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Assessment of Savonia University of Applied Sciences

UNIVERSITY OF APPLIED SCIENCES ALIGNMENT WITH THE 2030 AGENDA

A Diagnosis from Savonia UAS, Kuopio, Finland

UNIVERSITIES FOR SUSTAINABLE DEVELOPMENT

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1 PRESENTATION

Savonia's strategy is based on a global framework in which human security (Undefined Human Security) combines different types of global challenges and looks at people and their well-being rather than structures. The challenges relate to food, water, health, energy and bio economy.

Through these choices, Savonia is supporting the achievement of the UN Sustainable Development Goals (Agenda 2030), adaptation to climate change (Paris 2015 climate agreement with its implementation agreements) and disaster risk reduction (Sendai Framework for Disaster Risk Reduction 2015-2030).

Savonia's goal is to be a sustainable, responsible and carbon-neutral university of applied sciences by 2030. In order to achieve this, Savonia undertakes to systematically implement various measures to reduce emissions, monitor the development of its carbon footprint and jointly search for other ways to achieve carbon neutrality.

This document is part of Universities for Sustainable Development project in which one output is the diagnosis of each organisations involved. In this document we describe how the diagnosis has been done, what choices we have done and give insight to our results.

The main objective of the task carried out and presented in this document is to describe how the diagnosis has been done and to present the chosen indicators and analysis.

2 METHODOLOGY

In order to make the diagnosis, following steps were taken (figure 1).



Figure 1. The process.

1. The starting point

In the starting point, the selection of activities and services that would be analyzed was made. Because Savonia is an educational organization with strong focus in research, development and innovation, the areas that were chosen to be focused on were:

- **Research, development and innovation (RDI), and**
- **Education**

Savonia has campuses in three different cities: Kuopio, Iisalmi and Varkaus. There are more than 30 different bachelor level degrees and more than 10 master level degrees in Savonia. In total, Savonia has around 530 employees and more than 7000 students.

Universities of applied sciences have a key role in raising Finns' carbon neutral competence level and in the continuous renewal of sustainable development competence for the needs of future working life. Savonia's responsibility can be seen in the fact that it operates in an ecological, socially, information security and financially sustainable manner.

Education: Savonia graduates experts in sustainable development

Personnel: operations are ecologically, socially and economically sustainable.

RDI: with applied research, answers to the challenges of sustainable development and responsibility together with the business.

Management: sustainable campus life (e.g. dining, recycling, light automation, electric cars, energy use, optimization of space use), thoughtful travel, sustainable procurement.

Savonia is a partner for sustainable growth and a provider of competence in the transition of business life. Savonia's areas of strength are wellness technology, food business, water safety, machine and energy industry, and bio and circular economy

2. Identifying impacts

We chose four SDGs for closer view:

- SDG 2: End hunger, achieve food security and improved nutrition and promote sustainable agriculture.
- SDG 3: Ensure healthy lives and promote well-being for all at all ages.
- SDG 4: Ensure inclusive and quality education for all and promote lifelong learning.
- SDG 9: Build resilient infrastructure, promote sustainable industrialization and foster innovation.

The SDG 4 was chosen because of educational reasons; Savonia being an educational organization. SDG 2 was chosen because food business is one of Savonia's strengths in education and rdi. Savonia is also strong in agriculture. One of Savonia's focus areas is Wellbeing Technology which is why SDG 3 was chosen. Savonia is also educating professionals in health care and social services and has achieved the Great Place to Work certificate. Savonia is also strong in rdi, industry, innovation and infrastructure, and this is the reason why SDG 9 was chosen. Focusing in these four SDGs, at this point, has also been accepted by Savonia's Strategy Group.

3. Linking the impacts to SDG's

We linked the most significant impacts to SDGs and analyzed the positive and negative effects of the activity on the SDG goals and targets. We had two perspectives in our diagnosis:

1. How does the activity increase positive effects in the goal?
2. How does the activity reduce negative effects in the goal?

The number of SDGs and targets are shown in Table 1.

Table 1. SDGs and targets.

Goal 2: Zero Hunger	1 targets: 2.4
Goal 3: Good Health and Well-being	3 targets: 3.c, 3.d, 3.8
Goal 4: Quality Education	4 targets: 4.3, 4.4, 4.5, 4.7
Goal 9: Industry, innovation and Infrastructure	4 targets: 9.1, 9.2, 9.4, 9.5

4. Connecting the SGD's to chosen indicators

We connected the SDGs to the chosen indicators. The indicators that were chosen are summarized in Table 2.

Table 2. SDG indicators

Goal 2: Zero Hunger	<ol style="list-style-type: none"> 1. CO2 emission from agriculture 2. Food waste index, %
Goal 3: Good Health and Well-being	<ol style="list-style-type: none"> 1. Students and staff taking part into Sykettä sport services 2. GPTW index
Goal 4: Quality Education	<ol style="list-style-type: none"> 1. Number of students 2. Students graduating



	<ol style="list-style-type: none"> 3. Graduates working as entrepreneurs 4. Employment rate of graduates 5. The % of students who complete their degree in time corresponding to the scope of the degree out of all those who completed their degree 6. Number of multimodal students
Goal 9: Industry, innovation and Infrastructure	<ol style="list-style-type: none"> 1. Number of publications related to SDGs 2. Number of RDI-projects related to SDGs 3. Number of training projects/programs on sustainability. 4. Number of participants joining projects/programs on sustainability. 5. Customer satisfaction of participants joining projects/programs on sustainability.

5. Analysis

We collected the data and analyzed it.

3 RESULTS

The data that has been collected is always the latest available data. The year or academic year, which the data is concerned, is always mentioned before the data in Table 3. In some cases, the data is not currently available. These indicators will be calculated for future academic years, if possible. These cases are marked "Unavailable".

In the latest Great Place To Work measurement, an overall 93 percent of people from Savonia were of the opinion that Savonia is a really good place to work. The figure shows an increase of four percentage points from the previous year. The average of all claims was 85 percent (an increase of two percentage points from the previous year).

The total number of students was checked on 19.4.2023 and is 7329 students. The total number of graduates in 2022 was 1319, of which 193 were from master level. In 2022, the share of those who completed their degree in a time corresponding to the scope of the degree out of all those who completed degree was 74,7 percent. The number of graduates who start or continue as entrepreneurs after one year of graduating was 45 in 2021. And the number of graduates who start or continue as entrepreneurs after one year of graduating was 1100 in 2021. The number of fields of education which have adopted the value proposition of sustainable development is currently unavailable. The value propositions of sustainable development are currently in the making of all the educational teams in Savonia, so the data is not yet available.

The data of total number of publications related to SDGs is not available. The data of total number of RDI-projects related to SDGs is not available currently but information will be available soon.

Table 3. SDG indicators data

2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture	
CO2 emission from agriculture	year 2020 613,5
Food waste index, %	Unavailable
3 Ensure healthy lives and promote well-being for all at all ages	
Students and staff taking part into Sykettä sport services	2021-2022 806 (student: 756 staff: 50)
GPTW index	year 2023



	85 %
4 Ensure inclusive and quality education for all and promote lifelong learning	
Total number of students enrolled	year 2023 (19.4.2023) 7329
Total number of students graduating	year 2022 1319 (bachelor: 1126, master: 193)
The % of students who complete their degree in time corresponding to the scope of the degree out of all those who completed their degree	Year 2022 74,7 %
Number of graduates who start or continue as entrepreneurs after one year of graduating	year 2021 45
Number of fields of education which have adopted the value proposition of sustainable development	Unavailable
Number of graduating students who are in working life after one year of graduating.	year 2021 1100
Number of multimodal students	year 2023 (19.4.2023) 2855 (bachelor: 1940, master: 915)
9 Build resilient infrastructure, promote sustainable industrialization and foster innovation	
Total number of publications related to SDGs	Unavailable
Total number of RDI-projects related to SDGs	Unavailable
Total number of projects/programs related to sustainability	Unavailable
Customer satisfaction of participants joining projects/programs on sustainability	Unavailable



4 DATASHEETS

CO2 emission from agriculture

Unit	CO2 emission from agriculture		
Source	North Savo climate road map, monitoring report	Regularity of calculation	Annual
Calculation methodology	CO2 emission from agriculture in the North Savo region.		
SDG concerned	2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture.		
Target concerned	2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.		



Food waste index

Unit	Unavailable		
Source		Regularity of calculation	
Calculation methodology	Food waste index, %		
SDG concerned	2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture.		
Target concerned	<p>2.4 By 2030, ensure sustainable food production systems and implement resilient agricultural practices that increase productivity and production, that help maintain ecosystems, that strengthen capacity for adaptation to climate change, extreme weather, drought, flooding and other disasters and that progressively improve land and soil quality.</p> <p>12.3 By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses.</p>		



People from the University of Applied Sciences taking part into Sykettä sport services

Unit	Percentage (%) of students and staff		
Source	Report from Sykettä käyttäjärekisteri	Regularity of calculation	Per semester
Calculation methodology	Number of students and staff taking part into Sykettä sport services		
SDG concerned	3 Ensure healthy lives and promote well-being for all at all ages		
Target concerned	<p>3.c Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries.</p> <p>3.d Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks.</p> <p>3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.</p>		



Great Place to Work trust index

Unit	GPTW index		
Source	GPTW report	Regularity of calculation	Annual
Calculation methodology	The average of GPTW statements, i.e. the number of respondents who answered 4 or 5 on a scale of 1-5.		
SDG concerned	3 Ensure healthy lives and promote well-being for all at all ages		
Target concerned	<p>3.c Substantially increase health financing and the recruitment, development, training and retention of the health workforce in developing countries, especially in least developed countries.</p> <p>3.d Strengthen the capacity of all countries, in particular developing countries, for early warning, risk reduction and management of national and global health risks.</p> <p>3.8 Achieve universal health coverage, including financial risk protection, access to quality essential health-care services and access to safe, effective, quality and affordable essential medicines and vaccines for all.</p> <p>8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value.</p> <p>8.8 Protect labour rights and promote safe and secure working environments for all workers, including migrant workers, in particular women migrants, and those in precarious employment.</p>		



Total number of students enrolled

Unit	Number of students enrolled		
Source	Report from student information system Peppi	Regularity of calculation	Continuous
Calculation methodology	Number of students enrolled		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.		



Total number of students graduating

Unit	Number of students graduated		
Source	Report from student information system Peppi	Regularity of calculation	Annual
Calculation methodology	Sum of students graduating during last year. Bachelor and master level.		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university.		



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Percentage of students graduating in time

Unit	Percentage of students graduating		
Source	Report from Vipunen	Regularity of calculation	Annual
Calculation methodology	The share of those who completed their degree in a time corresponding to the scope of the degree out of all those who completed degree.		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university. 4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship.		



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Percentage of graduating students who start or continue as entrepreneurs

Unit	Number of graduating students		
Source	University of Applied Sciences Graduation placement questionnaire	Regularity of calculation	Annual
Calculation methodology	Number of graduates who start or continue as entrepreneurs after one year of graduation.		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship		



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Number of fields of education which have adopted the value proposition of sustainable development

Unit	Unavailable		
Source		Regularity of calculation	Annual
Calculation methodology	Value propositions for education are currently prepared and the indicator will be set later.		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development		



Percentage of graduating students who are in working life

Unit	Number of graduates		
Source	University of Applied Sciences Graduand placement questionnaire	Regularity of calculation	Annual
Calculation methodology	Number of graduates who are in working life (the current labor market situation after one year of graduating)		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.4 By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship		



Number of multimodal students

Unit	The number of multimodal students		
Source	Report from student information system Peppi	Regularity of calculation	Continuous
Calculation methodology	The number of multimodal students. Bachelor and master level.		
SDG concerned	4 Ensure inclusive and quality education for all and promote lifelong learning.		
Target concerned	4.3 By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university. 4.5 by 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples, and children in vulnerable situations.		



Number of publications related to SDGs.

Unit	Number of publications		
Source	Report from Savonia publicatin system	Regularity of calculation	
Calculation methodology	The report is unavailable.		
SDG concerned	9 Build resilient infrastructure, promote sustainable industrialization and foster innovation		
Target concerned	<p>9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.</p> <p>9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending.</p>		



Number of RDI-projects related to SDGs.

Unit	Number of RDI-projects		
Source	Reportronic	Regularity of calculation	Annual
Calculation methodology	New projects will all be connected to SDGs but from earlier projects the data is not available.		
SDG concerned	9 Build resilient infrastructure, promote sustainable industrialization and foster innovation		
Target concerned	<p>9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries.</p> <p>9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.</p> <p>9.5 Enhance scientific research, upgrade the technological capabilities of industrial sectors in all countries, in particular developing countries, including, by 2030, encouraging innovation and substantially increasing the number of research and development workers per 1 million people and public and private research and development spending.</p>		



Number of training projects/programs on sustainability.

Unit	Number of training projects/programs on sustainability		
Source	Unavailable	Regularity of calculation	
Calculation methodology	The report is unavailable.		
SDG concerned	9 Build resilient infrastructure, promote sustainable industrialization and foster innovation		
Target concerned	<p>9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.</p> <p>9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries.</p> <p>9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.</p>		



Number of participants joining projects/programs on sustainability.

Unit	Number of participants joining projects/programs on sustainability.		
Source	Unavailable	Regularity of calculation	
Calculation methodology	The report is unavailable.		
SDG concerned	9 Build resilient infrastructure, promote sustainable industrialization and foster innovation		
Target concerned	<p>9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.</p> <p>9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry's share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries.</p> <p>9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.</p>		



Customer satisfaction of participants joining projects/programs on sustainability

Unit	Customer satisfaction		
Source	Unavailable	Regularity of calculation	
Calculation methodology	The report is unavailable.		
SDG concerned	9 Build resilient infrastructure, promote sustainable industrialization and foster innovation		
Target concerned	<p>9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.</p> <p>9.2 Promote inclusive and sustainable industrialization and, by 2030, significantly raise industry’s share of employment and gross domestic product, in line with national circumstances, and double its share in least developed countries.</p> <p>9.4 By 2030, upgrade infrastructure and retrofit industries to make them sustainable, with increased resource-use efficiency and greater adoption of clean and environmentally sound technologies and industrial processes, with all countries taking action in accordance with their respective capabilities.</p>		