

The Sustainability Transition has started! Is Greece on Board?

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Leave No One Behind

1. EDUCATION, GENDER, AND INEQUALITY
SDGS 1, 5, 7-10, 12-15, 17
2. HEALTH, WELLBEING, AND DEMOGRAPHY
SDGS 1, 2, 3, 4, 5, 8, 10
3. ENERGY DECARBONIZATION AND SUSTAINABLE INDUSTRY *SDGS 1-16*
4. SUSTAINABLE FOOD, LAND, WATER, AND OCEANS *SDGS 1-3, 5, 6, 8, 10-15*
5. SUSTAINABLE CITIES AND COMMUNITIES *SDGS 1-16*
6. DIGITAL REVOLUTION FOR SUSTAINABLE DEVELOPMENT *SDGS 1-4, 7-13, 17*



Circularity and Decoupling

Are We on Track ?

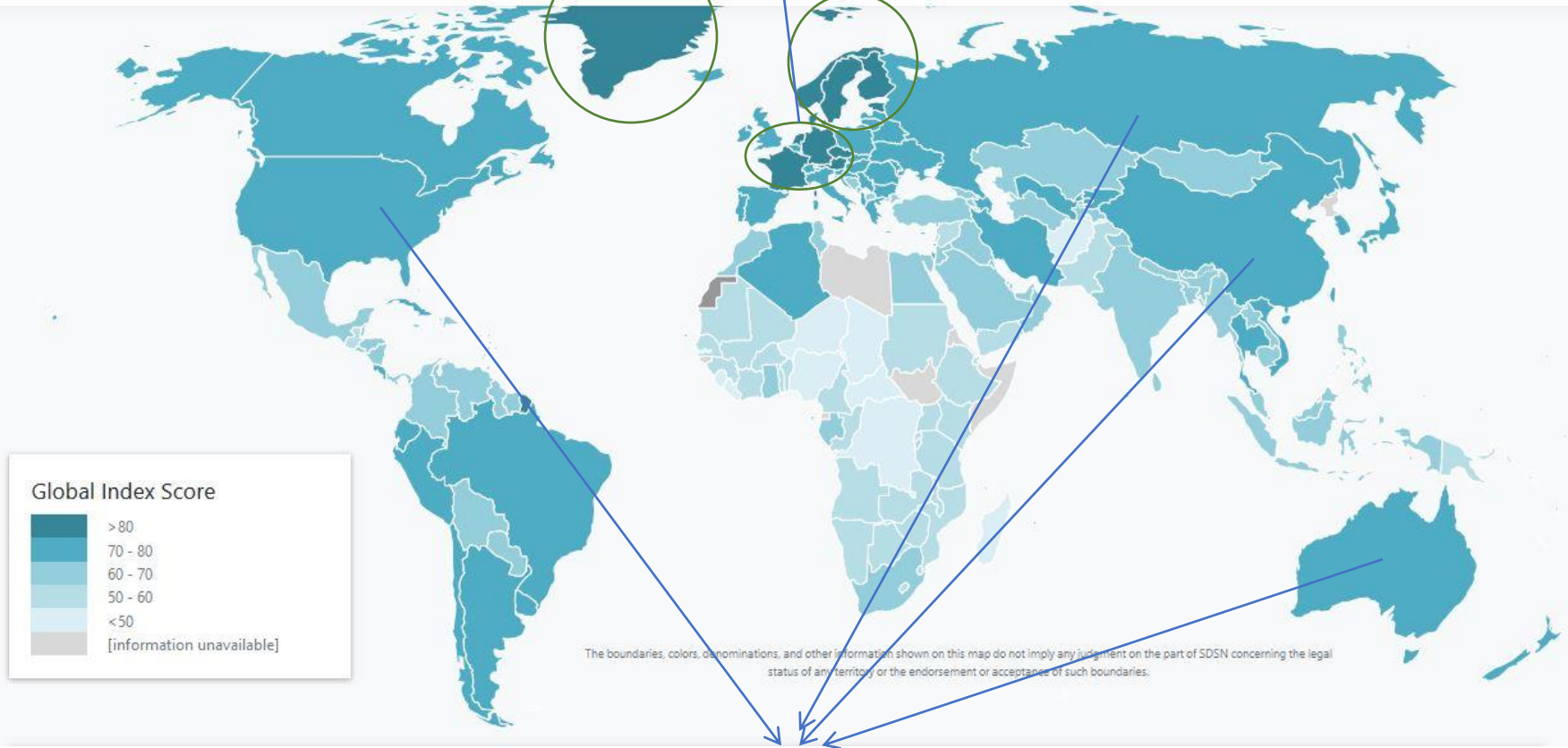
Globally, Sustainability Transition
has started!
BUT...

Right on track:
Minority

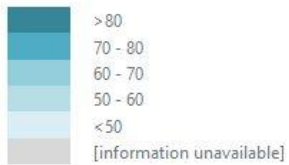
Sustainable Development Report Dashboards 2019
Transformations to Achieve the Sustainable Development Goals



BertelsmannStiftung



Global Index Score



Making Progress but not Fast Enough

Europe Leading the way to climate-neutrality by 2050

European Commission president promised to commit to carbon neutrality by 2050 as part of a “green deal” for Europe.



- 2018: strategic long-term vision for climate neutrality by 2050, 'A Clean Planet for all'.
- 2019: the European Council invited the Commission to advance work on processes and tools to ensure a transition to a climate-neutral EU.
- 2020: The EU is to submit its long-term strategy to the United Nations Framework Convention on Climate Change (UNFCCC).
- European countries can lead by example and show how tackling climate change can be a condition for Europe's prosperity and stability.

Aggressive de-carbonization will be needed beyond 2030 to keep temperature increases below 1.5 degrees Celsius

Now-2050: Global power demand will grow by 62%, equating to 1.5% a year.

- Energy storage installations will increase exponentially.
- Coal is set to collapse everywhere in the world, except Asia.
- By 2032, there is more wind and solar electricity in the world than coal-fired electricity.
- By 2040, renewables make up 90% of the electricity mix in Europe, with wind and solar accounting for 80%.

DEMAND

SUPPLY

Is Greece on Track ?

Greece is making progress, albeit at a slow pace

GREECE OECD Countries

OVERALL PERFORMANCE

Index score Regional average score



SDG Global rank 50 (OF 162)

CURRENT ASSESSMENT - SDG DASHBOARD

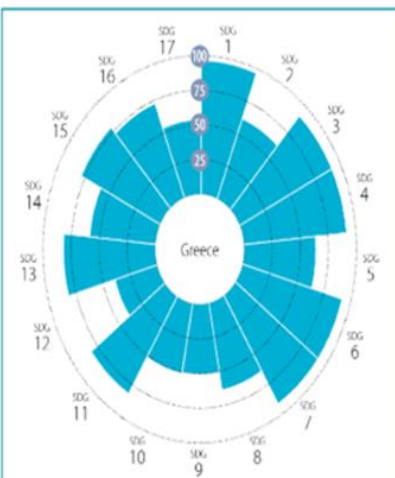


Major challenges Significant challenges Challenges remain SDG achieved Information unavailable

SDG TRENDS



Decreasing Stagnating Moderately improving On track or maintaining SDG achievement Information unavailable



AVERAGE PERFORMANCE BY SDG

A Challenge but an Opportunity for Smart Specialization: Investing in our Strengths



Renewable Energy:
Solar, wind, geothermal

Blue Growth:
Oceans, sea, coastal

Tourism and Education

Information and
Communication
Technology



Mobilizing Sustainability Transition in Greece: Cluster of Institutions



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



ΜΟΥΣΕΙΟ
ΓΟΥΛΑΝΔΡΗ
ΦΥΣΙΚΗΣ ΙΣΤΟΡΙΑΣ

Mobilizing Sustainability Transition in Greece and Europe: The Projects

Research

Deep Demonstration

Education



Climate KIC Programs

Climate KIC Projects

GNHM: Sustainability Education ages 4-18

Sustainability Education in Greek Universities

Energy Law and Economics, MSc @ AUEB

Summer School on Aristotelian Values in SDGs – Aikaterini Laskaridis Foundation

Training Courses for entrepreneurs, innovators and policy makers


C-KIC Programs

Accelerator




EIT Climate-KIC Accelerator is the only EU acceleration programme focused on climate impact by cleantech commercialization

Transforming ideas into climate-positive businesses

 €550m+ capital raised in external investment by our start-ups	 1000+ climate-positive companies incubated	 2500+ jobs created through our start-up community	 33 partners supporting the accelerator programme
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Pioneers Into Practice




Placement (all expenses covered).
Participation in an educational program (two workshops and online learning).
Training based on innovative methodologies developed within the Climate KIC.

- Mentorship for improving innovative ideas and skills.
- Participation in solving challenges in the real environment.
- Participate in international workshops.
- Develop international professional network.

Climathon



Climathon Cities 2018

 113 Cities	 46 Countries	 6 Continents	 +5000 Participants
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Climathon: *Cities. Hacking. Solutions.*
Global Climathon Day - 25 October 2019

[CHECK THE INSTRUCTIONS OVER](#) [JOIN CLIMATHON IN YOUR CITY](#)

Accelerator



Climate-KIC

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1000+

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2500+

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33

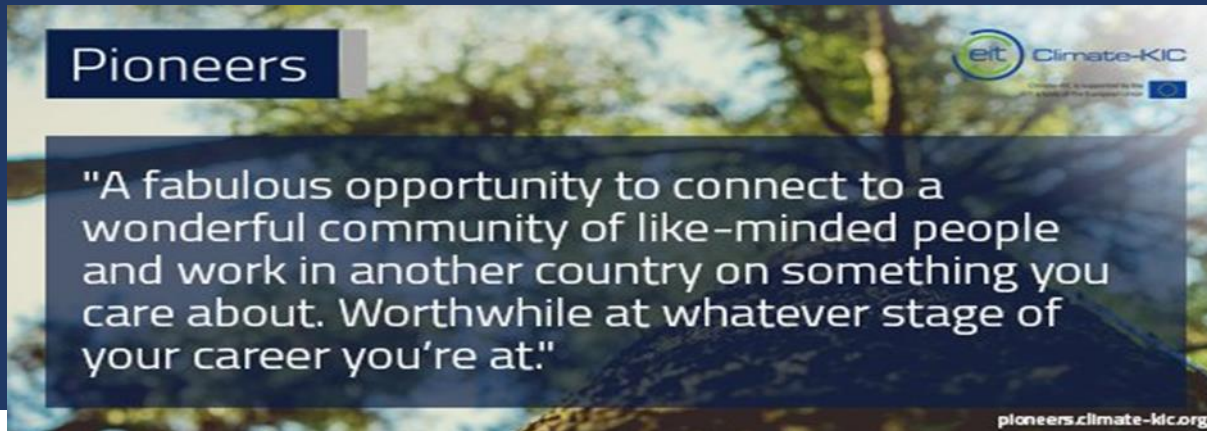
partners supporting the accelerator programme

- **Cyrus:** A Demokritos spin-off working on **hydrogen technologies** and designing non-mechanical high-pressure H₂ compressors using metal hydrides
- **Citipost:** Innovative waste and data management platform focusing on **smart cities** and sustainability through **recycling**
- **Cargoshare:** An automated **freight brokerage services platform** which results in a more transparent market, leading to less communication friction, while resulting to reduced emissions by freight ships traveling empty
- **Parity:** A two-sided Financing Platform, that makes **Greentech investing** accessible to retail investors and small funds
- **Trustporter: System for shipping & transportation needs** - designed to match requests to transfer goods or transport people, with other people that happen to travel along the requested routes anyway
- **Enaleia:** Educate, motivate, organize and track the fishermen, so as to be able to **collect plastic from the sea through their bi-catch.**
- **Shallows: Zero-footprint architecture** based on natural raw materials, using biological mechanisms

Pioneers Into Practice



Climate-KIC



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Climathon



Climate-KIC

Climathon Cities 2018



113

Cities



46

Countries



6

Continents



+5000

Participants

Climathon



YOUNG CLIMATHON

NEW

CLIMATHON STORIES

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Climathon: *Cities. Hacking. Solutions.*

Global Climathon Day - 25 October 2019

CHECK THE INTRODUCTION VIDEO

BRING CLIMATHON TO YOUR CITY

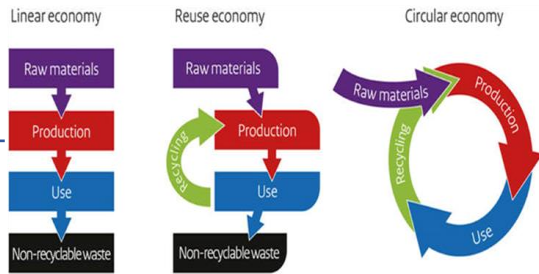


EIT Climate – KIC Hub Greece

Deep Demonstration Projects

**Transformation Pathways to zero-
net CO₂ Emissions via Systems
Innovation and Circular Economy**

C-KIC DD projects



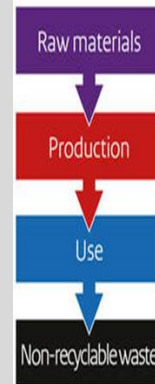
Circular Economy Transition in Smart Specialization Strategy

- Contribute to the Europe 2020 objectives of smart, sustainable and inclusive growth.
- Pilot the adoption of CE in respective S3s, with the responsible authorities.
- Stimulate the timely and systemic adoption of the CE in S3s for the 2020-2027 programming period, for all EU Member States.

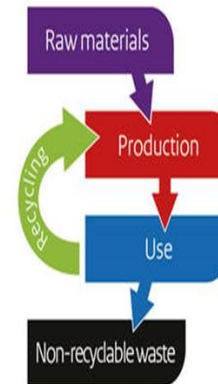
Countries participating in the Programme:

- **Bulgaria, Greece**

Linear economy



Reuse economy



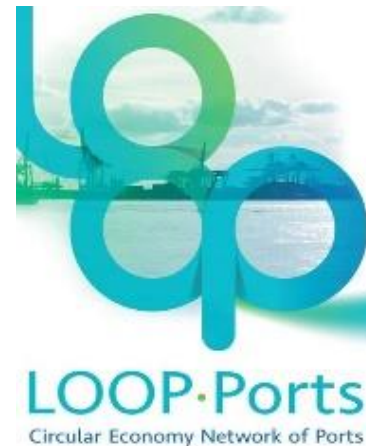
Circular economy



Climate-KIC

Resilient Maritime Hubs

- Catalyzing Systemic Change in Maritime Sector across Europe by:
 - Decarbonization Shipping Industry
 - Ports Sustainable Transition Roadmap
 - Fostering Sustainable Tourism
 - Strengthening Fragile Ecosystems & Communities
- 13 European Ports including the Port of Piraeus.



Climate Innovation in Southern European Waters

BL.EU CLIMATE

- Roadmap for plastic free southern European seas for the next 10 years
- Building capacity for innovation alongside the local challenge owners
- Address the issue at the beginning of its life cycle, on the prevention side

Countries participating in the Project:

- **Portugal, Greece, Croatia**



Climate-KIC

Circular Learning Hub (CL-hub)

A learning hub for the engagement and ecosystem transition towards circular thinking

- Multi-sensor and multi-virtual experiment specifically designed to overcome the hyperbolic discount bias wrt climate change
- For Investors and Entrepreneurs

Countries participating in the Project

- Italy, Greece, Bulgaria



Climate-KIC

New Initiatives

Global Roundtable for Sustainable Shipping



IPCC warned of unprecedented changes if we exceed 1.5 degrees of warming. Maritime transport emits around 940 million tonnes of CO₂ annually and is responsible for about 2.5% of global greenhouse gas (GHG) emissions (3rd IMO GHG study). These emissions are projected to increase significantly if mitigation measures are not put in place swiftly.

According to the 3rd IMO GHG study, shipping emissions could under a business-as-usual scenario increase between 50% and 250% by 2050, undermining the objectives of the Paris Agreement. The **Global Roundtable for Sustainable Shipping** aims at bringing together shipowners, shipbuilders, technology developers and researchers, ports and policy makers, on innovation related to zero emissions shipping, from across the globe, to target net-zero emissions by 2050. It will be launched at a specific session on the zero-carbon ocean shipping at the two-day **COP 25 in Santiago, Chile** hosted by SDSN on December 9th & 10th 2019.

The UN SDSN 4-Seas Initiative



The UN SDSN 4-Seas is a Euro-Asian Initiative that aims to mobilizing science driven sustainable blue growth in the **Mediterranean Sea**, the **Black Sea**, the **Caspian Sea** and the **Aral Sea**, in order to protect the future state of global seas and oceans by providing a Blue Sustainability Transition Plan “from rivers to the oceans”.

The initiative is led by **SDSN Greece** and **SDSN Black Sea**, established leaders on research for the implementation of SDGs in rivers and wetlands, coastal zones, seas and oceans, shipping, marine transport, offshore energy production, fishing, aquaculture, marine litter, and relevant education and training.