How might we ensure that (digital) startups and local innovators benefit from the potential in the green hydrogen (GH2) sector in South Africa?

Summary of results of the ii2030 Green Hydrogen Edition July 2023

ii2030

INCLUSIVE INNOVATION 2030



2030



Make-IT in Africa

ii2030 GH2 in Africa Edition

Green hydrogen can be transformative for Africa. The sector will create green jobs and new opportunities for local startups and innovators.

Now is the time to create the fertile ground for entrepreneurs, who often lack access to adequate finance, skills, or even awareness of opportunities in the GH2 sector.

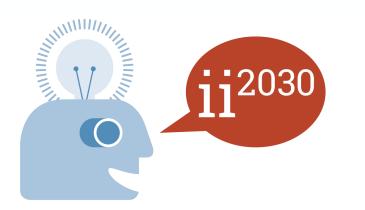
ii2030 is a catalytic process that begins with a problem and an opportunity and ends with a prototype of a systemic solution that can be implemented to strengthen the GH2 support ecosystem for local startups and innovators in South Africa, Kenya and Namibia.



Photo: Co-creation in Cape Town in June 2023 (Endeva)

GH2 in Africa Edition

How might we ensure that (digital) startups and local innovators benefit from the potential in the green hydrogen sector?





ii2030 Journey in South Africa

BILATERAL INTERVIEWS

December 2022 -February 2023

60 min interviews

Identify inhibitors and enablers in the system

SYSTEM CHALLENGE WEBINAR

9 March 2023

120 minute webinar

Understand system dvnamics

SYSTEM OPPORTUNITY PAN-AFRICAN **WEBINAR**

WEBINAR

change

23 March 2023

120 minute webinar

Identify levers for

20 April 2023

120 minute webinar

Continent-wide peer exchange

CO-CREATION EVENT

8 June 2023

1 day workshop

Co-create solution to positively disrupt the system

CELEBRATION WEBINAR

September 2023

60 minute online event

Pitch solutions and seal commitment for implementation

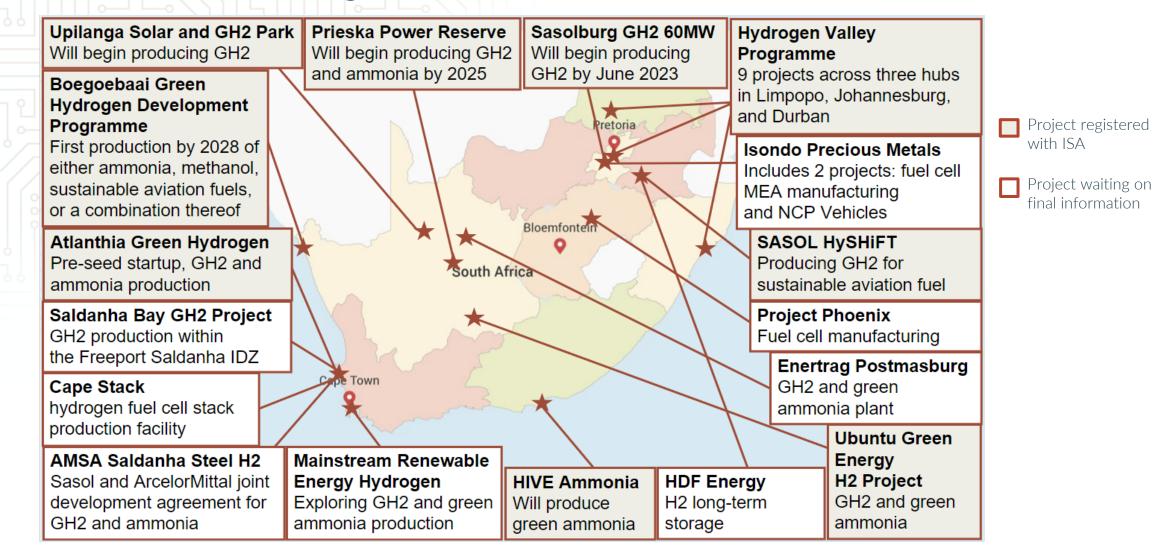
IMPLEMENTATION PRFPARATION

July – December 2023

Develop project documents with main stakeholders

Understanding the System: Status of the GH2 Sector in South Africa and Levers for Change

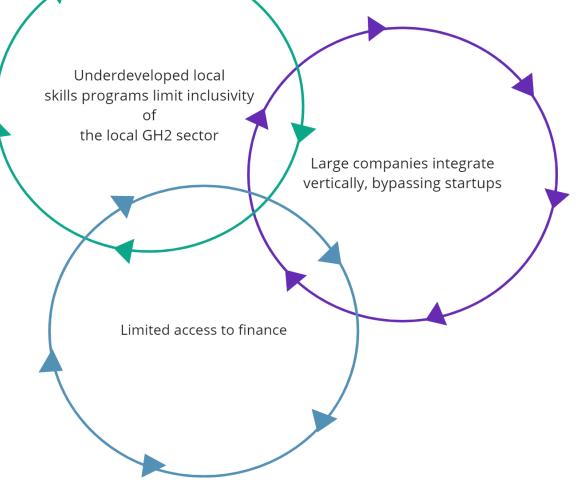
GH2 Projects in South Africa



As of 29 November 2022, per Minister of Public Works and Infrastructure Patricia de Lille at the South African Green Hydrogen Summit



Core Story of the System



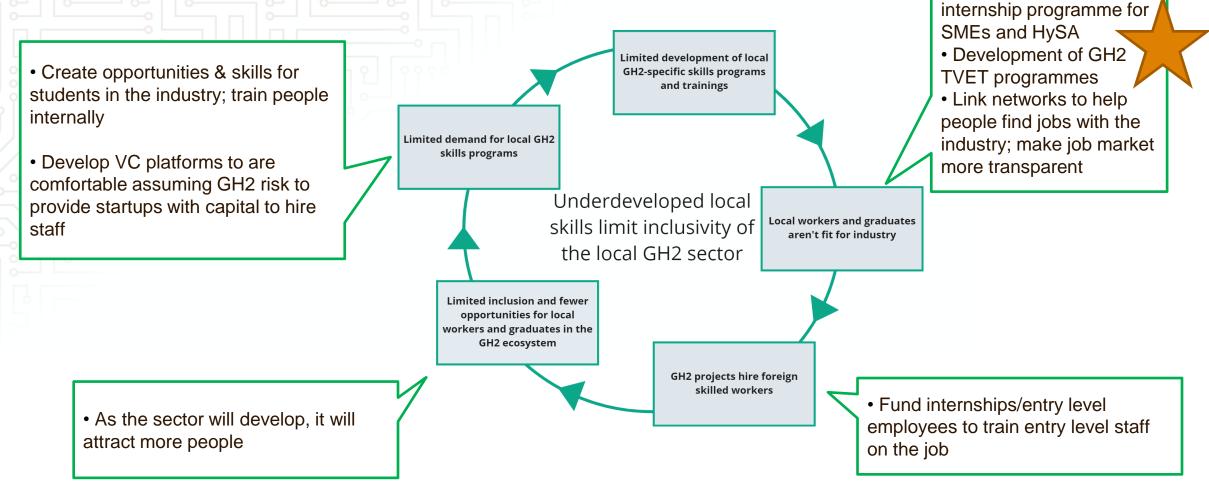
South Africa has a relatively more advanced GH2 ecosystem (PGM industry for electrolysers and fuel cells) and more GH2 application experiences with the HySA.

Yet, we still have a system that is currently optimized to benefit larger players.

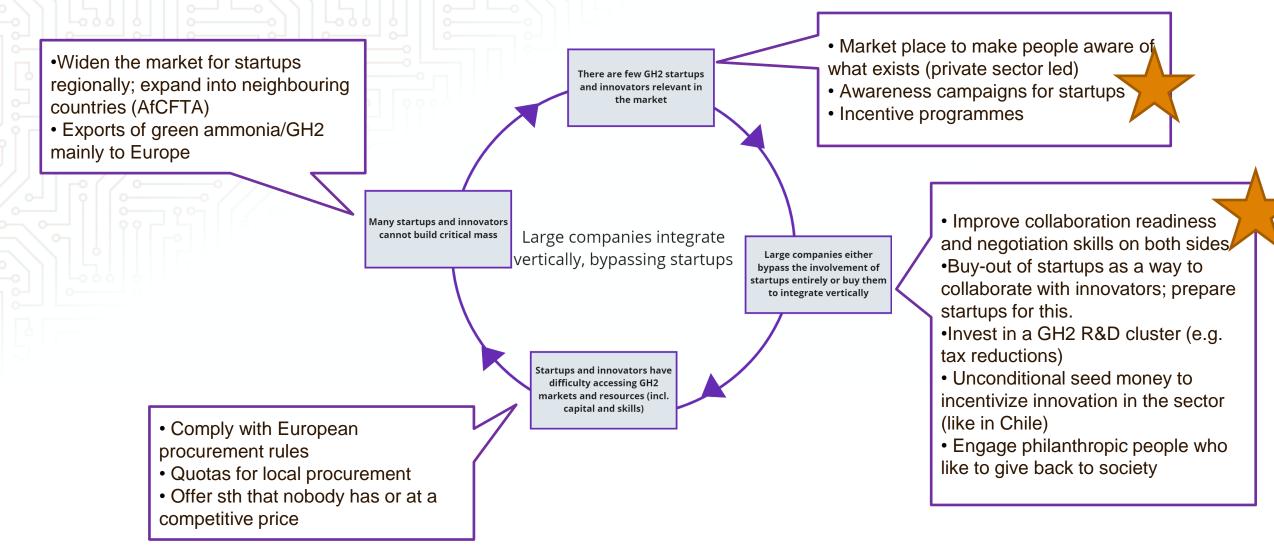
The system excludes smaller players and startups who are faced with limited access to finance for their scale-up activities, limited, affordable skill base, and a risk of exclusion from GH2 projects developed by larger players (lack of collaboration).

This all severely limits their market access and commercialization.

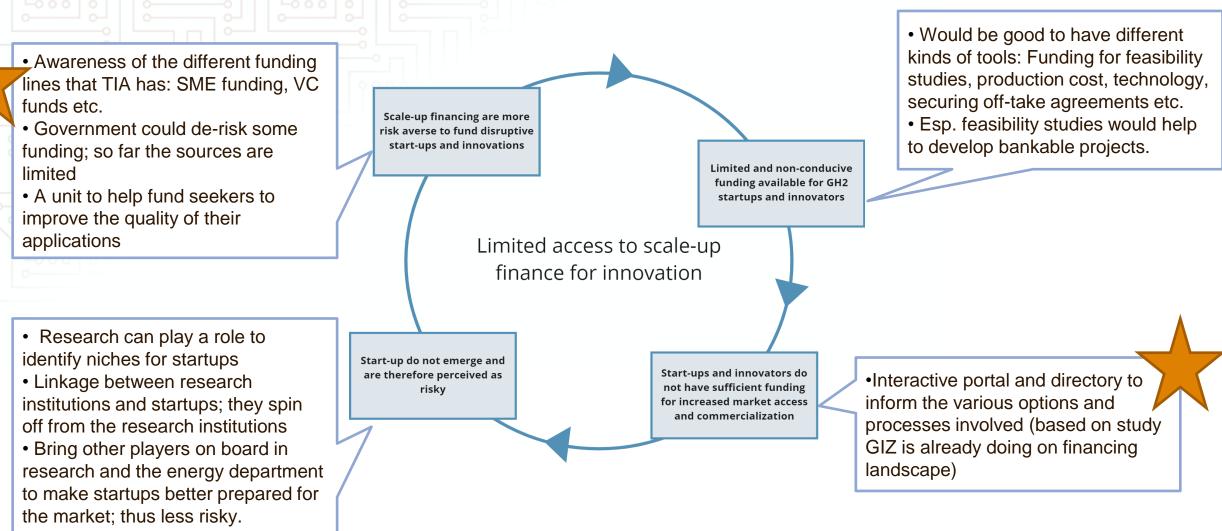
Solutions for Skills and Inclusivity



Solutions for Inclusive Value Chain



Solutions for Access to Finance



Co-creating and integrating solutions into the **GH2** Innovation Hub

GH2 Innovation Hub



Integrated Prototype – GH2 Innovation Hub

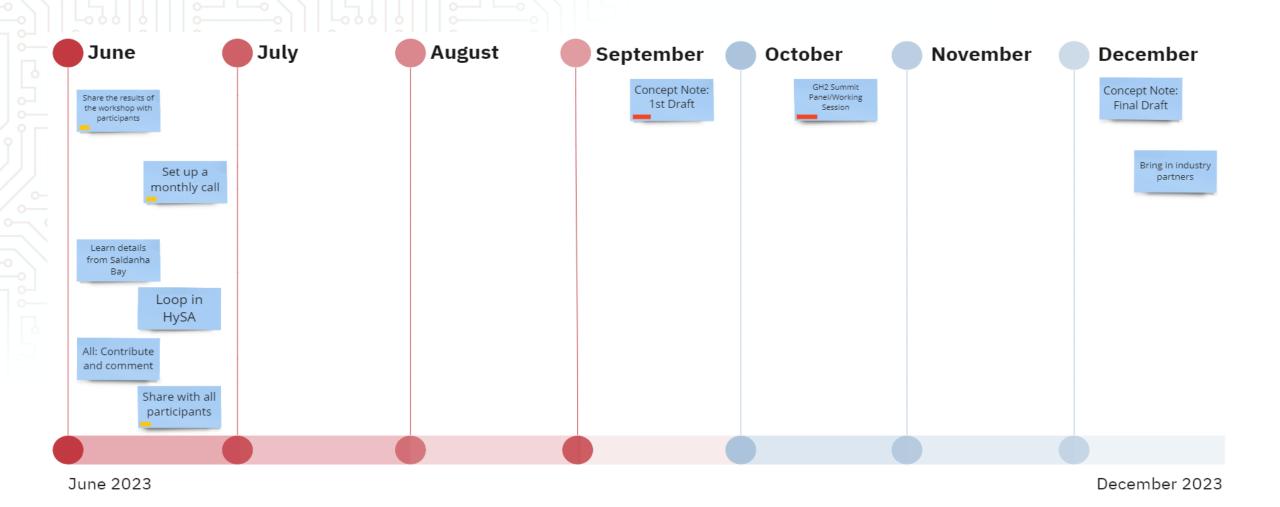
Developers/Group participants: RIIS, Saldanha Bay Innovation Campus, Technology Innovation Agency, Hyena Energy, Inspiring African Women, Stellenbosch University, CSIR, the Innovation Hub, SeaH4, GIZ, Hydrofuel Solutions, SANEDI, Atlanthia Green Hydrogen

A one-stop-shop for GH2 innovation: an epicenter and hub for innovation with all the necessary actors and resources that make innovation ecosystems work, including mechanisms for information sharing, matching and mentorship.

Featuring:

- 1) Incubator and accelerator programs
- 2) Mechanism matching startups with private companies, private investors and offtakers
- 3) Research development and innovation lab
- 4) Enabling infrastructure supporting email addresses, pitch training, business model canvases, design support, co-creation spaces, etc.
- 5) Resident knowledge and expertise to support startups, including an information desk and support centre as well as mentorship and training
- 6) Thought partnership and ideation capability
- 7) Finance
- 8) Positioned near a port, likely within an SEZ

Roadmap to Concept Development



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For more information, feedback or comments, please contact

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