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ΑΙΣ
ΕΤΣ

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GREECE FORUM



ELLINIKI ETAIRIA
Society for the Environment
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January 28, 2020, Acropolis Museum

**Climate Change, Energy and the Greek Environment:
What are the choices?**

Assoc. Prof. Haris Doukas (*National Technical University of Athens*)



Talanoa reflects a process of inclusive, participatory and transparent **dialogue**.

The purpose of Talanoa is to **share stories**, build empathy and to make wise decisions for the collective good.

The process of Talanoa involves the sharing of ideas, skills and experience through **storytelling**.



The PARIS REINFORCE project has received funding from the European Union's Horizon 2020 Research and Innovation Programme under grant agreement No 820846.

Full Title:

Delivering on the Paris Agreement:
A demand-driven,
integrated assessment modelling approach

Funding:

European Union's Horizon 2020
Research and Innovation Programme (H2020)

Lifetime:

June 2019 - May 2022 (36 months)

Coordination:

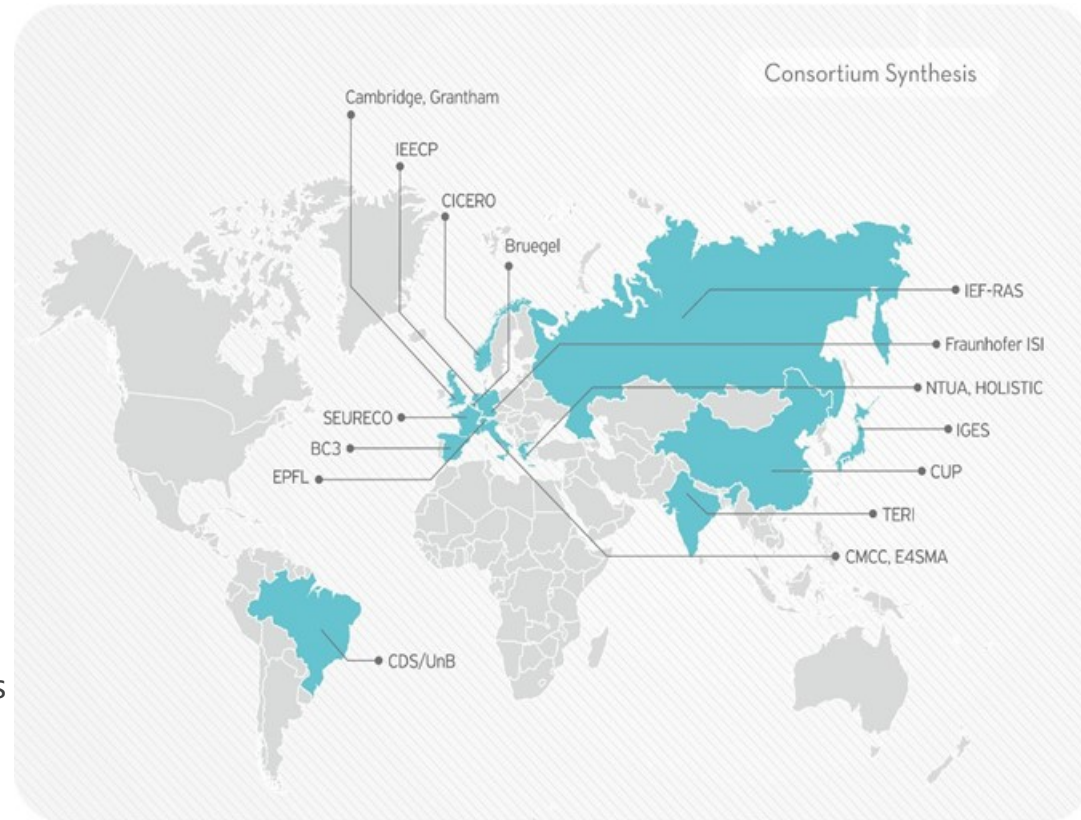
Energy Policy Unit,
National Technical University of Athens

Participants:

13 European partners; 5 international partners

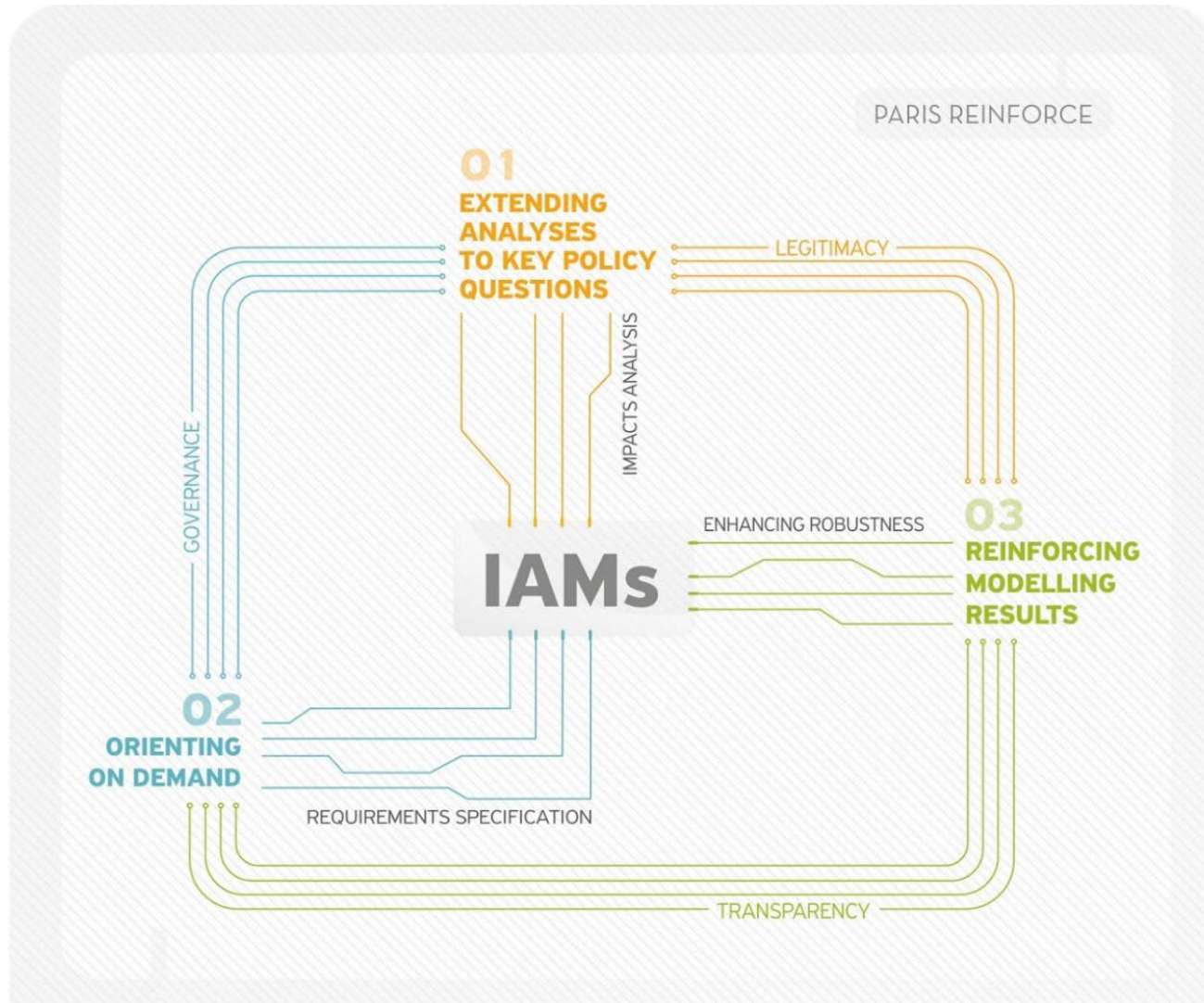
Call/Grant:

H2020-LC-CLA-01-2018/820846



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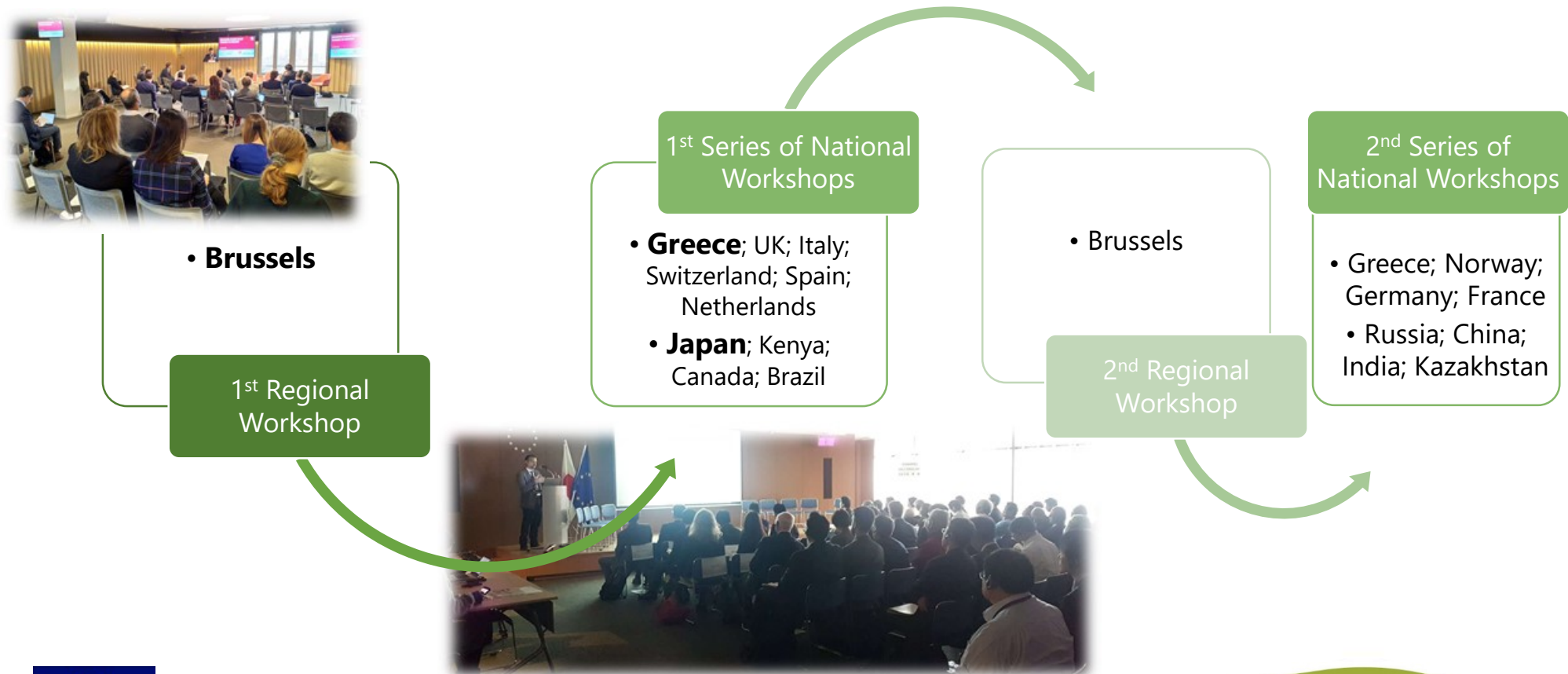
From Integrated to Integrative



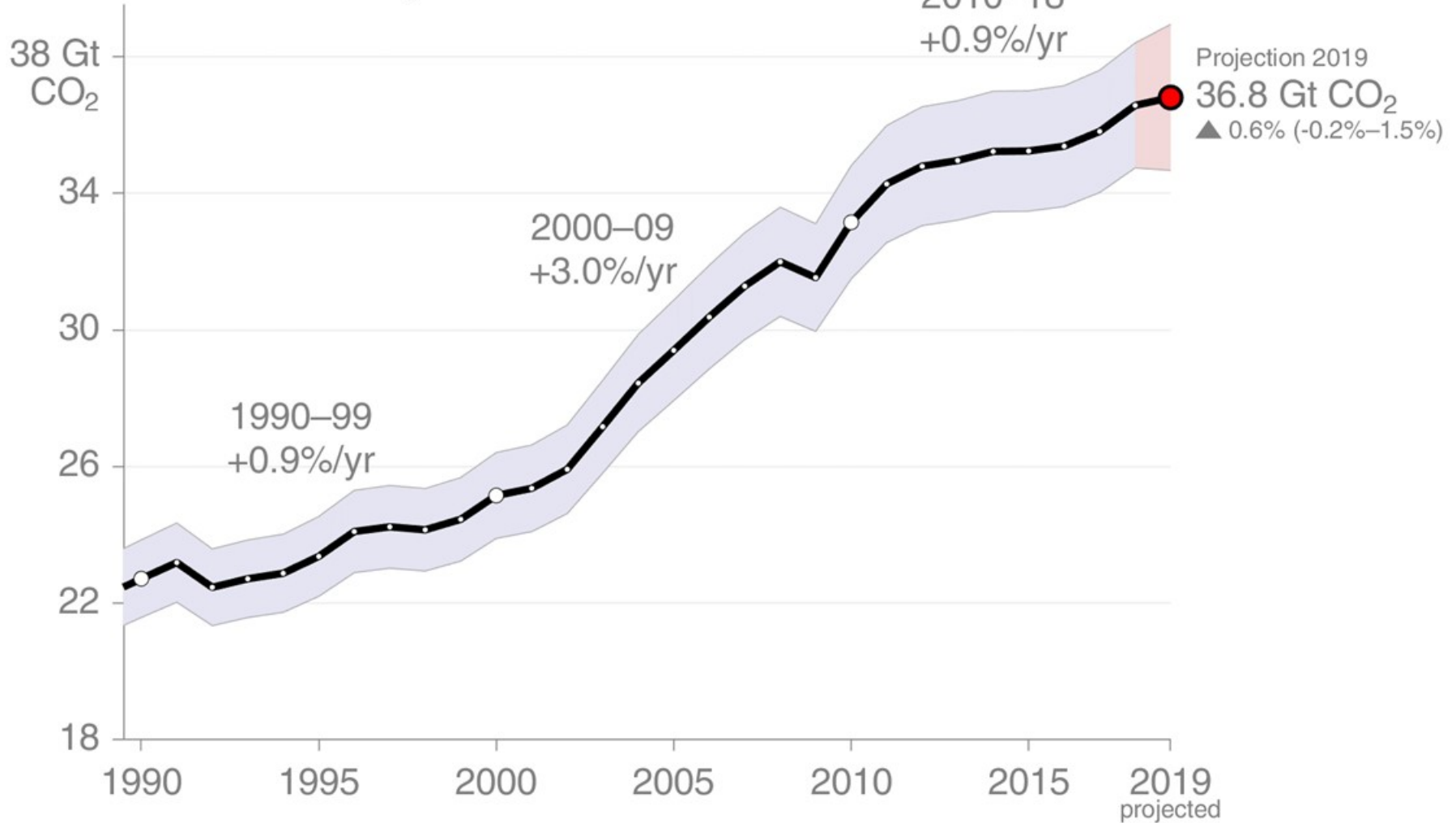
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Building **ownership** and ensuring **policy relevance**, through **co-creation**.

Two modelling iterations – two series of national/regional workshops (European and global)



Global Fossil CO₂ Emissions



© Global Carbon Project • Data: CDIAC/GCP/BP/USGS

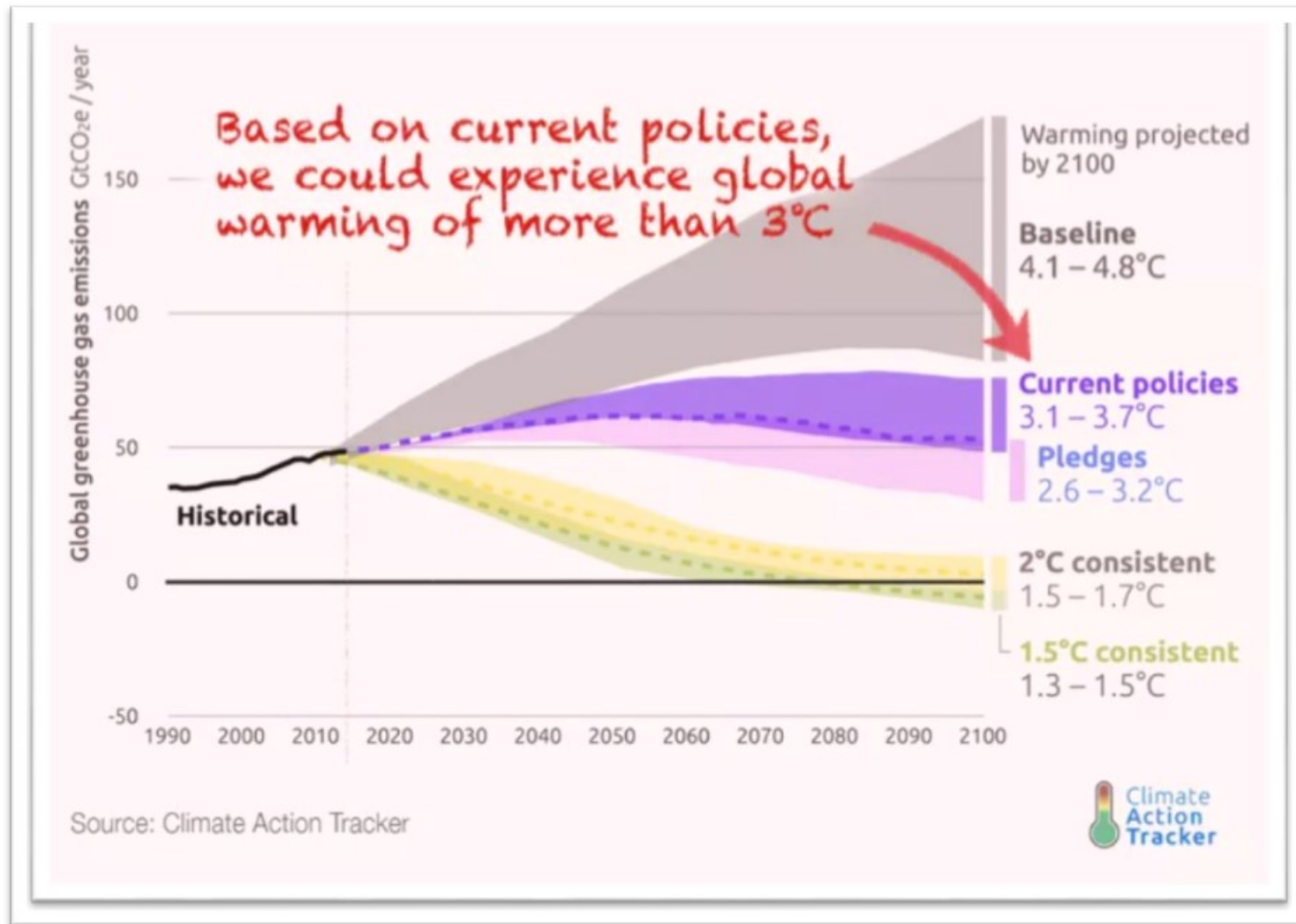


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- ✓ 30 November - 11 December 2015, Paris, France (COP21).
- ✓ Target: Reduction of temperature rise of the planet until 2100, in **1.5 °C**.
compared to pre-industrial period.
- ✓ *In force:* 4 November 2016.






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If the world was carbon neutral by:

- **2047:** we have a **66% chance** of limiting warming to **1.5°C**

A horizontal bar chart representing a 66% chance. The bar is divided into two sections: an orange section on the left representing 66% and a grey section on the right representing 34%. The text "66% chance" is centered in white on the orange section.

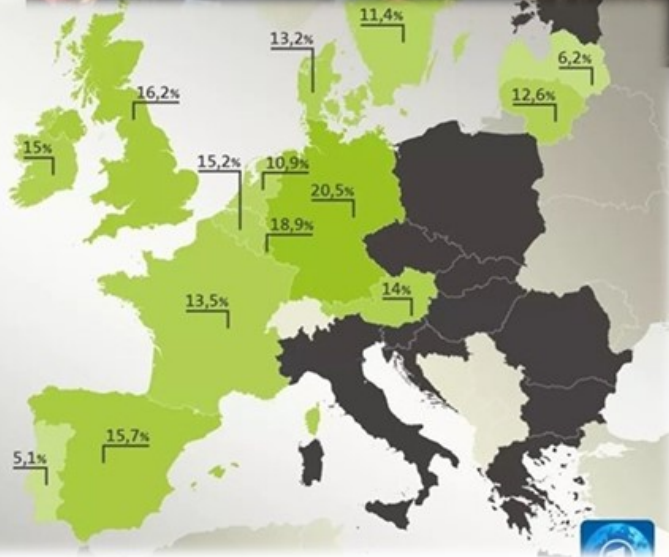
66% chance

- **2058:** we have a **50% chance** of limiting warming to **1.5°C**

A horizontal bar chart representing a 50% chance. The bar is divided into two sections: a brown section on the left representing 50% and a grey section on the right representing 50%. The text "50% chance" is centered in white on the brown section.

50% chance





in % (Vgl. 02. Mai 2019)

[Quelle: Infratest dimap]





Frans Timmermans ✓

@TimmermansEU

Today we present an [#EUGreenDeal](#) which will fight climate change, protect nature, make our economy sustainable and leave nobody behind.





Because if this is not a social Green Deal, it will not be a successful Green Deal.

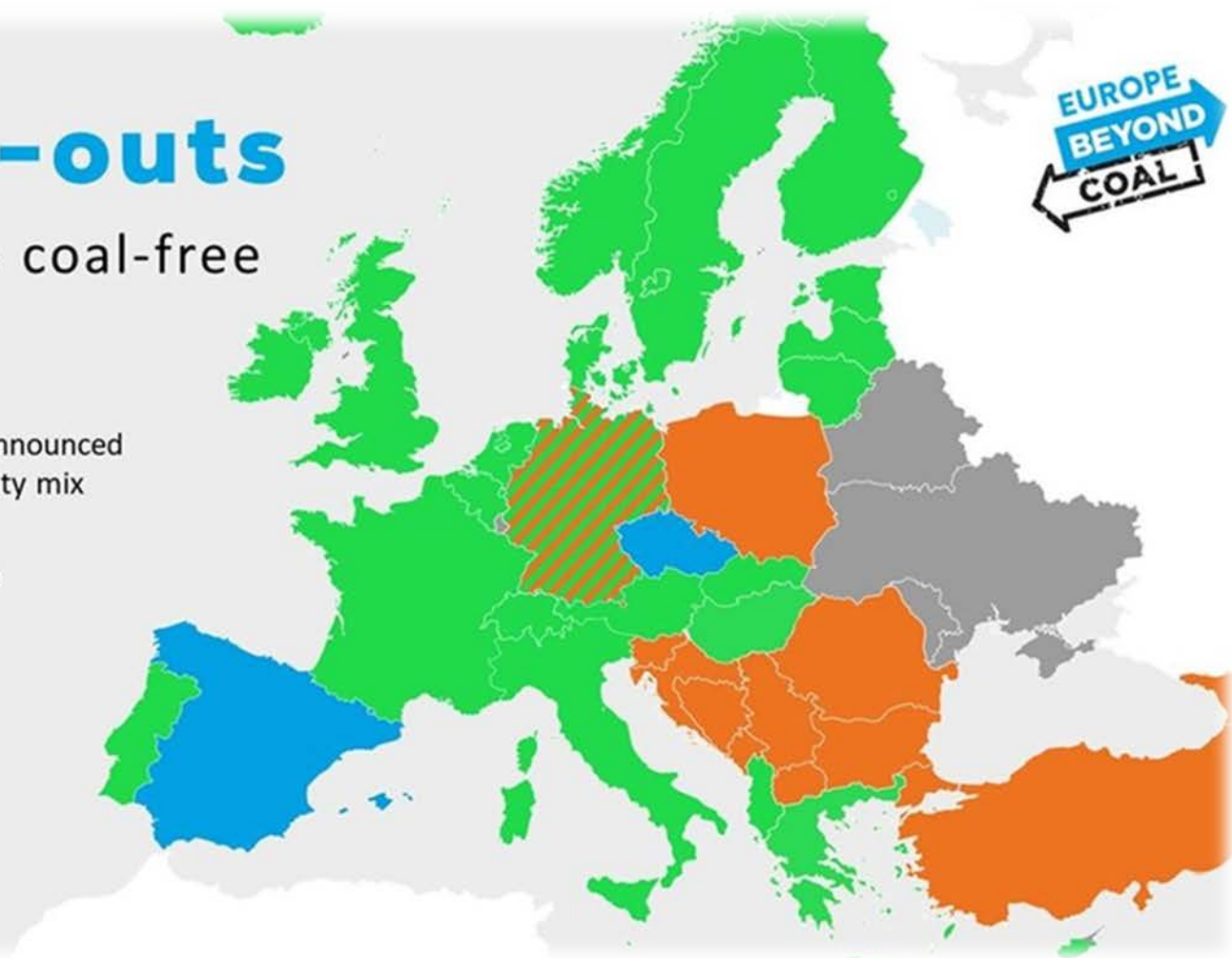
EU Green Deal
11 December 2019
EXECUTIVE VICE-PRESIDENT
(2019-2024)
Frans Timmermans
European Green Deal



Coal phase-outs

Countries aiming to be coal-free

-  2030 or earlier coal phase-out announced or decided, or no coal in electricity mix
-  Coal phase-out under discussion
-  No phase-out discussion
-  Phase out only after 2030



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Έτος στόχου: 2030	Τελικό ΕΣΕΚ	Αρχικό σχέδιο ΕΣΕΚ	νέοι Στόχοι ΕΣΕΚ σε σχέση με στόχους Ευρωπαϊκής Ένωσης
Μερίδιο ΑΠΕ στην Ακαθάριστη Τελική Κατανάλωση Ενέργειας	≥35%	31%	Αυξημένος βαθμός φιλοδοξίας σε σχέση με Ευρωπαϊκό κεντρικό στόχο 32% ΕΕ
Μερίδιο ΑΠΕ στην Ακαθάριστη Τελική Κατανάλωση Ηλεκτρικής Ενέργειας	≈61-64%	56%	
Τελική Κατανάλωση Ενέργειας	≈16,1-16,5 Mtoe (≥38% σε σχέση με προβλέψεις 2007)	18,1 Mtoe (32%) (αναφερόταν σε 17,3 Mtoe χωρίς θερμότητα περιβάλλοντος)	Αυξημένος βαθμός φιλοδοξίας σε σχέση με Ευρωπαϊκό κεντρικό στόχο 32.5% και επίτευξη στόχου βάσει νέου δείκτη ΕΕ για μείωση κατανάλωσης σε σχέση με το έτος 2017
Μερίδιο Λιγνίτη στην Ηλεκτροπαραγωγή	0%	16,5%	
Μείωση ΑτΘ	≥42% vs σε σχέση με 1990, ≥56% σε σχέση με 2005	33% σε σχέση με 1990, 49% σε σχέση με 2005	Σε ταύτιση με κεντρικούς Ευρωπαϊκούς στόχους και υπεραπόδοση σε σχέση με εθνικές δεσμεύσεις στους τομείς εκτός ΣΕΔΕ



- ✓ 1st keynote Speaker – Prof. Christos Zerefos
- ✓ 1st Session: **Business**, Energy & Environment
- ✓ 2nd Session: Sustainable Energy Planning - **Technologies and Policies**
- ✓ 3rd session: **Geothermal**
- ✓ 2nd Keynote Speaker – Prof. Kostas Synolakis
- ✓ Round Table Discussion – the Case of **Wind** Turbines
- ✓ Online **voting**
- ✓ **Conclusions**





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Thank you!

Haris Doukas

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#CLIMAGREECE20
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