9 And which of the following 'alternative' sources of financing are available to your company? Please indicate all sources your company has access to. (MULTIPLE ANSWERS POSSIBLE) (%)



Self financed: 78% (PT)

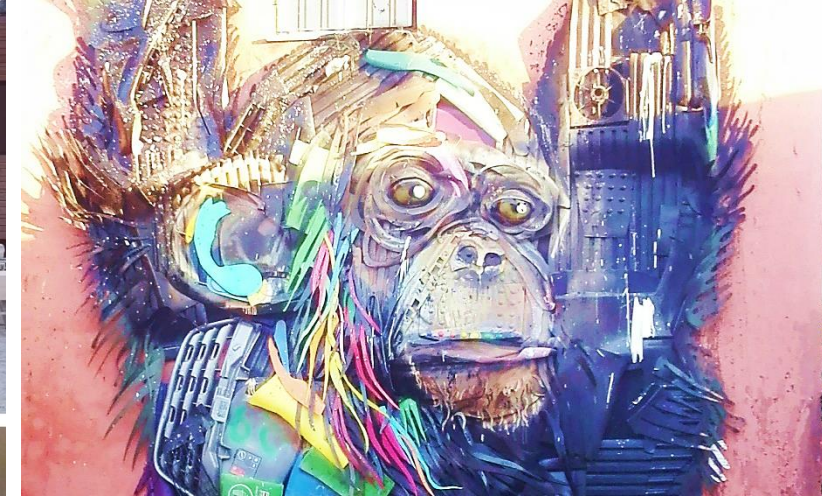


- Government: key player for change, because of broader influence throughout the context;
- Interest: resource challenges, lower GHG emissions, waste management;
- Direct influence across the board: regulatory, market, voluntary instruments;
- **However - most policies currently enabled are designed based on an unsustainable economic paradigm (linear);**

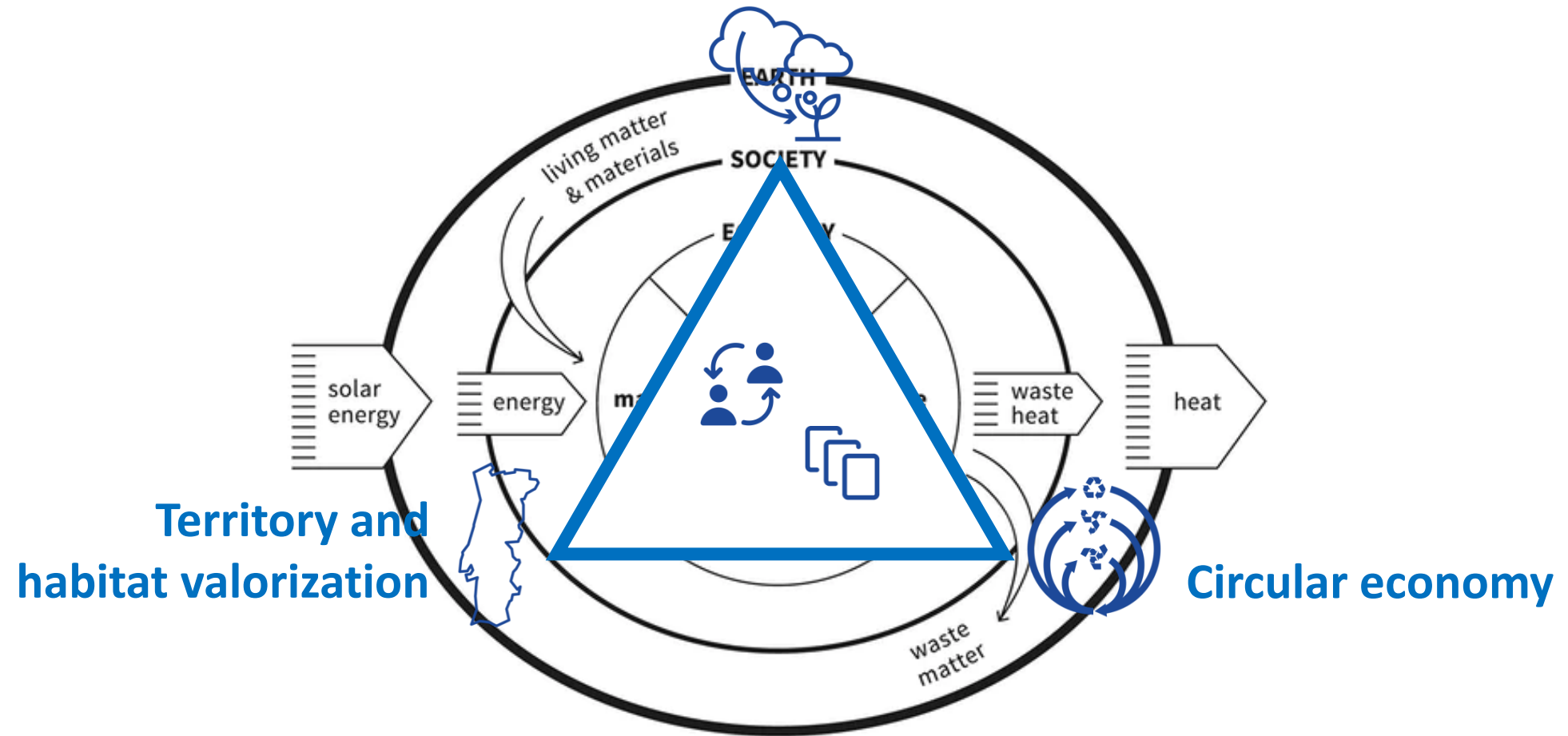


LOW HANGING FRUITS

- Raise awareness & business case;
- Financing upfront investment;
- Designing out or address regulatory barriers and/or gaps;



Low-carbon





RNC2050
Carbon Neutrality Roadmap



**TERRITÓRIO
PORTUGAL.**
Onde o país encontra o futuro

eco.nomia



Missão: dinamizar a economia circular



Raise awareness & business case

- **EXAMPLES:** database with national and international companies, products, projects that incorporate CE principles (~170 cases and growing);
- **OPPORTUNITIES:** database on national and international financing calls focusing in CE (e.g. Portugal2020, Horizon2020), awards, competitions, financial products, etc.;
- **RESOURCES:** database of national and international strategies, good practices, white papers, related to CE;
- **EVENTS:** schedule of upcoming relevant events on CE, focusing on national level;



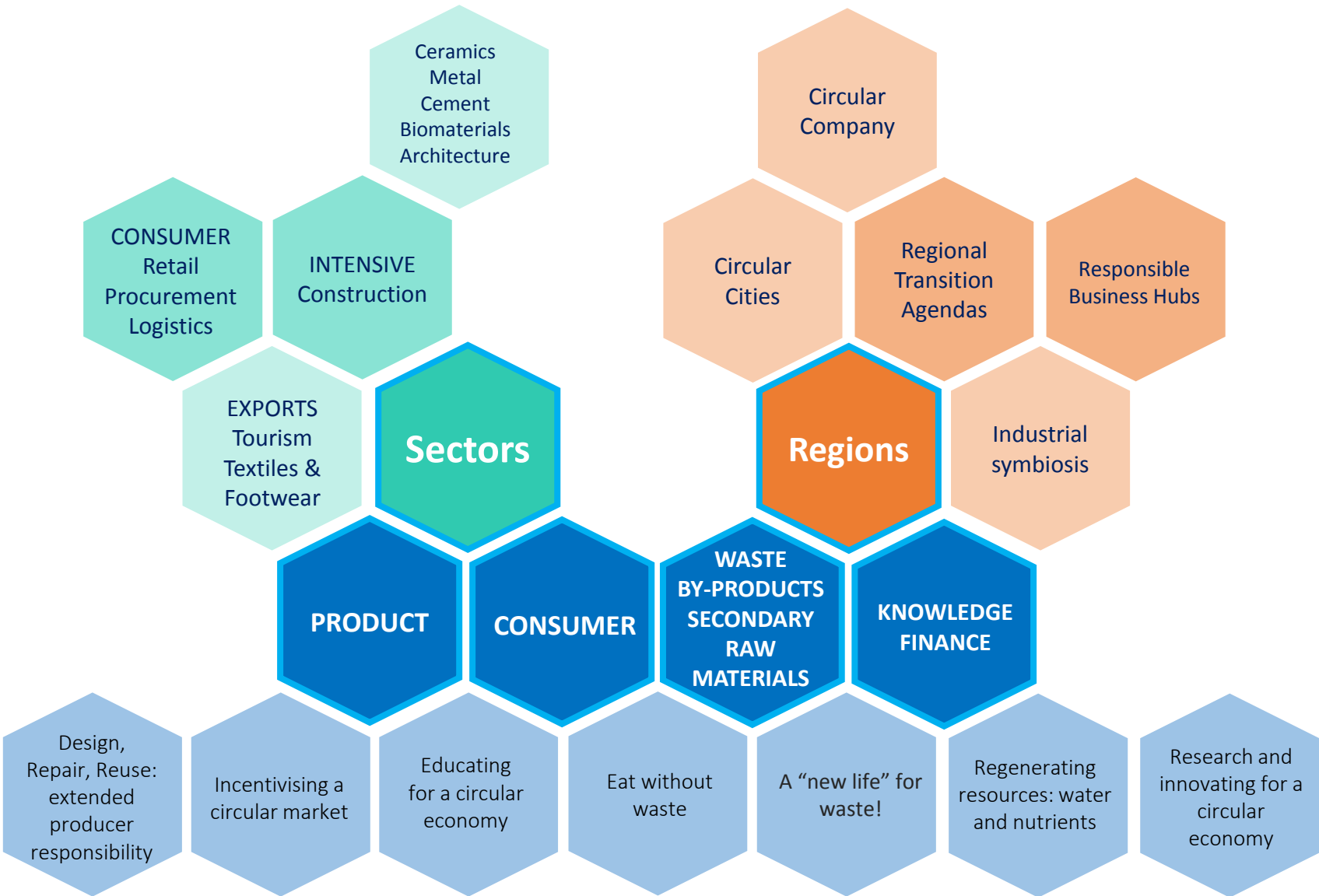
Raise awareness & business case

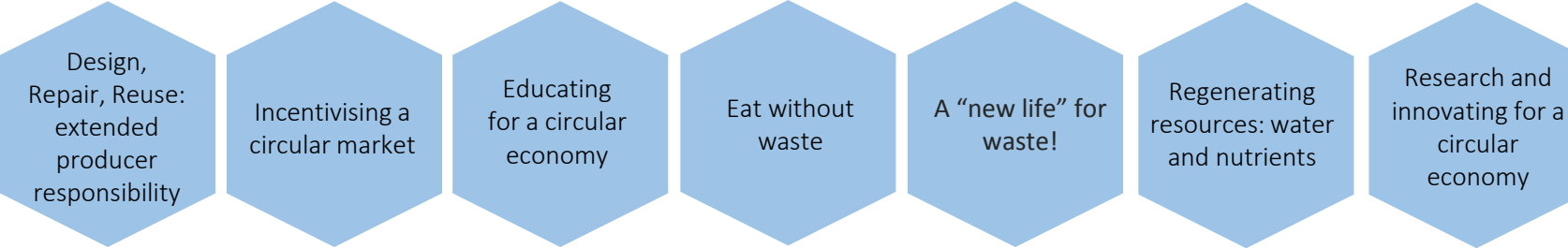


- **WORKSHOPS:** addressing CE in particular contexts – finance, SME, agriculture, construction, etc.;
- **ROADSHOWS:** visits to projects, companies that are examples in the application of CE principles;
- **PUBLIC DISCUSSION ACTION PLAN:** presentation and roundtable discussions with experts from business, academia, local government;

INTERMINISTERIAL COMMISSION CA₂
CLIMATE CHANGE AND CIRCULAR
ECONOMY

COORDINATION GROUP: NATIONAL
AGENCIES





Raise awareness & business case

Addressing regulatory gaps

CIRCULAR DEALS

MACRO ACTIONS	Some highlights of orientations
Design, repair, reuse	<ul style="list-style-type: none"> Raising the potential of EPR: as an enabler for value chain coordination towards improving product design – through R&D projects, through eco-value differentiation, through support to repair networks;
Driving a circular market	<ul style="list-style-type: none"> Revising counterproductive regulation and propose new/revised instruments: in single use plastics, in fossil fuels;
Educating for CE	<ul style="list-style-type: none"> NATIONAL STRATEGY FOR ENVIRONMENTAL EDUCATION: CE AND WASTE MANAGEMENT; Bolster academic curriculum on CE: industrial ecology, macro and micro economics; <i>Startup</i> and incubator engagement for CE;
Eat without waste	<ul style="list-style-type: none"> NATIONAL STRATEGY TO COMBAT FOOD LOSSES AND WASTE (AND ACTION PLAN); Campaigns, “zero waste” areas in retail;
A “new life” for waste	<ul style="list-style-type: none"> COLLABORATIVE LABORATORIES FOR CE: define and certify by-product criteria for wastes from industrial sectors; Dematerialization of the licensing and permits associated to waste management;
Regenerating resources	<ul style="list-style-type: none"> Water reuse: efficiency labels, circular deals to address barriers, minimum reuse requirements; Biotechnology and biorefineries to explore cascading bioresidues;
Research and innovation	<ul style="list-style-type: none"> NATIONAL AGENDA FOR RESEARCH AND INNOVATION IN CIRCULAR ECONOMY (ONGOING); Mapping of CE projects at national level: H2020, LIFE, Portugal 2020, etc

APOIAR POLÍTICAS AMBIENTAIS
PARA A PROSECUÇÃO DOS
OBJETIVOS DO
DESENVOLVIMENTO SUSTENTÁVEL

PI PROGRAMA
INTERFACE

INICIATIVAS | REDE | CANDIDATURAS | EVENTOS | CONTACTOS

Programa INTERFACE

ESTRATÉGICA INOVAÇÃO
CAPACIDADE COMPETITIVA

**CAPACITAR
A INDÚSTRIA PORTUGUESA**

Newsletter
141
8 Fevereiro de 2018

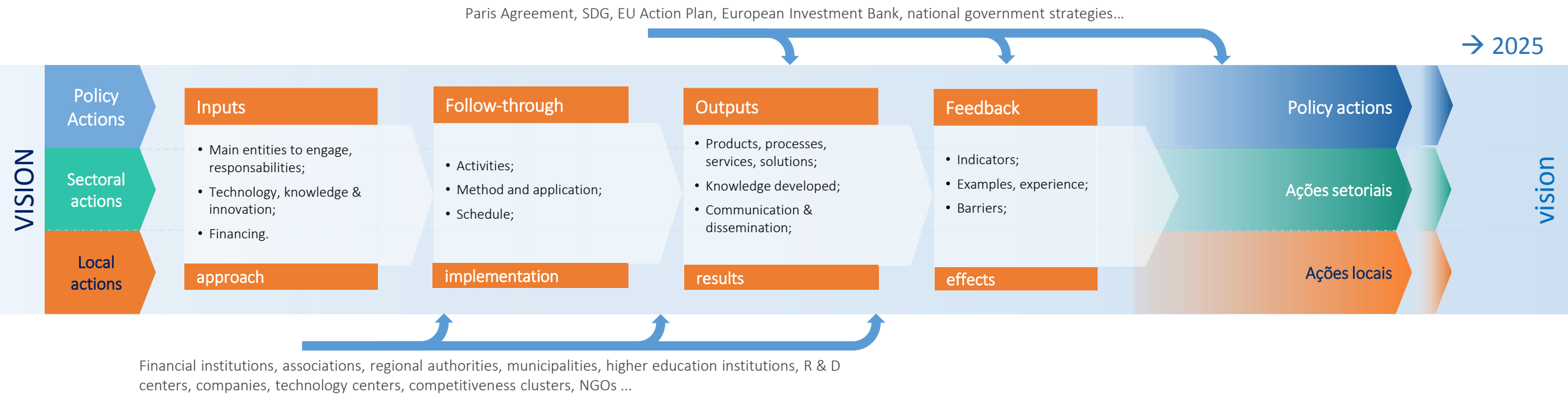
**COMPETE
2020**

IAPMEI
Parcerias para o Crescimento

**Sistemas de Incentivos
à Economia Circular**

Financing upfront investment

- **ENVIRONMENTAL FUND:** supports business ideas and projects related to CE in different areas (e.g. urban living labs, startups and SME, plastic, local solutions, pilot projects) (2018: €5.4 million)
- **CE, INNOVATION AND TECHNOLOGY FUND:** supports the collaborative laboratories for CE and interface centres (SME and R&D) (initial provision: €15 million)
- **PORTUGAL 2020: COMPETE** (e.g. Innovation - up to €500 thousand); “Voucher CE” (up to €7,5 thousand)









Porta abobadada
de madeira



Porta de madeira
verde e amarela



Porta com vidros
coloridos



Porta de duas
folhas com vidros



Banheira em ferro
fundido [145 cm]



Claraboias
[232cm]





goodafter

Procurar

Mercearia Bebidas Saúde e Bem-Estar

Home / Destaque

-70%

Valentina
Pão Integral de Alho Valentina

150gr
1,39€ - **0,41 €**

+ Adicionar à lista

ADICIONAR 1 - +

-42%

Fruut
Fruut Snac

20gr
0,85€ -

+ Adicionar à lista

ADICIONAR



RNTERS

Alugue tudo, aqui

Ex: GoPro Lisboa, Portugal Desde Até

Livros Desporto Eletrónica Bicicletas Casa Eventos Viagens

