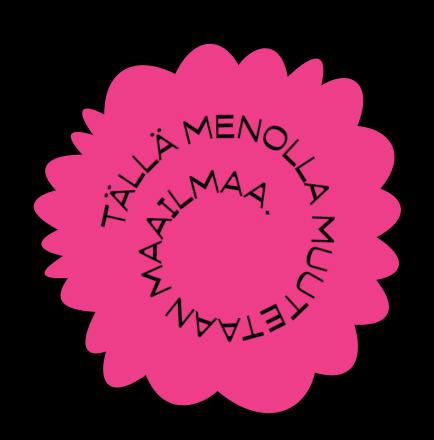


#### **SAVONIA**

## Multidisciplinary Research Development and Innovations

Dr. Tuomo Eskelinen Research Manager

**Towards Sustainable Society** 





# Example of ESG-Sustainability performance

S&P Dow Jones Indices A Division of S&PGlobal	Indices	Research & Insights	Exchange Relationships			Professional Resources		Governar	ce Q
								As of Feb 21, 2024	EXPORT ⊗
INDEX NAME ✓		1 DAY	MTD	QTD	YTD	1 YEAR	3 YEARS Annualized	<b>5 YEARS</b> Annualized	10 YEARS Annualized
S&P 500 ESG 3% Decr	ement Index	-0.71%	2.27%	3.55%	3.55%	21.54%	8.25%	12.37%	9.99%
S&P 500 ESG Index		-0.68%	2.34%	3.79%	3.79%	23.30%	9.81%	13.83%	11.14%
S&P 500 ESG Leaders	Index	-0.65%	2.25%	3.69%	3.69%	25.21%	10.34%	14.52%	11.33%
S&P 500 ESG Tilted (H	eavy) Index	-0.65%	2.18%	4.40%	4.40%	23.43%	9.69%	12.75%	10.83%



## The cold truth about circularity ... **Ellen McArthur** Foundation, 2024

# Despite the circular economy entering the mainstream, global circularity is still in decline.

Over the past five years, the volume of discussions, debates, and articles addressing this topic has almost tripled, reflecting a heightened awareness and interest in circularity. However, the vast majority of extracted materials entering the economy are virgin, with the share of secondary materials declining steadily since the Circularity Gap Report began measuring it: from 9.1% in 2018 to 7.2% just five years later in 2023.1 Meanwhile, the total amount of materials consumed by the global economy continues to rise: in just the past six years alone we have consumed over half a trillion tonnes of materials—nearly as much as the entirety of the 20th century. These statistics display the cold, hard truth: despite the circular economy reaching 'megatrend' status, lofty speeches and targets are not yet translating into on-the-ground actions and measurable impacts. Without bold, urgent action to

2/22/202 YOUR LOGO HERE



### **Multidisciplinary RDI**

#### **Key figures**

TURNOVER 2022 3 million €

NUMBER OF EXPERTS 40

NUMBER OF PROJECTS 28

JOINT INTERNATIONAL PROJECTS 20

Local solutions for global challenges with university & industry collaboration by cross-pollinating different expertise.

Regional, national and international levels.

Business and innovation development focus with a cross sectoral twist.

#### **Triple Transition (Green shift)**

SDGs, regional climate roadmap, sustainable business models





#### Savonia UAS' mission-based RDI

As global challenges, Savonia UAS' actions are guided by the Agenda 2030 goals, as well as Human Security. In addition to these, each of the Institute's six RDI departments has its own challenges typical of its operations.



Multidisciplinary RDI focuses its activities especially on agenda goals 8, 11, 12 and 13.



#### **Development work examples**



#### **Climate & innovation road maps:**

- ILCA (Innovation Laboratories for Climate Actions): <a href="https://eit-hei.eu/projects/ilca/">https://eit-hei.eu/projects/ilca/</a>
- Climate security: <a href="https://ilmastoturvallisuus.savonia.fi/en/front-page/">https://ilmastoturvallisuus.savonia.fi/en/front-page/</a>

#### Circular business & accepted solutions:

- ValueWaste: <a href="https://valuewaste.eu/">https://valuewaste.eu/</a>
- Waste4Soil : <a href="https://www.itene.com/en/success-stories/waste4soil-recovery-food-waste/">https://www.itene.com/en/success-stories/waste4soil-recovery-food-waste/</a>
- EFE (Ethical Food Entrepreneurship): <a href="https://ethical-food.eu/">https://ethical-food.eu/</a>

#### Impact assessment:

Future DiverCities2: https://future-divercities.eu/

#### **Ecosystem development:**

BoostECO: <a href="https://superecosystem.fi/">https://superecosystem.fi/</a>

#### Universities for Sustainable Development & their respective programs

Consortium of Universidad Pablo de Olavide (ES), OpenODS (ES), Vilniaus Kolegija (LT) & Savonia UAS (FI)

# IMPACT ASSESSMENT Iterative PROCESS

Creator view



### Pre Phase

#### Recap / Re-research

Understanding context & framework of the pilot/ venture

The Theory of Change

#### Initiation

The current situation of the pilot/venture

The topic of the workshop

**Evaluation** criteria

Key stakeholders

# FRAME CREATION WORKSHOP

## Participatory Phase

#### Archaeology

Feel the space Dreaming what could be?

#### Context/Field

Commoning How are involved? Key values & meanings

#### **Paradox**

Why the situation is so hard to solve?

#### Themes/Frames

Brainstorming new possible & futures Framestorming

## Post Phase

Storytelling new futures Pilot data collection

PRIA framework & INTO

#### Transformation Integration

Storyboarding Impact scenarios

Mapping out the activities that need to be done

Paths to actions

The Change



## **SAVONIA** Business Model Canvas



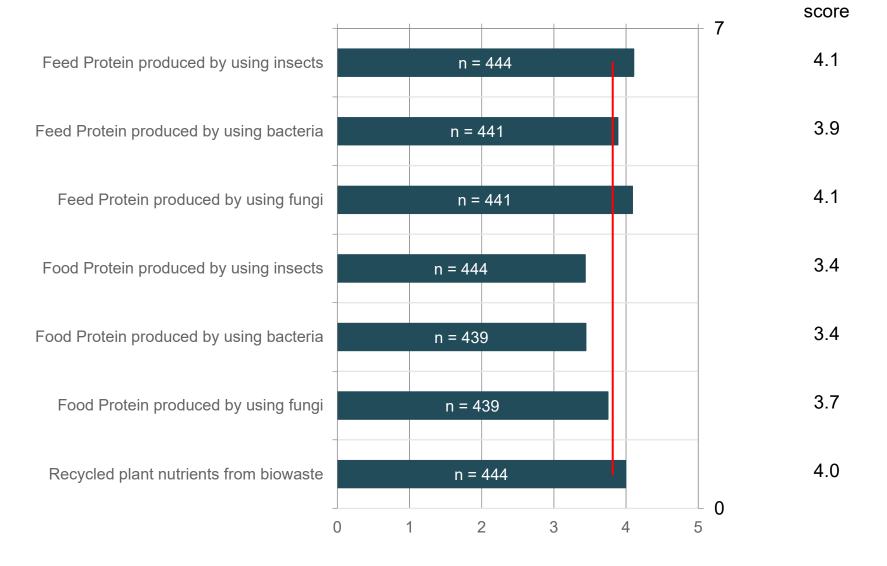
www.savonia.fi

#### ample from Social Acceptance study.

### SAVONIA the state of the following new protein or fertilizer sources when made available?

Average

Number of respondents: 447







#### Science of The Total Environment

Volume 912, 20 February 2024, 169548

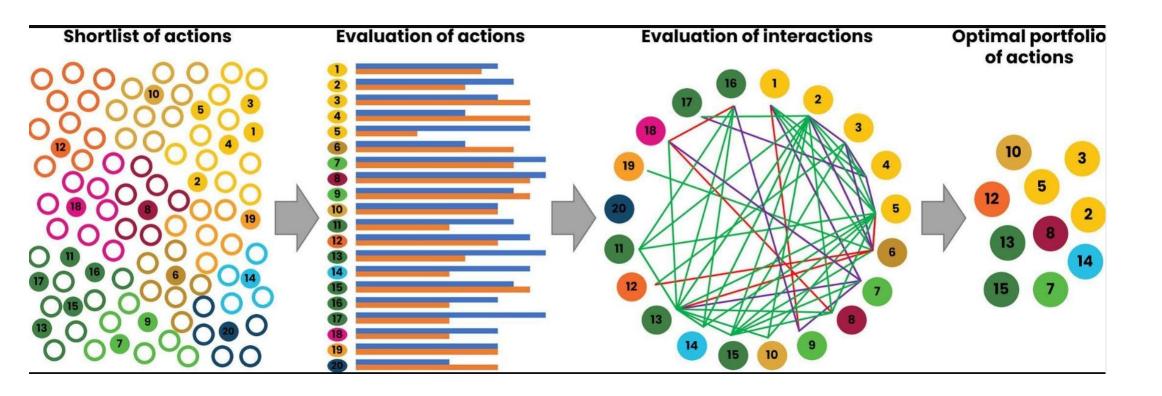


A portfolio decision analysis approach for selecting a subset of interdependent actions: The case of a regional climate roadmap in **Finland** 

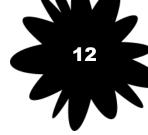
J<u>yri Mustajoki <sup>a</sup> A Juuso Liesiö <sup>b</sup>, Miika Kajanus <sup>c</sup>, Tuomo Eskelinen <sup>c</sup>,</u> Saara Karkulahti <sup>d</sup>, <u>Taeyoung Kee</u> <sup>b</sup>, <u>Anni Kesänen</u> <sup>c</sup>, <u>Tapio Kettunen</u> <sup>d</sup>,











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