



Higher Education and Training  
Science and Innovation

# Science Diplomacy for Economic Development: **HYDROGEN ECONOMY**

## Inaugural Workshop

**DRAFT PROGRAMME**  
**05 – 06 DECEMBER 2022**

TWO OCEANS AQUARIUM, V&A WATERFRONT,  
CAPE TOWN - SOUTH AFRICA (HYBRID FORMAT)

OUR ORGANISERS



# DRAFT PROGRAMME

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## SYNOPSIS

As part of a national drive to create a **clean, affordable and sustainable energy future** for South Africa, the South African government through the **Department of Science and Innovation (DSI)**, developed the **Hydrogen Society Roadmap (HSRM)** in 2021.

The **Science Diplomacy for Economic Development through Hydrogen (SDEDH)** project is an initiative of DSI's International Office in partnership with **Stellenbosch University's Centre for Renewable and Sustainable Energy (CRSES)**, **Impact Hydrogen** and **Durban University of Technology (DUT)**.

The **SDEDH project** seeks to directly support the HSRM through a **series of local and international roundtable workshops** and follow up engagements. The inaugural roundtable workshop with the theme **"Creating hydrogen valleys for South Africa"** will unpack the progress that South Africa has made so far in terms of setting up its first Hydrogen Valley as per the recommendations in the HSRM.

In addition, through **showcasing of Hydrogen Valleys from around the world** and obtaining expert opinions, views and experiences from local as well as international subject matter experts, policy makers, industry role players, financiers and civil society, this workshop aims at establishing how hydrogen can be utilized as lever for social justice in the context of South Africa's **transition to cleaner energy sources**. Since this inaugural SDEDH workshop is addressing issues around hydrogen as a lever for social, it is has been declared an **official side event of the World Science Forum**, whose theme is **"Science for social justice"**.

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Monday, 05 December 2022	
08:30 - 09:00	<b>REGISTRATION AND COFFEE</b> <b>PROGRAMME DIRECTOR</b> <b>Mohau Pheko, CIO The Cröp Lab, former Ambassador to Canada and Japan</b>
09:00 - 09:05	<b>Welcome and Purpose of the workshop</b> Ms Eudy Mabuza, Senior Science and Innovation Representative, Brussels
09:10 – 09:50 <b>High Level Opening: Setting the Scene</b>	09:05 - 09:20 <ul style="list-style-type: none"> <li><b>Overview of the Hydrogen Society Roadmap for South Africa</b> Dr Rebecca Maserumule, Acting DDG: Technology Innovation</li> </ul> 09:22 - 09:35 <ul style="list-style-type: none"> <li><b>What is a Hydrogen Valley?</b> Ms Nienke Hopman, CEO: Impact Hydrogen</li> </ul> 09:35 - 09:45 <ul style="list-style-type: none"> <li><b>Overview of the South African Hydrogen Valley</b> Dr Zwanani Titus Mathe, CEO: SANEDI</li> </ul>
09:45 – 11:10 <b>High-level: SA Stakeholders</b>  Format: in-person	<b>Session Moderator</b> – Ms Mohau Pheko, CIO The Cröp Lab, former Ambassador to Canada and Japan
	<b>09:45 – 10:30 (40 mins) Panel discussion</b>
	<b>(1) Update on activities to date of the Hydrogen Valley and hubs, including challenges faced (7 min for each speaker)</b> <ul style="list-style-type: none"> <li><b>Anglo American</b> – Ms Fahmida Smith, Principal Market Development</li> <li><b>Sasol</b> – Ms Pricilla Mabelane, Executive Vice President: Energy Business</li> <li><b>TotalEnergies</b> – Mr Mustapha Nait Karroum, Business Development / Marketing and General Trade</li> <li><b>NCP Chlorochem</b> – Andre Harding, Managing Director</li> <li><b>Bambili Energy</b> – Ms Zanele Mavuso Mbatha, Chief Executive Officer</li> <li><b>Engie</b> – Mr Jonathan Debasc, Managing Director: Thermal / Supply / Hydrogen / Desalination / Battery Storage - Africa</li> </ul>
	<b>10:40 – 11:20 (40 mins) Panel discussion</b>
	<b>(2) Policy and Regulatory Enablers: Importance of the inter-departmental collaboration throughout the entire hydrogen value chain (7 min for each speaker)</b> <ul style="list-style-type: none"> <li>National Treasury</li> <li>Department of Trade, Industry and Competition (DTIC) – SABS / NRCS</li> <li>Department of Transport (DoT) – PRSA / ACSA / SAMSA</li> <li>Department of Minerals, Resources and Energy (DMRE) – NERSA</li> <li>Department of Higher Education and Training – SETAs/Colleges/Universities</li> <li>Department of State Enterprise - SOEs (Eskom/Transnet, NEF, etc.)</li> </ul>

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## Inaugural Workshop | Science Diplomacy for Economic Development: Hydrogen Economy

11:20 – 11:40		COFFEE BREAK
<b>11:40 – 13:30</b>  <b>International Perspective on Established Valleys</b>  Format: in person		<b>Session Moderator</b> – Mr Nqaba Nqandela: Advisor to the Minister of Higher Education, Science and Innovation
		<b><i>Presentations: Lessons from Established Valleys around the Globe (20 min each)</i></b>
	11:40 – 12:00	<ul style="list-style-type: none"> <li>• <b>The Netherlands: first Hydrogen Valley in Europe</b> Speaker: TBC</li> </ul>
	12:00 – 12:20	<ul style="list-style-type: none"> <li>• <b>Japan: Hydrogen valleys in Japan - TBC</b> Speaker: Mr Kotani, Advisor to the Minister of Foreign Affairs</li> </ul>
	12:20 – 12:40	<ul style="list-style-type: none"> <li>• <b>UK: Teesside – Levelling up regional inequalities</b> Speaker: Mr Chris Beck or Mr Michael Henson</li> </ul>
	12:40 – 13:00	<ul style="list-style-type: none"> <li>• <b>Hydrogen for Communities in Europe</b> Speaker: Mr Jorgo Chatzimarkakis, CEO: Hydrogen Europe</li> </ul>
13:00 – 14:00		LUNCH
<b>14:00 – 15:00</b>  <b>Accelerating the Hydrogen Economy</b>  Format: in person		<b>Session Moderator:</b> Ms Mohau Pheko, CIO The Cröp Lab, former Ambassador to Canada and Japan
		<b>Panel discussion</b>
		<b>(3) Accelerating the Hydrogen Economy: Financing Hydrogen Valleys</b> <ul style="list-style-type: none"> <li>• <b>Industrial Development Corporation (IDC)</b> - Mr Mahandra Rooplall, Industry Strategist and Planner</li> <li>• <b>Development Bank of South Africa (DBSA)</b> -Mr Mohan Vivekanandan, Group Executive: Origination &amp; Coverage</li> <li>• <b>Rand Merchant Bank</b> – Mr Tshepo Ntshane, Sustainable Finance &amp; ESG Advisory</li> <li>• <b>European Investment Bank (EIB)</b> - Ms Nadege Hopman, Deputy Head of the regional representation for Southern Africa</li> </ul>
15:00 – 15:30	Match Making Sessions	
15:30 – 15:50	TEA BREAK	
15:00 – 15:30	Match Making Sessions	
16:20 – 16:30	Closing and next day activities	
17:00 – 19:00	NETWORKING RECEPTION	



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Tuesday, 06 December 2022	
08:30 - 09:00	ARRIVAL AND COFFEE
09:00 – 09:40	09:00 – 09:40 Panel discussion
	<p><b>Panel on Socio-Economic Impact</b></p> <ul style="list-style-type: none"> <li>• <b>The Presidency</b> - TBC</li> <li>• <b>CHIETA</b> – Mr Yershen Pillay, Chief Executive Officer</li> <li>• <b>National Youth Development Agency</b> - TBC</li> <li>• <b>National Business Initiative (NBI)</b> – Dr Gugu McLaren-Ushewokunze, Head of Economic Inclusion</li> <li>• <b>SASSTA</b> – TBC</li> </ul> <p><b>Young Ambassadors</b></p>
09:40 – 10:00	COFFEE BREAK
<b>10:00-11:30</b>  <b>Minister Nzimande Address</b>  Format: in person and virtual	10:00 – 10:05 <b>Opening</b> - Dr Phil Mjwara, Director-General, DSI
	10:05 – 10:15 <ul style="list-style-type: none"> <li>• <b>Remarks on European Dimension in regards to Hydrogen Valleys</b> – Mr Stephen Quest, DG: Joint Research Centre from the European Commission</li> </ul>
	10:15 – 10:40 <ul style="list-style-type: none"> <li>• <b>GHE-TVET study</b> <ul style="list-style-type: none"> <li>» Role of TVET in skills transitions in South Africa - Dr Anthony Gewer, National Business Initiative</li> <li>» Overview of the GHE-TVET study - Dr Deon Cloete, South African Institute of International Affairs</li> </ul> </li> </ul>
	10:40 - 11:25 <ul style="list-style-type: none"> <li>• <b>Keynote Address by Minister of Higher Education, Science and Innovation</b> – Dr Bonginkosi Nzimande               <ul style="list-style-type: none"> <li>» Launch of Roundtables on Science Diplomacy for Economic Development through Hydrogen</li> <li>» Launch of the GHE-TVET Study</li> <li>» Opening of the PAN-African Hydrogen Economy Conference - Industry Perspective, Experiences and Skills Required for the Hydrogen Economy.</li> </ul> </li> </ul>
	11:25 – 11:30 <b>Closing</b> – Dr Nkosinathi Sishi, Director-General, DHET

Website Details for Registration

<https://sd4ed-hydrogen.co.za>