



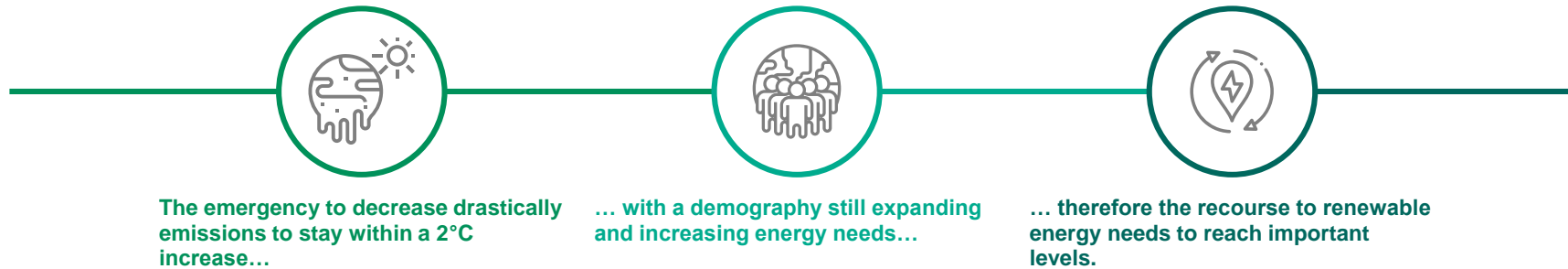
**WE SUPPORT BUSINESS TO
DEVELOP A HYDROGEN
ECONOMY**



BNP PARIBAS

The bank for a changing world

Hydrogen and the below 2°C scenario



Renewables challenges

- ▼ Intermittency & storage
- ▼ Transport & distribution
- ▼ Electrical batteries limitations

A paradigm shift

- 'Raw material' (i.e. renewable energy power) is now relatively cheap and available at scale
- Technology (i.e. electrolysis) is mature and allow **large-scale production** of clean H₂
- As a result, H₂ may end up representing a **substantial portion of the fuel mix**


The Hydrogen solution

- ▲ Acts as a buffer and can bridge a part of the gap between intermittent renewable power supplies and demand
- ▲ Enables **large-scale renewable 'electrons' integration** in the transportation, buildings and industrial sectors

BNP Paribas European hydrogen activities



Projects under review in many H₂ fields




Green H₂ production
Production

- H₂ production
- Bank products: Green bonds, Project financing, Advisory




Start-up projects
Start-up

- Various start-up projects
- Bank products: equity participation, package of banking services, international development




Power-to-gas projects
Infrastructure

- Decarbonize distribution gas network (transition from natural gas to hydrogen)
- Bank products: Green bonds, Project financing




Steel industry
Pilot projects

- Cooking coal can be replaced by H₂ during steel making process
- Bank products: Project & structured financing, Green bonds, WC solutions



Optimized Hydrogen Ecosystem for Trucks
Mobility

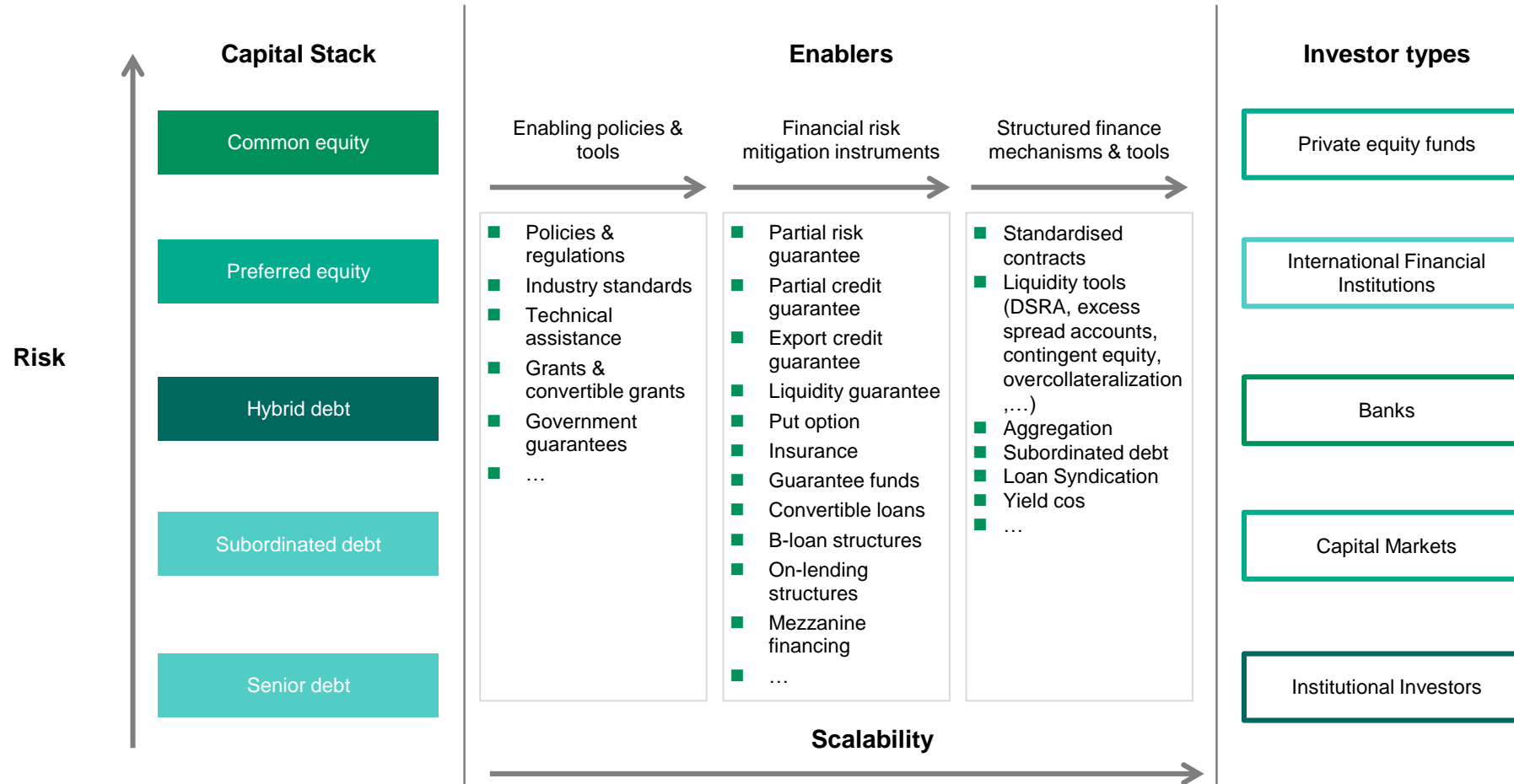
- Infra-Co financing: H₂ production, distribution and captive fleet
- Bank products: Leasing, Debt Solutions, Advisory



Other H₂ mobility applications
Mobility

- Trains, boats, sea shuttle, bikes
- Bank products: working capital solutions, equity participations, Leasing, Advisory

The role of Structured Financing in upscaling of H₂



Persons of contact



BNP PARIBAS
CORPORATE & INSTITUTIONAL BANKING

Frank Sibert

Head of Sustainable Business, Germany
BNP Paribas Frankfurt am Main

BNP Paribas S.A – Niederlassung Deutschland
Europa Allee 12– 60327 Frankfurt Am Main
Tel.: +496971931316
Mobil: +491721074179
Email: frank.sibert@bnpparibas.com

