

Systems Thinking for Sustainable Development Workshop

Design and develop your project with a 360° perspective in line with the Sustainable Development Goals (SDGs)

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**FOUNDATION
FUTURE
GENERATIONS**

Our Mission



**Pass on a
liveable world to
FUTURE GENERATIONS**



The Foundation for Future Generations trusts and supports the **new generation** of **YOUNG TALENTS** to develop their **ideas** and **concrete solutions** for tomorrow.

Our strategy



Ideate solutions...

Target: Graduates & researchers

Leverage: **Awards** for 360° scientific works



Prototype solutions...

Target: Student entrepreneurs & prototyping

Leverage: **Impact prototype grant**



Start up solutions...

Target: **Start-up** founders with **impact**

Leverage: **Subordinated loans**



...propelling

a new generation of young
problem-solvers and their
360° solutions for tomorrow!



1

Overview of Sustainable Development and the SDGs



2

The 4P tool : a systemic approach to analyse a project from a 360° perspective



3

Sharing experience : Tom De Koninck Rover



4

Exercise based on a case study

**What does sustainable
development mean to you ?**

[← Sélectionner une autre question](#)[✎ Modifier la question](#)

Allez sur wooclap.com et utilisez le code **ZLRZOA**



What does sustainable development
mean to you? (keywords)



Cliquez sur l'écran projeté pour lancer la question

Pas encore de réponses. Elles s'afficheront
ici au fur et à mesure qu'elles seront
soumises.

wooclap



100%



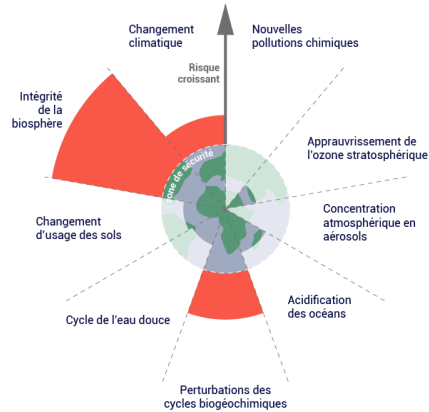
Sustainable Development Definition



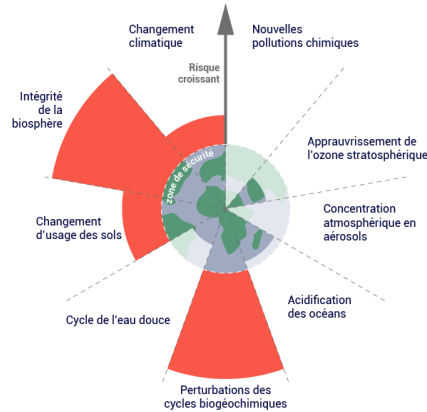
« Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.»

Gro Harlem Brundtland, Norwegian Prime Minister (1987)

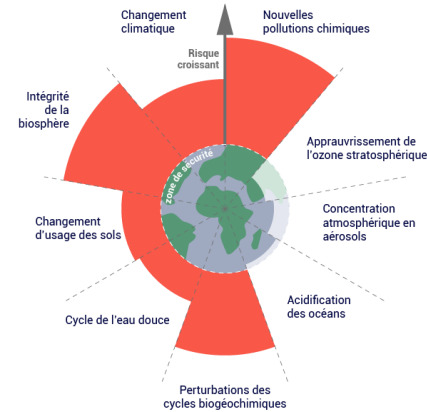
Planetary limits (Röckstrom, 2009)

**2009**

3 limits exceeded

**2015**

4 limits exceeded

**2023**

6 limits exceeded

2025
7 limits
exceeded

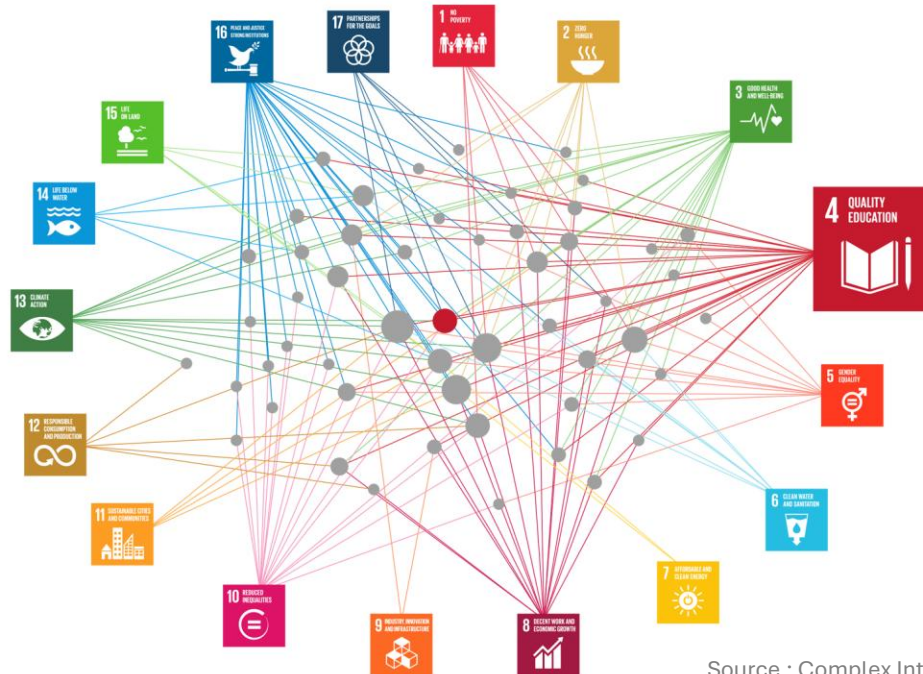
Sustainable Development Goals (SDGs)



Sustainable Development Goals (SDGs)

- **17 SDGs** with 169 **targets** and 234 **measurable indicators**;
- Collective reflection carried out by various actors from society and thousands of organizations worldwide ;
- International agreement to address **economic, social and environmental challenges** ;
- **Universal framework** applicable to all countries BUT different national implementations ;
- Not legally binding ;
- SDGs are **interlinked** and interact with each other ;
- Sets major **global priorities** for 2030.

Navigating a complex world : interconnections of the SDGs



Source : Complex Interlinkages between the SDGs (Norrag Global Education Centre, 2023)

Shared E- Scooters: Smart Green Solutions or Illusion ?





Reducing traffic congestion



Lowering GES emissions

Battery waste and short lifespan



Safety concerns





Different sustainable development models



The 4P model as a systemic lens

Respect the ecological limits of ecosystems and natural resources on which all life depends

An economy that creates sustainable value for people and the planet, beyond short-term growth



Ensure well-being and quality of life for all, in a fair and equitable way

Actively involving citizens and stakeholders in decision-making to co-create sustainable solutions and promote democratic governance

4P model: Planet

- Environmental impact
- Rational and sustainable use of natural resources
- Preservation of biodiversity and ecosystems
- Waste reduction and recycling



4P model: People

- Ensuring accessibility for all
- Equity and social justice
- Health, safety and well-being of stakeholders
- Inclusion and respect for diversity
- Contribution to education and human development



4P model: Prosperity

- Contribution to a sustainable and local economy
- Long-term economic viability
- Creation of quality jobs
- Useful and environmentally respectful innovation
- Sustainable financing
- Shared value for society



4P model: Participation

- Transparency
- Consideration of stakeholders' needs and expectation
- Citizen-participation
- Co-creation



Tom De Koninck



ROVER

OVERSCHOT ONDERSCHAT



- Tom De Koninck
- Baardegem (Aalst)
- Architecture & Civil Engineering Ugent
- VOMO Thomas More
- Founder of 'ROVER'





1/3 of Belgian scrap is processed in non-European countries (+- 2 million tons/year)

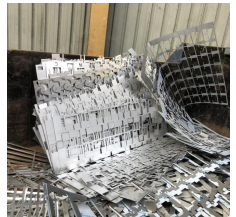
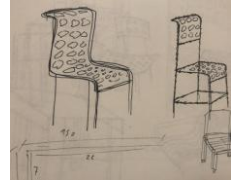
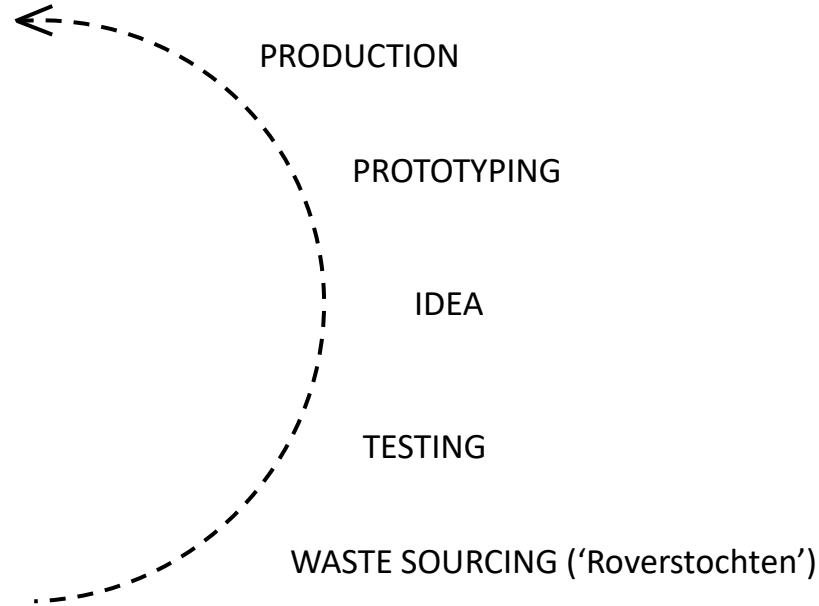
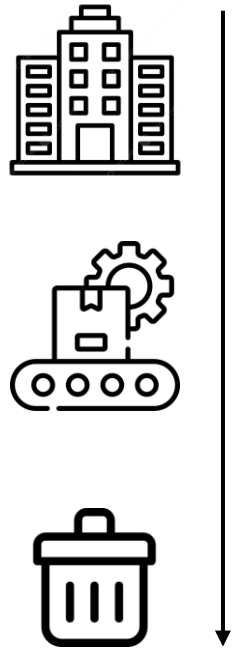
SOURCE: The observation of Economic Complexity

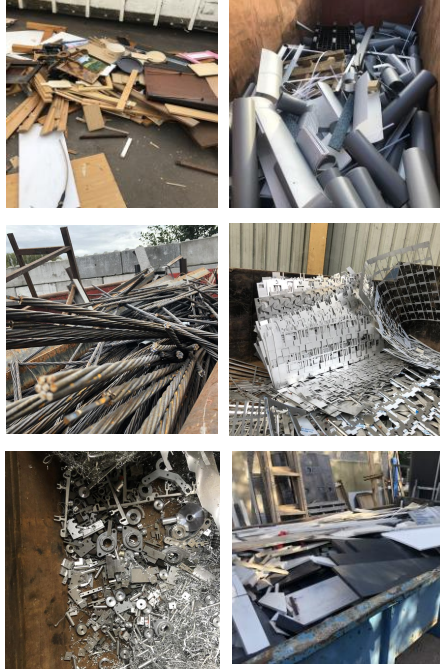




Thomas Lommée in 2018
op het UFO-gebouw van
de Universiteit van
Gent. (Foto: Radio 2)

REVERSING THE PROCESS





WASTE SOURCING ('Roverstochten')



PROTOTYPING

2 collections to
market



Henry van de Velde Awards

26



LATTO COLLECTION

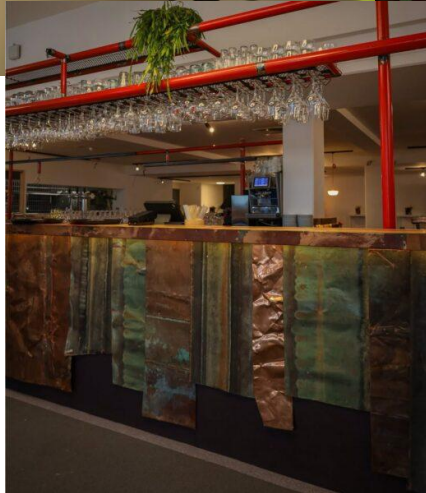
- Made from discarded slatted bases from Kringwinkel STROOM VZW
- Soon made at company Labeur VZW (Ghent)



(RE)WORKSHOPS



B2B Customization



HERMAAK - expo

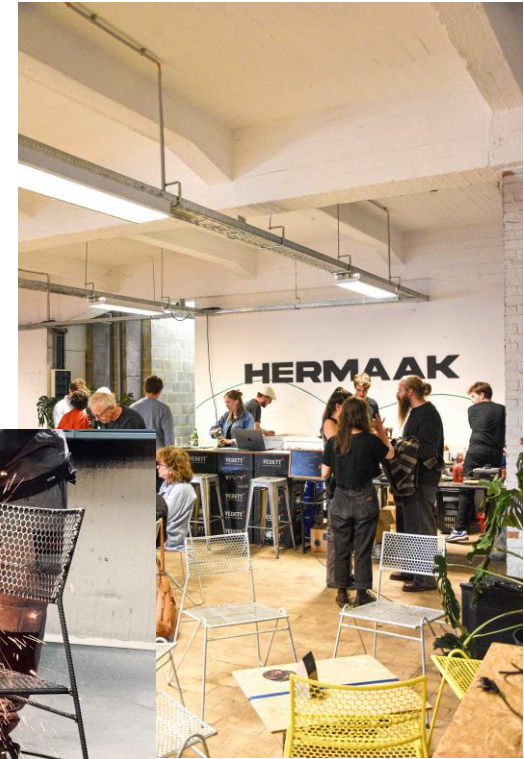


PLANET

- Reststromen als grondstof.
- Lokale materialen.
- Minder/geen primaire grondstoffen.
- Producten demonteerbaar/herstelbaar/monomaterialen

PEOPLE

- Samenwerking met sociale economie: Labeur, De Fikserij, OptimaT...
- Lokale tewerkstelling.
- Kennis delen.
- Mensen betrekken bij het verhaal van reststromen.
- HERMAAK als voorbeeld van participatie/educatie.

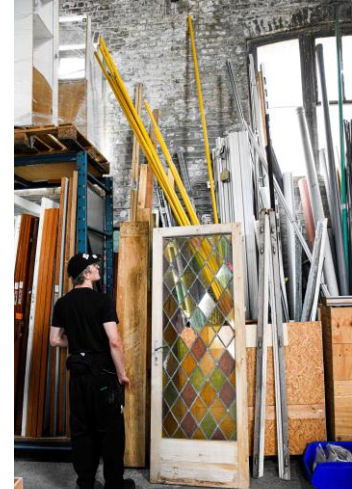


PROSPERITY

- Belangrijk om te tonen dat duurzaamheid ook economisch moet werken.
- ROVER is een onderneming, geen afvalverwerkingsproject.
- Reststromen krijgen economische waarde. => Win-win
- Producten worden verkocht.
- Verschillende verkoopmodellen: B2C, B2B, verhuur, samenwerkingen.
- De uitdaging: hoe schaal je dit zonder de circulariteit te verliezen?

PARTICIPATION 🤝

- ROVER werkt niet alleen met reststromen, maar met een netwerk van bedrijven, makers, sociale organisaties, klanten en ontwerpers.



ROVER

OVERSCHOT ONDERSCHAT

Follow the project:

www.roverproject.be  ROVER project  @rover.project_



Stad Aalst



FOUNDATION FOR
FUTURE GENERATIONS



BROEIKAS
ZAAK VAN JONGEREN



Case study

Colz'Iso

**Bio-based
insulation blocks
for walls made
from rapeseed
straw**



Colz'Iso

What are the **positive impacts** of this project on each 'P'?



STICHTING VOOR
TOEKOMSTIGE GENERATIES



FONDATION POUR LES
GÉNÉRATIONS FUTURES



Grâce à l'appui de



Avec le soutien de



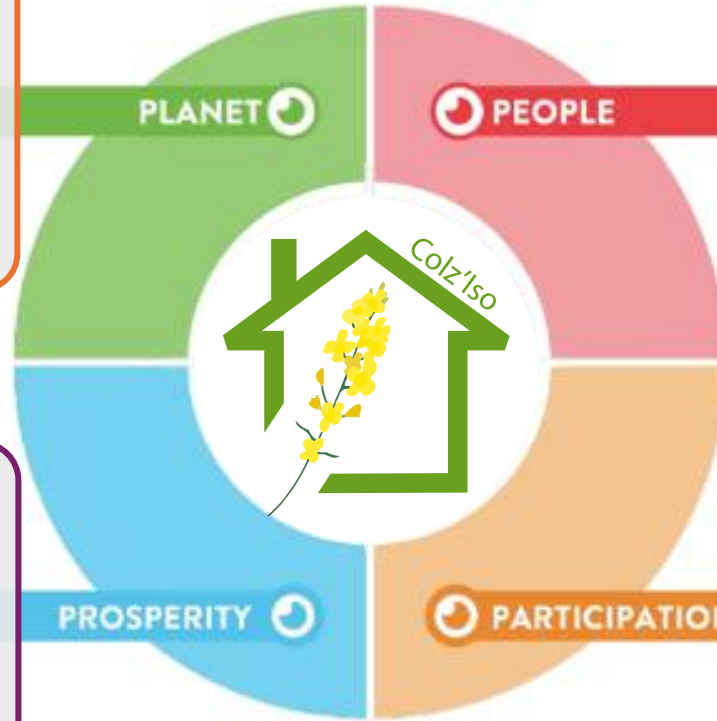
Colz'Iso

What are the **positive impacts** of this project on each 'P'?



- A healthy, breathable, natural, and locally sourced insulation material
- Carbon neutral (CO2 absorption by plants and storage in the blocks)
- A product well-suited for renovation, essential for combating urban sprawl

- Growing insulation market (government incentives, energy costs)
- Rising demand for bio-based building materials
- Material available in large quantities and at a low cost
- Circular economy (recycling of waste)



- Additional and fair income for farmers, with no impact on crop rotation
- Combating energy poverty
- Increased comfort (thermal and acoustic insulation)
- A healthy product that does not emit fine particles (bio-based product)
- Easy to use for DIY builders

- Survey conducted among farmers to determine a fair price
- Product adjustments based on feedback from various industry groups and customers

Save the date



PROTOTYPING THE FUTURE

Januari 2027



www.fgf.be



Learn More



YesPartner

Lauréat Prototyping the Future 2026

Votre partenaire pour créer et gérer des partages et communautés d'énergie renouvelable



UPscene

Lauréat Prototyping the Future 2026

Des chaises circulaires en déchets d'impression 3D locaux



Ankré

Lauréat Prototyping the Future 2026

Transformer des voiles usées en objets durables du quotidien



RevOnc

Lauréat Prototyping Sustainable Solutions (incubated) 2026

Un accompagnement digital qui soutient les patients après un cancer



Maylo

Lauréat Prototyping Sustainable Solutions (incubated) 2026

De la vaisselle pour bébé sans produits toxiques pour réduire l'exposition aux microplastiques



Planifio

Lauréat Prototyping Sustainable Solutions (incubated) 2026

Un assistant IA qui automatise les plannings pour une répartition plus équitable



PaintCare

Lauréat Prototyping Sustainable Solutions (incubated) 2026

Une machine pour nettoyer les rouleaux de peinture et réduire la pollution de l'eau



Novaclyx

Lauréat Prototyping Low Carbon Solutions (pre-incubated) 2026

Une machine mobile pour laver les gobelets réduisant transports et logistique

www.futuregenerations.be/fr/inspirez-vous

Feedback is welcome





...to pass on a liveable world

www.FutureGenerations.be