

POWER TO

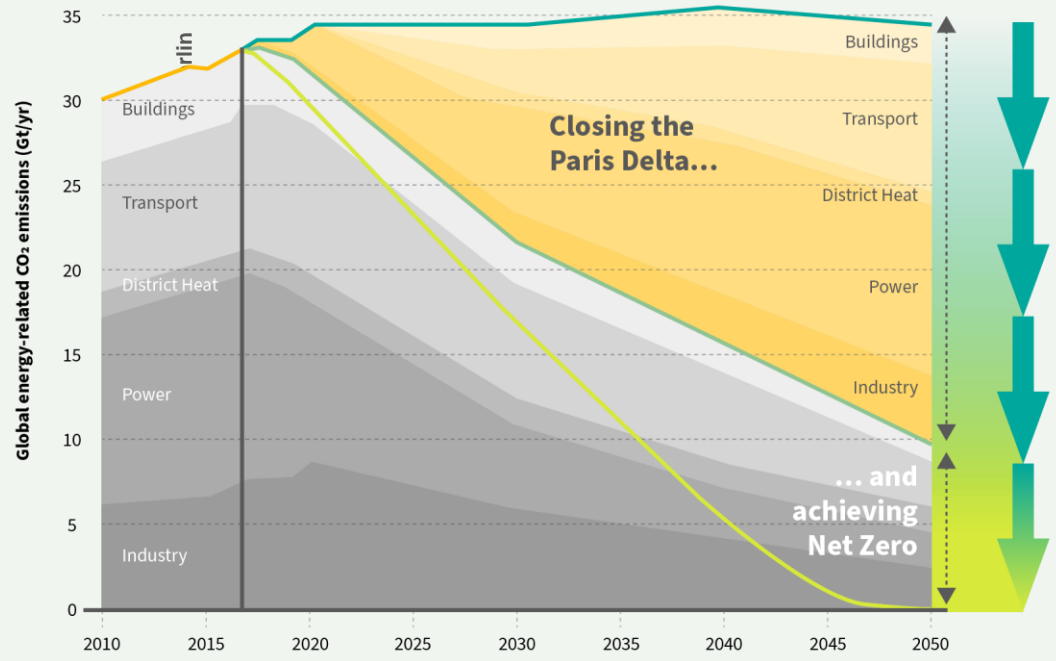
Renewable

X

Frank Mischler, Project Manager, International PtX Hub



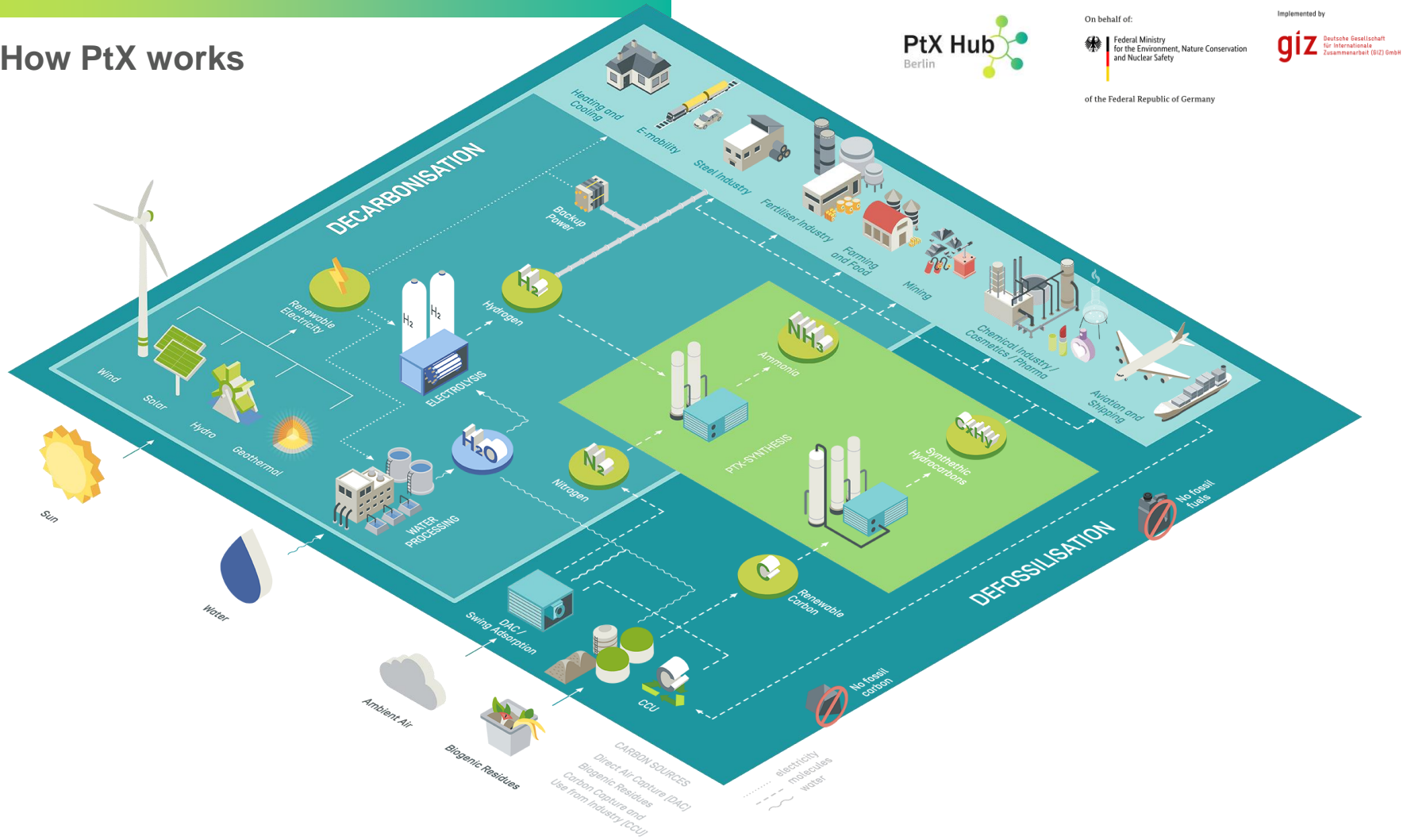
World economies must be climate neutral by 2050.



- 1 Improving energy efficiency in all sectors
- 2 Reaching 100 % renewable energy
- 3 Electrifying all sectors such as heating and light-duty transport
- 4 **Power-to-X** for the sectors and industries that cannot directly electrify.

3

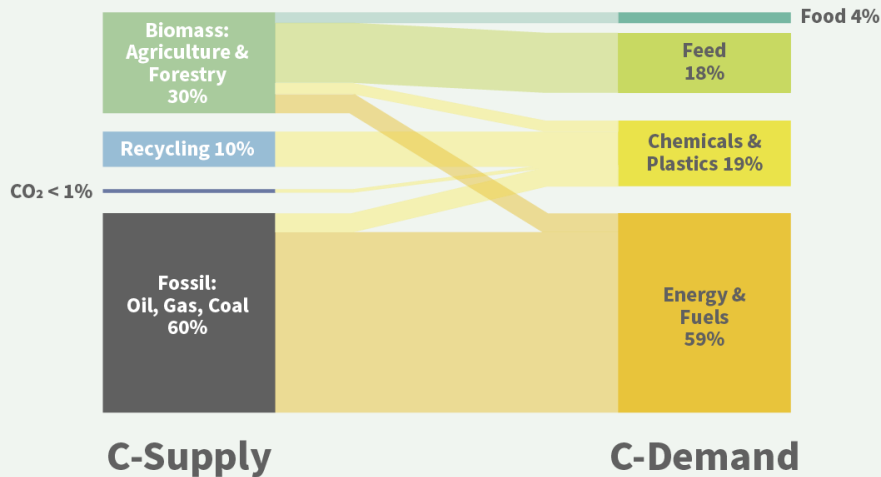
How PtX works



Renewable carbon

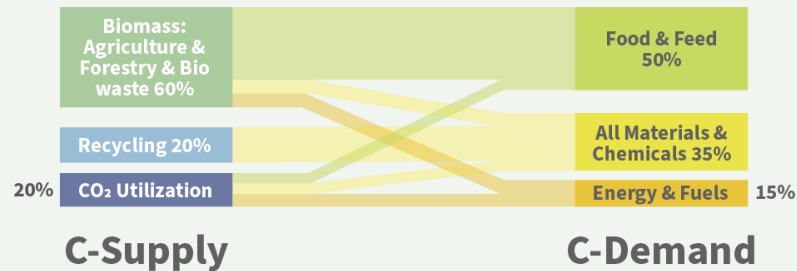
Carbon flows today and tomorrow

Carbon today

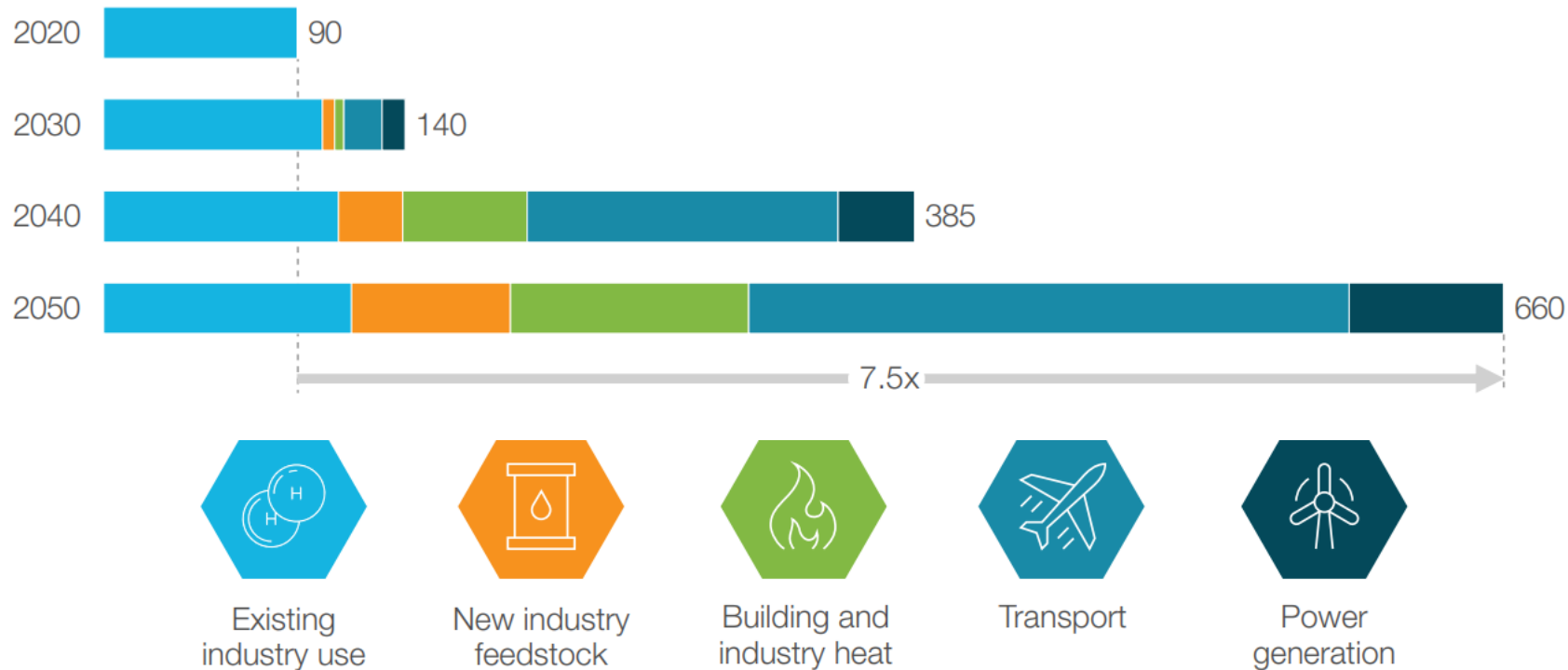


Carbon tomorrow (2050)

considering electric mobility + no fossil



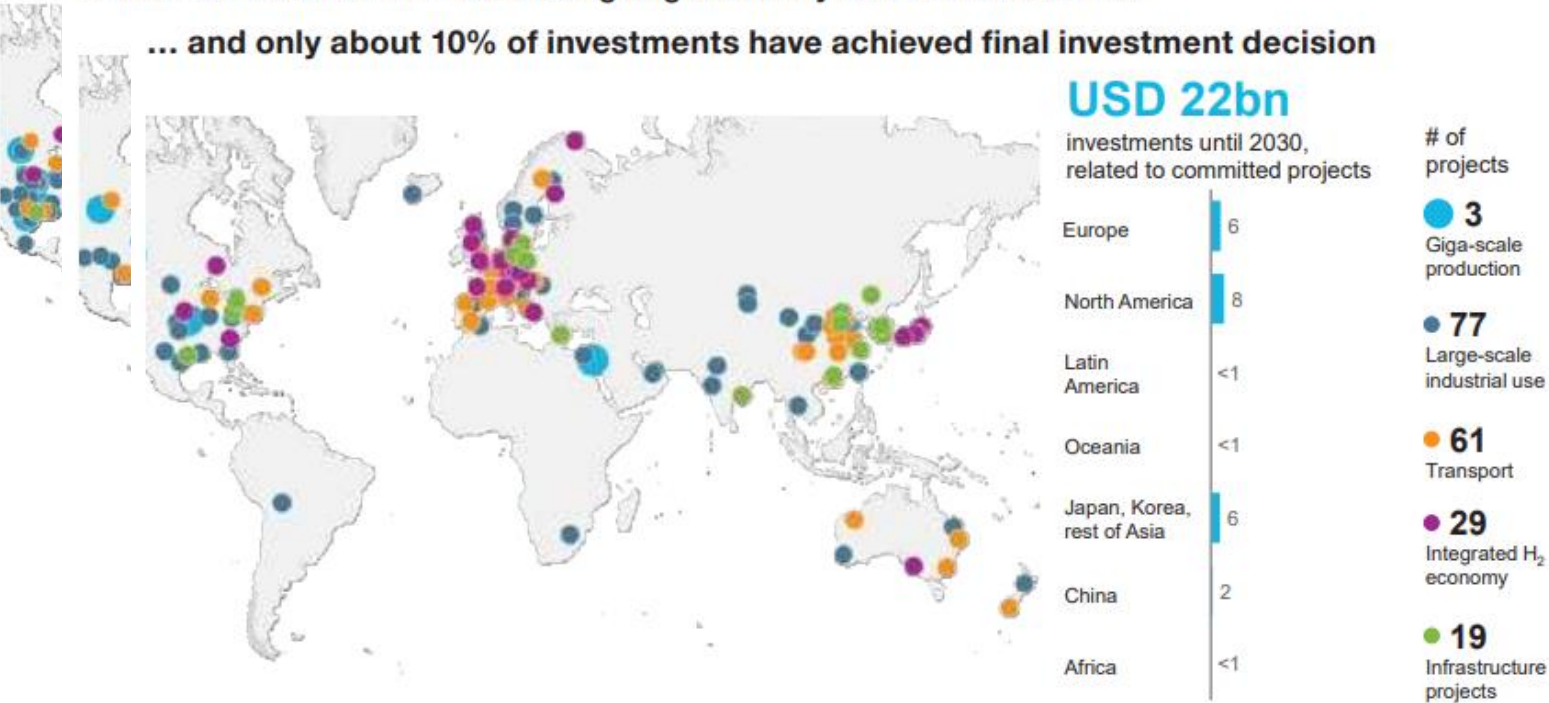
Expected hydrogen demand (mio tons)

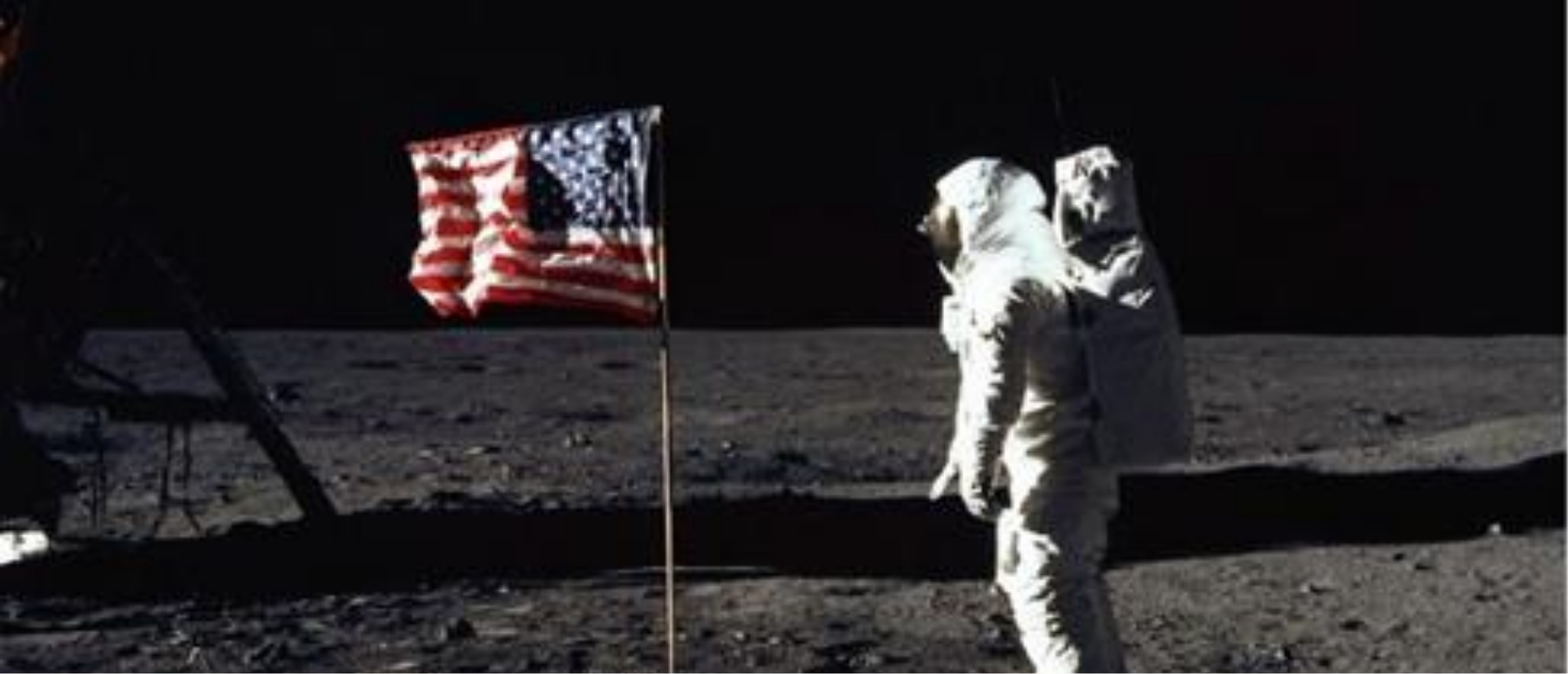


Source: McKinsey 2022, Global Hydrogen Flows

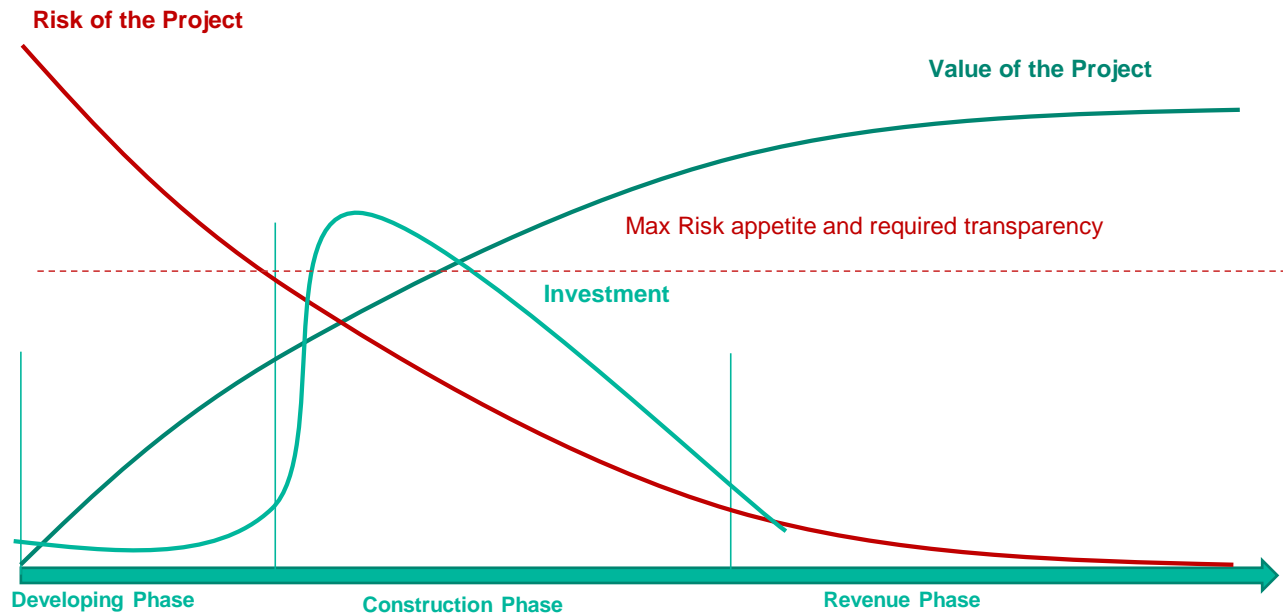
Huge announcements, little action

Out of 534¹ large-scale projects worth USD 240 bn announced globally ...
... 165 – about one third – are undergoing feasibility and FEED studies ...
... and only about 10% of investments have achieved final investment decision





First Mover advantage or disadvantage?



1

Select a niche that fits your economy

Kenya Exports (2021)



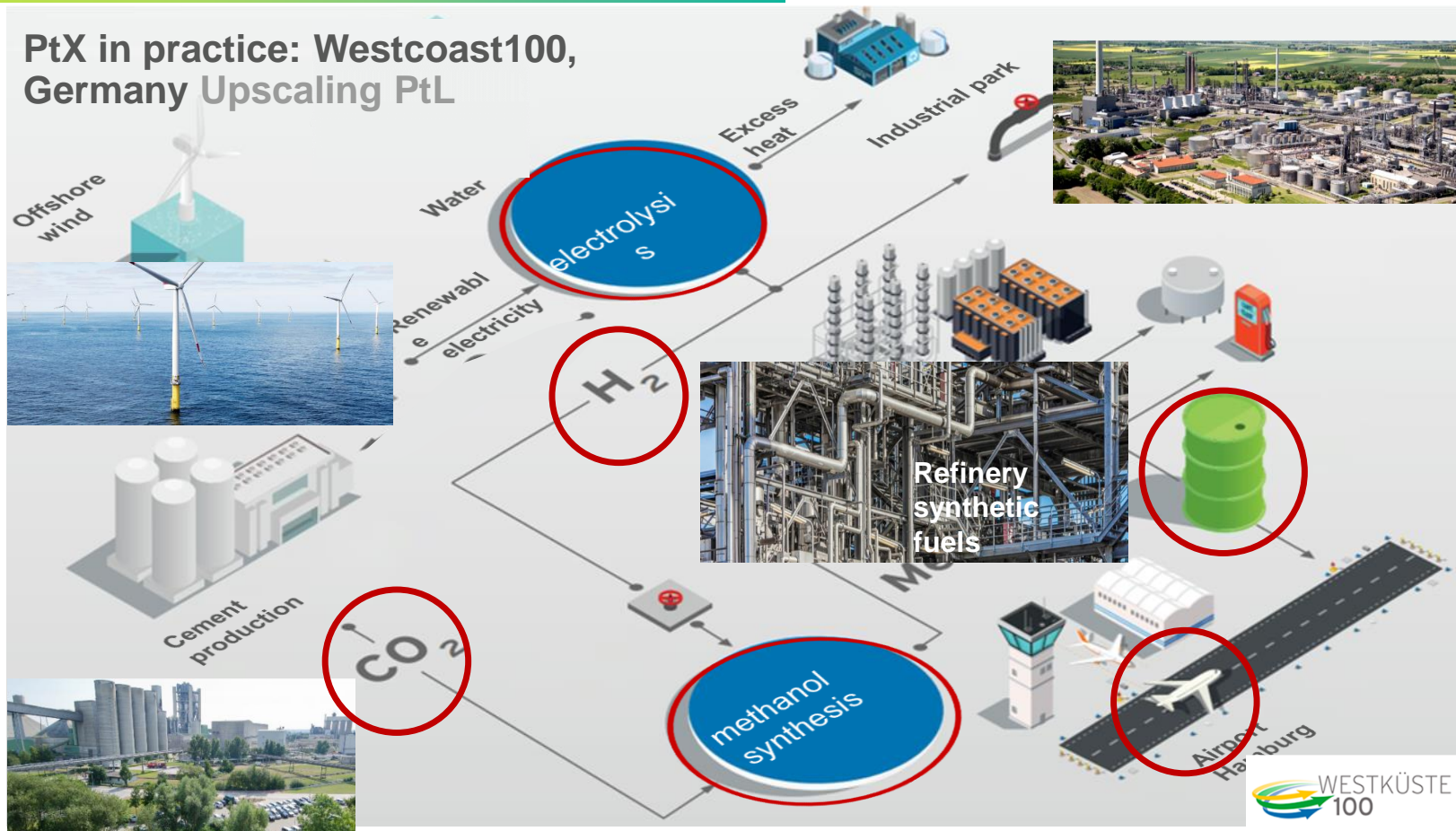
Implemented by

giz Deutsche Gesellschaft
für Internationale
Zusammenarbeit (GIZ) GmbH

2

**Think in industrial
clusters, not
individual projects**

PtX in practice: Westcoast100, Germany Upscaling PtL



- Source: Westküste 100, Grüner Wasserstoff und Dekarbonisierung im industriellen Maßstab, 2020.

Port of Saldhana, South Africa



3

**Get full buy-in by the
local population
(Social license to
operate)**

HYPHEN Namibia



The PtX Hub is a **knowledge & exchange platform** working on the breakthrough of **sustainable Power-to-X and green hydrogen** around the globe.

We work with ministries and governments, industry, NGOs, think tanks and experts.



We focus on



International networks & cooperations



Sustainability



Capacity building & knowledge exchange

We offer



[Cutting-edge research and insights on Power-to-X](#)



[A global network in 120 countries](#)



[Training workshops on Power-to-X](#)



[Expertise on the sustainability of Power-to-X](#)



[Advisory on partnerships and financing for Power-to-X projects](#)

Thank you.

Get in touch at info@ptx-hub.org or ptx-hub.org

LinkedIn



Frank Mischler
Project Manager
International PtX Hub
Frank.mischler@giz.de

and LinkedIn

Disclaimer

© PtX Hub Berlin – Catalysing defossilisation globally. |