

THE GREEN TRANSITION

- Ignite your engines of innovation!

Mikkel Trym
Lead of Entrepreneurship
EIT Climate-KIC



EIT Climate-KIC is supported by the
EIT, a body of the European Union



TOPICS

THE GREEN TRANSITION – Engines of innovation!

The role of HEIs in the transition engine

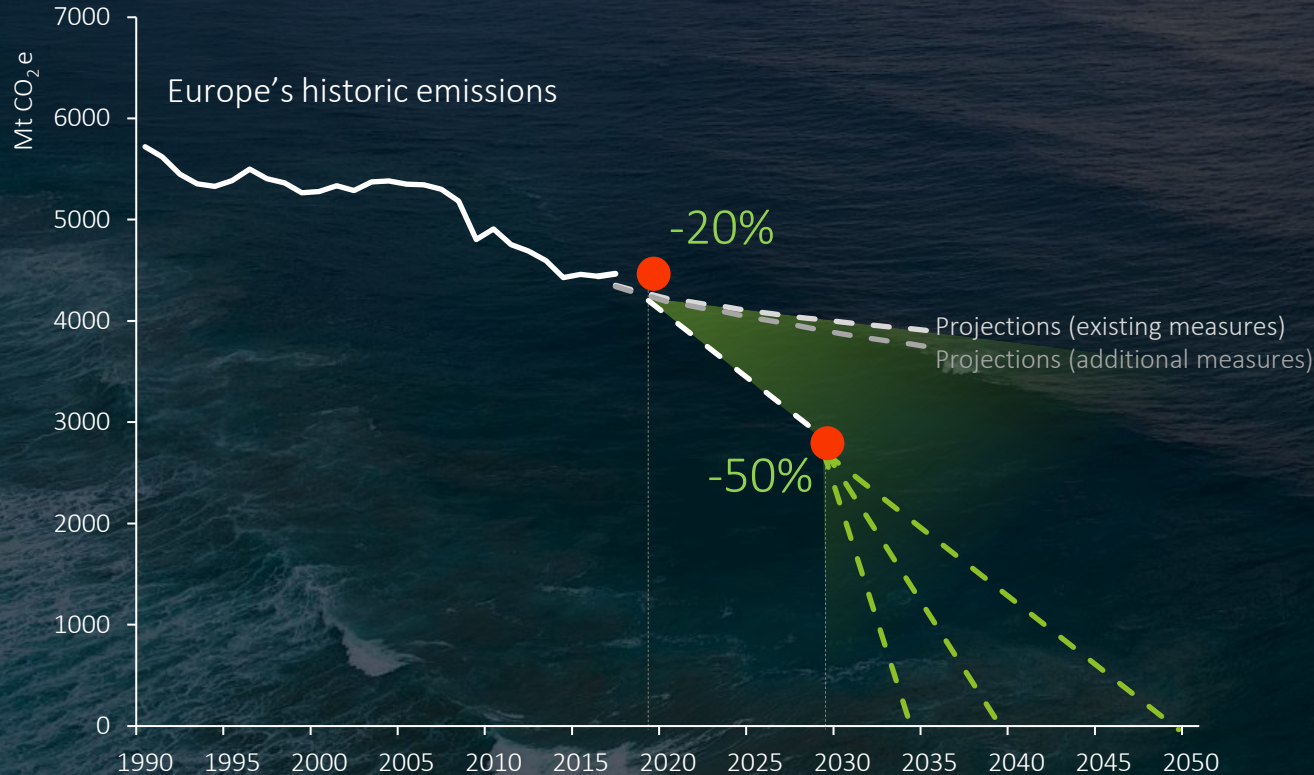
Using HEInnovate to ignite a process of change

Measuring climate impact in venture creation

The Green Transition - as engines of innovation!

Climate emergency is here and demand is growing for climate action and **impact** that matches the scale and urgency of the challenge

Current innovation model and investment logic are not delivering a 1.5 degree world



Source: <https://www.eea.europa.eu/data-and-maps/indicators/greenhouse-gas-emission-trends-6/assessment-2>

Achieving net zero in time means decarbonising at least **6 x faster** than the global average.

2040 is the higher probability scenario in the IPCC Special Report: Global Warming of 1.5 °C (SR1.5), 2018

On top of this, the easy stuff is done.
What lies ahead is unprecedented and far more difficult.

In Europe, additional investment of

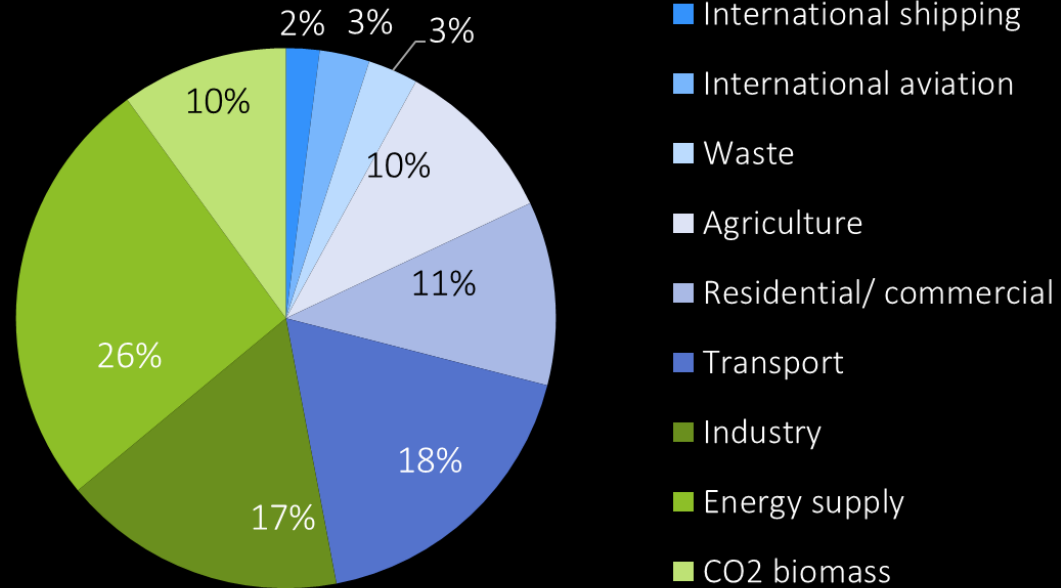
€175-290 billion per year

is needed to decarbonise:

- industrial processes and products
- agriculture, land use and forestry
- waste management and other sectors

EC Strategy 2050, 2019

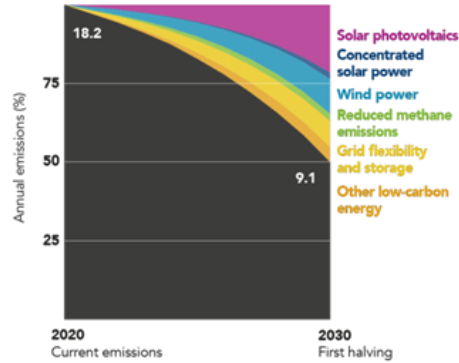
EU 28 GHG emissions by sector, 2015



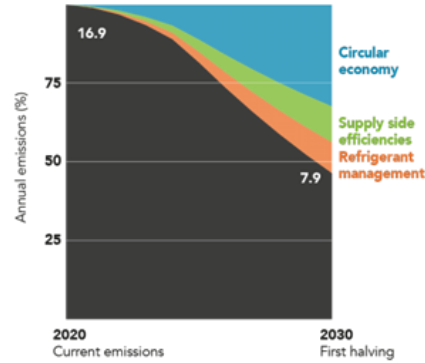
Source

Exponential climate action roadmaps

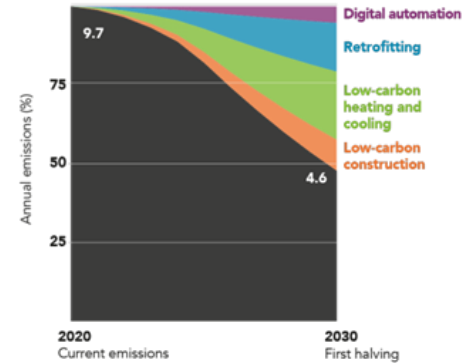
ENERGY SUPPLY



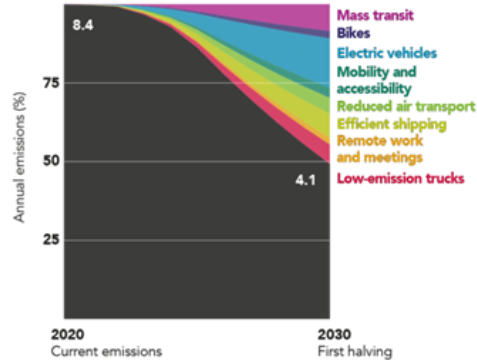
INDUSTRY



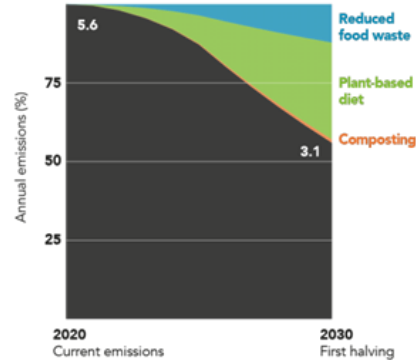
BUILDINGS



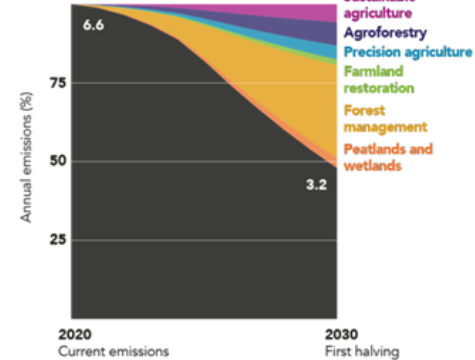
TRANSPORT



FOOD CONSUMPTION

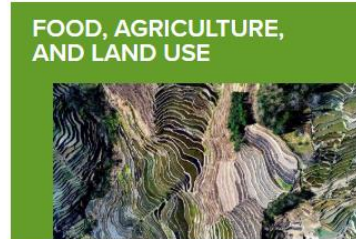


AGRICULTURE AND FORESTRY



Climate Solution by Sector

Within each of these sectors are solutions to climate change with actions that can be taken today.





Healthy,
Clean Cities

Just
Transformations
of Heavy
Industry
Regions

Climate-friendly
Food Systems
and Diets

01

02

08

Deep
Demonstrations

03

Resilient, Net-
Zero-Emissions
Maritime Hubs

Landscapes as
Carbon Sinks

07

04

Circular,
Regenerative
Economies

05

Resilient
Regions

Long-termism

06

..... ● First wave ● Second wave

TOPICS

THE GREEN TRANSITION – Engines of innovation!

The role of HEIs in the transition engine

Using HEInnovate to ignite a process of change

Measuring climate impact in venture creation

The EIT Climate-KIC Partnership Community





Start-Ups

**Business skills
fast-track to
market,
partnerships
and investors**



**Corporates
& partners**

**Access to
talent, network
and high impact
innovation/
disruption**



Investors

**Deal flow of
emerging
impact
companies**

An exhibition booth for Higher Education Institutions (HEIs) featuring a rustic wooden interior with a fireplace, a digital screen, and large windows showing a snowy landscape. Two men are sitting on a wooden bench, talking. A large blue circular graphic is overlaid on the right side of the image.

HEIs

The logo for 'eit' (European Institute of Technology) is located on a wooden pillar. It consists of the letters 'eit' in a stylized font, with a green and blue circular graphic around them.

**Access to
resources,
networks,
demand, policy,
PR. Ignite
innovation!**

A large indoor event space, possibly a trade show or conference, with people sitting at tables. The scene is illuminated by various lights, including a prominent red hanging lantern and a blue jellyfish-shaped light fixture. The background shows a busy environment with other attendees and displays.

Consortium

Leveraging
potential of
large/small;
public/private,
regional/interna-
tional

TOPICS

THE GREEN TRANSITION – Engines of innovation!

The role of HEIs in the transition engine

Using HEInnovate to ignite a process of change

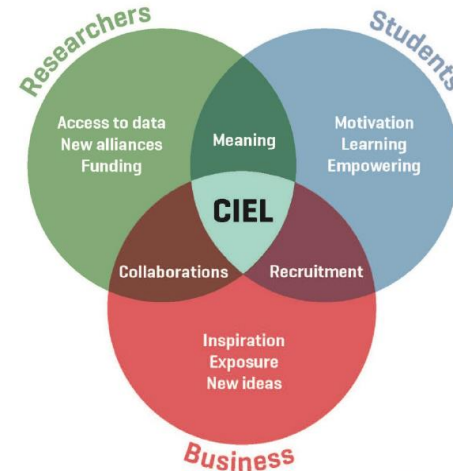
Measuring climate impact in venture creation

From an individual to collective perspective

Approach and stakeholder motivation

Creating effective impact and change through collaboration/partnerships:

- **Integration** of I&E within and across universities
- **Cross-disciplinary** collaboration
- **Industry-Academia** partnerships
- **International** – Best practice
Nordic School of Entrepreneurship



Leadership and Governance



Organisational Capacity: Funding, People and Incentives



Entrepreneurial Teaching and Learning



Preparing and Supporting Entrepreneurs



Digital Transformation and Capability



Knowledge Exchange and Collaboration



The Internationalised Institution



Measuring Impact

From a local to a regional perspective



○ ADVICE
 ○ CHALLENGE
 ○ NETWORK
 ○ FUNDING
 ○ OFFICES

THE STUDENT'S GUIDE TO ENTREPRENEURSHIP

Topological map of support, funding, networks and offices throughout the universities and City of Copenhagen



An international collaboration of grand challenges and SDGs

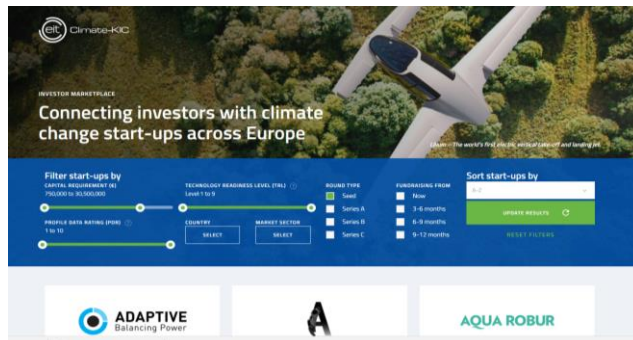


Students and entrepreneurship is key in changing culture



CLIMATE IMPACT BATTLE

Join the green business movement at Slush!



Climate-KIC
INVESTOR MARKETPLACE
Connecting investors with climate change start-ups across Europe

Filter start-ups by
CAPITAL REQUIREMENT (€)
250000 to 25000000

TECHNOLOGY READINESS LEVEL (TRL)
Lead 1 to 9

REGION TYPE
Global
Series A
Series B
Series C

PROSPECTING PERIOD
None
3-6 months
6-9 months
9-12 months

Sort start-ups by
UPDATE RESULTS
RESET FILTERS

ADAPTIVE
Balancing Power

A

AQUA ROBUR

TOPICS

THE GREEN TRANSITION – Engines of innovation!

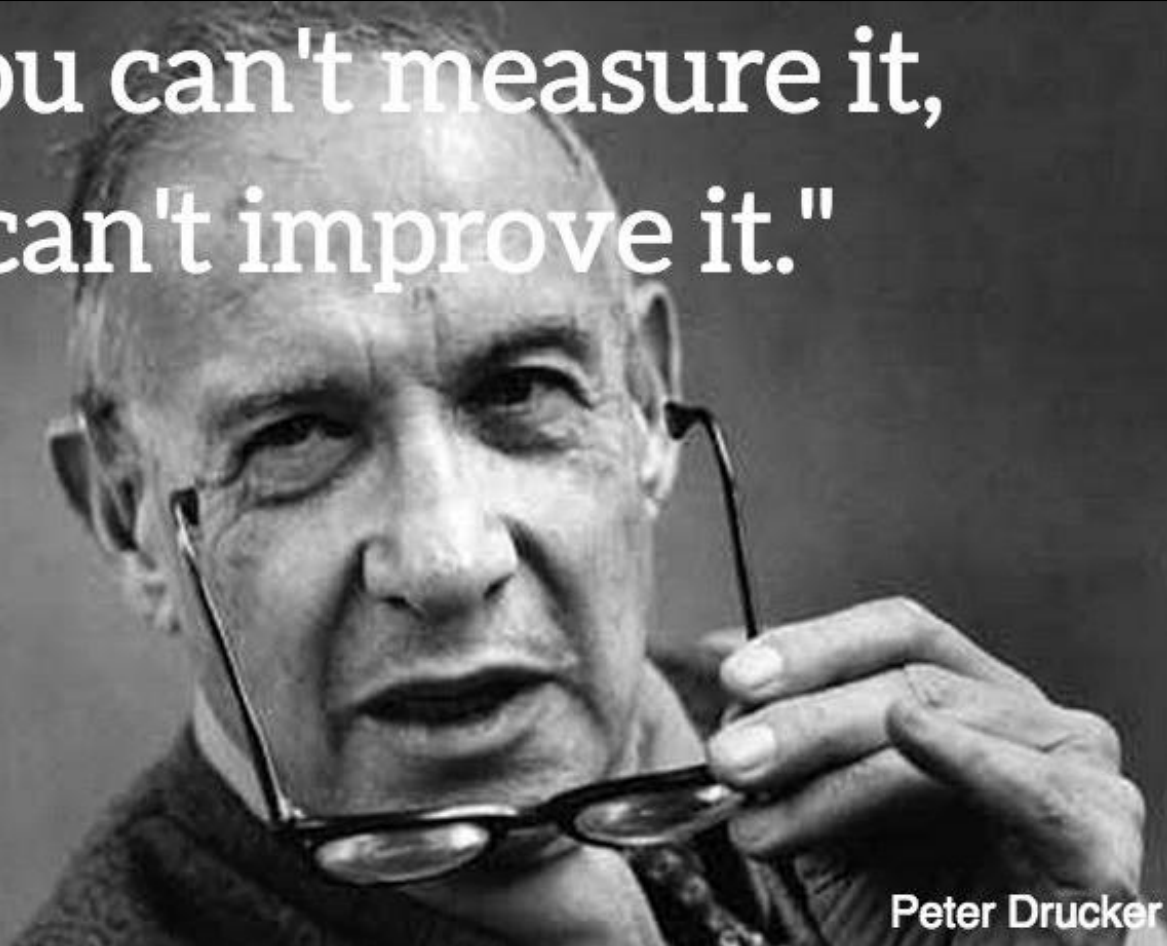
The role of HEIs in the transition engine

Using HEInnovate to ignite a process of change

Measuring climate impact in venture creation

Climate Impact

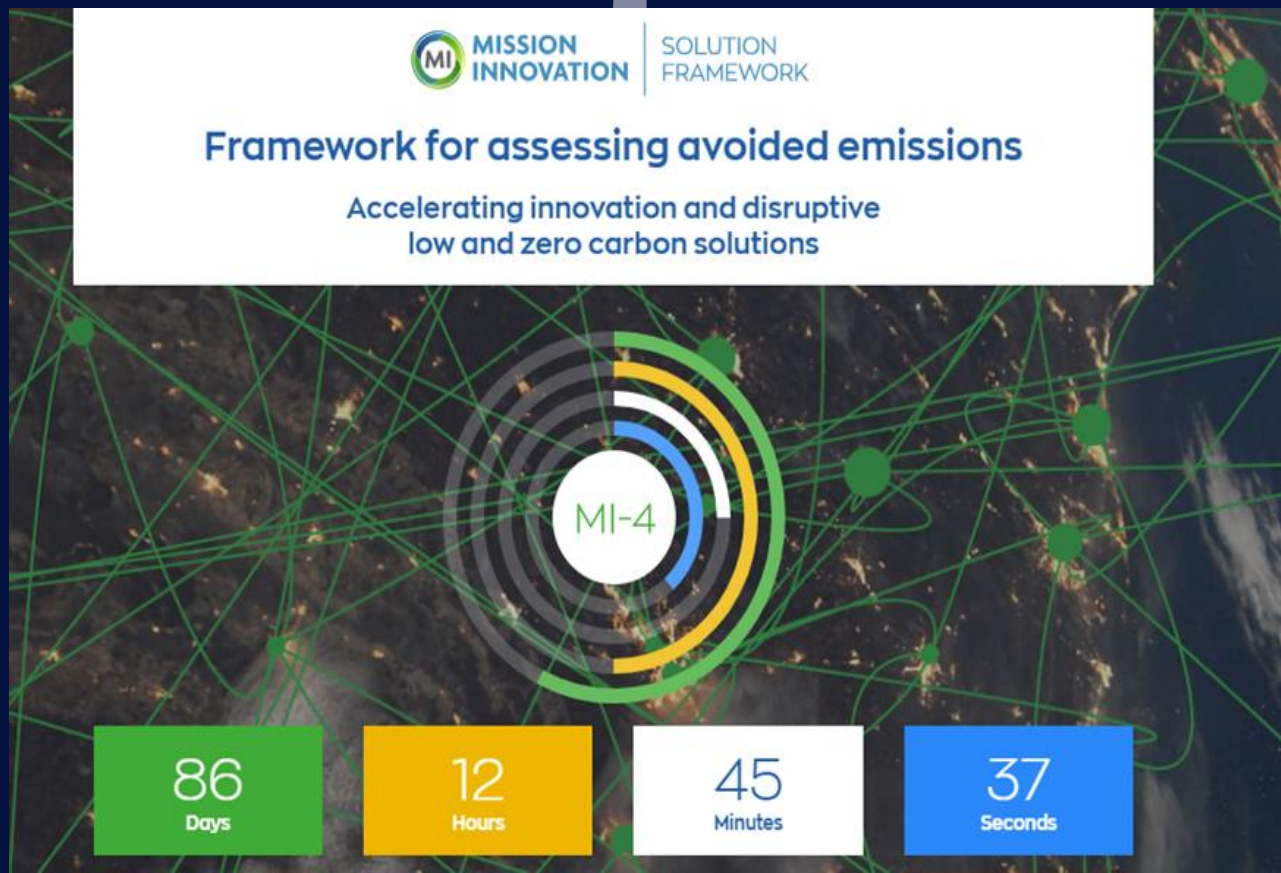
"If you can't measure it,
you can't improve it."

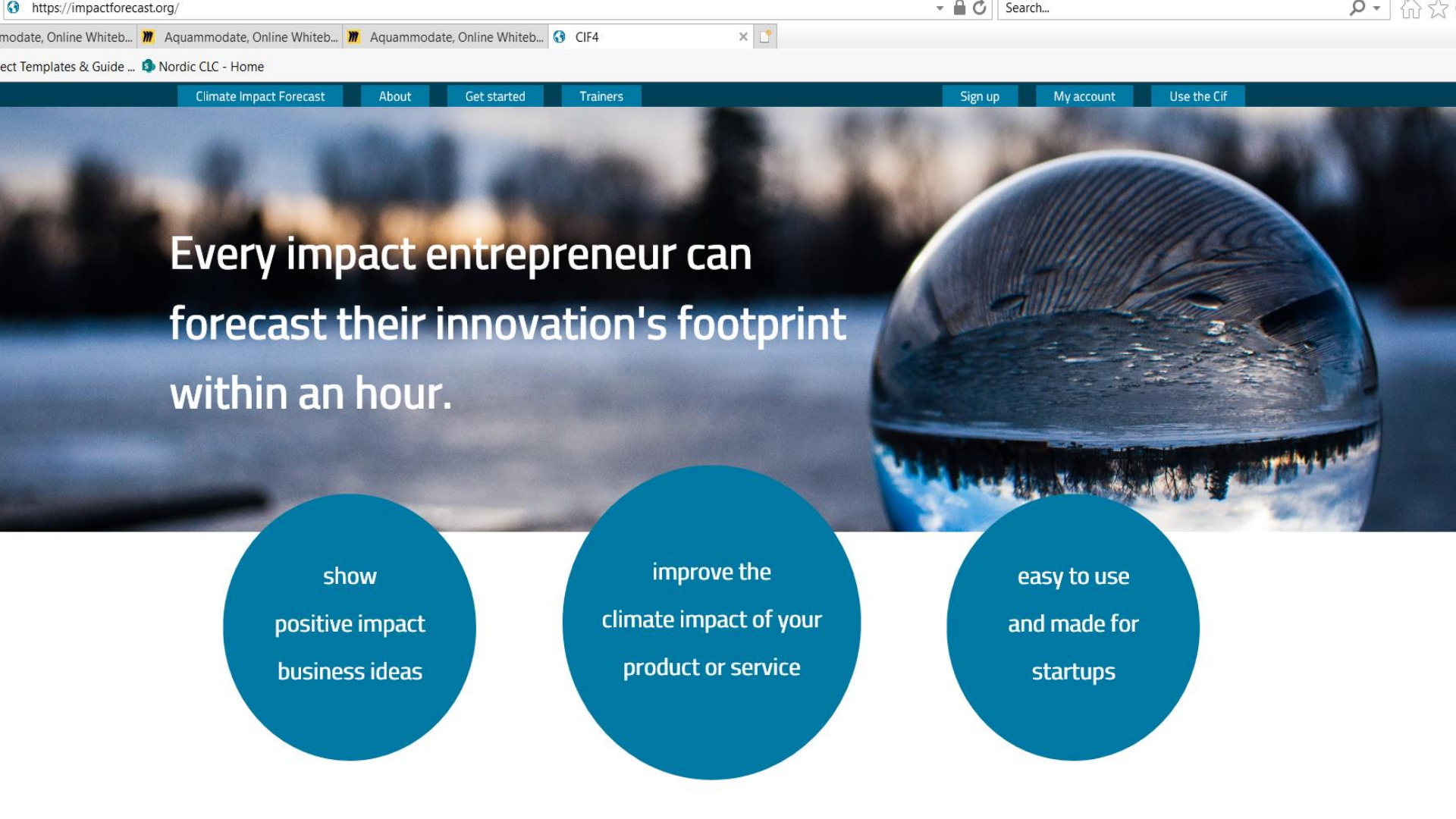


Peter Drucker

Impact Framework

Process
Methodology
Targets
CIF Tool





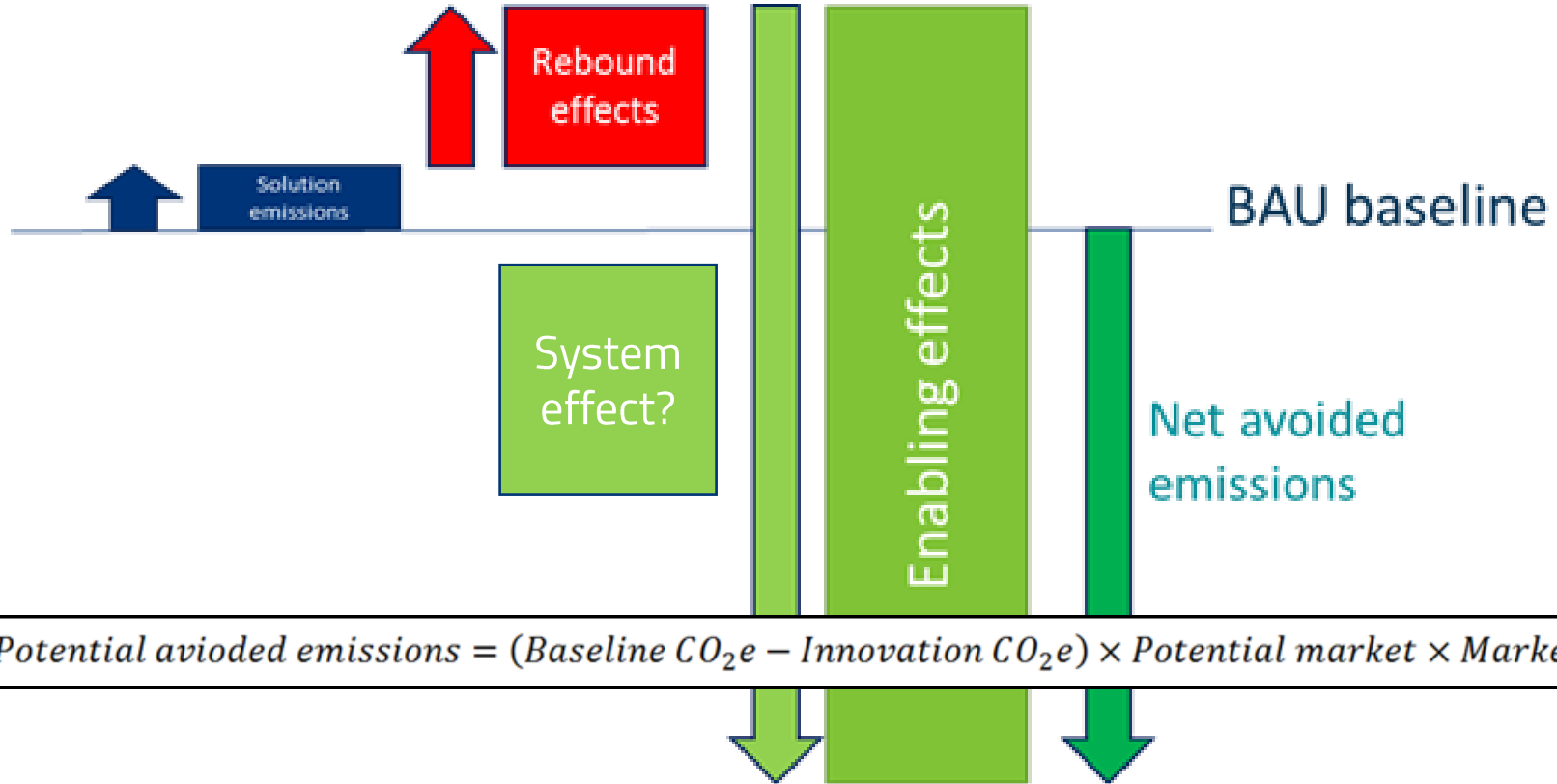
Every impact entrepreneur can forecast their innovation's footprint within an hour.

show positive impact business ideas

improve the climate impact of your product or service

easy to use and made for startups

How does an innovation lead to avoided emission?



Our start-up impact goals for 2020-22

2 Gt CO₂

impact potential identified
(5% of global emissions)

100.000t T

(0.1 Gt) climate impact
actuals measured

>€1bn

investment attracted
to start-ups

**Circular,
resilient and
net-zero**

**...through the
activation of**

...enabling

2.000+

Climate Impact
start-ups

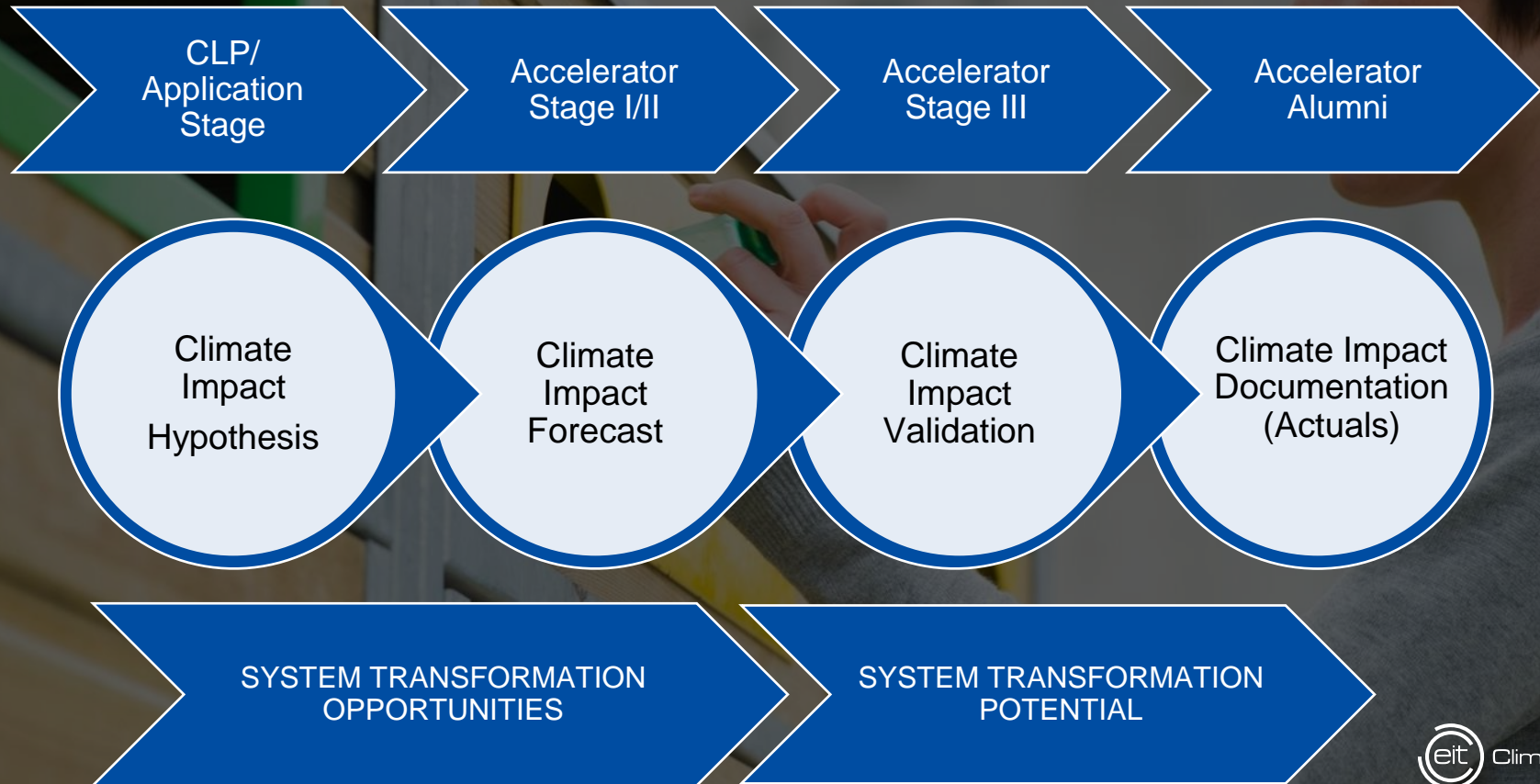
1.000+

Start-ups with impact
potential projection

X 10 impact

through replication and scaling

Climate Impact Progression



10 years of working with impact start-ups has taught us that the needed magnitude of impact requires a system innovation approach

Incremental

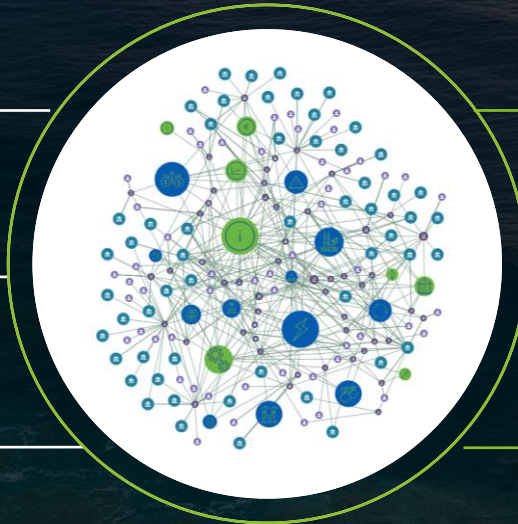
System innovation

Transformational

Broad coverage of climate impact solutions

Single start-up solutions incubated across European clusters

Startups as single point innovators



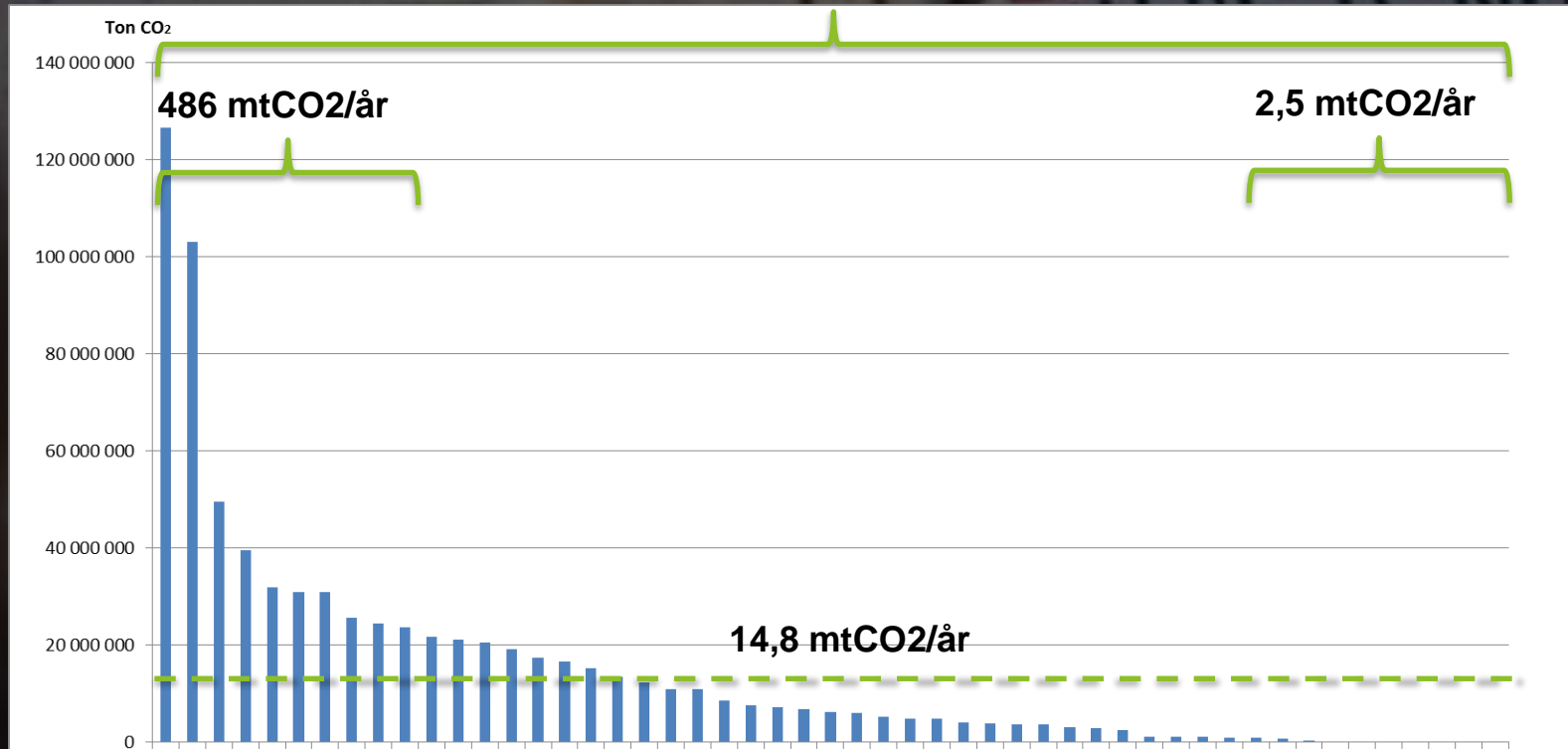
Focus on selected verticals and leverage points

Cross European portfolio of connected startups and demand owners

Entrepreneurs as agents of change in a system

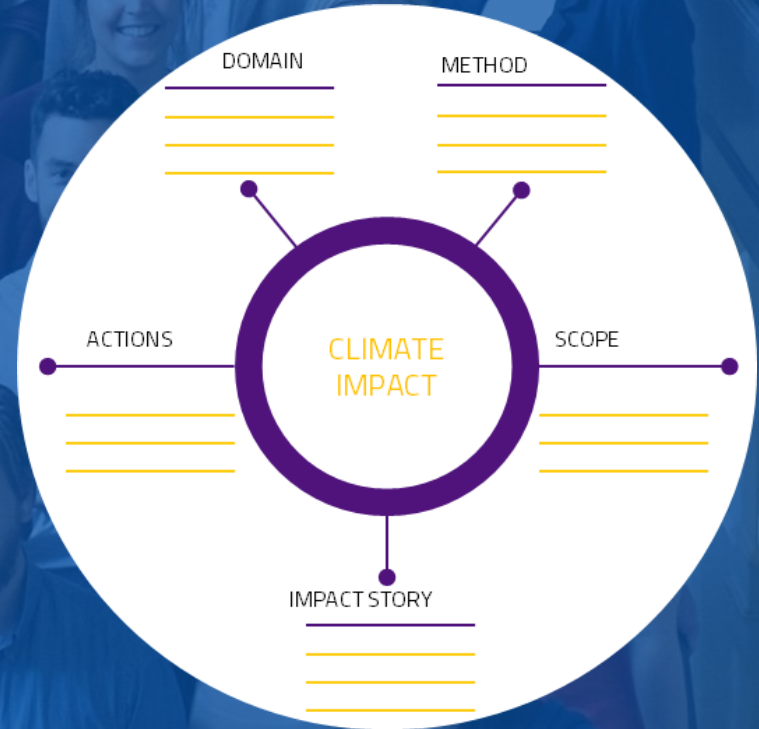
Why it is important

753 mtCO₂/år



Why do Climate Impact Assessments?

- Impact is not intuitive – sustainability is many things!
- Communication – your values create your value!
- Management – make the best decision and assess your progress!



QUESTIONS ?

The Green Transition foster engines of innovation!

HEIs can play a key role in a transition consortia

HEInnovate can support a wider process of HEI change

Measuring impact is important & getting easier

THANK YOU

Creating innovative initiatives for change

Mikkel Trym

mikkel@trym.dk

TEL +45 5180 1566