Change is just around the CornEr

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E³UDRES²

Engaged and Entrepreneurial European University as Driver for European Smart and Sustainable Regions

European University alliance with members from **Austria**, **Belgium**, **Hungary**, **Romania**, **Latvia, Portugal.** Two more institutes are joining from **Germany and the Netherlands.**

Innovative cooperation in **research**, **teaching**, **knowledge transfer** and **innovation**. Despite geographical, economic and cultural diversity, European regions face many common challenges due to:

- **Social distances & Spatial distances**
- **Technological distances**
- **Structural distances**

WP4: Researchers

E³UDRES² Work Packages:

- **WP 1:** General Management & Coordination (Lead: St. Pölten UAS)
- **WP 2:** Future Universities (Lead: Vidzeme UAS)
- **WP 3:** Learners & Educators (Lead: UC Limburg)
- **WP 4:** Researchers (Lead: IPS Sétubal)
  - Creation of R&D networks
  - E³UDRES² postdoctoral fellowships
  - Development of i-research projects
  - E³UDRES² citizen science projects
- **WP 5:** Innovators & Entrepreneurs (Lead: MATE Gödöllö)
- **WP 6:** Dissemination & Sustainability (Lead: St. Pölten UAS)

3 main focus groups:
CE: Circular Economy
WB&A: Well Being and Agening
HCtAI: Human Contribution to AI

Circular economy (CE)

source: srip-circular-economy.eu

The circular economy is a model of production and consumption - which involves sharing, leasing, reusing, repairing, refurbishing and recycling existing materials and products as long as possible. The life cycle of products is extended. (In practice: reducing waste to a minimum)

change
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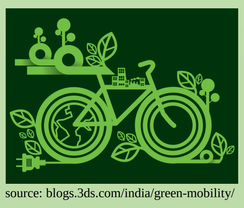
The aim is to convey the message that "*change is just around the CornEr*" → showing that a transition to a circular economy starts with small steps in daily life and in the region of citizens and stakeholders.

The CE research group focuses on two main topics:

Sustainable and green mobility/logistics



source: blogs.3ds.com/india/green-mobility/

Waste management and resource efficiency

source: products.pcc.eu

The Change CornEr idea has been born to fulfil the following challenging objectives:

- Increase community awareness
- Improve stakeholder engagement for circular economy
- Develop concepts and measures
- Create new circular economy business model ideas.

The Change CornEr is expected to reach the following outcomes:

- Conduct state of the art in **citizen research on a regional scale**
- Increase the **awareness for circular economy**
- **Develop and evaluate novel concepts**

Hot-topics:

•Water
- •Reduction in water consumption: How do consumers use water? Can we change their habits / their perception of water consumption?
- •Resources efficiency - Reuse water in agriculture and industry
- •Industrial water (ionic exchange, osmosis, micro and nano filtering)

source: weforum.org

•Energy
- •Energy reduction and recovery at home
- •Smart grids, E-mobility
- •Production and applications of renewable energy-sources
- •Use of information technology and AI for energy management

source: wbcsd.org

•Material use
- •Cascading use of wood - from timber to e.g. furniture to e.g. paper
- •The characterisation and use of new materials (composite, foams, ceramics, and more, e.g. new bio-plastics) and technologies (additive manufacturing) for different applications

source: ict2011dnt.wordpress.com

•Waste
- •Concepts and forms for organizing repair shops, repair cafes, etc.
- •Reuse of textile, alternatives for single use items (e.g. plastics that are used to bind pallets together)
- •Creating platforms where companies can sell or donate their (still useable) waste (e.g. single use items in decor building)
- •Industrial waste management
- •Utilisation of bio-degradable waste for obtaining biogas, biomass and biohydrogen

source: whatdesigncando.com

•**Food**
- •Dealing with food waste on different levels - production, retail, consumers. Circular solutions for food waste (e.g. too good to go app). Food waste management. Appropriate legislation and its challenge. Necessary changes in producer/ service provider and consumer behavior.
- •How can distribution be organized in a better way (including reverse logistics); food supply chain
- •Short food chains & making them accessible

source: today.com

•Buildings
- •Minimise the use of natural resources during the building's life
- •Use of Circular materials in construction
- •Biophylic design (introducing natural elements like plants, natural light, wood, ...)
- •Smart buildings and energy efficient (zero energy) houses
- •Metal construction structures

source: urban-hub.com

Further possible topics/ideas

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source: differencebetween.net

Feel free to add your idea here in the CornEr!

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