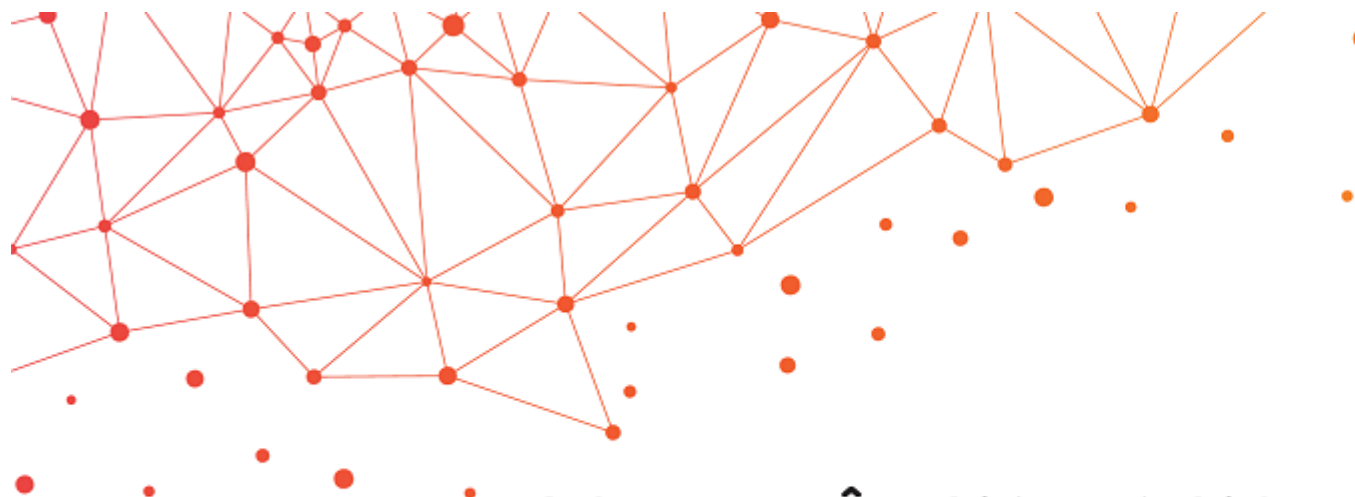
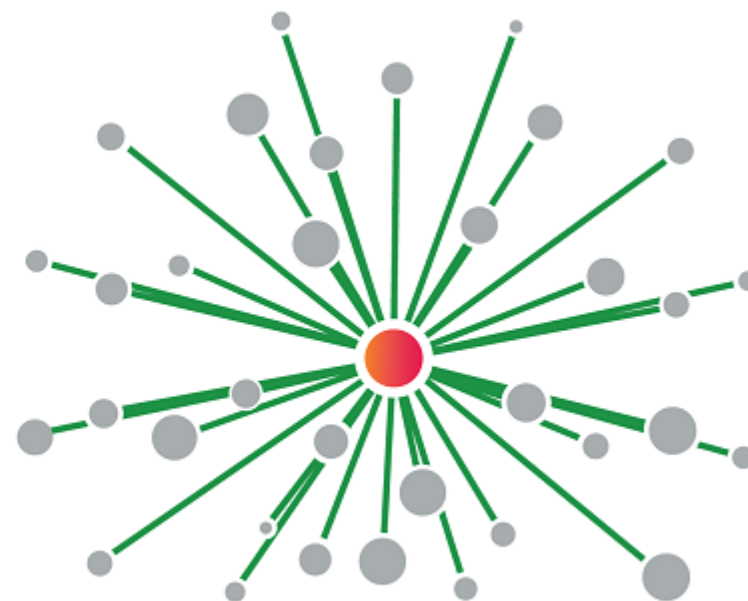


Economia circular

Cristina Rocha, LNEG



CONFERÊNCIA NACIONAL
DE CLUSTERS '19



ECONOMIA LINEAR

EXTRAIR – PRODUZIR – USAR – DESCARTAR

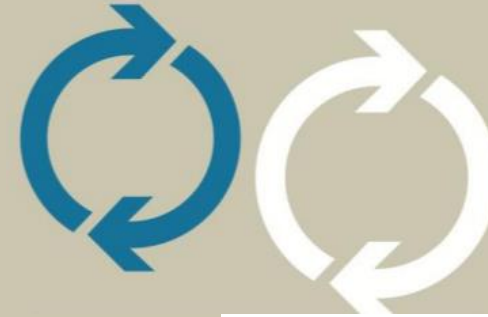


NUTRIENTES BIOLÓGICOS E TÉCNICOS
MISTURADOS

ENERGIA DE FONTES FINITAS

ECONOMIA CIRCULAR

NUTRIENTES TÉCNICOS NUTRIENTES



SISTEMAS VIVOS

ENERGIA DE FONTES
RENOVÁVEIS

reduzir fluxos de recursos

máximo de utilidade com o mínimo recursos | eco-eficiência

fechar fluxos de recursos

reciclar, refabricar, upcycling

desacelerar fluxos de recursos

reutilizar, reparar, partilhar, produto como serviço



KATCH-e



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of the European Union

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Aliança de conhecimento entre o **ensino superior, empresas e centros de investigação** para criar competências no domínio do **design de produtos-serviços** para a **economia circular e a sustentabilidade**





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Portugal



Espanha



Áustria

Parceria



Dinamarca



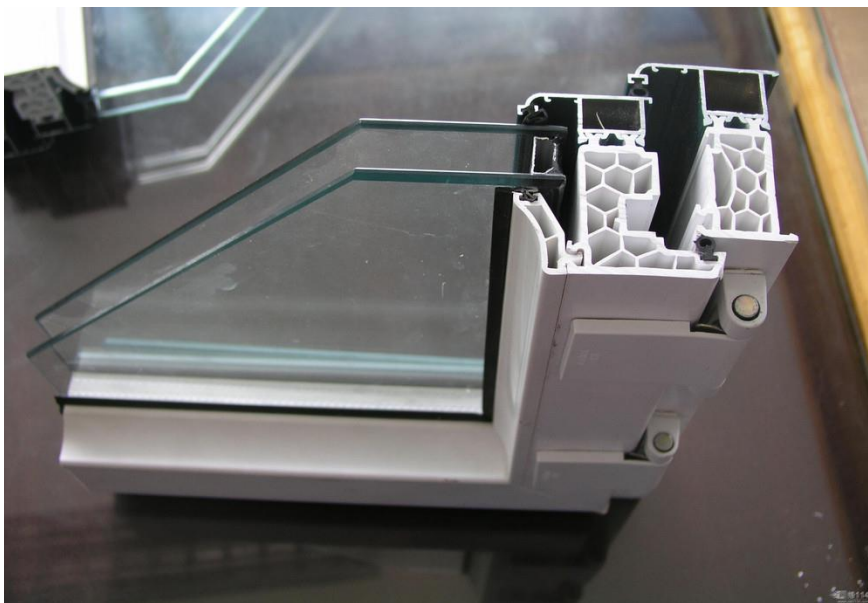
KATCH-e



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Setores alvo

Produtos de construção



Mobiliário





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Vertente académica

Curriculum of
product-service
development course

Didactic
recommendations

Modules

Tools

MOOC

Database of
examples

Vertente empresarial

Innovative product
and service concepts

Business strategies
towards circular
economy



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Suportada por

Situation analysis
report and executive
summary

Database of
resources

Stakeholder
networks

Ancorada em

Knowledge Platform

Website

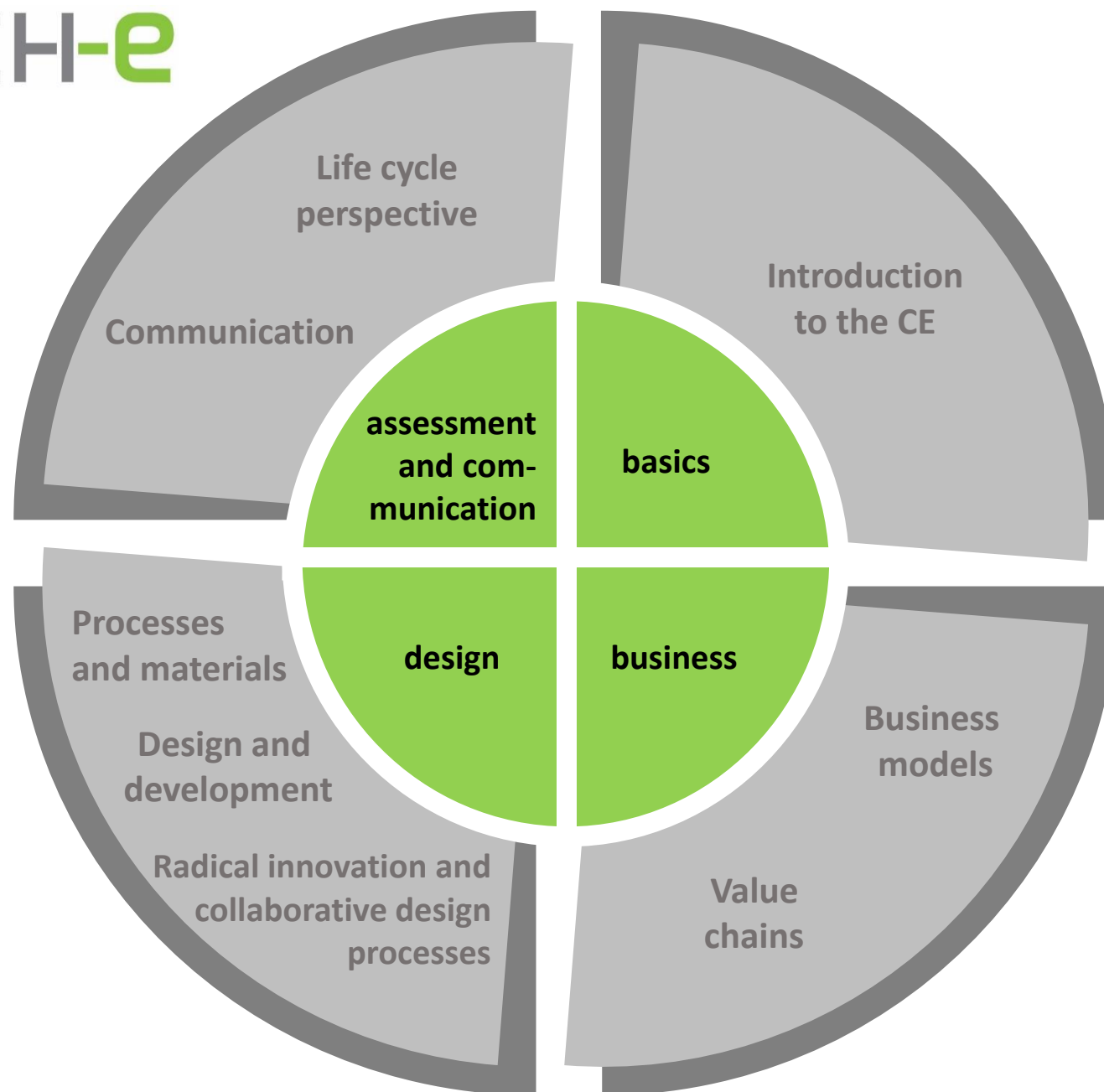
Knowledge Hub



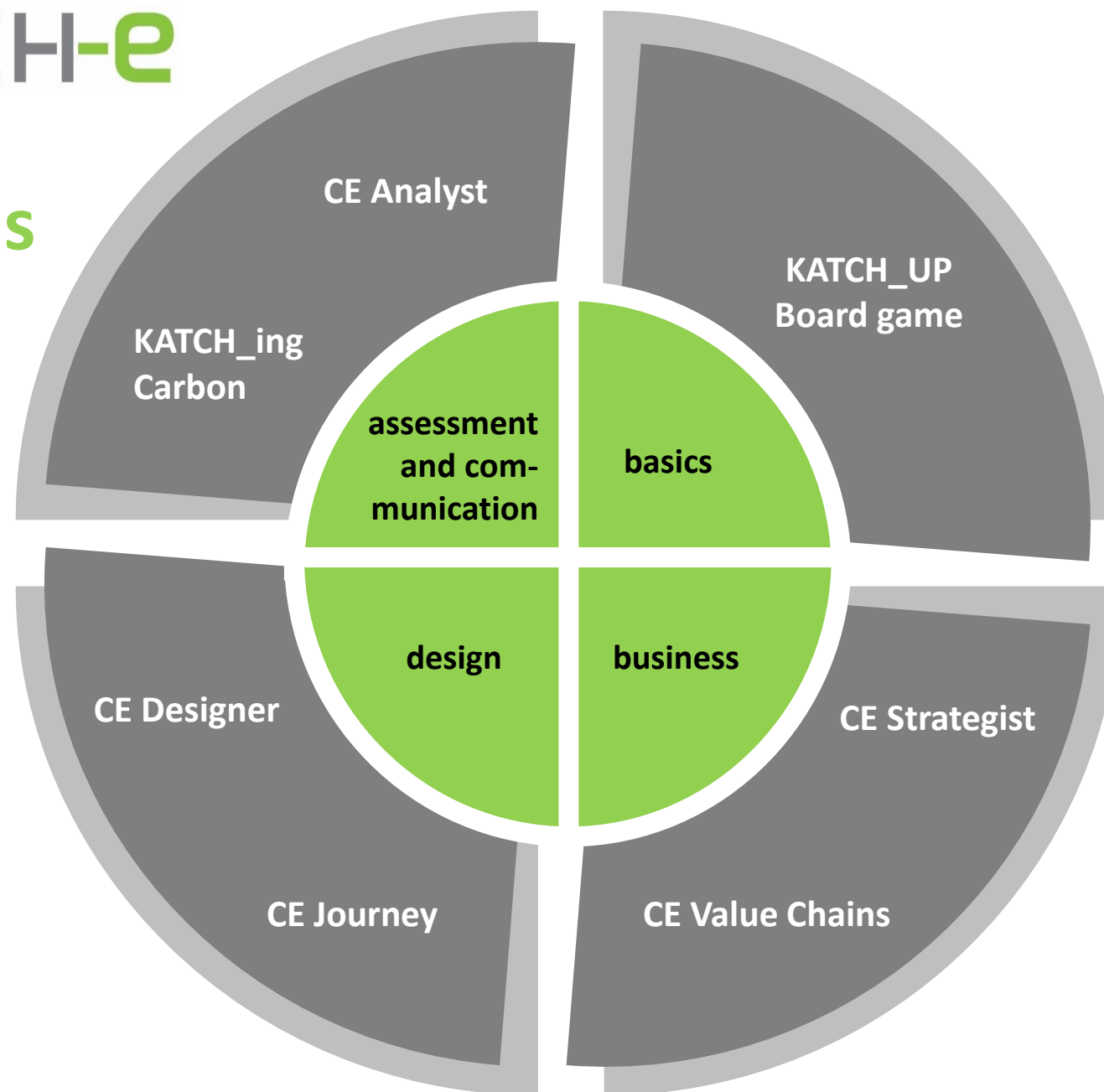
10 ESSENTIALS

- 1 Think circularity already in the **design phase**;
- 2 Think in **functionality** instead of products;
- 3 Analyse where **value** is created and destroyed;
- 4 Circular solutions should also be **sustainable**;
- 5 Keep a **life cycle perspective**;
- 6 Involve **stakeholders** in developing new solutions;
- 7 Lead the **transition** to a circular economy;
- 8 Understand new **consumer** practices;
- 9 Make the circular solutions **attractive**;
- 10 Consider the local, **social value**.

8 módulos



7 ferramentas





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Plataforma de conhecimento



KATCH-e

KNOWLEDGE PLATFORM

Training for Circular Economy in
the Construction and Furniture Sectors



ONLINE
COURSE



TOOLS AND
TRAINING MATERIALS



OTHER
RESOURCES

ENTER / REGISTER

www.katche.eu



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EduZWaCE

Education for Zero Waste and Circular Economy

NR.2018-1-EL01-KA202-047749

www.eduzwace.eu

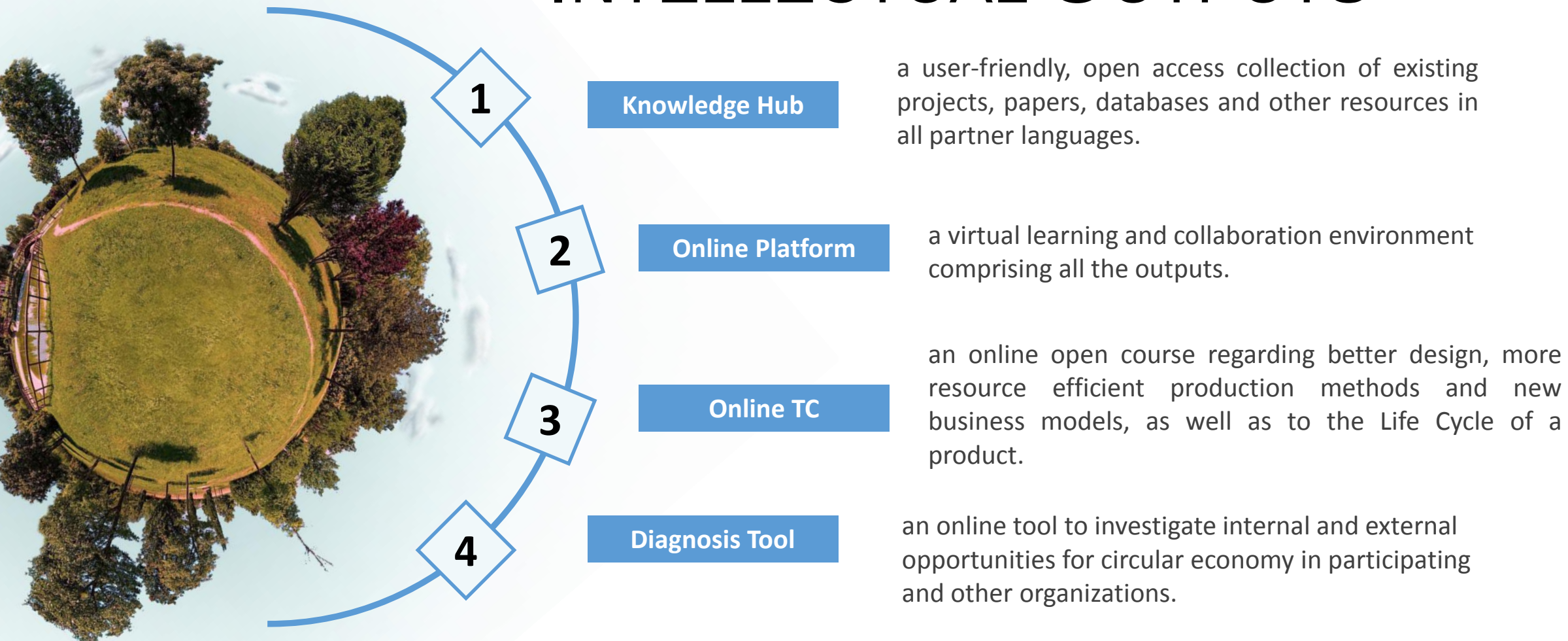


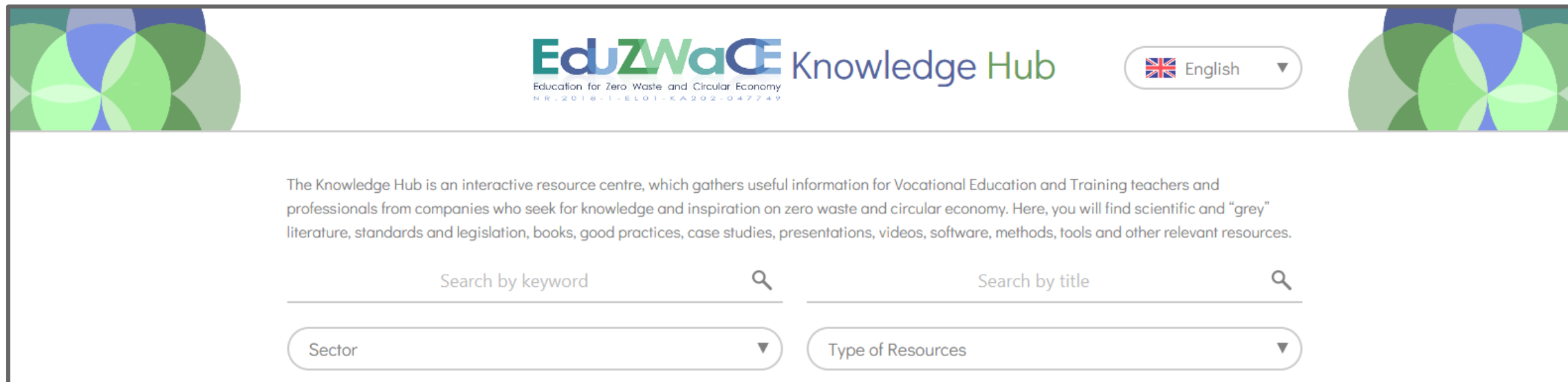
Education for Zero Waste and Circular Economy is an **Erasmus+ project** that lasts **2 years** from October 2018 and aims to:

- fill a gap in Vocational Education and Training
- create a new TC focusing on Zero Waste and Circular Economy
- developing interdisciplinary skills needed for new jobs in the area



INTELLECTUAL OUTPUTS





Knowledge Hub

khub.eduzwace.eu

Select a language

Year of Publication

Target Group

Defined (Dec 2018 - Jan 2019)

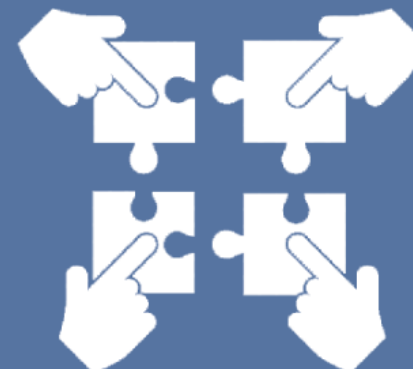
Developed (Feb 2019 - May 2019)

Implemented (May 2019 - Sep 2019)

90+ resources of **18** different types
in **English** but also in Czech, German, Polish,
Portuguese, Romanian, Spanish



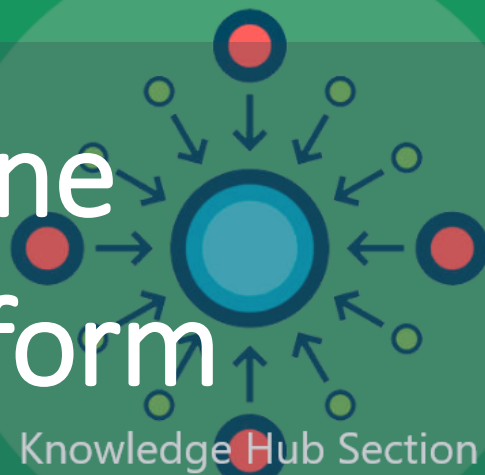
Online Training Section



Collaborative Section



Online Platform



Knowledge Hub Section



Participants Section

4 different spaces

English

The Knowledge Hub is an interactive resource centre, which gathers useful information for Vocational Education and Training teachers and professionals from companies who seek for knowledge and inspiration on zero waste and circular economy. Here, you will find scientific and “grey” literature, standards and legislation, books, good practices, case studies, presentations, videos, software, methods, tools and other relevant resources.

Search by keyword

Search by title

Sector

Type of Resources

Select a language

Year of Publication

Target Group

Reset

Knowledge Hub

khub.eduzwace.eu

90+ resources of **18** different types
in **English** but also in Czech, German, Polish,
Portuguese, Romanian, Spanish

Search by keyword



Sector ▾

Select a language ▾

Year of Publication ▾

Search by title



Type of Resources ▾

Target Group ▾

Reset



Guidelines for the waste audits before
demolition and renovation works of
buildings

Guidelines for the waste audits before
demolition and renovation works of
buildings

English

Author:

Published:

Sector:

Type of resource:



Closed search

The diagram illustrates the 'Closed search' process by showing arrows from the title to the filter sections. The filters are organized into four main categories, each with a search bar and a list of options:

- Sector**
 - Search
 - ☐ Cross-sectoral (69)
 - ☐ Sector-specific (13)
- Year of Publication**
 - Search
 - ☐ 1996 (1)
 - ☐ 2006 (1)
 - ☐ 2007 (2)
 - ☐ 2008 (1)
 - ☐ 2011 (1)
 - ☐ 2012 (3)
 - ☐ 2013 (2)
- Target Group**
 - Search
 - ☐ Professionals from companies (66)
 - ☐ VET teachers and trainers (54)
 - ☐ Other (12)
- Type of Resources**
 - Search
 - ☐ Book / Guide / Handbook / Report (28)
 - ☐ Article / Scientific Article (17)
 - ☐ Regular course / Training (10)
 - ☐ Mooc / Online Training (5)
 - ☐ Website (5)
 - ☐ Project (4)
 - ☐ Software / Tool / Online calculator (3)
- Select a language**
 - Search
 - ☐ English (55)
 - ☐ Polish (9)
 - ☐ German (7)
 - ☐ Czech (5)
 - ☐ Spanish (4)
 - ☐ Slovak (1)

EduZWaCE MaNaGeR

EQF Level 5

asses resource use, waste generation, and products lifecycles, and develop, implement and monitor specific projects for “closing the loops” in a company.

EduZWaCE WoRKeR

EQF Level 3

reuse of construction & demolition materials carries out an assessment of reusable construction and demolition waste streams prior to demolition and renovation of buildings



Online Training Course

2 target groups = 2 TCs
5 Learning Units in each TC
entry requirements defined
Learning Outcomes defined

EduZWaCE MaNaGeR

- UF 1. Introdução à Economia circular
- UF 2. Materiais e eficiência de recursos
- UF 3. Design circular
- UF 4. Criação de valor em modelos de negócio
circulares
- UF 5. Auto avaliação e cocriação de soluções
circulares

EduZWaCE WoRKeR

- UF 1. Introdução ZW e CE
- UF 2. Mobiliário
- UF 3. Elementos de construção
- UF 4. Equipamentos elétricos em edifícios
- UF 5. Avaliação da reutilização de materiais
de construção e demolição



- KATCH_e
- EduZWaCE
- Circular Start into Business: A Guidance Tool with eLearning resources on integrating sustainability and circularity aspects into business models (ERASMUS+)
- Aplicação de ferramentas de circularidade a empresas/cadeias de valor
- Acreditação “Vale de Economia Circular”
- Fórum de Economia Circular do Alentejo
- Grupo Ministerial de Coordenação do PAEC
- Centro de Recursos Abordagens de Ciclo de Vida e Economia Circular
- Laboratório Colaborativo ECoLab
- Formação avançada



Obrigada pela atenção

cristina.rocha@lneg.pt



For further information please contact the coordinator of the Project:

LNEG - Laboratório Nacional de Energia e Geologia, I.P.
Cristina Sousa Rocha, cristina.rocha@lneg.pt



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www.katche.eu



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