



European  
**Hydrogen**  
Week



**20 - 24 November 2023**

**Brussels, Belgium**

**[euhydrogenweek.eu](https://euhydrogenweek.eu)**





# European Hydrogen Week 2023

Jorgo Chatzimarkakis, CEO, Hydrogen Europe

20 November 2023



- 
- propel global carbon neutrality
  - accelerating European hydrogen industry



*525 members*



*€5.3 trillion annual turnover*





0,5 Mt



2,5 Mt



3 Mt

# Regulatory Framework



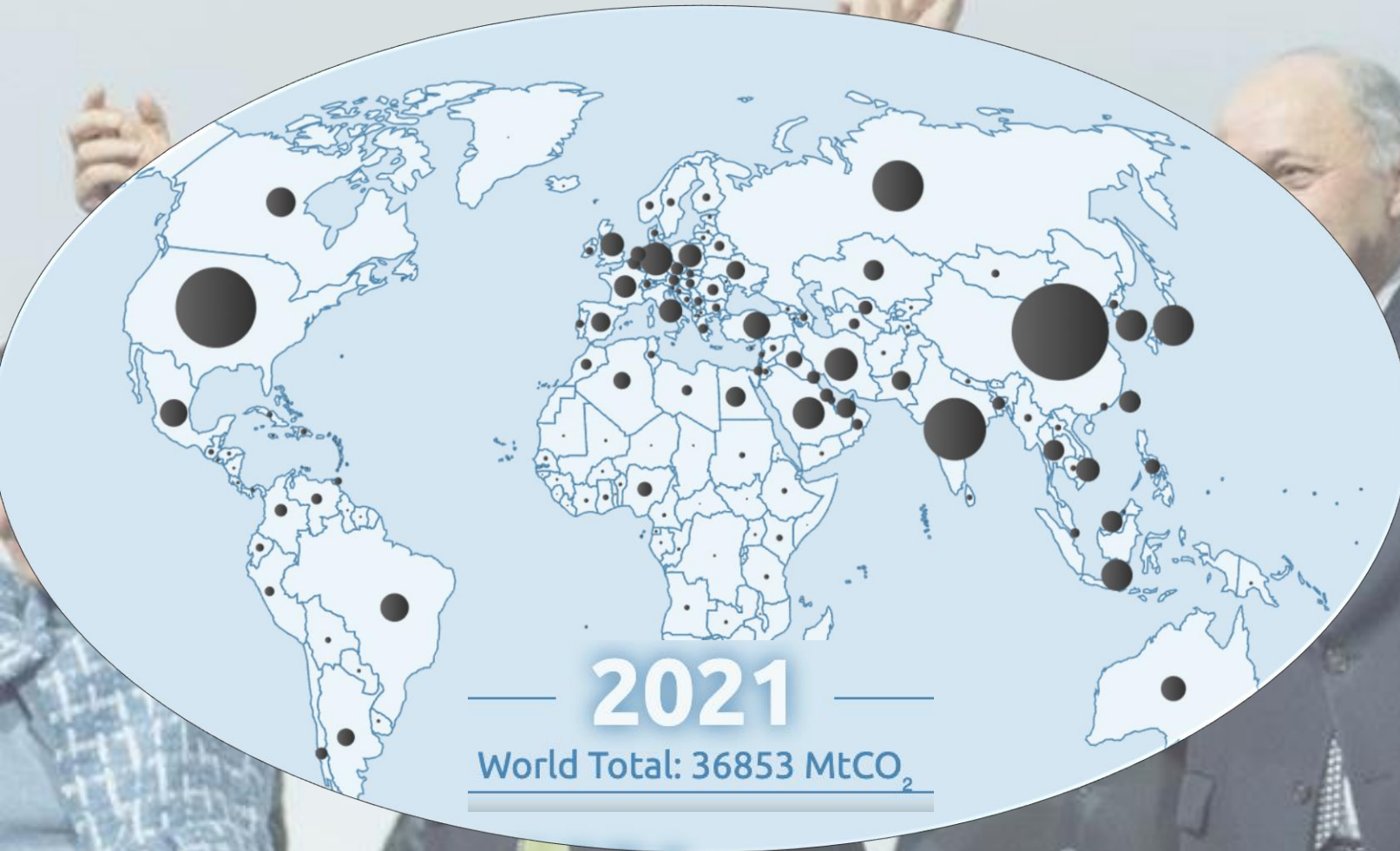
# Alternative Fuels Infrastructure Regulation

600  
Hydrogen  
Refueling  
Stations












# Paris Agreement



## WORLD EMISSIONS

Jan 1<sup>st</sup> - Sep 30<sup>th</sup>, 2023 / Jan 1<sup>st</sup> - Sep 30<sup>th</sup>, 2022

All sectors		<b>+0.4%</b>		(+96.6 MtCO <sub>2</sub> )
Domestic Aviation		+0.1%	<b>13.0%</b>	(+30.7 MtCO <sub>2</sub> )
Ground Transport		+0.6%	<b>3.6%</b>	(+174.9 MtCO <sub>2</sub> )
Industry		-0.1%	<b>-0.4%</b>	(-30.2 MtCO <sub>2</sub> )
International Aviation		+0.3%	<b>22.7%</b>	(+79.1 MtCO <sub>2</sub> )
Power		+0.0%	<b>-0.1%</b>	(-12.4 MtCO <sub>2</sub> )
Residential		-0.5%	<b>-5.8%</b>	(-145.4 MtCO <sub>2</sub> )

# Peak oil in this decade?



*“The shift to a clean energy economy is picking up pace, with a peak in global oil demand in sight before the end of this decade.”*

**IEA Executive Director Fatih Birol.**

**YES**



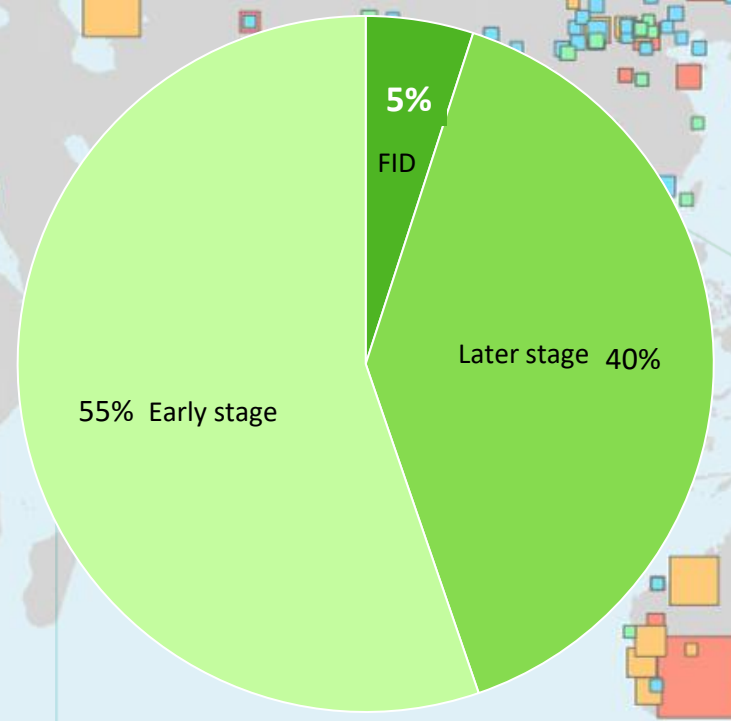
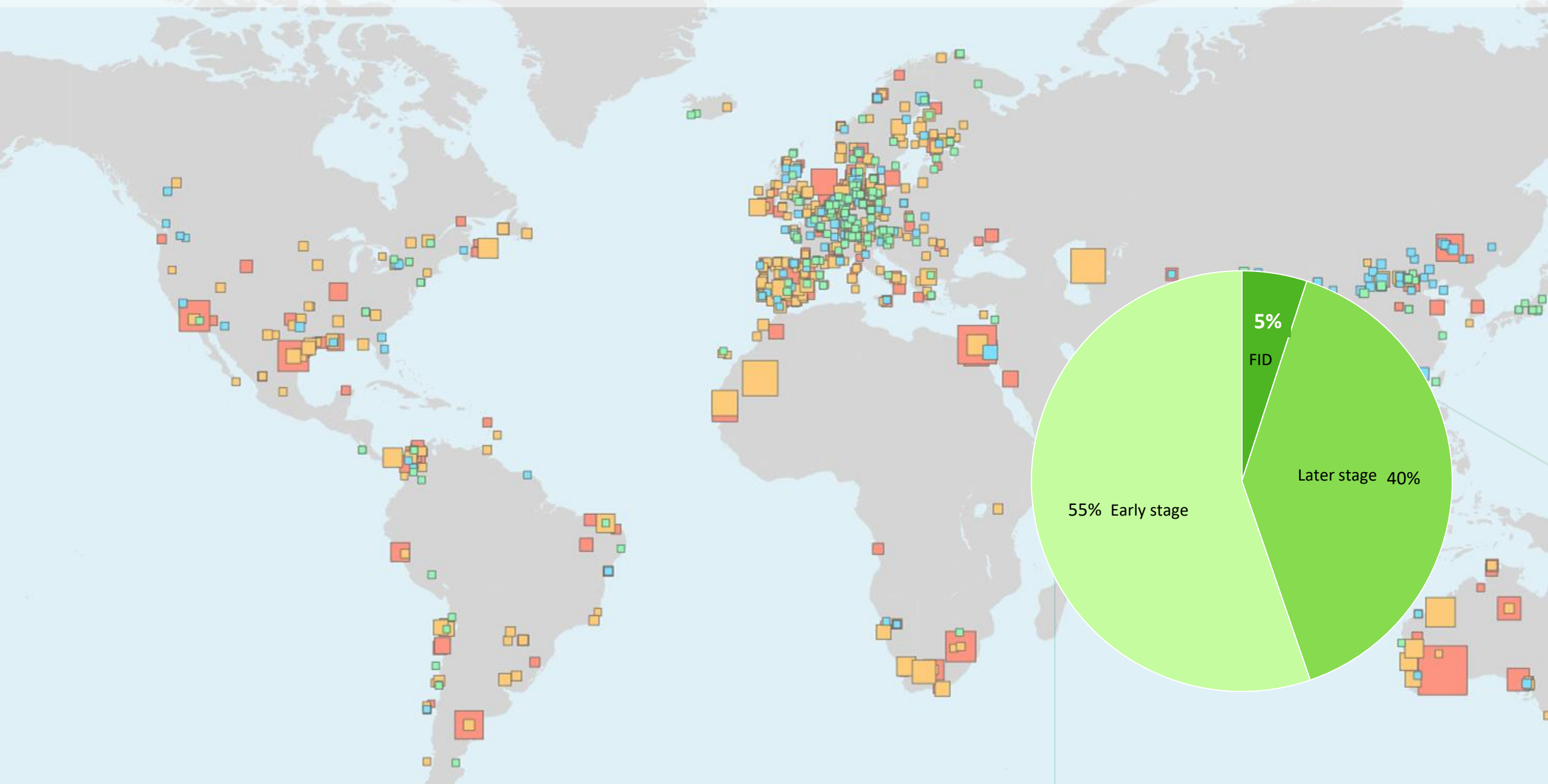
*“You can build scenarios, but we live in the real world, and have to allocate capital to meet real world demands.”*

**Chevron CEO Mike Wirth**

**NO**



# Hydrogen Projects





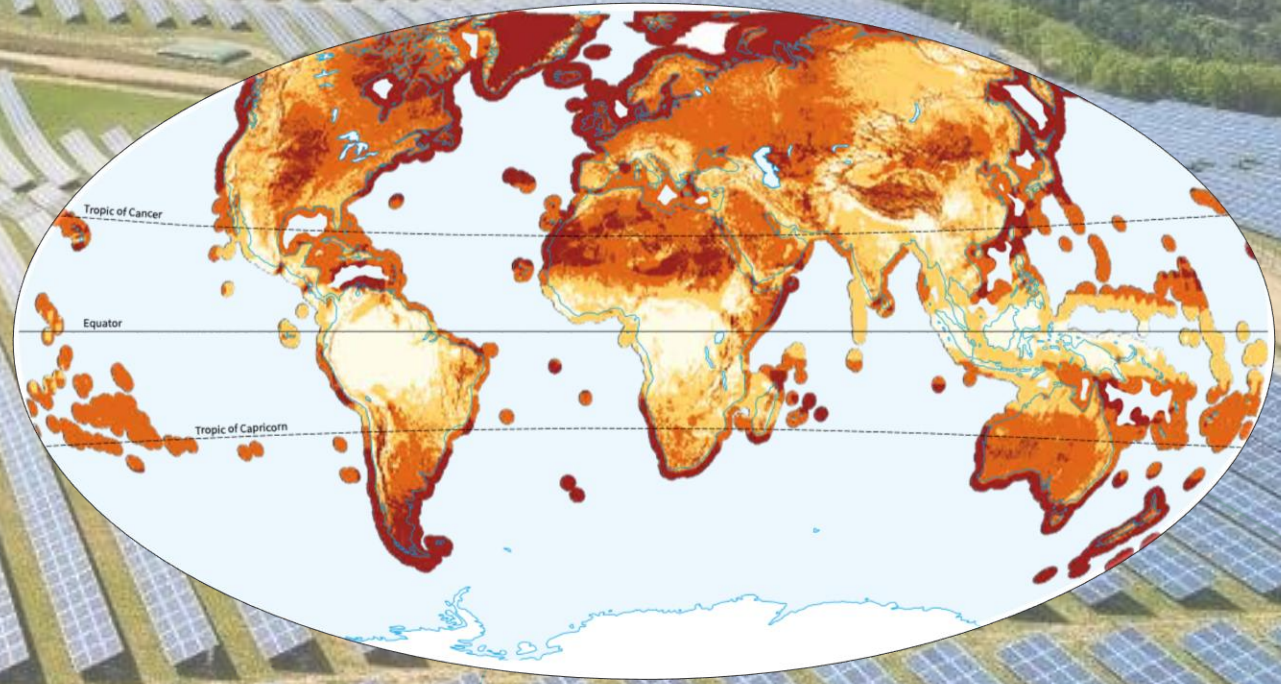
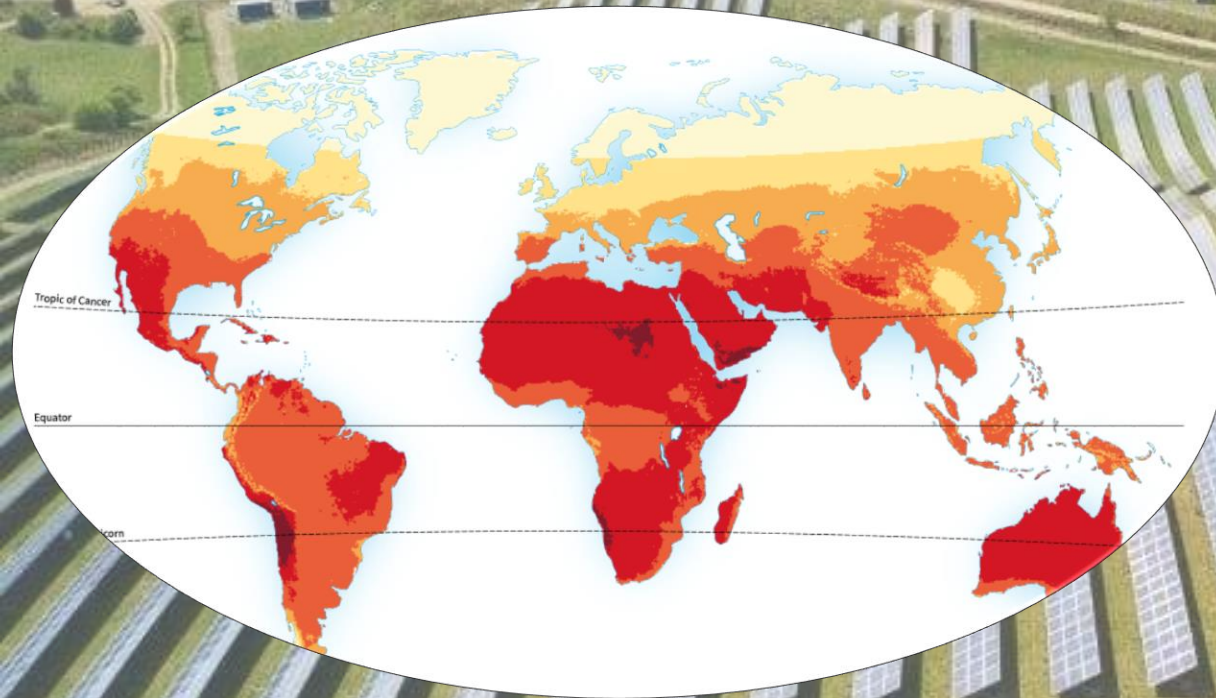
# Bottlenecks



DA  
Hourly  
Correlation

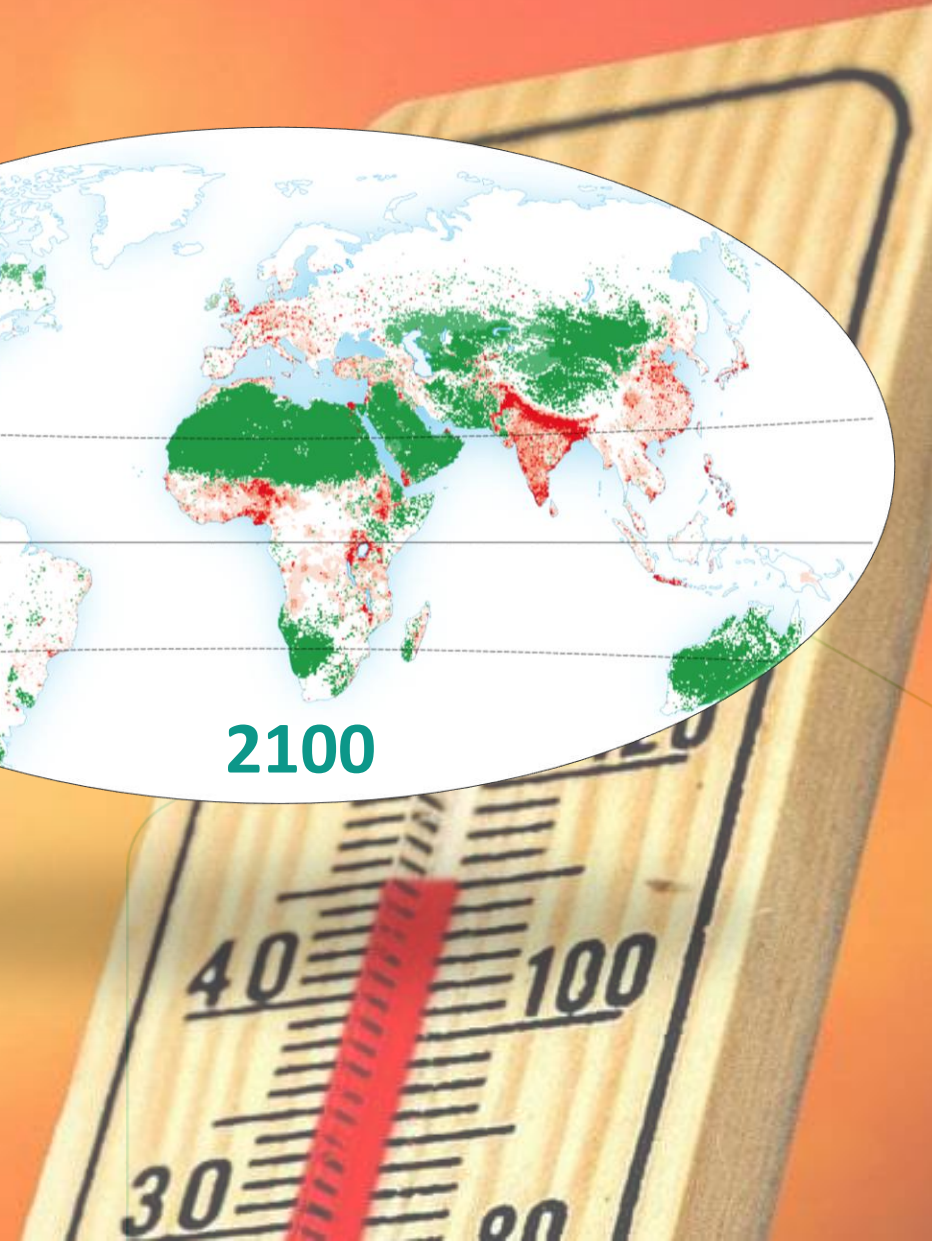
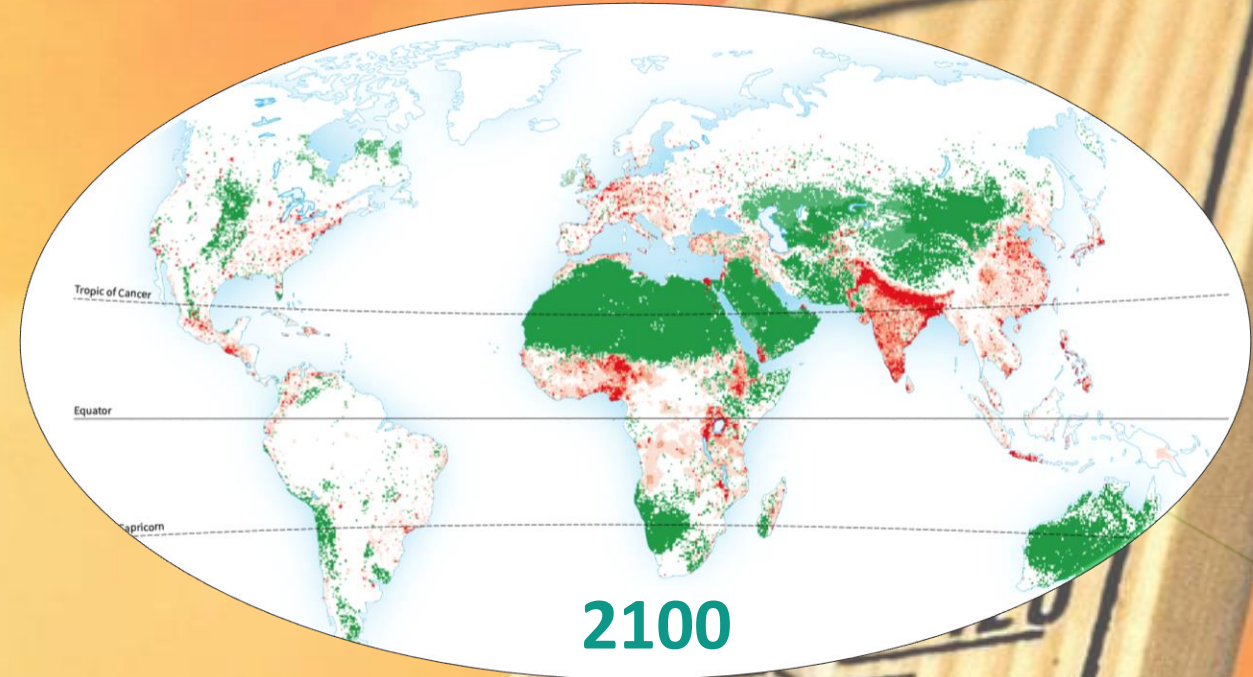
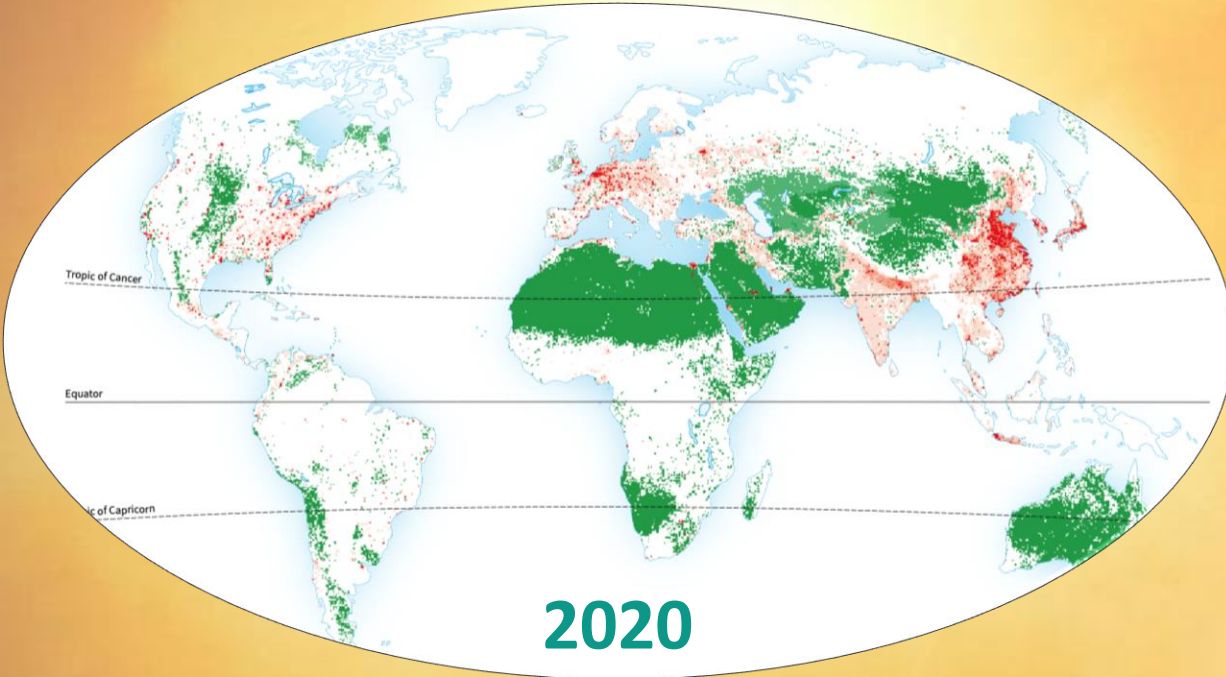


# Solar and Wind





# Global Heat Map





# Global Hydrogen Infrastructure



## 3 corridors

- North Sea
- Mediterranean
- Ukraine



 **Global Gateway**



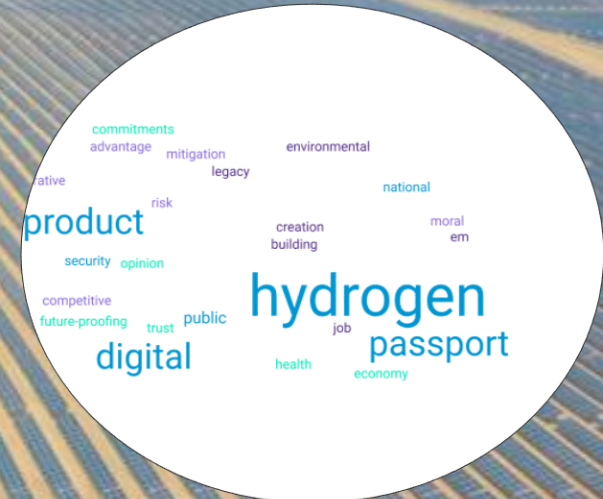
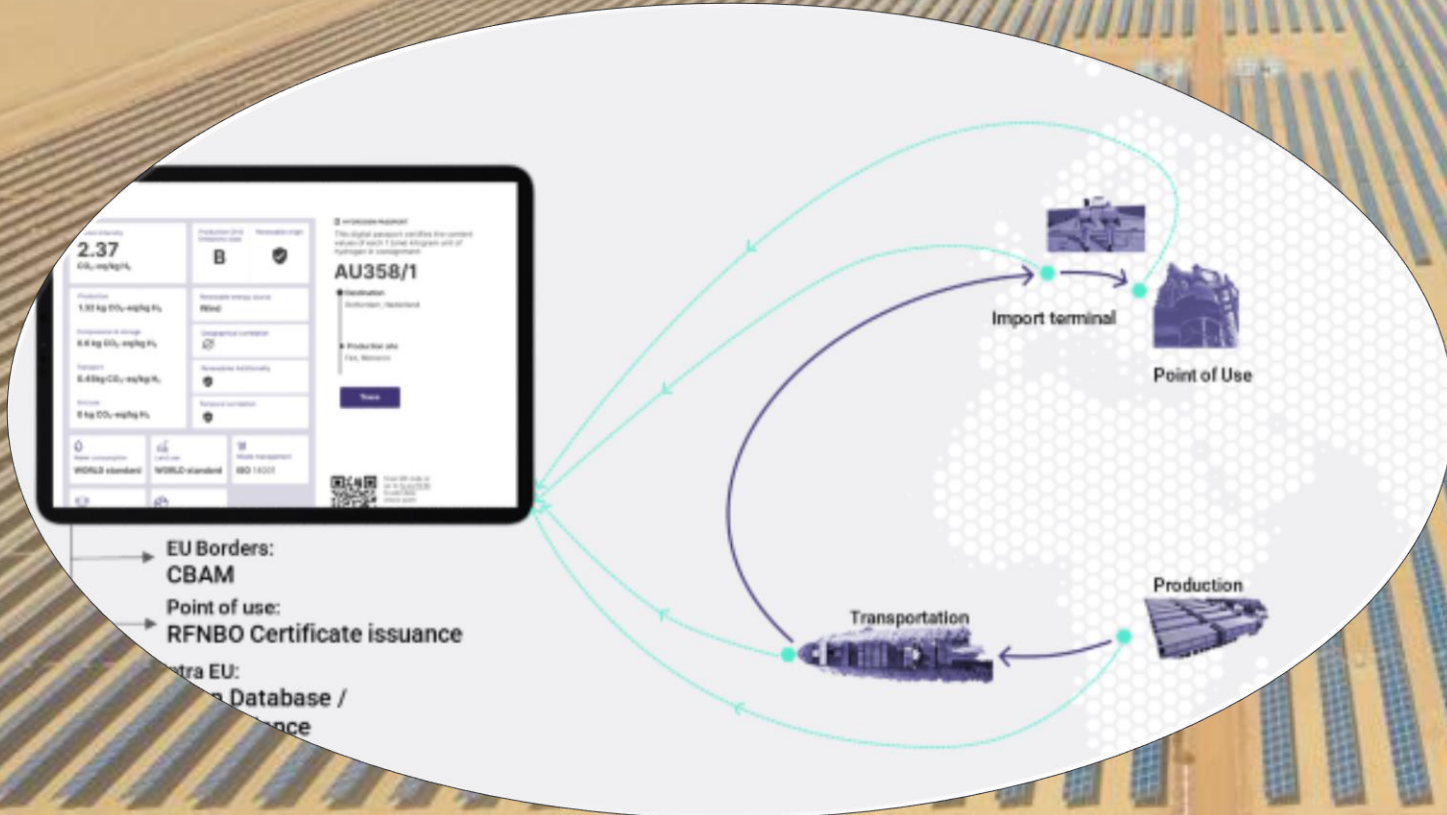
European Investment Bank



“Europe will do *whatever it takes* to keep its competitive edge”



# Certification for a Global Market







## Infrastructure investment

- Renewables
- Pipelines
- Ports
- Storage





## EU Energy Platform

- Aggregate EU
- coordinating infrastructure use
- negotiating with international partners





# Green Bonds







HYDROGEN TANKS

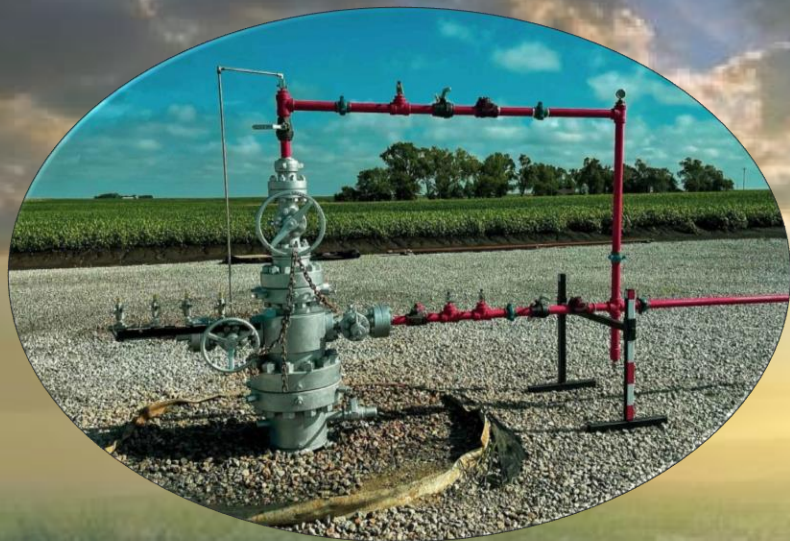
MÆRSK

**Technology Leadership**





# Future Production Pathways



White



Weed



Wind



Waste



# Thank You



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