Programme today:

9.00 Welcoming speeches

9. 45 Can entrepreneurship change the world?

10.00 Aalto climate anxiety groups

10.30 Workshops

11.30 Lunch & Climate Challenge

filming

12.30 What makes me happy?

12.45 Arts-based, multidisciplinary teaching

13.45 Co-teaching & ethics panel

14.30 Coffee break & Climate

Challenge filming

15.00 Aalto showcases

16.15 Aalto Online Learning

16.35 Wrap Up exercise

16.45 Closing of day 1

17.00 Campus tours

18.00 Dinner at Fat Lizard





























Tvättstugan & SDG labels in Aalto's course palette *Meri Löyttyniemi*Senior Advisor, Sustainability





























Tvättstugan – Integrating SD into teaching

- Dec 2018 in Helsinki/Espoo for UH & Aalto faculty
- Pre-assignments, 2 intensive days, reflection
- Giving skills & knowledge to integrate sustainability in your own course, in any discipline
- KTH mainly responsible for the content (assoc.prof. Anders Rosén and lecturer Monika Olsson), based on their own course for KTH academic staff since 2014
- 15+15 academic participants, 10 admin from UH+ Aalto
- UH HELSUS, HYPE and Aalto ASH with LES as organisers
- Continuation within Aalto to be developed



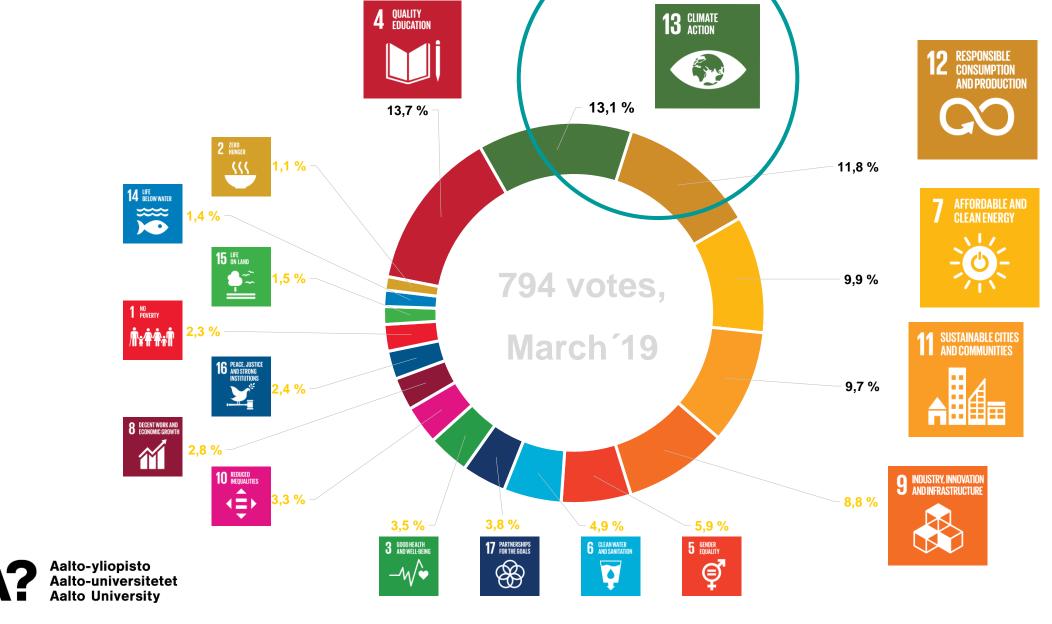




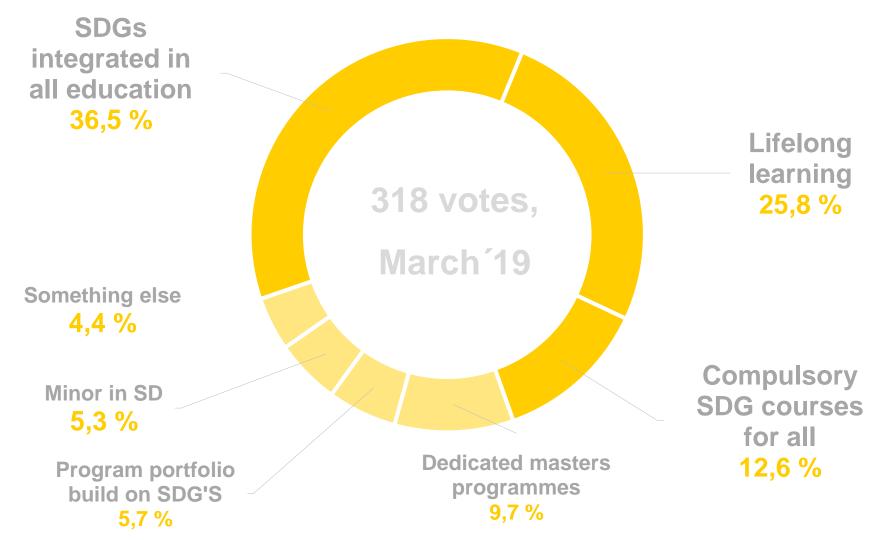




Staff vote on most relevant SDGs for Aalto's research



Staff vote on focus areas of Aalto's education





SDG course labels introduced

- Development process by Sustainability Hub, Learning services and ITS since 2018
- All Aalto courses (~3000) are asked to pinpoint 1-3 SDGs that are most relevant in the course
- This classification is done by course leaders & coordinators (deadline mid-Feb´20), for courses 2020-22





Curriculum 2020-2022

- Supported browsers: Chrome and Firefox. No mobile use. Don't use MS Edge or Safari!
- Almost completed! Only ARTS and LC are still working with course descriptions. Latest edits for study events
 allowed until Fri 28th of Feb (only with some schools).
- **Teacher in charge**, proceed to update your course information, like **descriptions and schedule** to the **"Courses"** page See also: Brief guidelines for teachers.
- NB! When teacher in charge opens first time course description or study event page, Planner asks to "Allow notification Please, accept. After this you will get informed, if you have left session open and it's going to expire.
- NB! When creating a new course, see instructions from code's tool tip. New fake code should be individual (no xxxx)
- <u>aalto.fi/en/sustainability/strategic-focus-areas-of-courses</u>; guidelines for SDG labels
- <u>curriculum.aalto.fi</u> for planning
- <u>courses.aalto.fi</u> for browsing course content

Aalto courses 2020-22

Selected "YES" for SDG: 1424 (46.84%)

Selected "NO" for SDG: 1491 (49.05%)

Did not specify SDG: 125 (4.11%)

Goal Distribution			
SDG#	Name	Count	Percentage
11	Sustainable cities and communities	451	10.5%
9	Industry, innovation and infrastructure	658	15.32%
12	Responsible consumption and production	474	11.04%
13	Climate action	359	8.36%
15	Life on land	197	4.59%
4	Quality education	294	6.85%
10	Reduced inequalities	219	5.1%
6	Clean water and sanitation	110	2.56%
7	Affordable and clean energy	251	5.85%
1	No poverty	82	1.91%
3	Good health and well-being	179	4.17%
17	Partnerships for the goals	179	4.17%
5	Gender equality	226	5.26%
8	Decent work and economic growth	362	8.43%
14	Life below water	81	1.89%
16	Peace, justice and strong institutions	129	3 %
2	Zero hunger	43	1%
	Total	4294	100 %

curriculum.aalto.fi aalto.fi/SDG

SDG Stats

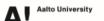
All 6 Aalto schools

Total course count: 3040

Sustainability Report of Aalto University 2018 ISCN-GULF

Sustainable Campus Charter Report

Results will be published in spring 2020



#AaltoSDG

A mobile solution now in use

Project partners:

Aalto ITS & Sustainability Hub with ACRE and AYY.

Goal:

Making Aalto University's SDG work visible and more impactful

- to all Aalto people & partners, covering all SDGs (17)
- inspiring individuals to make everyday sustainable choices
- utilizing Aalto data assets, supporting mobile digital lifestyle
- Also anyone outside Aalto can use it

Video (1min 46s): youtube.com/watch?v=5HCXCl23OCM&feature=youtu.be



Launched in Aalto 10 years party Jan 2020

Monthly themes, weekly actions, sustainable future!

aalto.fi/SDG



Aalto Sustainability Hub

aalto.fi/en/sustainability/education-for-sustainability aalto.fi/SDG





Meri Löyttyniemi, Senior advisor for sustainability Aalto Research Services, PB 31000, 00076 Aalto meri.loyttyniemi@aalto.fi, +358 50 313 7549

































A multidisciplinary learning platform

Design (ARTS)
Management (BIZ)
Chemical engineering (CHEM)

Learning outcomes:

- Multidisciplinarity
- Systems approach
- Design thinking
- Sustainability innovation
- Materials for sustinability
- Sustainability Management



CS story

Minor studies in sustainability

Master program in Creative Sustainability

Early 2000 2010

Research

- CESR
- NODUS
- YTK

Aalto University merger 2011

University level seed funding

Precarious teaching arrangements

2015

Recruitments at departments

Shared courses at departments

2019-2020

Architecture and Real estate leave, CHEM joins.

Teachers who are / have involved

BUSINESS



Leena Lankoski



Minna Halme



Samuli Patala



Jouni Juntunen



Patrick Shulist

DESIGN



Mikko Jalas



Idil Gaziulusoy



Ramia Mazé



Tatu Marttila



Eeva Berglund



CHEM
Mark Hughes



ARCHITECTURE

Matti Kuittinen



ENG Kauko Viitanen



Katri-Liisa Pulkkinen



Matleena Muhonen

Aalto University

+ more in all three schools

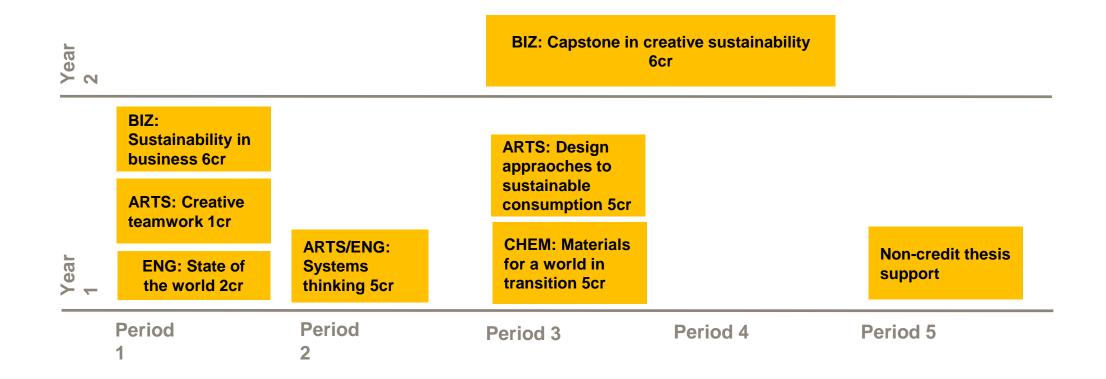
Admissions / Starting Students in 2018

- 3 Architecture
- 🕴 15 Design
- 11 Business
- * 8 Engineering



+15 students accepted for CS minor

CS Common Curricula (30ECTS)



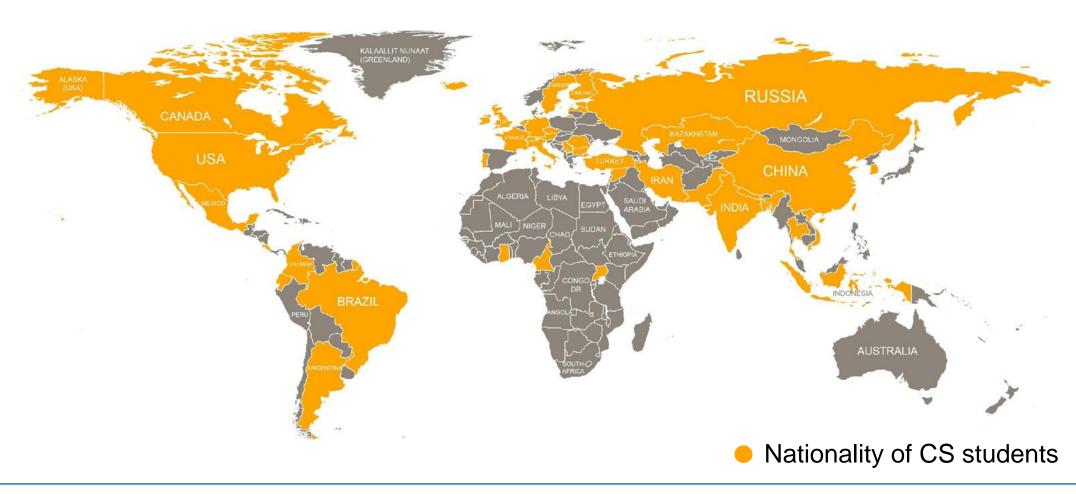


Why did current students choose Creative Sustainability?

resonated with my values • contemporary field • good career options • really interested in the themes • a new direction for my career • more meaningful • positive impact • unique opportunity • excellent reputation • "cool" vibe • broad learning of sustainability • multidisciplinary education • freedom to choose • spoke with an alumni who was happy with it • experimental but still one foot on the ground • systemic take on sustainability • international • creative approach • flexible choice of courses • lots of opportunities • the atmosphere of the school and its popularity • engaging students in real projects • didn't sound commercial or unreliable • a friend's good experience

(cohorts 2017 and 2018)

Where do CS students come from?





Professional orientation – Where do our alumni work?



Manufacturing and construction Skaturos aroutin organisations Managament consultancy Design architecture agencies Public administration tinance and asset management Public relations Other service Disinesses Social microsenterorises Grassroots movements Mater dos organisations Interest groups and lobby Sustainability consultancy Media and publishing Academia and trink tanks Policy makers tredancers



cities

Alumni Survey 2018-19 Results

Professional

Changing the corporate world toward sustainability

Manufacturing and construction Finance and asset management Other Service businesses Initiating changes and connecting people around sustainability

Start-ups Growth Organisation Social micro-enterprises Grass-roots movements Freelancers Providing advise for sustainability and creating sustainable solutions

Management consultancy Design/ Architecture agencies Sustainability Consultancy Creating and communicating knowledge and sustainability

Public relations
International NGOs
Watch dog organisations
Interest groups and Lobby
Media and publishing
Academia
Think tanks

Shaping policies for sustainable development

Public Administration Policy Makers Cities

Relevancy of CS Studies



4.5







Alumni Job Titles

Management Assistant |

LEED Project Management I

Business Analyst I

Entrepreneur IIII

Freelancer II

Architect I

Design Management I

Service Designer I

UX Designer II

Consultant (Strategic) I

Consultant (Comms & design) I

Consultant (Sustainability) I

PhD candidate #ff

Lecturer I

Consultant (Think Tank) II

Project manager (UN) I

Project lead (city) |

City Planner I

Lead Designer (city) I

Service Design Coach (Municipality) I



Sustainable Global Technologies

SGT Focuses on challenge / problem based learning, sustainability and technologies in the developing context.

2018 student projects include: WatBus, Kenya, Up Plastic Kampala, Uganda, Nepali, Nepal and Aalto LAB Mexico.



SGT Case: Aalto Lab Mexico

The project involved:

Working with indeginous Mayan communities in rural Mexico

Partnering with local universities and NGOs

Adressing topics including
Water quality & sanitation
Eco-tourism services & facilities
Handicrafts and health



24



Capstone case: Familon

The project involved:

Collaborating with Familian, a well-known Finnish textile brand.

Creating new possible solutions for the reuse of used hotel beds.

Proposing a circular business model solution for Familon's hotel business.

Addressing topics including the circular economy, end of life and reuse.



"The Familon project ...gave me an invaluable opportunity to work with real clients, learn how to align stakeholders' needs, and cooperate in a multidisciplinary team to design a service that puts circular economy theory into practice."

Elizabeth Miller CS Business Alumni



News & Events

Ahtisaari Days at Aalto University

Created about 3 hours ago

ASH SEMINAR: New technologies and governance of circular economy systems

Last updated about 3 hours ago

Test Site Building Day 27.10

Last updated 11 days ago

NODUS Talks – Tiny Houses: Fair Living?

Last updated 18 days ago

Responsible Organising Conference #2-Let's Rethink Society!

Last updated about a month ago

CS Experience



Participatory Methods and Facilitation Skills 2018

Last updated 5 days ago



Sustainability in Business 2018

Last updated 6 days ago



Aalto Sustainability Hub

Last updated 18 days ago



Creative Teamwork 2018
Last updated about a month ago













Thesis samples - Design

- A Public Toilet a Window to Values and Wellbeing of Society
- Journey of Jerrycan: Sustainable Local Product Design Development for SMEs Designers: A Case study from Kampala, Uganda
- Awareness and Participation towards Encouraging Sustainable Urban Water Management: A Case Study of the Jakkur Lake, Bangalore
- My Dear Kitchen in Helsinki: Explorations on a Community of Practice Using Food, Cooking and Blogging
- Facilitating Climate Transition: Co-designing future scenarios and pathways to build capacity for change among citizens and policy makers
- Perceiving eco-labels as sustainability brands: The role of visual design and co-branding in credibility of eco-labels
- Insect economy and marketing: How much and in what way could insects be shown in packaging?
- Where UX and Sustainability meet. Facilitating eco-behaviour in cruise ship cabins:
 A guideline for Experience Designers

Thesis samples - Business

- User driven open innovation policy in theory and practice: A case study
- Internationalization of Finnish renewable energy SMEs to Africa: Challenges and suggestions from the support network
- Different understandings of corporate social responsibility: A case study among investors and middle managers
- Local frugal innovations: How do resource-scarce innovations emerge in India?
- Creating a market for a more sustainable alternative: entomophagy businesses in Europe
- The societal impact of governmental voluntary sustainable development programs: Case "the Commitment 2050"
- Living off garbage Waste picker institutions in Brazil through the lens of Elinor Ostrom's principles for governance of common-pool resources































EIT Climate-KIC Master Label Program

Empowering and building capacity so that innovation can be climate action





Hsiao-Pei Liao Mar 2, 2020

What is EIT Climate-KIC?

- A Knowledge and Innovation Community (KIC)
- transition to a zero-carbon economy
- support innovation for climate action

Master Label Program

- adds extra value to selected master degree programmes
- creates solutions for climate change mitigation and adaptation.





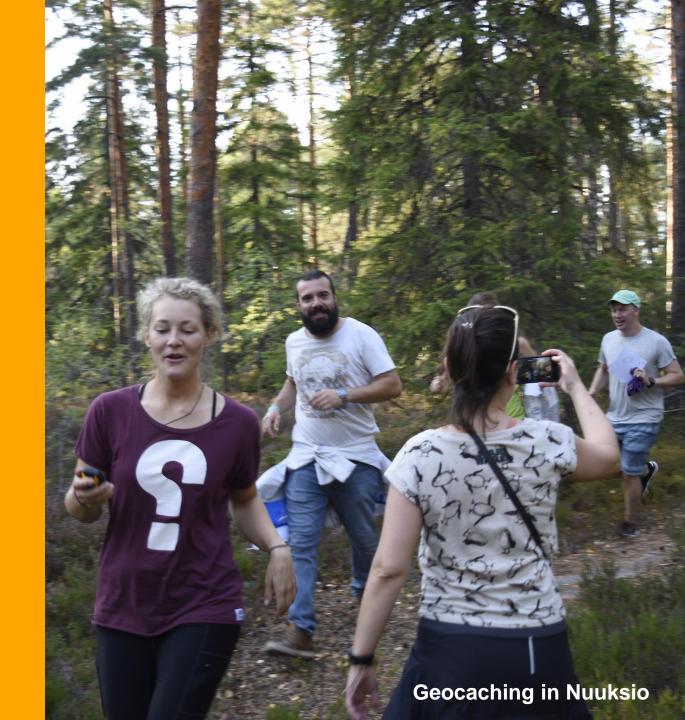
Summer Journey

Europe's largest summer school for innovation and entrepreneurship to address climate change.

- 300 students per year
- 3 destinations per journey
- 40 different countries

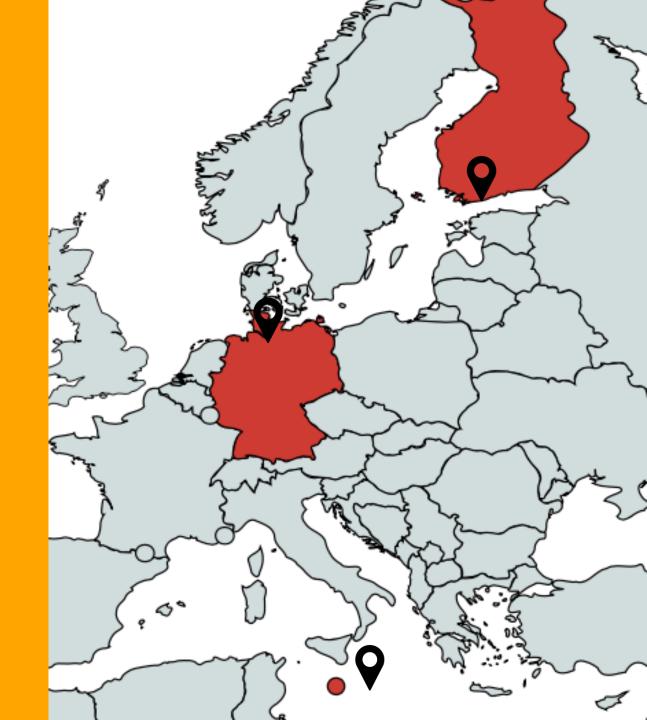






2018 SUMMER JOURNEY

Hamburg-Helsinki-Malta





Hamburg

Climate Sciences





Helsinki Aalto University

Entrepreneurship





Malta

Pitch competition









Innovation for Climate Action













aalto.fi





Aalto Ventures Program – Entrepreneurship education and SDGs Lauri Järvilehto Professor of Practice and AVP Codirector



























Startup's Solving **SDGs**

Lauri Järvilehto, PhD Professor of Practice Co-Director, Aalto Ventures Program



Aalto Program

Ventures

Learn to build like an entrepreneur



Startup Dynamics

PROBLEM

PRODUCT

MARKET

SCALE



Startup Dynamics

PROBLEM

PRODUCT

MARKET

SCALE



SUSTAINABLE GALS





























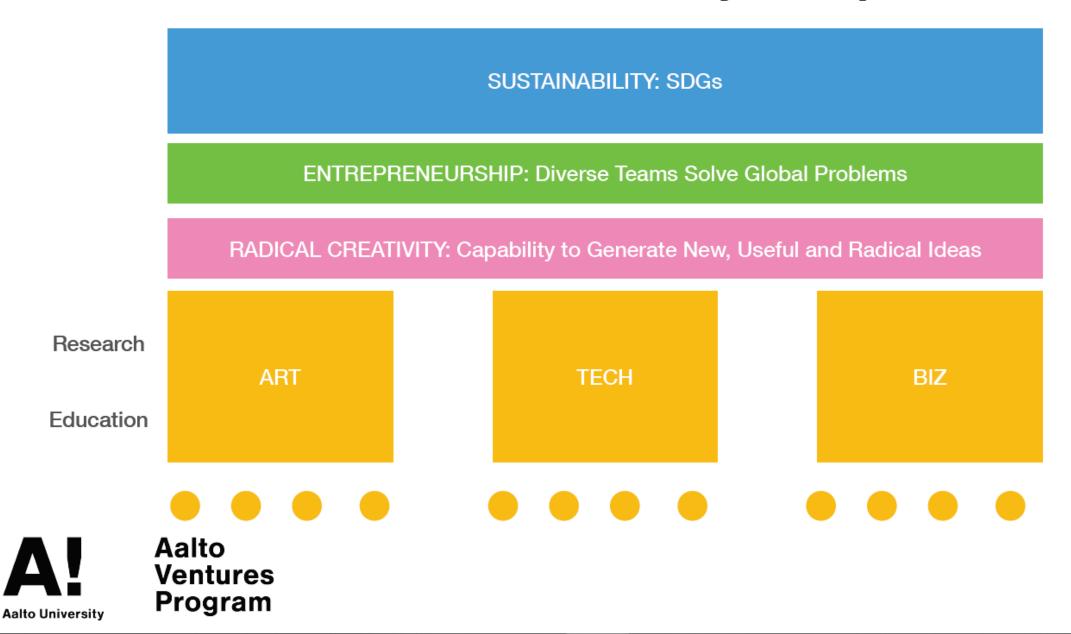




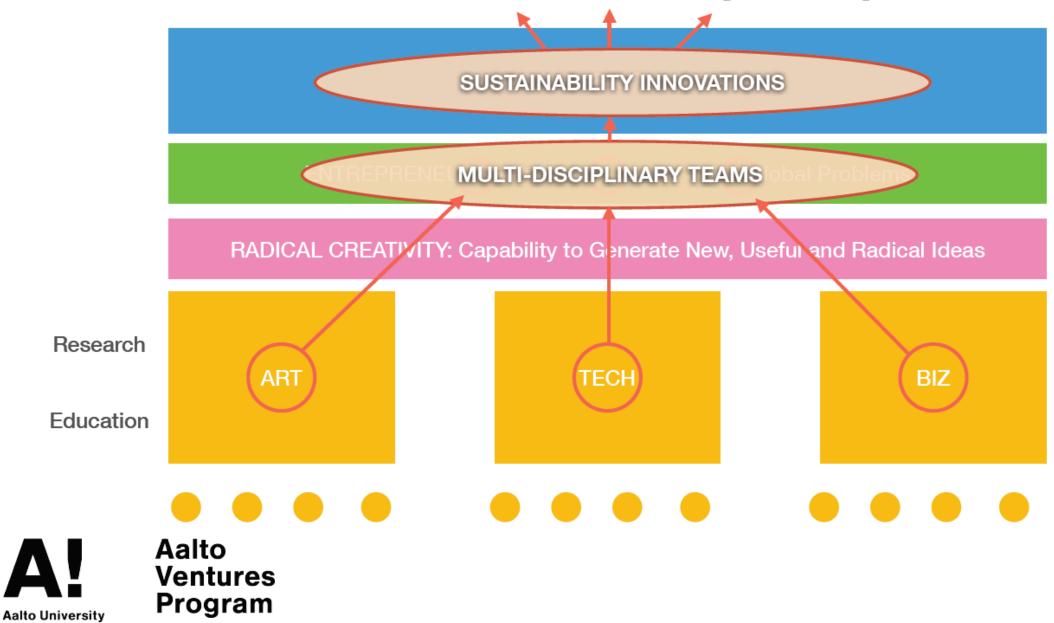




Aalto Sustainability & Impact



Aalto Sustainability & Impact



Aalto Ventures Program

STAKEHOLDER INTERFACES

STARTUP COURSES

INTEGRATION IN AALTO SCHOOLS



Aalto Ventures Program

SDG FOCUS

STAKEHOLDER INTERFACES: STARTUPS AND INNOVATIONS

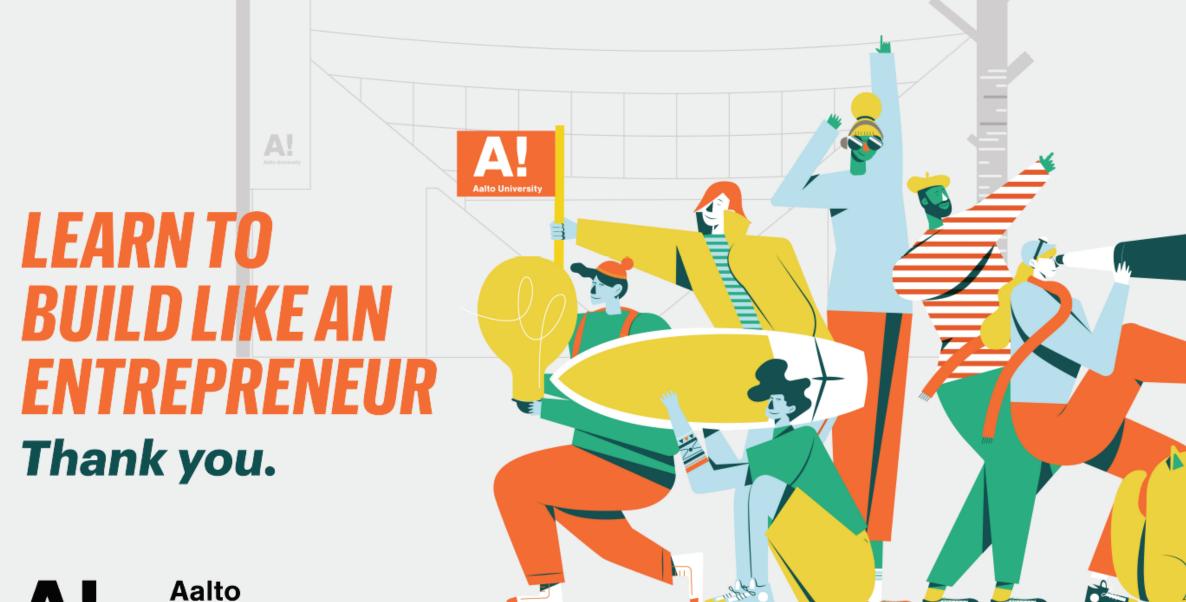
SDG FOCUS

STARTUP COURSES: ENTREPRENEURIAL CAPABILITIES

SDG FOCUS

INTEGRATION IN AALTO SCHOOLS: ENTREPRENEURIAL MINDSET







Sustainability Literacy Test Meeri Karvinen Doctoral Candidate and University Teacher

























Sulitest

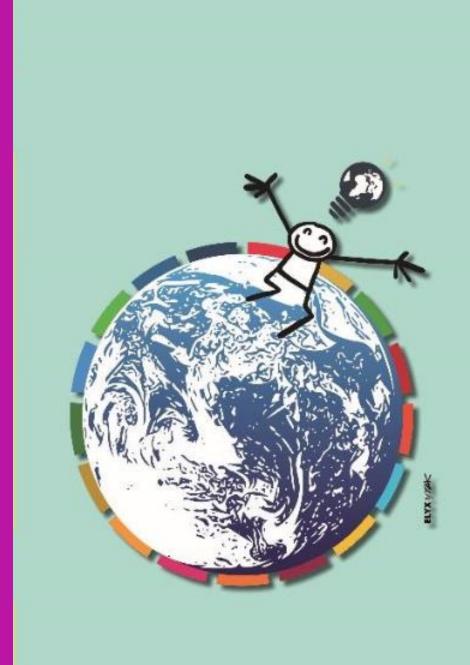
Raising awareness on sustainability & SDGs

Meeri Karvinen

meeri.karvinen@aalto.fi

Climate University Seminar Otaniemi 2.3.2020

Aalto University School of Engineering











The sustainability literacy test

The first international tool to



- **Since 2013**
- 48 countries
- 431 universities
- 43740 tests























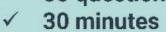


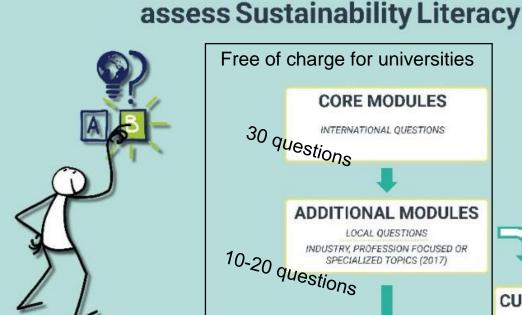






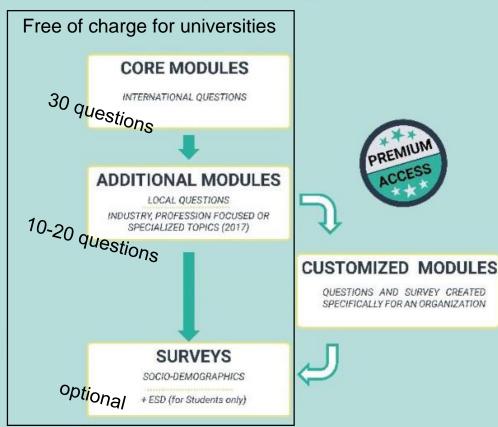






Tangible implementation of

50 questions





The Nordic Project 2015-2017



Created national modules for Nordic countries (min 20 questions) & piloted with students

Key findings:

- Age and basic awareness affect the scores
- The level of questions varies
- Comparing scores between cohorts difficult
- → Not the best tool for assessing the sustainability contents of curricula, or for comparative purposes



However,

- The Sulitest includes a comprehensive set of different aspects of sustainability, with references and declaring comments
- It is easy to use, adjustable (different modules) and widely used
- Students considered the test as eye-opening experience
- → Beneficial tool for introducing students to sustainability, "the world's current situation", and as a pre-post test in a course
- → Offers a common framework for introducing varying reasons behind unsustainability and to learn scales and factual knowledge
 - → A starting point to "How our discipline can contribute to sustainability"



Want to try the test?

Demo test created for Climate University participants, includes:

- Core International module, 30 questions
- Finnish-Nordic module, 20 questions
- SDG 7-module, 10 questions
- Background survey

Create an account → My account & sessions → Add session → Enter session code

www.sulitest.org

Session Code: 2FB3-B6E2-8CD1

Session Name: Climate University Aalto 2.3.2020

Valid: March 2nd – March 8th 23.55



Example of a question

The Nordic Ecolabel,"The Swan", is a voluntary ecolabelling scheme that evaluates a product's impact on the environment throughout its whole life cycle. In 2015, over 90% of the Nordic consumers recognized the label, and it is also appreciated among the consumers.

Which of the following is NOT considered in the life-cycle perspective used in the criteria of the Nordic Ecolabel:

- A. Source of raw materials
- B. Hazardous effluents
- C. Green investments
- D. Water usage



Explanation after anwering

Green investments is not included in the criteria of Swan-labelled products. The 1989 created Nordic Ecolabel has a life-cycle perspective, which considers several ecologically important environmental issues in the development of the criteria for the ecolabel:

Energy usage, Climate aspects, Biodiversity, Water usage, Source of raw materials, Use of chemicals, Hazardous effluents, Packaging and Waste.

Sources:

- 1. https://issuu.com/svanen123/docs/nordic_ecolabeling_annual_report, pages 5-6
- 2. http://www.nordic-ecolabel.org/CmsGlobal/Downloads/Ecolabelling%20Steps%20towards%20Sustainability.pdf page 13
- 3. http://www.nordic-ecolabel.org/about/the-mission/



Aalto Online Learning experiences and best practices Tomi Kauppinen Project Manager and Academic Coordinator



























Slides available at

https://onlinelearning.aalto.fi/slides/climate-seminar-2020/



Start. Stop. Continue. Change. - Wrap Up exercise: top takeaways of the day *Angelina Korsunova*Postdoctoral researcher, HELSUS































START-STOP-CONTINUE-CHANGE

- debriefing

Angelina Korsunova, University of Helsinki angelina.korsunova@helsinki.fi

Based on the learnings of today...

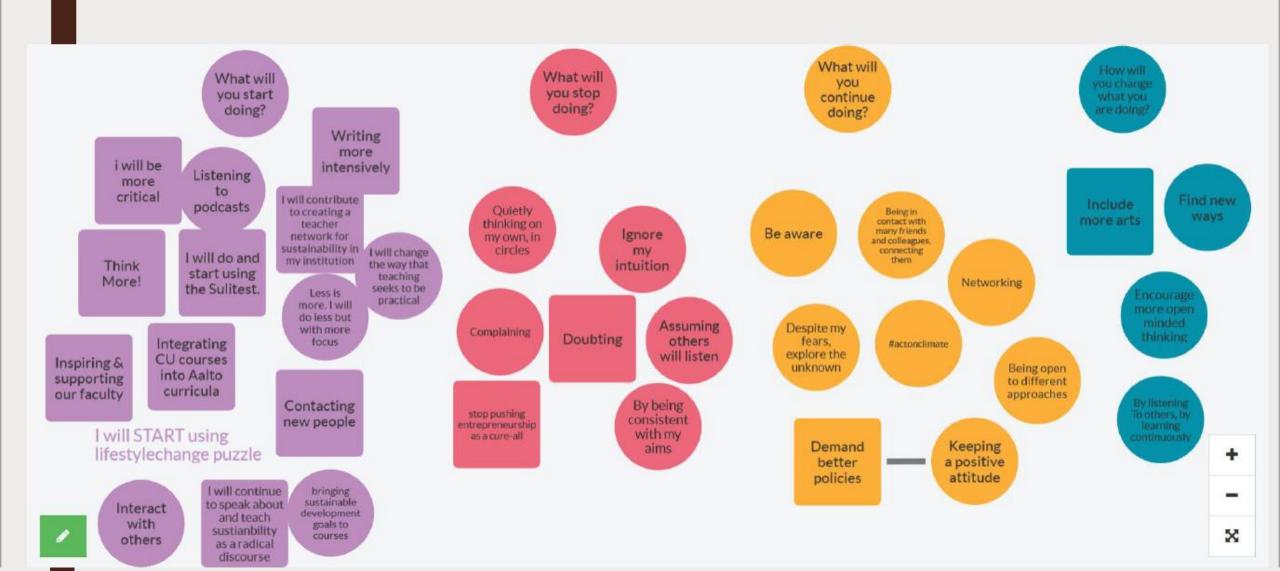
- What will you start doing?
- What will you stop doing?
- What will you continue doing?
- How will you change what you are doing?

Go to: flinga.fi

Access code: EZTWA5X

...once you're back to work

Flinga wrap up summary



CLIMATE UNIVERSITY
goes Otaniemi
2-3 March 2020

Thank you for joining "Innovations and Creativity in Climate Education" seminar

Aalto-yliopisto
Aalto-universitete
Aalto University

Aalto Sustainability Hub

























CAMPUS TOURS 17.00

1: Energy on Campus, augmented reality and visit to Test site

2: Learning by experimenting and co-creation, visit to Aalto Design Factory

3: Lab visit: loncell-fibre from cellulose

4: Lab visit: Solar cell research by New Energy Technologies group

