



SUSTAINABLE DEVELOPMENT GALS

UNIDO's Global Programme for Green Hydrogen in Industry

- Launched in July 2021
- Aims to foster the application of green hydrogen in industry in developing countries and transition economies.
- Supported by Austria, Germany, Italy and the International Hydrogen Energy Centre in China









UNIDO's Global Programme for Green Hydrogen in Industry

New pathways for industrial and economic development in line with climate goals

Overcome challenges

- **Policies**
- Costs
 - Investment
 - Local skills

Develop local industries

through domestic GH2 production & application



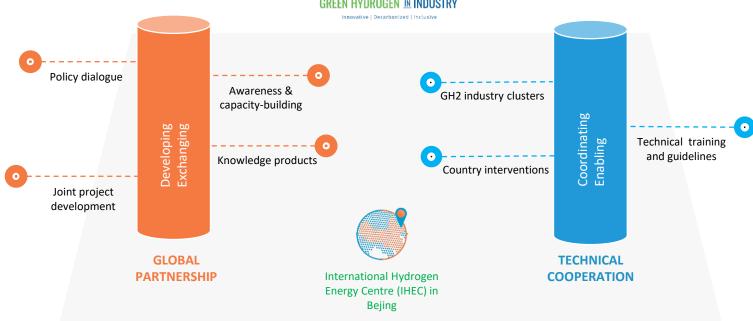
- Enhance national energy **security**
- Stimulate innovation and grow markets for hydrogen technologies and exports
- Drive the increase of renewable energy
- Create **new jobs**





Programme Structure









Global Partnership

WHAT IS THE GLOBAL PARTNERSHIP?

Platform for Member States, industries, private sector, investors, research and academic institutions.

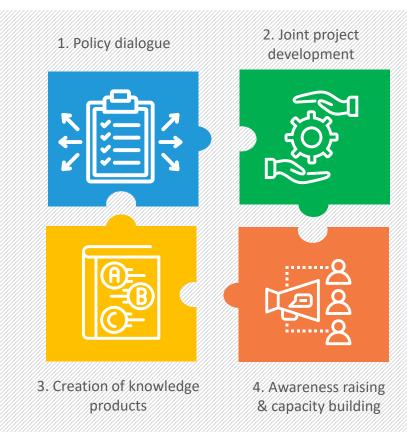
It provides opportunities for policy dialogue, awareness-raising, knowledge sharing and supports TC cooperation.





SUSTAINABLE DEVELOPMENT GALS

Global PartnershipKey activities









1. Policy Dialogue

The Policy dialogue aims to support the scale-up of production and application of GH2 in industry by:

- Aligning climate and industrial policy development targets
- Promoting collaboration, e.g. on regional GH2 roadmaps
- **Exchange of best policy practices** for creating conducive frameworks for GH2 in industry









1. Policy Dialogue

Facilitating coordination - South Africa

HYDROGEN SOCIETY
ROADMAP FOR SOUTH AFRICA 2021

DEPARTMENT OF SCIENCE AND INNOVATION





We have established a partnership with UNIDO. It will assist with creating an agile, effective and relevant **National Hydrogen Energy Centre** that will institutionalise the implementation of the Hydrogen Society Roadmap.

Dr. Blade NzimandeMinister of Higher Education, Science and Innovation

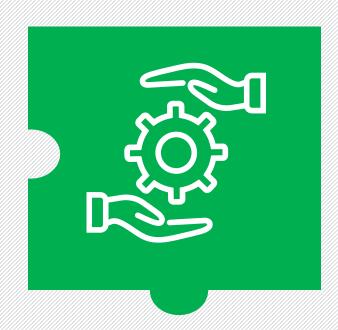






2. Joint project development

- Assisting countries in partnering for GH2 projects, industrial clusters and value chains
- Mobilizing funds and investments for activities at the country level
- Pooling expertise, knowledge and resources by connecting stakeholders



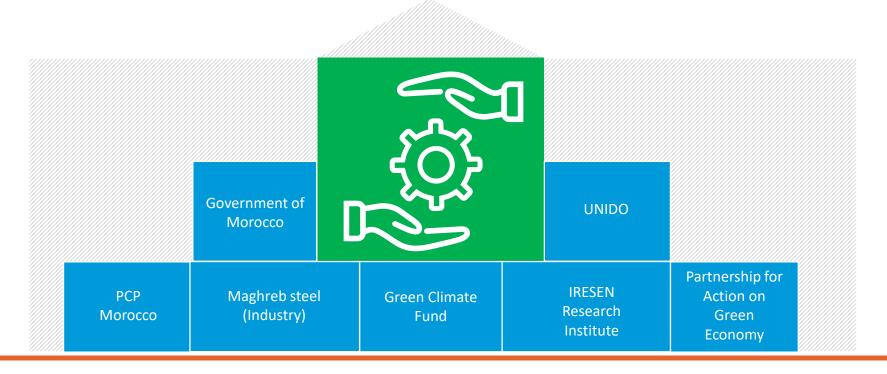






2. Joint project development

Partners for project development in Morocco



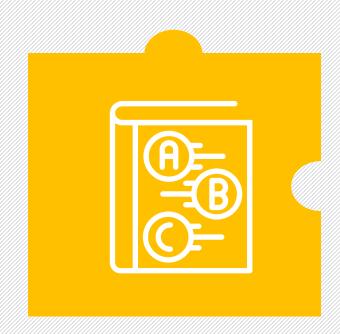






3. Creation of knowledge products

- Developing knowledge products in form of guidelines, training manuals and best practices, etc.
- Addressing topics: "hard-to-abate sectors, sector coupling, technical and safety standards, business models and enabling policies".









3. Creation of knowledge products

Development of Technical Guidelines for UNIDO GH2 Cluster Model



















3. Creation of knowledge products

A Global Affair: International standards to facilitate global trade



RESPONSE

Facilitate development of standards to enable commercialization of H2 and establish markets







4. Awareness raising & capacity building

- Global awareness and capacity building for different stakeholders on social, economic and climate impacts of GH2 in industry
- International workshops, events and skills development and trainings







Member States Dialogue – First Session 1st April 2022

170

Participants of Member States

Donors remarks:







Countries remarks:





Presented cooperation initiatives:

- Facilitating coordination among policy makers and private sector to implement the South African Hydrogen Society Roadmap H2 Centre establishment
- Preparing a GH2 industrial cluster for iron and steel industry with Morocco
- Engaging with ENI in developing joint projects and knowledge products
- Coordinating with the International Hydrogen Energy Centre (Beijing) on H2 standards
- Cooperating with World Energy Council Austria for awareness raising events and youth engagement















Global Partnership: together we can do more!



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https://www.unido.org/green-hydrogen