

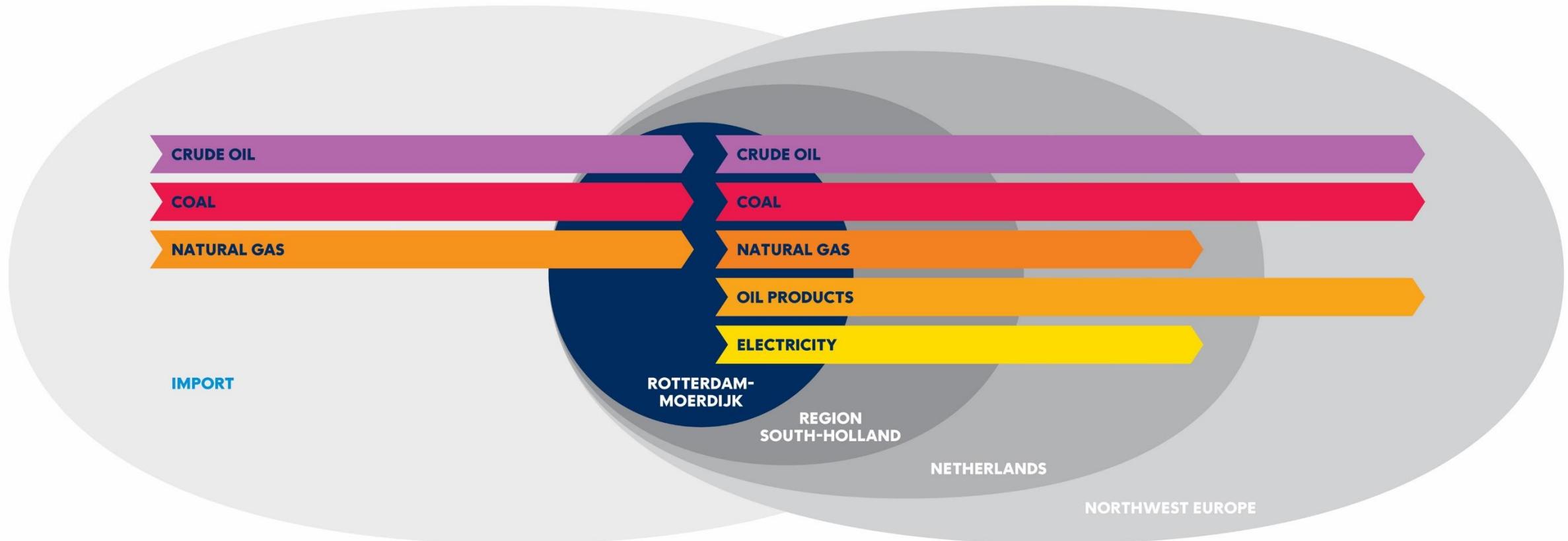
# ROTTERDAM: FROM FUEL HUB TO POWER-FUEL HUB



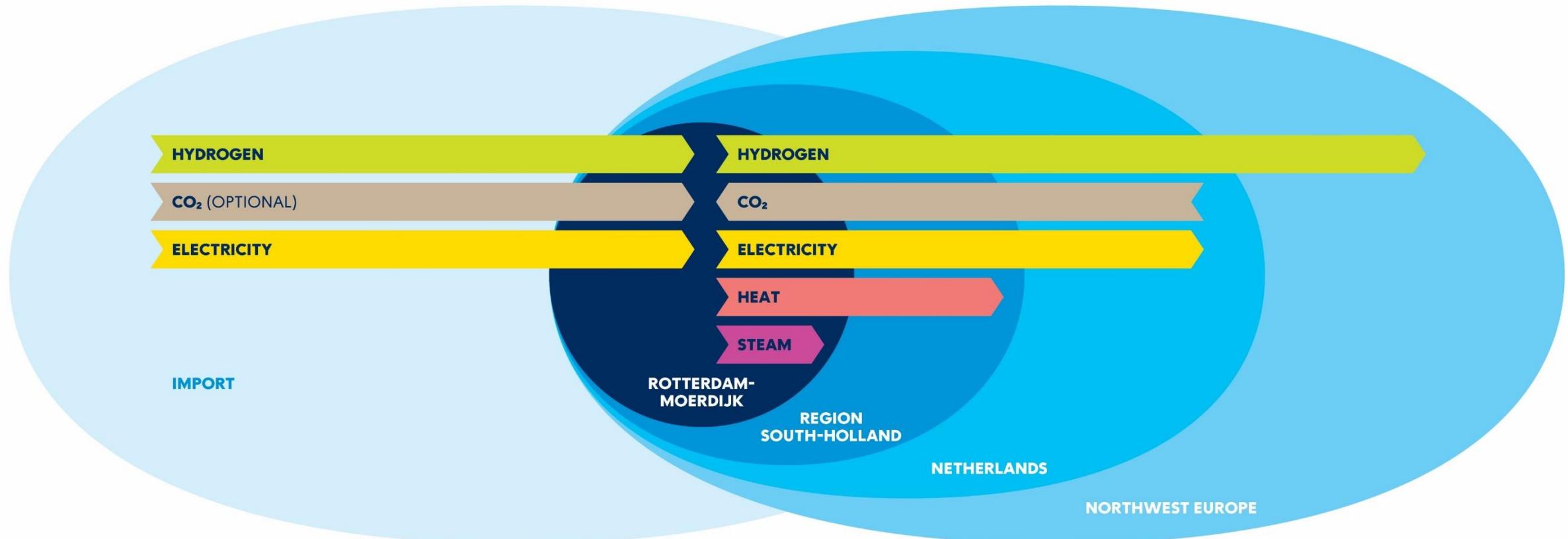
**Stijn van Els, Director Commercial Delivery, Port of Rotterdam**  
2nd Annual Powerfuels Conference



# FROM...

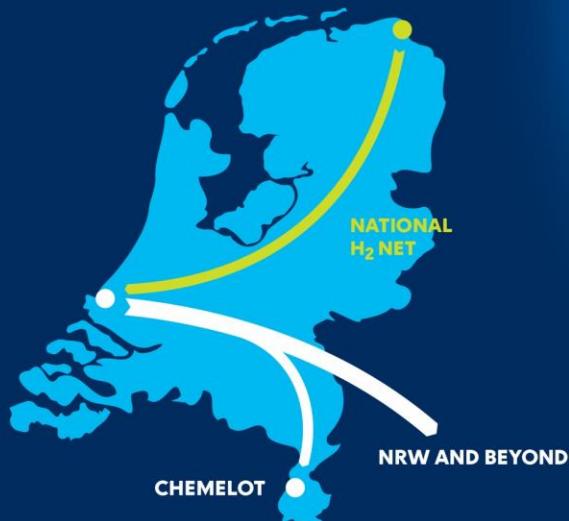


TO...

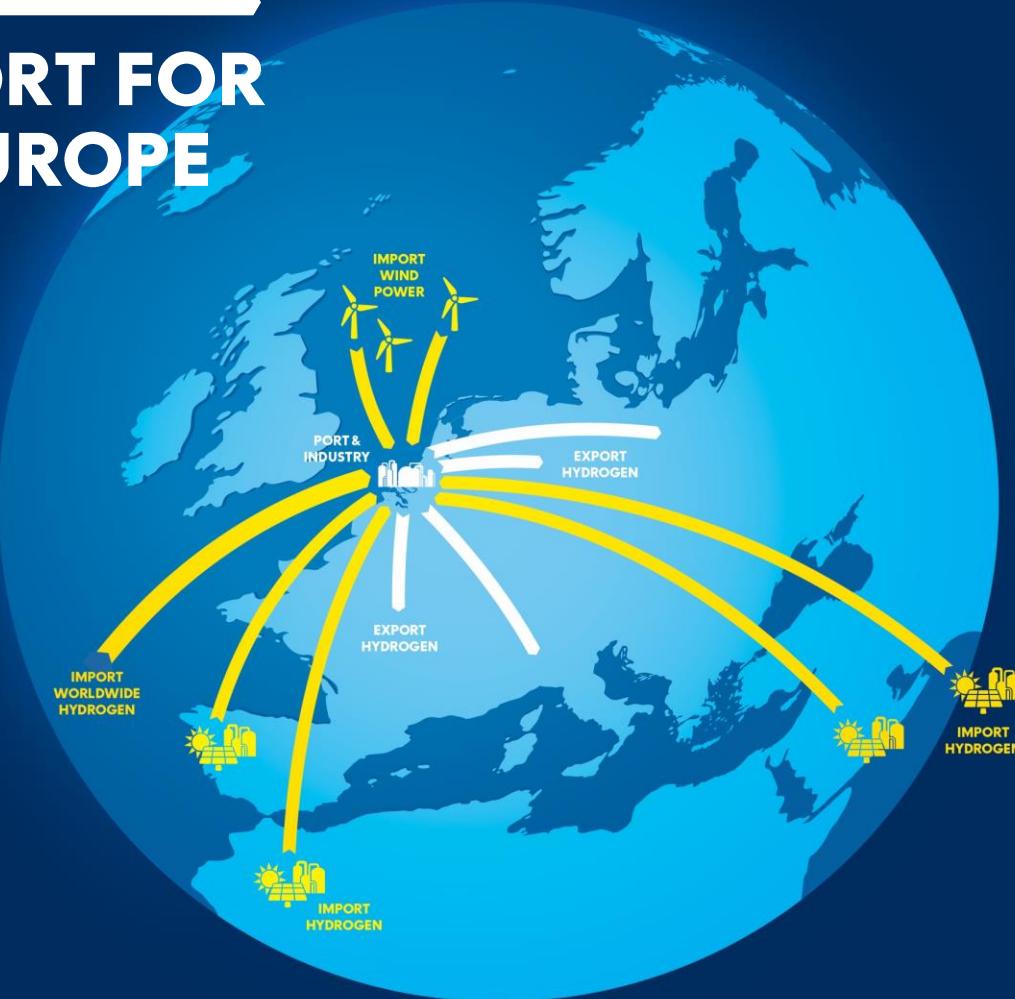




# THE ENERGY PORT FOR NORTHWEST EUROPE



Connection with national H<sub>2</sub> Grid,  
Chemelot and North Rhine-Westphalia (NRW).



Strong growth in hydrogen flow  
through Rotterdam due to imports.

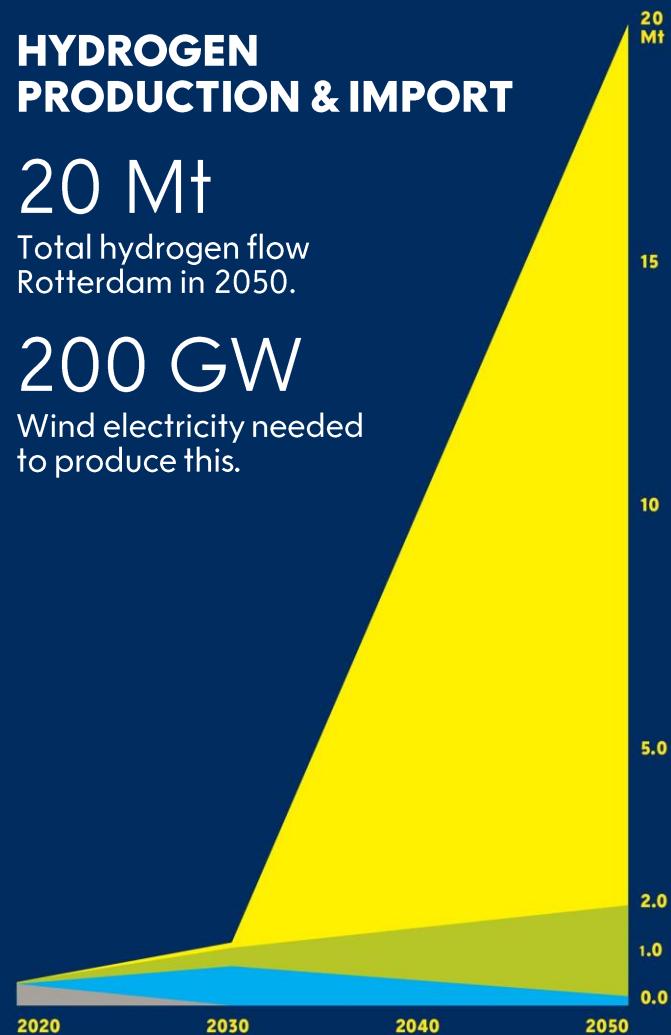
## HYDROGEN PRODUCTION & IMPORT

**20 Mt**

Total hydrogen flow  
Rotterdam in 2050.

**200 GW**

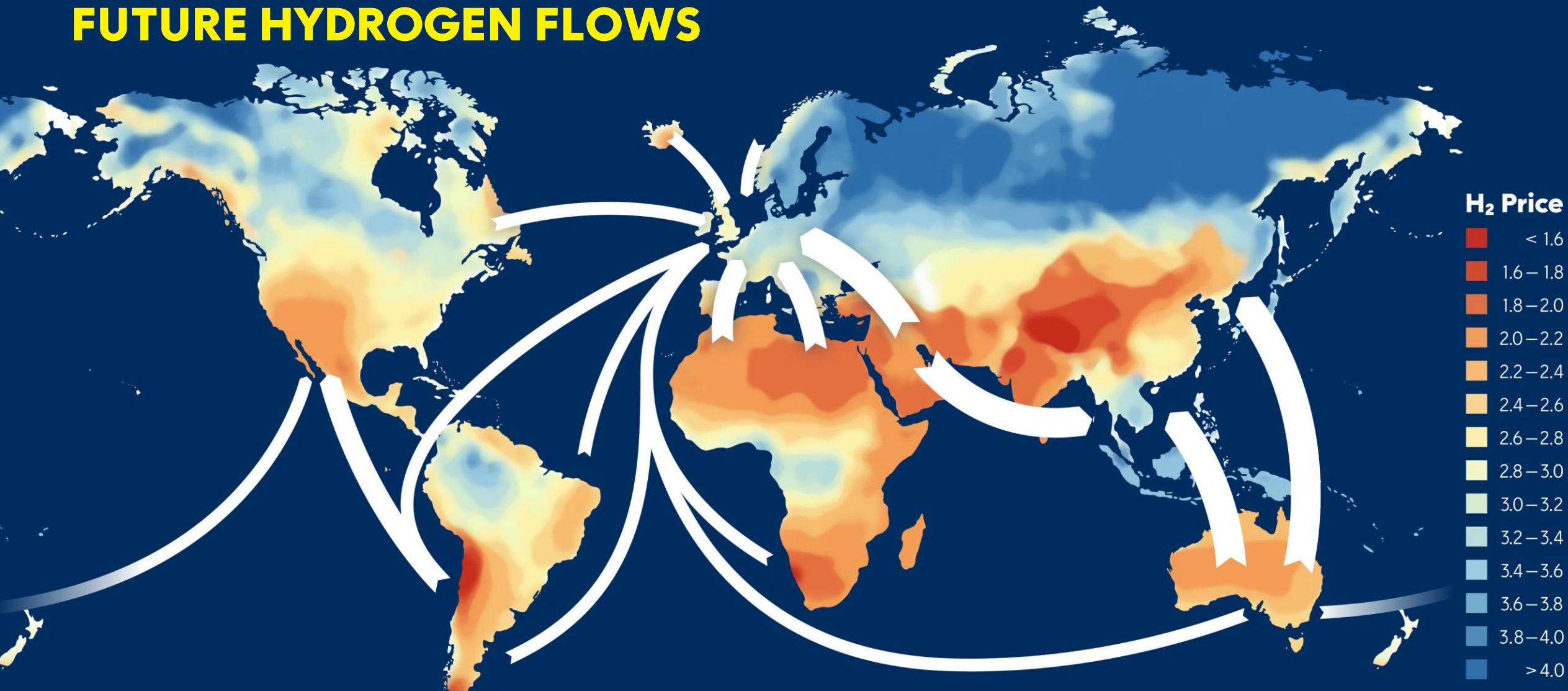
Wind electricity needed  
to produce this.



Grey hydrogen  
Blue hydrogen

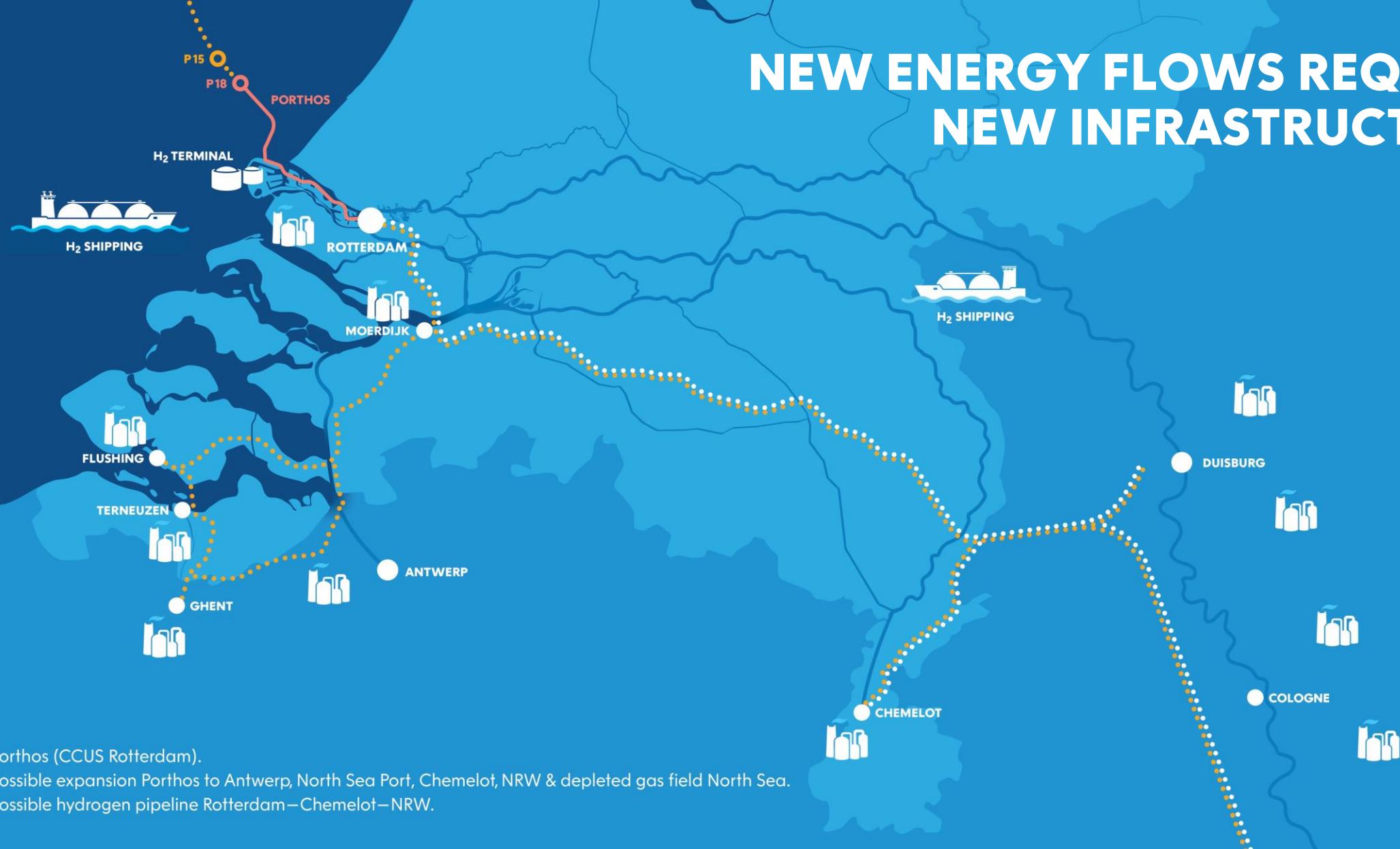
Green hydrogen  
Imported hydrogen

# FUTURE HYDROGEN FLOWS

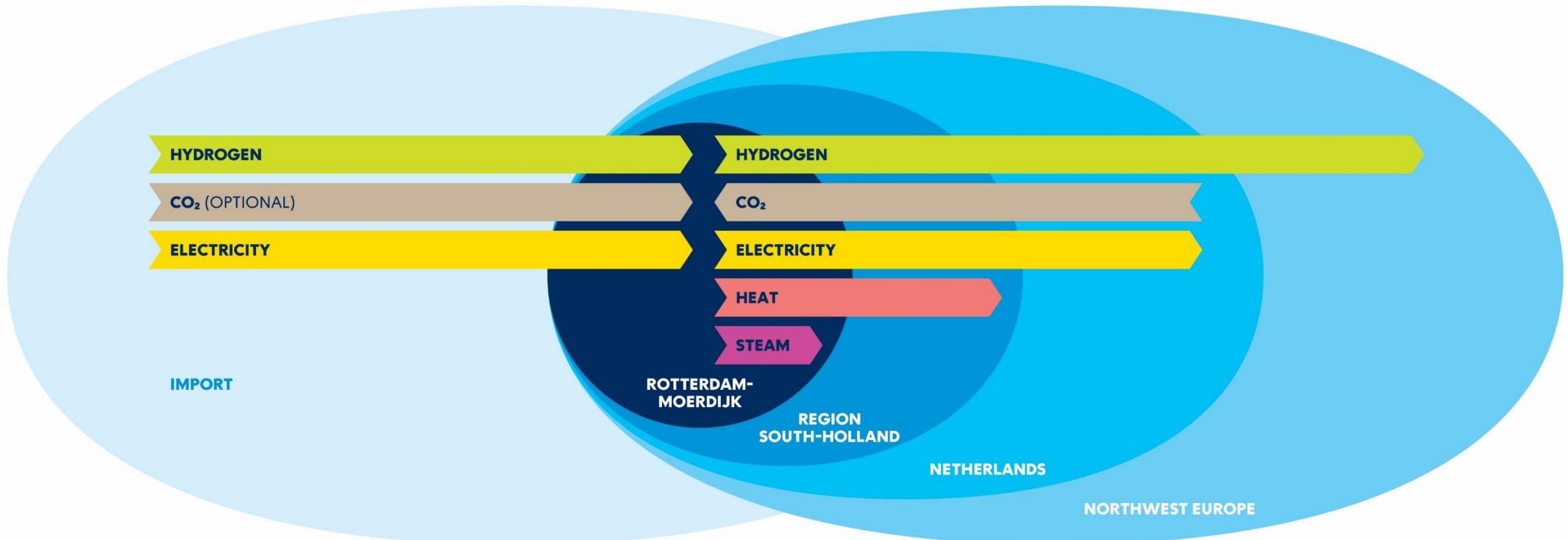


Source: ieo.org

# NEW ENERGY FLOWS REQUIRE NEW INFRASTRUCTURE



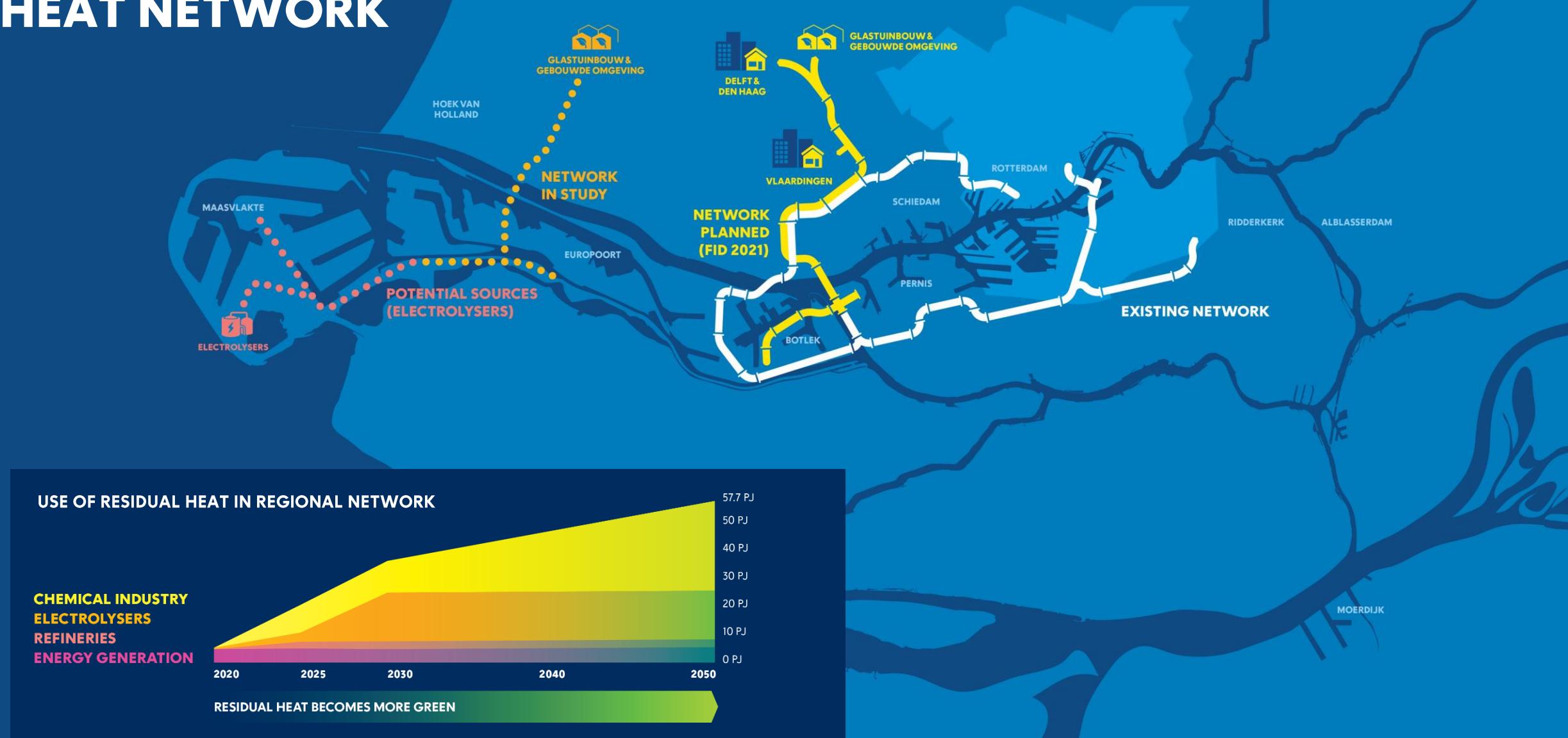
# ... BUT IT'S NOT ONLY ABOUT HYDROGEN



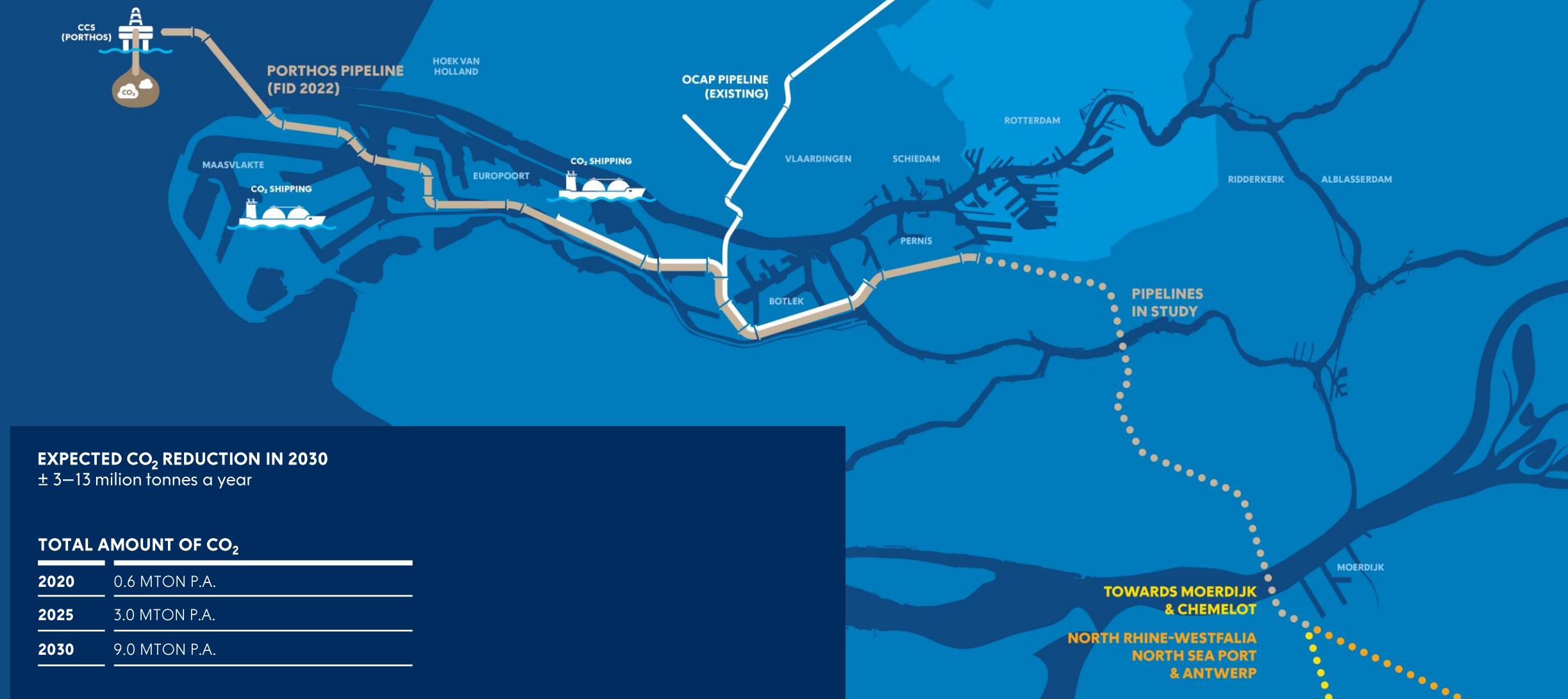
# 3 STEP STRATEGY



# HEAT NETWORK



# CCUS & PORTHOS



# ELECTRICITY GRID

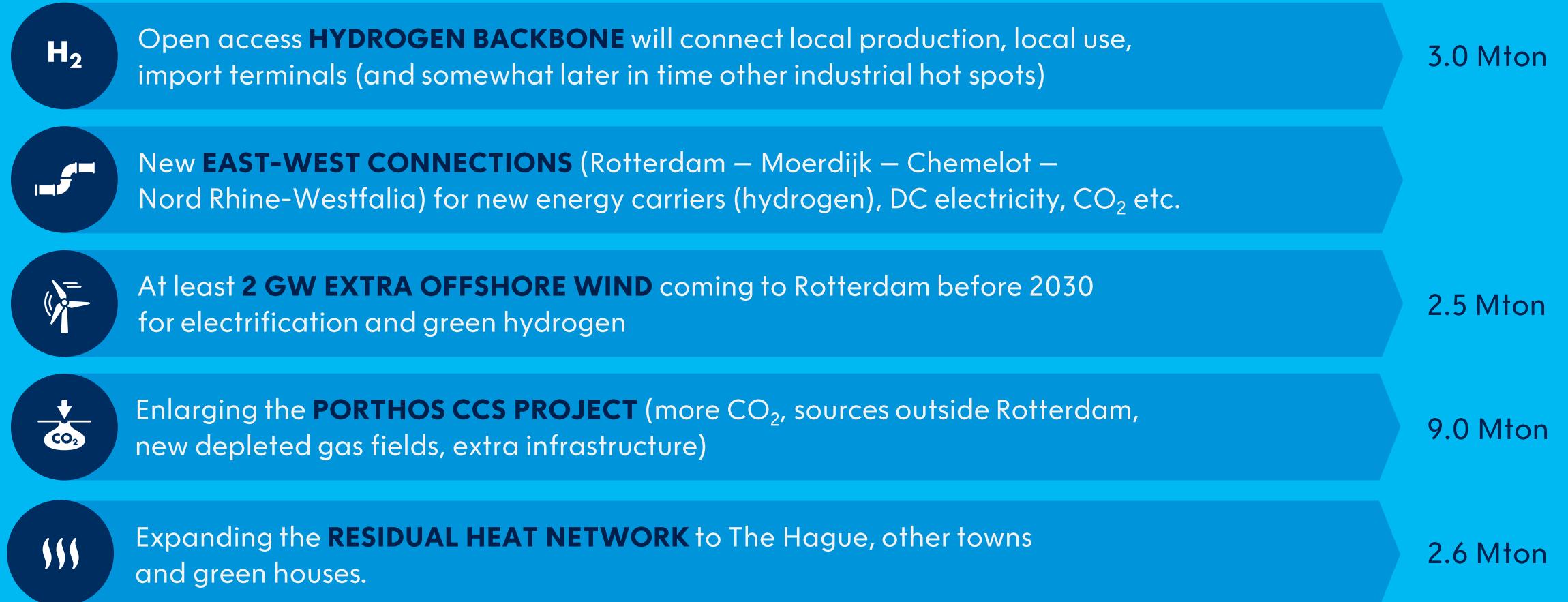


# HYDROGEN NETWORK



# 5 KEY PROJECTS FOR CLIMATE, INDUSTRY & SOCIETY

CO<sub>2</sub> reduction in 2030: 17,1 Mton





# THANK YOU