

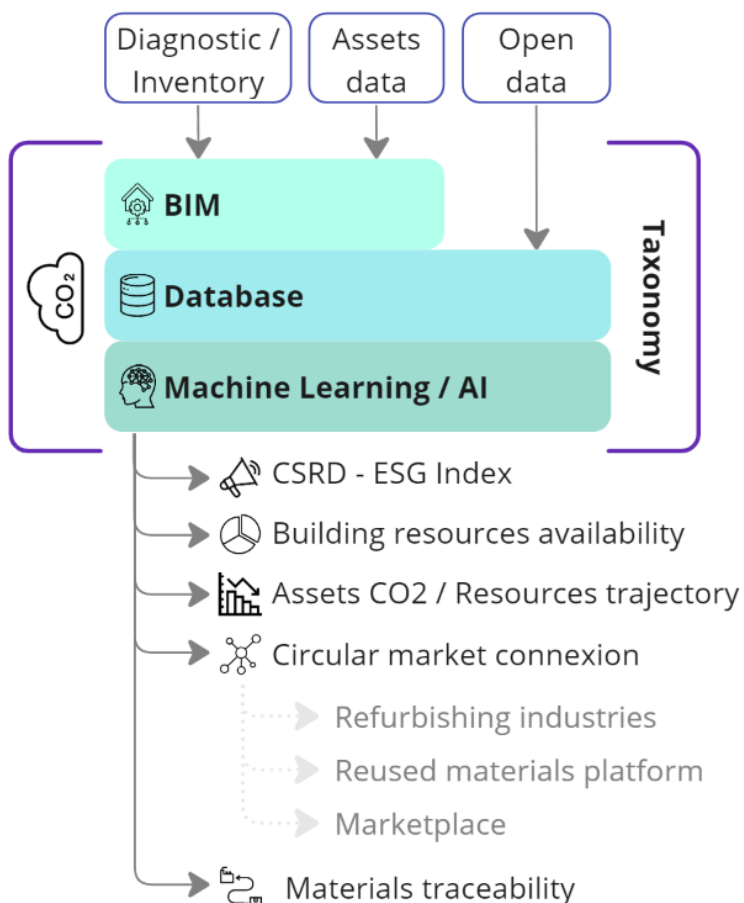
Assets Resources Circularity HYperviewer

ARCHY

19

Priority 3: Circular economy

Circular and resource efficient economy (SO 2.6)



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What challenge(s) is your project addressing in the NWE territories?

Support the circular economy change of scale in the construction sector, from one-shot opportunities of material recovery in between isolated worksites to a global vision of the resource potential with a unique digital tool that can be connected to any database or application. With the aim of predicting material availability around Europe and organising CO₂ saving strategies of assets.

What is the objective of your project?

Create an asset hyperviewer from the circular economy point of view, linked to the European taxonomy:

- Organise a CSRD – ESG index for assets
- Estimate the material circularity potential of assets
- Plan CO₂ savings and resource circularity strategies
- Connect to any reuse material marketplace, diagnostic application, BIM Model or carbon calculation model
- Organise material traceability at the European level

What impact/results is your project aiming for?

- Plan asset development, estimate your needs and resources, in line with circular economy challenges
- Create synergies and partnerships, in particular with circular economy industries (workshop, platform, marketplace)
- Deliver a model that can be connected to every ecosystem (material and carbon databases, etc.)
- Enable global traceability of materials
- Provide a decision-support tool to plan 0 carbon trajectory

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

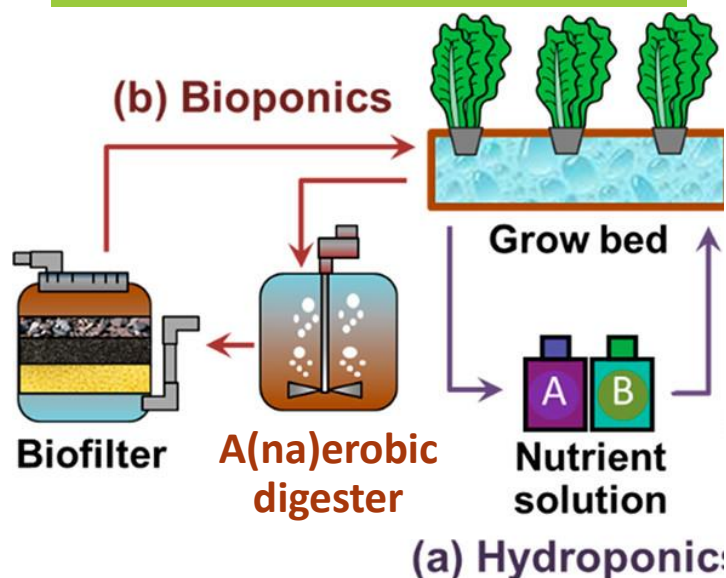
- Machine learning – NLP specialist
- BIM expert
- Carbon trajectory of assets adviser
- Urban metabolism and prospective resources data analyst
- Traceability expert





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Bioponics boost to produce sustainable and local food

BIOBOOST 20

What challenge(s) is your project addressing in the NWE territories?

Agriculture resilience must be based on diverse production systems including hydroponics, a soilless growing plants technique. Its use is increasing due to (1) high yield with low water resource ; (2) less dependence on climatic conditions; (3) adapted to rural & urban areas. However, high linear consumption of petrochemical fertilisers is a major bottleneck.

What is the objective of your project?

The objective is to make the hydroponic sector in NWE more circular by showcasing the possibilities of a novel technique, called bioponics, using organic fertilisers instead of petrochemicals with on-site production of the organic fertilisers. In this way supply of local circular food in the NWE is increased.

What impact/results is your project aiming for?

1. Installing innovative bioponic pilots with local production of organic fertilisers from digestion processes of organic manures (pig, chicken, fish)
2. Demonstration of sustainable bioponic performances thanks to the addition of biostimulants in pilot sites;
3. Transfer of Bioponics to early adopters and sensitisation of all users (small systems, industrial systems in urban and rural, environment)

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Different partners are already involved. We are specially looking for :

- A pilot site in Germany
- Experts in legislation and policies
- Industrial and local greenhouses and/or waste producers and representing associations
- Representatives of cities, rural zones
- Representatives of consumers



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BUBBLE 21

What challenge(s) is your project addressing in the NWE territories?

Water as a scarce and valuable resource - In many NWE regions there is an increasing demand in high quality, safe water being readily available in densely populated areas. Governments and water suppliers notice that a sustainable water supply is under threat, and the costs of treating water to get it to a safe level for consumption are rising.

What is the objective of your project?

It remains challenging to implement water (re)use efficiency measures on a large scale and becoming standard practice. We focus on implementing measures to increase efficient use and water saving measures in new and existing houses, where good examples can be implemented on a neighbourhood level. We want to increase the level of expertise in water-conscious building at household and neighbourhood level, from planning phase to management phase.

What impact/results is your project aiming for?

We aim to mainstream and upscale technical measures that can be applied in and around existing and new houses by providing good examples and implementation strategies for large scale implementations. Finally, we want to develop a reproducible strategy and set good examples that can serve as a blueprint for future practices on a large scale with North-West Europe.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

We are looking for French and Belgian partners who want to upscale technical measures in households/ neighbourhoods for efficient (re)use of drinking water, implement measures in households/neighbourhoods for saving and (re)using rainwater and who want to increase awareness for the purpose of increased uptake of these measures among target groups.



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Building reuse Converting offices into housing

BuildingConvert 22

What challenge(s) is your project addressing in the NWE territories?

The building sector faces several increasing challenges:

- Lack of (social) housing; lack of land for new constructions. An opportunity: increase of empty office buildings
- Need to decrease building sector carbon footprint and reduce construction waste but lack of knowledge/solutions to reuse construction material and to convert offices into housing

What is the objective of your project?

We want to develop the conversion of offices into housing, with a focus on the circularity of building structures and materials, and with an objective of urban integration and high quality of the flats developed.

Practical knowledge will be learned based on the experience of **pilots** (office buildings transformed into housing). This knowledge will be used to draw common action plans and tools, disseminated to relevant target groups in joint training sessions.

What impact/results is your project aiming for?

- More affordable housing places develop with high quality apartments
- Less vacant buildings and shorter vacancy time
- A greener housing construction sector: increase of material reuse in the building sector, decrease of CO₂ emissions

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

The project is prepared by LMH (Lille Metropole Habitat) as lead partner and the European Metropolis of Lille. We have already exchanged with several organisations (Social housing organisation, municipalities, universities).

We are still looking for potential partners, mainly :

- Social housing organisations with a conversion project
- Partners from Luxembourg





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Accelerating the SHIFT to CIRCULAR economy

Circular Shift 23

What challenge(s) is your project addressing in the NWE territories?

Procurement can be an effective instrument to accelerate circular economy. For this its pilots need to be scaled. This proves difficult for public organisations. They struggle with 1) their role in (private) value chains; 2) the potential impact on internal organisation coming with scale; and 3) demonstrating progress and impact through measuring and monitoring.

What is the objective of your project?

Public organisations will accelerate circular economy by successful up-scaling of procurement pilots. We'll demonstrate and develop easy to use solutions for organisations regarding value chain collaboration; internal commitment and learning; monitoring of real impact. Through this, organisations understand and implement the needed external and internal collaboration and its corresponding roles, behaviour and tools.

What impact/results is your project aiming for?

- Better narrowing, slowing and closing of material loops and applying circular strategies
- Value chain collaboration as 'common practice' for procuring organisations
- Internal commitment widely anchored in involved organisations
- Broad use of simple monitoring tools that measure real circular impact

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

- Procuring public organisations (local, regional or national governments) willing to implement working practice changes
- National sector or network organisations in the ICT, textiles and furniture sectors
- Partners from Germany, Ireland and France



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What challenge(s) is your project addressing in the NWE territories?

Large energy users and employers in peripheral regions do not have access to piped natural gas and, therefore, will not be able to access renewable gases such as biomethane and will miss out on new product, employment and enterprise opportunities available from anaerobic digestion (biogas) sector by-products.

What is the objective of your project?

To develop an anaerobic digestion plant to facilitate the supply of biomethane for large energy users and employers and create new employment and enterprise opportunities in a peripheral region of Ireland and Europe and developing a genuine circular economy

What impact/results is your project aiming for?

To provide a means for peripheral large energy users and employers to transition to a sustainable energy supply whilst also developing an environment where a new bioeconomy enterprise can flourish

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Anaerobic digestion developers
Circular / bio economy enterprises
Large energy users
Local/Municipal authorities
Universities



Good Up & Trans Scaling of Circular and Biobased Building in NWE

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GUTS

25

What challenge(s) is your project addressing in the NWE territories?

The NWE region generally performs above EU average in CE and waste recycling, however, the construction industry remains a large consumer of resources, with 30-50% of total materials used in EU going to construction and emitting annually 33% of CO₂ emissions. Even if we were to improve circularity we still need biobased, regrowable solutions to meet societal material demands.

What is the objective of your project?

GUTS aims to accelerate the transition to Circular Biobased Building (CBB) by further developing NWE sourced, produced and co-designed CBB components & systems. GUTS will upscale the potential of inspirational collaborations between designers and the building sector partners (makers) in order to develop and implement a replicable co-design approach, building upon already tested showcases and experiences.

What impact/results is your project aiming for?

- A co-created transnational design approach for CBB pilot components & systems in 5 Member States (Belgium, The Netherlands, France, Germany, Ireland) leading to the development of:
- 10 CBB demo prototypes
- A transnational coaching & accelerator programme for designers and makers
- A joint strategy for upscaling CBB solutions

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Motivated mission-driven organisations and/or knowledge institutions with a strong affiliation to biobased design and/or biobased construction, mainly in France, Germany and Ireland. Current consortium: Kamp C, Dutch Design Foundation, Stichting Agrodome, Biobased Creations, Natureplus, Sidati, Technologie Region Karlsruhe, Construction21, Design & Crafts Council Ireland, Builders, Living Lab 040, IGBC



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Reprocessed devices for reuse



Priority 3: Circular economy

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HEALTH GO GREEN 26

What challenge(s) is your project addressing in the NWE territories?

The project addresses challenges in North-West Europe territories related to the aging population, increasing demand for assistive technologies (ATs), and economic, environmental, and social issues associated with ATs, such as high costs, environmental waste, and limited access.

What is the objective of your project?

The objective is to develop and test a circular economy model for the collection, reprocessing, and redistribution of reprocessed Assistive Technology in the medico-social sector. This includes creating networks, improving regulations, and promoting the reuse of medical equipment.

What impact/results is your project aiming for?

The project aims for three types of impact: employment impact by creating local, inclusive jobs; economic impact by transforming healthcare through value-based reuse and making devices financially accessible; ecological impact by promoting recycling and reuse in the health sector.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Open to all profiles of organisations from the Programme's eligible country list, with a special emphasis on VET/training centers for refurbishing, care and senior establishments to test redistribution models, SMEs specialised in medical aids, and experts in regulation and CE norms and markings for reprocessed devices.



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CircuLar Economy - S seaweed and fiSh biOrefiNery

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LESSON

27

What challenge(s) is your project addressing in the NWE territories?

LESSON addresses the need to create environmentally and economically sustainable food, feed, cosmetic and pharmaceutical products from underutilised co-products of fish processing and underutilised marine plants including seaweeds.

LESSON will create jobs and employment in coastal communities and new economies of wealth focused on natural products. Products to enhance food security and reduce methane emissions will be produced.

What is the objective of your project?

- To establish pilot-scale processing methods to produce new feeds, protein products, novel pharmaceuticals and cosmetic products to enable environmentally friendly production of ingredients and end products from fish and seaweeds.
- To promote uptake of end products by key stakeholders in the agricultural, feed manufacture, food production, pharma and cosmetic sectors.

What impact/results is your project aiming for?

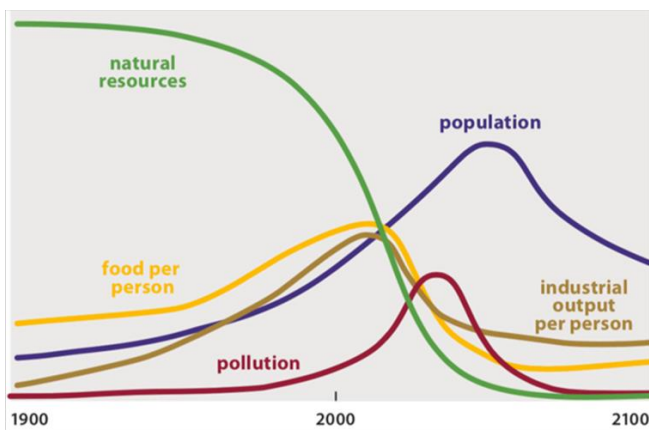
- Demonstration facility for production of novel, sustainable, natural products from fishery co-products resulting from processing of primary products and underutilised seaweed species as well as seaweeds that can be produced using integrated multi-trophic aquaculture.
- Job creation and uptake of results by industry partners and key stakeholders.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

- LESSON includes partners from Ireland, France, Germany. We are looking for partners from Luxemburg and Belgium.
- LESSON requires partners with the capability to produce cosmetic products and pharmaceutical products as well as partners with market research experience.

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What challenge(s) is your project addressing in the NWE territories?

The use of resources has grown exponentially and is the root cause of climate change and biodiversity loss. Science shows this growth cannot be sustained. Securing the supply of materials for specific nations can only be done at the expense of others, leading to additional geopolitical and inter-generational tensions. Instead, we should look for routes to lower the material footprint of humanity.

What is the objective of your project?

The objective of the Resource Wende is to shift the focus from increasing supply to sustain economic growth towards reducing the worldwide demand for resources and equally sharing the remaining supply with current and future generations. This can *partly* be achieved through recycling, however there are clear physical limitations in this area, so the focus needs to shift to higher level circular economy strategies.

What impact/results is your project aiming for?

The project will deliver the following results:

- Overview of the gap between global resource demand and calculated sustainable resource supply levels;
- Future scenarios to decrease global resource demand, underpinned by integrated assessment models;
- Proposals supporting stakeholders to increase efficiency & equally share resources with other nations and generations;
- Engagements to co-create, increase awareness and buy-in.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

The Resource Wende coalition is currently a collaboration of experts and institutions from 5 different countries in the EU. Given the current strong economic growth paradigm and ambitious project targets, there is a clear need for financial support as well as a much broad coalition of organisations, ambassadors and experts, supporting the implementation of the Resource Efficiency proposals.



Self-Built Housing and Energy Communities



Priority 3: Circular economy

Circular and resource efficient economy (SO 2.6)

SEBHEC 29

What challenge(s) is your project addressing in the NWE territories?

Lack of housing that is affordable, sustainable and appropriate for local communities. Lack of sustainable construction models for vulnerable persons. Dependence on fossil fuels, inadequate energy performance, high costs of energy. Outdated construction methods and practices within the local construction industry

What is the objective of your project?

To develop and demonstrate a technical, institutional and financial model for community self-build and self management of sustainable housing communities that are energy efficient, able to generate their own energy and which contribute to the development of self-reliant, cooperative communities as a conduit for housing delivery.

What impact/results is your project aiming for?

Development and demonstration of a technical, institutional and financial model for sustainable community self build and energy communities, that can be replicated in other countries in the NWE region and beyond. Tools creating awareness and training other communities to replicate this model.

What kind of partners are you looking for? Indicate country and/or type of organisations and/or expertise needed.

Organisations:

Social housing organisations, developers and builders, training agencies, architects, sustainability and net zero carbon consultants, energy installers and retrofitters, finance agencies

Skills:

social housing, modular construction systems, training, architectural, surveying, engineering, energy efficiency, renewable energy, energy management and AI, carbon footprinting, life cycle assessment



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