

Co-Developing the Future Vision for a Sustainable Europe Co-Designing the Pathways via Research-Innovation-Policy Interface

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Professor School of Economics, Athens University of Economics and Business
President-Elect, European Association of Environmental and Resource Economists
Fellow, World Academy of Art and Science

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- Director, Cluster on Sustainability Transition
 - Director, Sustainable Development Unit and EIT Climate KIC Hub Greece, ATHENA RC
 - Co-Chair, UN Sustainable Development Solutions Network (SDSN) Greece and EUROPE
 - Chair Scientific Advisory Board, European Forest Institute
 - Chair Scientific Advisory Board, International Center for Research for the Economy and the Environment, ICRE8
 - President of Climate Change Task Force, Green Cross International (GCI)
 - Commissioner, Lancet Commission for COVID 19 Recovery
 - Greek National Committee on Climate Change, Greek National Committee on 10-Development Plan

The Policy Framework

2015

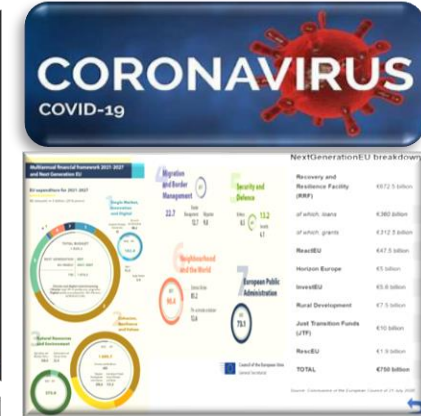
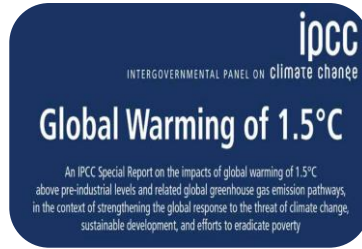
2015

2018

2019

Dec 2019

2020 ...



193 Countries

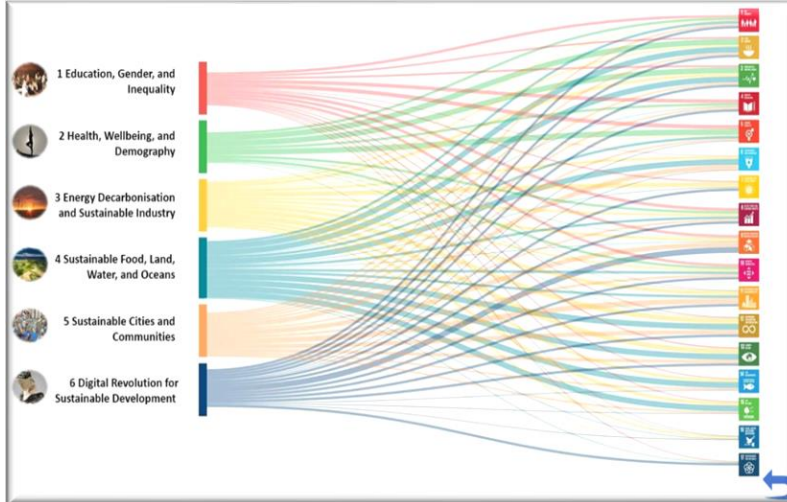
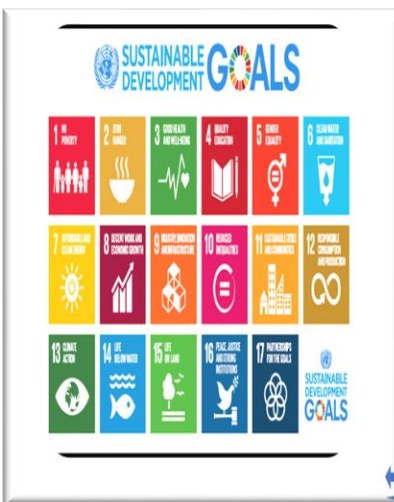
197 Countries

• Limiting global temperature to +1.5°C
 • Global CO2 to fall 45% from 2010 levels by 2030, reaching 'net zero' around 2050."

6 Major Transformations to achieve SDGs

17 SDGs

169 Targets



MS Leaders agree 55% emissions reduction by 2030



Mission: *“In Europe, over 300 members and 13 national and regional networks of SDSN are part of SDSN Europe, a common initiative that aims to align the European recovery with the Agenda 2030. Leveraging on the research within the networks as well as on the SDSN’s work on the Six Transformations and other publications, SDSN Europe will play an active role in the shaping of a sustainable and resilient Europe. ”*

Team:

- **Adolf Kloke-Lesch**, *Co-Chair of SDSN Europe, Executive Director of SDSN Germany*
- **Phoebe Koundouri**, *Co-Chair of SDSN Europe, Co-Chair of SDSN Greece*
- **Angelo Riccaboni**, *Co-Chair of SDSN Europe, Chair of SDSN Mediterranean*

- **María Cortés Puch**, *Vice-President of SDSN Networks Programme*
- **Simone Cresti**, *Manager SDSN Mediterranean*
- **Elena Crete**, *Manager Senior Working Group on the European Green Deal*
- **Barbara di Paola**, *SDSN Europe Communication Specialist*
- **Andrija Erac**, *SDSN Networks Manager*
- **Maria Lentoudi**, *SDSN Europe Manager*
- **Dominic Kranholdt**, *SDSN Europe Manager*
- **Theodoros Zachariadis**, *SDSN Europe Manager*





#EUGreenDeal Senior Working Group



#EUGreenDeal Senior Working Group

Jeffrey Sachs President UN SDSN

Phoebe Koundouri President-elect EAERE
co-Chair SDSN Europe

Paolo Carnevale Fondazione Eni Enrico Mattei

Carlo Papa Enel Foundation

Laura Cozzi International Energy Agency

Mariana Mazzucato University College London

Leonardo Becchetti University of Roma

Transformations for the Joint Implementation of Agenda 2030
for Sustainable Development and the European Green Deal

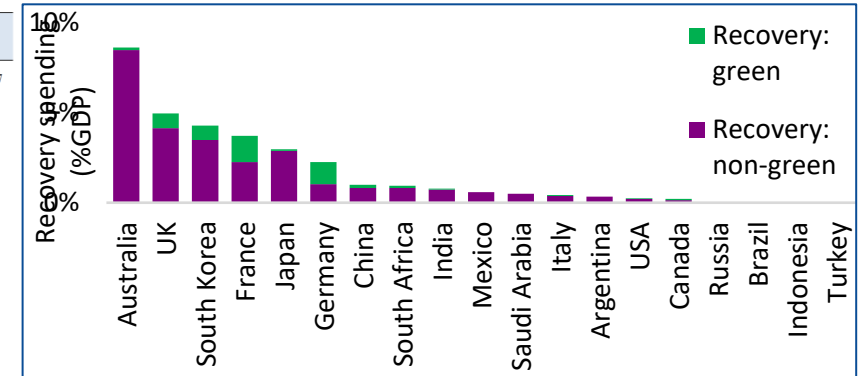
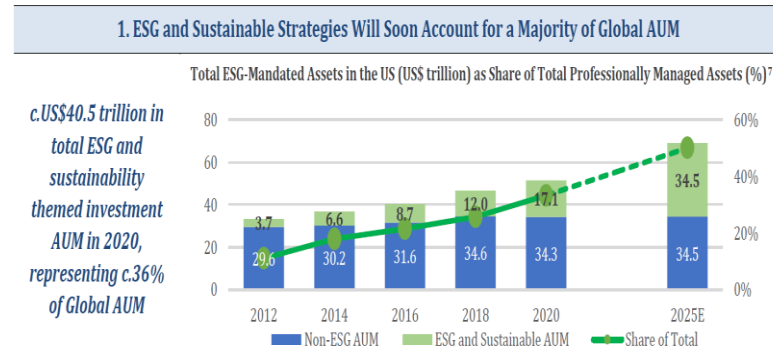
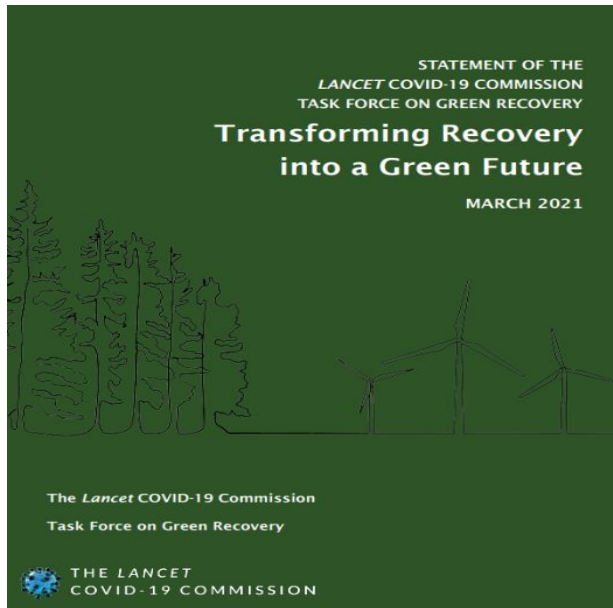
A Green and Digital, Job-Based and Inclusive Recovery from
the COVID-19 Pandemic

SDSN Report-Main Messages



- **Moral responsibility to “Build forward Better”**: COVID 19 pandemic-related recovery packages are financed by national debt, loans from future generations.
- **Economic case for “Build forward Better”**: Recent simulations of the effect of green recovery plans worldwide confirm that a green economic stimulus is more growth-enhancing than a ‘return-to-normal’ stimulus that would merely boost current, unsustainable consumption and production patterns.
- Beyond fiscal stimulus that is expected to boost aggregate demand, this crisis calls for **transformative public investments** that will shape a sustainable and fair, green and digital transition, and **leverage private sector investment**.
- Long-term vision: United Nations’ Agenda 2030 Sustainable Development Goals (SDGs), 2015 Paris Agreement. **European Green Deal provides the right level of ambition and direction.**
- **This report connects four major policy initiatives** – the SDGs, the European Green Deal, the European Semester, and the EU recovery plan – **to support policymakers with actionable strategies that can guide EU-wide and national economic recovery in line with Europe’s overarching sustainability agenda.**

The Lancet COVID 19 Commission : Green Deals around the World, but...



1. Recovery packages across the world should finance the transformations needed for a green, digital and fair future.
2. Recent commitments to achieve net zero greenhouse gas (GHG) emissions by around mid-century in Europe, China, etc. can provide the needed momentum for deep transformations.
3. Environmental, social and governance (ESG)- based and sustainability investing strategies now account for over one-third of global Assets Under Management (AUM). The recovery should build on this momentum.
4. Yet, so far, financial resources devoted to and commitments made for post COVID-19 recovery are largely insufficient for a green recovery, including in most G20 countries.
5. Low-income countries (LICs) and some emerging markets (EMs) urgently need support to address the immediate consequences of the pandemic and build back more sustainable, inclusive and resilient.
6. Set the foundation for long-term international cooperation on the environment, biodiversity COP Kunming, climate COP Glasgow, World Food Summit Copenhagen

Cluster for Sustainability Transition: Transforming Research and Innovation into Sustainability Action

Director: Professor Dr. Phoebe Koundouri

President-elect, European Association of Environmental and Resource Economists
Fellow, World Academy of Art and Science



CLUSTER ON SUSTAINABILITY TRANSITION

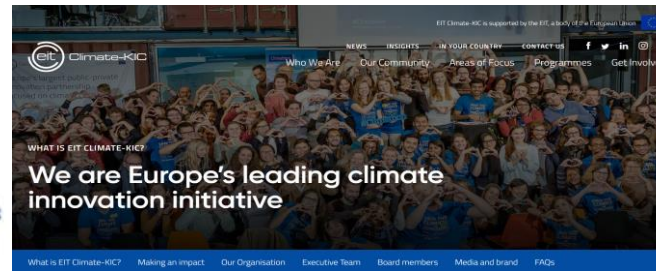
Research - Innovation Acceleration Deep Demonstration - Education & Training

Research and Innovation Projects Global Initiatives

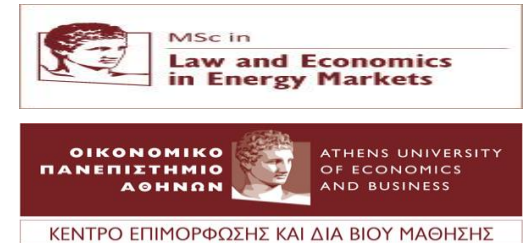
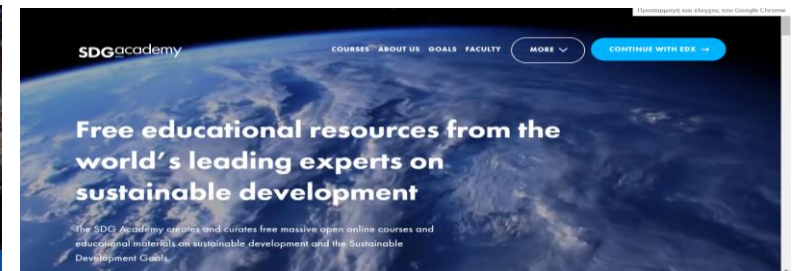


Smart Water Futures:

Innovation Acceleration Deep Demonstration

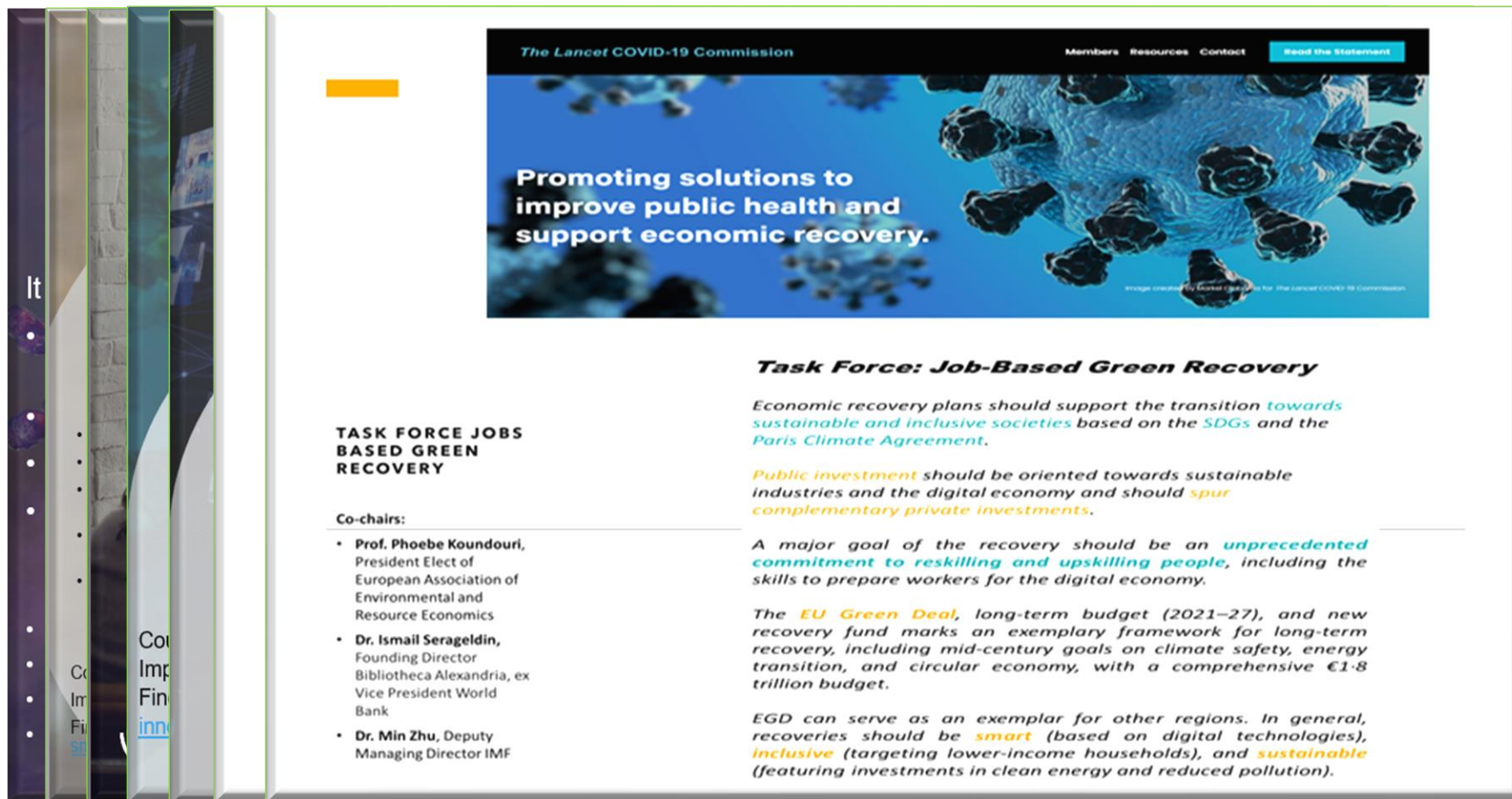


Education & Training Awareness



Projects, Scientific Director: Prof. Koundouri

Climate Change Mitigation and Adaptation
Green-Digital-Just Recovery Pathways
Circular Economy and Nature-Based Solutions
Systems Innovation Approach



The screenshot displays the website for 'The Lancet COVID-19 Commission'. The header includes 'Members Resources Contact' and a 'Read the Statement' button. The main banner features a blue background with a 3D molecular model and the text: 'Promoting solutions to improve public health and support economic recovery.' Below this, the section is titled 'Task Force: Job-Based Green Recovery'. The text states: 'Economic recovery plans should support the transition towards sustainable and inclusive societies based on the SDGs and the Paris Climate Agreement.' It further notes: 'Public investment should be oriented towards sustainable industries and the digital economy and should spur complementary private investments.' A key goal is highlighted: 'A major goal of the recovery should be an unprecedented commitment to reskilling and upskilling people, including the skills to prepare workers for the digital economy.' The report also mentions: 'The EU Green Deal, long-term budget (2021–27), and new recovery fund marks an exemplary framework for long-term recovery, including mid-century goals on climate safety, energy transition, and circular economy, with a comprehensive €1.8 trillion budget.' Finally, it concludes: 'EGD can serve as an exemplar for other regions. In general, recoveries should be smart (based on digital technologies), inclusive (targeting lower-income households), and sustainable (featuring investments in clean energy and reduced pollution).'

**TASK FORCE JOBS
BASED GREEN
RECOVERY**

Co-chairs:

- Prof. Phoebe Koundouri,
President Elect of
European Association of
Environmental and
Resource Economics
- Dr. Ismail Serageldin,
Founding Director
Bibliotheca Alexandria, ex
Vice President World
Bank
- Dr. Min Zhu, Deputy
Managing Director IMF

EIT Climate-KIC
Maritime Themed Accelerator
Expression of Interest



Our Vision: To Become a Global Initiative for the Decarbonization and Adaptation to Climate Change for the Marine Sector

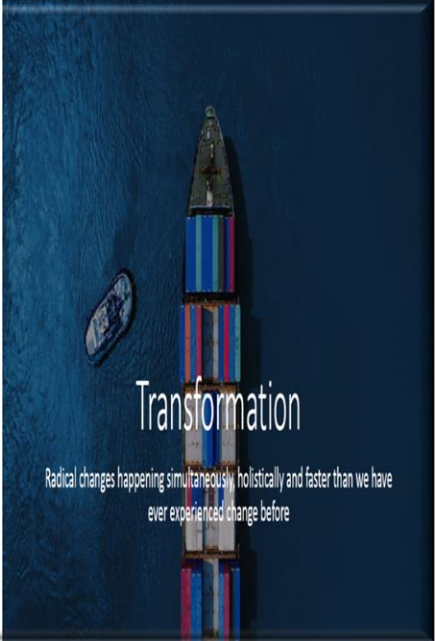


4-Seas Initiative

An initiative led by the regional networks SDSN Black Sea and SDSN Mediterranean and the national networks SDSN Greece, SDSN Italy, SDSN Spain, SDSN France, SDSN Turkey and SDSN Russia

GLOBAL ROUNDTABLE FOR SUSTAINABLE SHIPPING AND PORTS

- Aims at bringing together **researchers and technology developers, shipbuilders, shipowners, ports, policy makers and politicians**, from across the globe, to work on technological and policy innovations, related to zero emissions shipping, to target net-zero emissions by 2050.
- Find more at: <http://www.unsdn.gr/global-roundtable-for-sustainable-shipping-2>



Transformation

Radical changes happening simultaneously, holistically and faster than we have ever experienced change before

Projects

Blue Growth

Scientific Director: Prof. Koundouri

Blue Growth

14 LIFE BELOW WATER

Conserve and sustainably use the oceans, seas and marine resources for sustainable development

4 New Horizon 2020 Projects on Blue Growth

- **H2020 SEAWISE:** Shaping Ecosystem Based Fisheries Management
- **H2020 DOORS:** Developing an Optimal and Open Research Support System to Unlock the Potential for Blue Growth in the Black Sea
- **H2020 BRIDGE BS:** Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems
- **H2020 INTECOMP:** A Competitive Intelligence Cloud/HPC Platform for AI-Based STI Policy Making: a platform that will offer new and innovative AI services to public administrators and policy makers across Europe for a co-creation ecosystem that allows for data- and intelligent-driven policy design, implementation and making in the field of STI.

Projects, Scientific Director: Prof. Koundouri

Water-Food-Energy Nexus Smart Agriculture & Smart Urban Water Systems



**Smart Water Futures: Water-Futures
Designing the Next Generation of
Urban Drinking Water Systems**

**ERC Funding: € 10 million
for six years**



European Research Council

**Supporting top researchers
from anywhere in the world**

To design the next generation of smart urban drinking water systems, this interdisciplinary research team will look at methodologies from water science, systems and control theory, economics, and decision science as well as machine learning.

EIT Climate KIC HUB Greece, Director Prof. Koundouri Innovation Acceleration Training for Up-Skilling and Re-Skilling

With presence in 50+ countries across 6 continents,
Climathon is a global success story...



Climathon






System innovation for a Just Transformation in Europe



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



Limiting global warming to 1.5°C would require rapid, far-reaching and unprecedented changes in all aspects of society.

IPCC Special Report on 1.5 Degrees

Our 10-year track record in climate innovation

1600+
climate-positive
start-ups incubated

€3.4bn+
climate funding
leveraged

595
new products
and services

€550m+
total value of
funds managed



391+
formal partners,
across 28 countries
(including *Linked 3rd*
Parties)

>€1bn
investment attracted
to start-ups

>2300+
full-time jobs created
since 2010

44,000
participants in our
education activities

10 years of experience has taught us that achieving the change we need requires a different approach to innovation

Incremental

System innovation

Transformational

Supply led

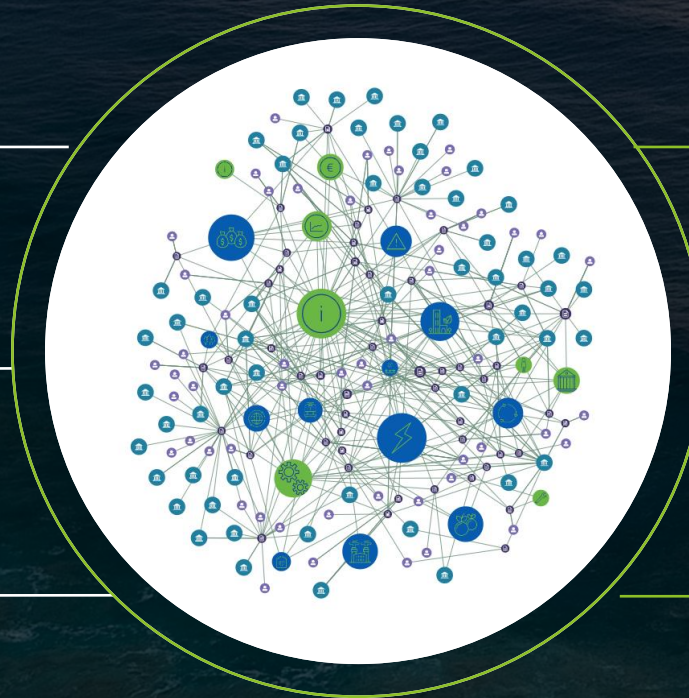
Demand led

Single projects and incremental change

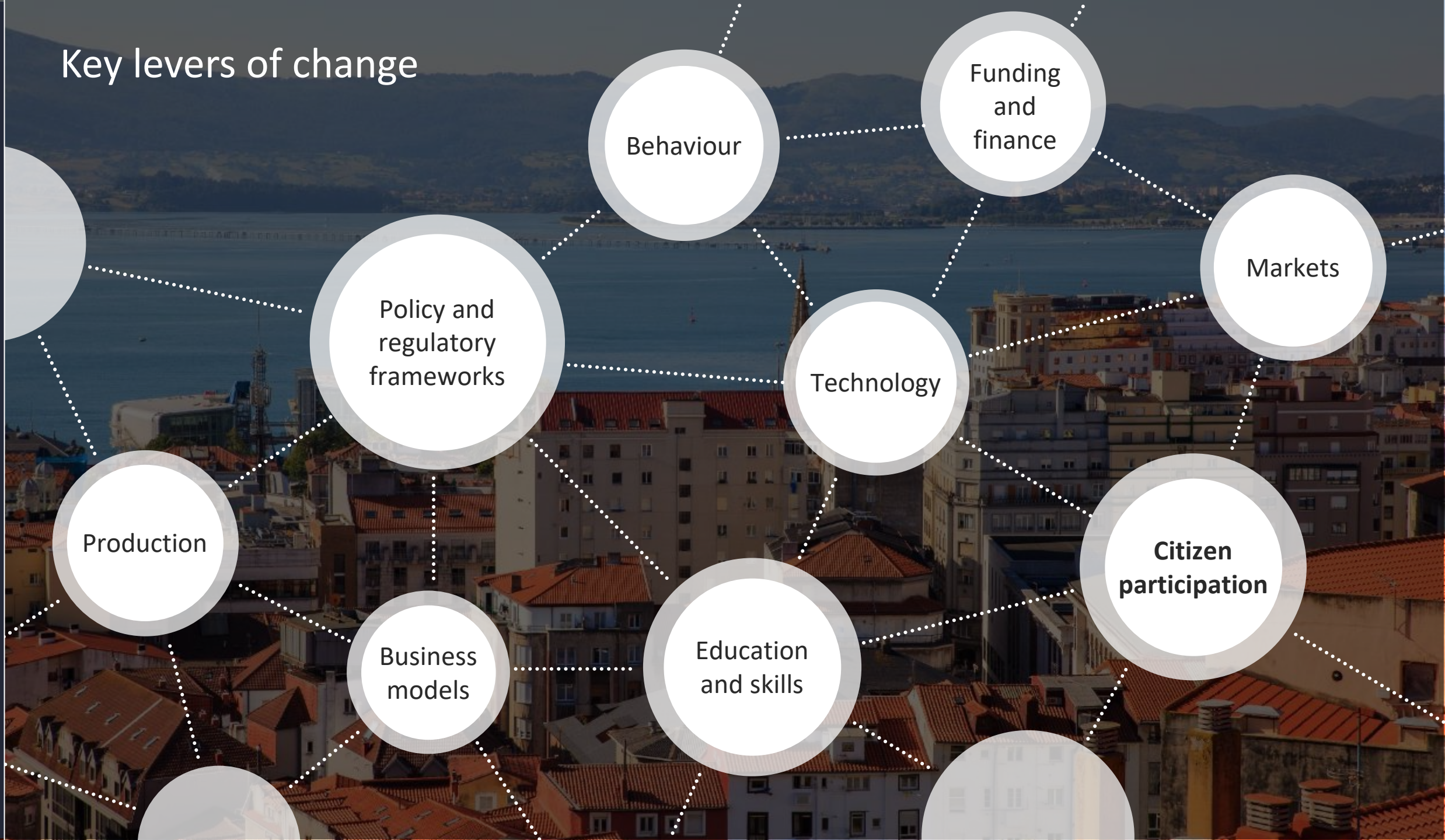
Coordinated projects that build on each other

Isolated activities, often focused on technological improvements

Connected activities that access core areas of a system



Key levers of change





EIT Climate-KIC addresses the **interdependent challenges** of climate change and sustainable development through **strategic innovation**

Our Vision

A prosperous, inclusive, climate-resilient society with a circular net-zero emissions economy

Our Mission

To catalyse systemic change for climate action

Our Promise

Transformation in time, through innovation

learning
by doing

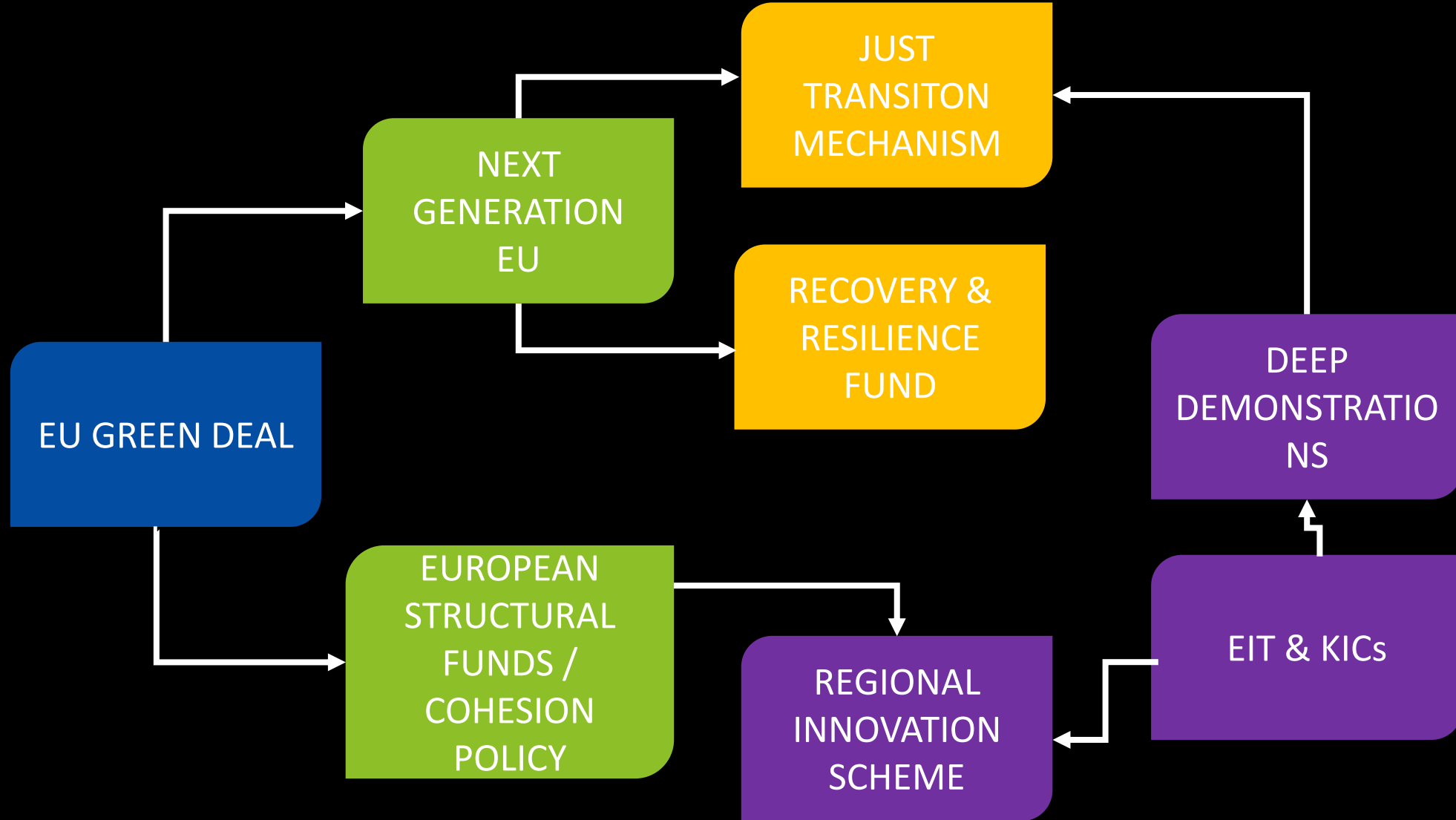
portfolio
approach

Systems
innovation
principles

demand
led

leverage
points

HOW EU MECHANISMS CONNECT?



Synergies between EIT Climate-KIC and the EU Green Deal

The European Green Deal covers all sectors of the economy. It will introduce a 2050 net zero carbon emission target

- Complementary initiatives include Biodiversity Strategy for 2030, the new Industrial Strategy and Circular Economy Action Plan, the Farm to Fork Strategy for sustainable food and a Climate Pact
- 'Synergies' between programmes is a strategic focus

EIT Climate-KIC can help deliver the European Green Deal in the following ways:

- **Orchestrate** showcases of the European Green Deal in action
- Help shape and **coordinate** the delivery of the European Climate Pact
- Secure climate goals in the **Circular Economy Package**
- An **Industrial Strategy** for a prosperous, net-zero future
- **Transform finance** for the European Green Deal
- Strengthen Europe's **resilience** to damaging climate change impacts

EIT CLIMATE-KIC PRIORITY AREAS, PARTNERS & KEY STAKEHOLDERS IN GREECE





EIT Climate-KIC Hub GREECE

Strategic Programmes 2021

Prof. Phoebe Koundouri

Director EIT Climate-KIC Hub Greece



@ClimateKIC



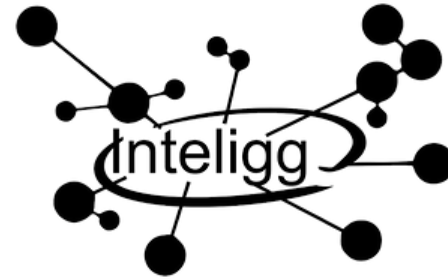
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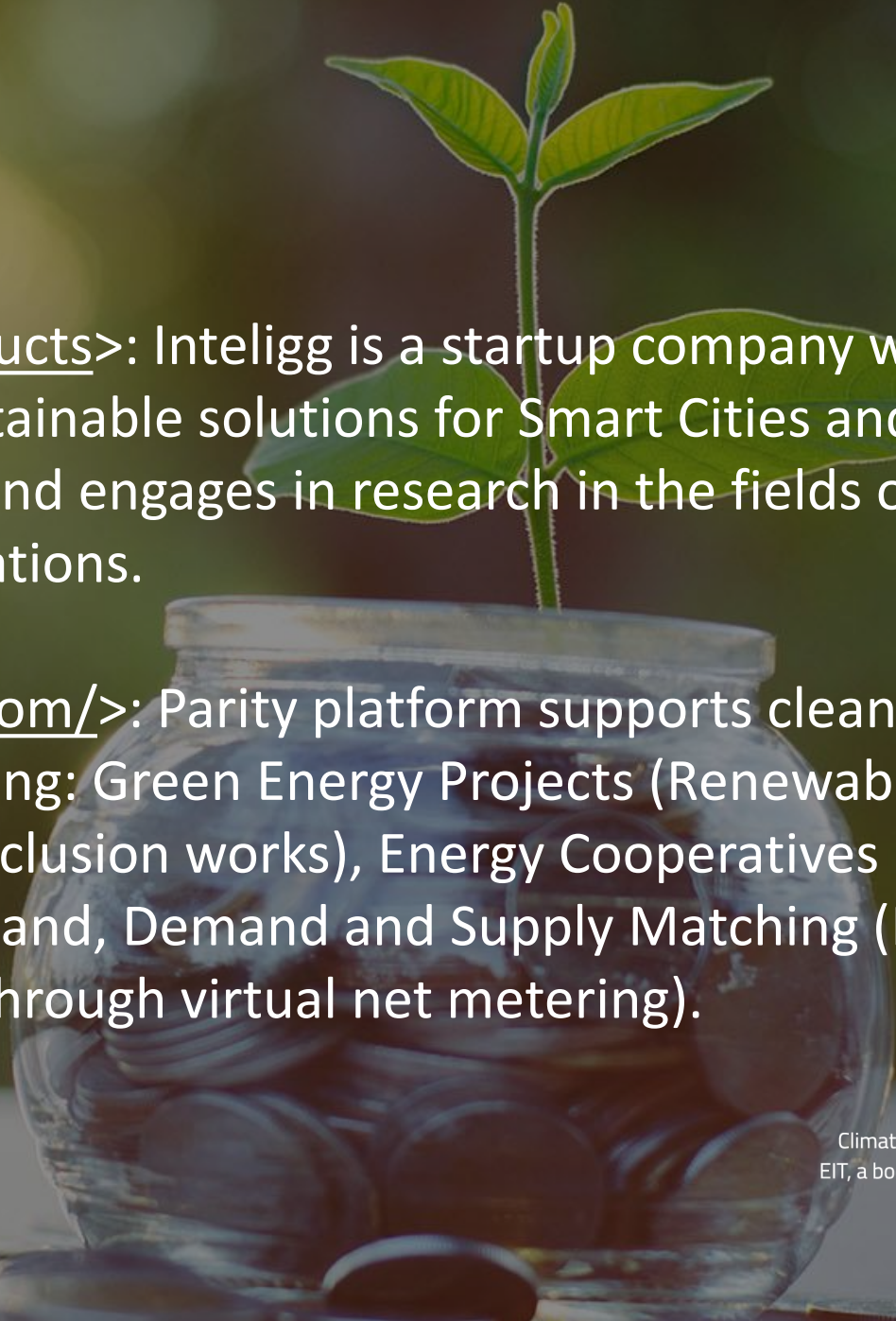
Start-up Accelerator

Get your business ready for takeoff: find customers, development partners and investors to help you grow fast.




Successful Start-ups in Greece (2019-2020)



A small green plant with three leaves is growing out of a glass jar filled with coins. The jar is on a surface with several more coins scattered around it. The background is a soft, out-of-focus green.

Inteligg<<https://www.inteligg.com/products>>: Inteligg is a startup company with the mission to deliver intelligent, innovative and sustainable solutions for Smart Cities and Communities. It develops products, provides services and engages in research in the fields of energy, transport, environment and rural applications.

Parity Platform<<https://parityplatform.com/>>: Parity platform supports clean energy through bringing in contact and supporting: Green Energy Projects (Renewable energy projects seeking financing to initiate conclusion works), Energy Cooperatives (Community led power and energy storage ventures) and, Demand and Supply Matching (Helping consumers reduce their electricity bills through virtual net metering).

A small green plant with several leaves is growing out of a glass jar. The jar is filled with coins, and some coins are scattered on the surface in front of it. The background is a soft, out-of-focus green.

Solmeya<<https://solmeya.com/>>: Solmeya is a hybrid AgTech company intersecting with CleanTech, BioTech & Agriculture. Its aim is to act supplementary and welcome overpopulation while simultaneously tackling climate change & humanity's nutritional needs by producing high value algal bio-based products & proteins for food, feed & pharma.

Enaleia<<https://enaleia.com/en/homepage/>>: Enaleia is a social enterprise aiming to make the marine ecosystem sustainable. It created the first professional fishing school in Greece at 2016. The aim to train young people into the fishing sector, create new jobs and make sure that the professional fishing will survive in the future and, at the same time, to provide a high-quality, eco-friendly and ethical education. An additional Enaleia's focus is ocean waste management (recycling & upcycling). That means collaboration with companies and organizations to find ways to utilize this marine litter/plastic at the maximum level possible.

EIT Climate-KIC Maritime Themed Accelerator Expression of Interest

Our Vision: The decarbonization of the maritime sector is our priority. Whereas this is in the first place an ambition owned by the maritime sector, we can be a key strategic partner in helping maritime decarbonize, and in delivering on ambitions at the international and European level.

Our Mission: To establish a Maritime Accelerator to prepare start-ups in the field of climate impact and to become a global initiative with multiplying effects.
[effects.c](https://www.effects.c)



Climate-KIC

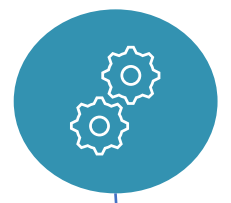
Climate-KIC is supported by the
EIT, a body of the European Union



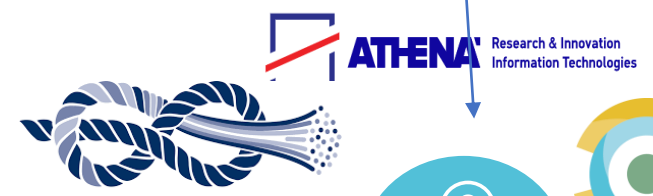
The Consortium



(CY/ES)
Training



(ES/CY) – Project Management



(DE/CY/GR)
Program Management



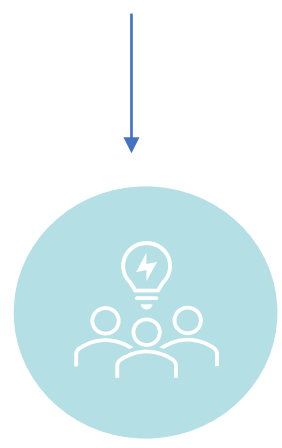
Cyprus Energy Agency



(GR)
Fund Management

ALL Partners
Local Mentoring
Dissemination Activities

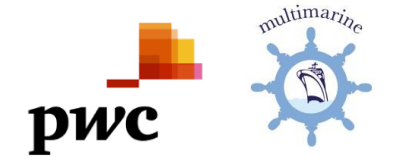
External Partners
Providing Assistance
Setting Challenges

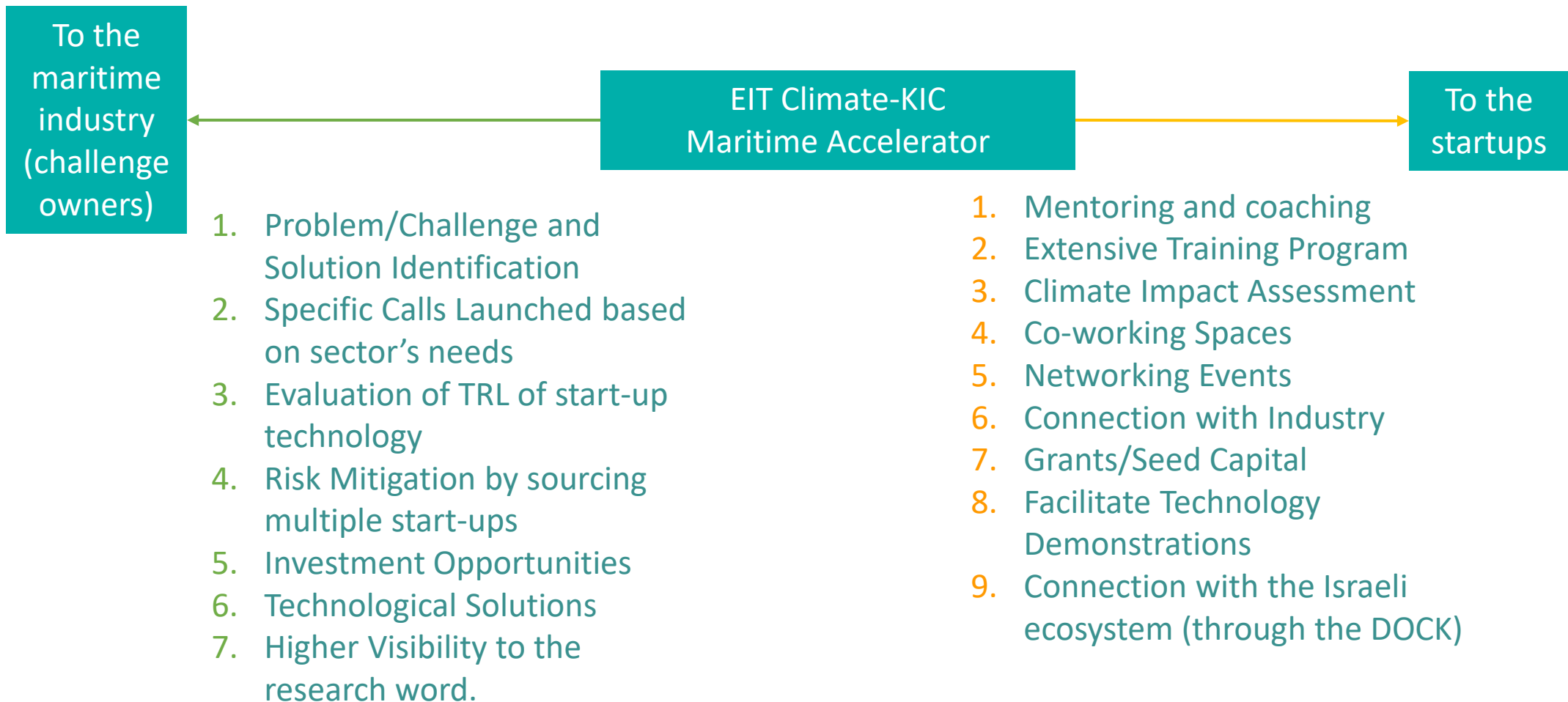


START-UPS



FAMELINE HOLDING GROUP





Our Competitive Advantage: The consortium is well positioned within the Maritime Sector and can bridge the gap between the academic/research world and the established maritime industry. Furthermore, through our network of collaborators, start-ups will be able to demonstrate their technology in a safe environment, before venturing into the real world.



Bootcamps

1

Online and in-person bootcamps at the beginning of each stage



Workshops

2

Interactive, online training sessions on different topics: marketing, financials, team building, etc.



Peer-to-Peer

3

Online sessions where startups receive feedback from other mentors and startups



Mentoring

4

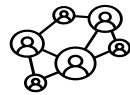
Experienced mentors support the teams throughout the program in regular one-on-one sessions



Funding*

8

Stage 1: 5.000 – 10.000 €
Stage 2: 20.000 – 100.000€
Stage 3: >200.000€



Demonstration / Networking

7

Access to our large network stakeholders for technical support and the opportunity to demonstrate your technology in a safe environment.



Tours

6

Stage 2 + 3 startups will be invited to participate to a visit of the Israeli ecosystem



Demo Day


5

Startups pitch in front of investors, challenge owners and other bluetech stakeholders (presential if COVID allows)

Pioneers



CALLING ALL CLIMATE INNOVATORS!

A diverse group of smiling business professionals in a crowd, serving as a background for the text. The individuals are of various ethnicities and ages, all dressed in professional attire and looking towards the camera with positive expressions.

EIT Climate-KIC's Pioneers programme provides experimental and transformative learning experiences to professionals, enabling them to develop skills and capabilities in systems thinking required to make the rapid transformation needed to reach a net zero resilient economy.

Summary of Pioneers into Practice

Pioneers gives people and organisations the opportunity to **get out of their comfort zone** and look at things differently. By enabling experimentation and innovation to address climate change, the programme offers participants a **fresh perspective** and a way to be part of a more rapid transformation to a net-zero carbon economy.

Operating across Europe, we create **dynamic networks of industry professionals**, business owners, entrepreneurs, public administration officials and freelancers, and equip them with **practical skills in systems innovation**. A space to experiment, from June through to November, participants take part in e-learning, workshops, group project challenges and a **4-6 week placement**.

We're looking for individuals and organisations to join our diverse community of over 1600 change agents. Limited places are available and you have until **1st June 2020 (Pioneers)** or **16th June 2020 (Hosts)** to apply!

More information and
online applications

<https://pioneers.climate-kic.org>



E-LEARNING



WORKSHOPS



GROUP PROJECTS



PLACEMENTS

CLIMATHON ONLINE SUMMIT

...will begin shortly!



Climathon



climathon.climate-kic.org
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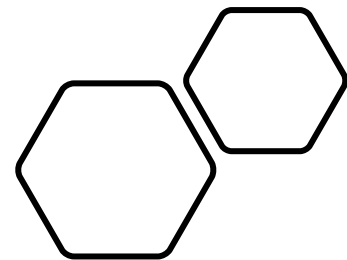
Our cities have to be carbon neutral by 2030, and the people that live in them are a powerful force driving towards that goal.

Together, cities and their citizens are already forming a global wave of change-makers and innovators that will help humanity achieve the zero emissions goal over the next 20 years.

Climathon offers a clear pathway to action and interaction

With presence in 50+ countries across 6 continents, Climathon is a global success story...





Greece

- International Boundary
- ★ National Capital
- Major Cities
- Road

Climathons in Greece



CONTACTS

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www.phoebekoundouri.org

Website

<https://www.athena-innovation.gr/el/eit-climate-kic-hub-greece>