



MONACO HYDROGEN FORUM

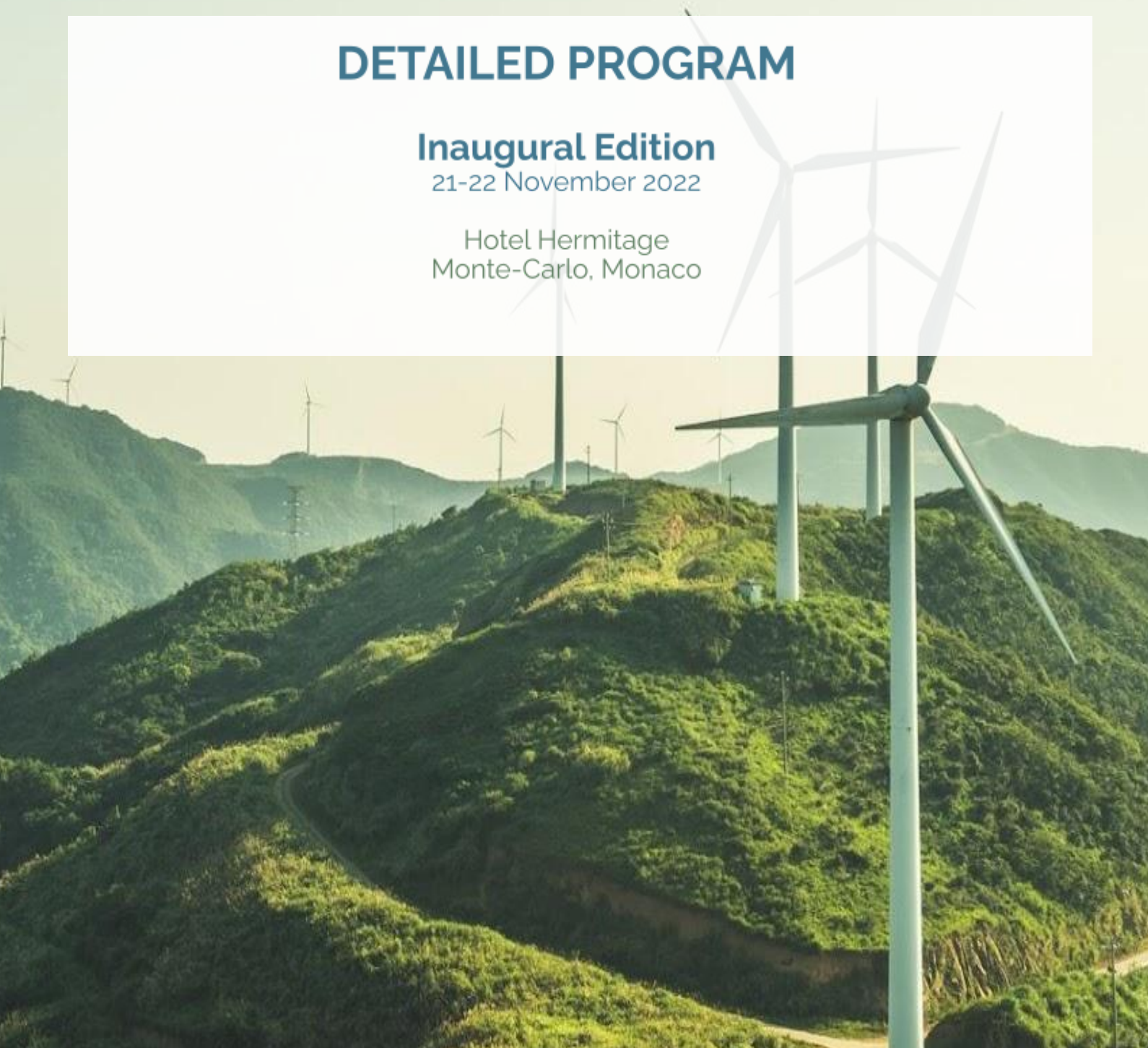
MOVING THE WORLD
WITH GREEN HYDROGEN

DETAILED PROGRAM

Inaugural Edition

21-22 November 2022

Hotel Hermitage
Monte-Carlo, Monaco



INAUGURAL EDITION

21-22 NOVEMBER 2022

Atmospheric carbon dioxide concentrations are higher and rising faster than ever before, with transportation alone accounting for nearly 25% of all global emissions. Hydrogen, particularly green hydrogen, can and should play a critical role in global and national decarbonization strategies.

ABOUT THE MONACO HYDROGEN FORUM

The Monaco Hydrogen Alliance hosts the Monaco Hydrogen Forum to bring together key public and private hydrogen operators, along with transportation & mobility industrial leaders and policy makers to help accelerate innovation across the hydrogen value chain.

By bringing together these key global stakeholders of the emerging hydrogen ecosystem, the Forum facilitates meaningful exchanges in key sectors – from advances in the production of hydrogen and the necessary infrastructure needed for the Hydrogen Economy to take off, to the next-generation of hydrogen-powered vehicles, ships and aircraft.

The Forum focuses on new ways to sustain, finance and scale research and innovation in hydrogen through a program of keynotes, deep-dive workshops, and technology demos. Given the Principality of Monaco's dedication to safeguarding world oceans, decarbonizing maritime transportation through fuel cell technologies will be one of the particularly strong focuses of the proceedings.

ABOUT THE MONACO HYDROGEN ALLIANCE

The Monaco Hydrogen Alliance is a not-for-profit Association under Monegasque law, with a mission of promoting the use of green hydrogen in land, air, and maritime transportation. We aim to contribute to reversing the environmental impact of mobility in our societies.

The Alliance is chaired by John Rossant.

ABOUT THE 2022 PROGRAM

Theme - The theme of this first edition is **Moving the World with Green Hydrogen**, with a strong focus on both innovation and its enabling ecosystem: without innovation, we cannot move the world with green hydrogen. Without a functioning ecosystem, existing and new solutions cannot be accelerated and developed throughout the broader transportation value chain. Today, these are imperative we have the collective obligation to meet in order to effectively decarbonize the transportation industry.

Innovation Day - 21 November 2022

The first day of the Monaco Hydrogen Forum will focus on innovation, presenting **solutions** that can revolutionize hydrogen mobility across all sectors.

Ecosystem Day - 22 November 2022

The second day of the Monaco Hydrogen Forum will deep dive into the concept of a renewable hydrogen and transportation **ecosystem**, advancing global discussions across several transportation sectors. It will close featuring the inaugural award of the **Monaco Prize for Innovation in Renewable Hydrogen and Transportation**. The day will end with a **gala dinner**.

Venue - The program takes place at the iconic Hotel Hermitage in Monte-Carlo, Monaco. Program sessions will take place in different rooms located within the Hermitage. Some dinners and lunches will take place in additional locations - all within a 10-minute walking distance of the Hermitage.

INNOVATION DAY

21 November 2022

13:30-14:00 Hotel Hermitage

WELCOME COFFEE

14:00-14:10 Hotel Hermitage - Salon Eiffel

Keynote address

HYDROGEN SOLUTIONS FOR THE FUTURE OF MOBILITY

Green hydrogen can help transportation manufacturers meet their environmental commitments in order to reach the goals set by the Paris Agreement. To accelerate the transition, collaboration between various public and private players, both startups and large corporations, is essential. It will enable the creation of adequate infrastructure and result in a clean, efficient hydrogen market powered by innovations.

- **John Rossant**, Chairman, Monaco Hydrogen Alliance, United States

14:10-15:00 Hotel Hermitage - Salon Eiffel

Panel Conversation

GLOBAL DECARBONIZATION THROUGH RENEWABLE ENERGY

Hydrogen fuel cells, widely regarded as the most advanced energy fuel, produce more energy than natural gases or other renewable energies. In the next 25 years, hydrogen, and notably green hydrogen, is expected to decarbonize sectors with a generation capacity that will be two times higher than that offered by solar and wind today. Practical methods for hydrogen uptake, accessibility, usage and storage need to be at the forefront of this transformation.

- **Obaid Amrane**, CEO, Ithmar Capital, Morocco
- **Dr. Dina Barbian**, CEO, eco2050 Institut für Nachhaltigkeit - Institute for Sustainability GmbH, Germany
- **René Sejer Laursen**, Director – Fuels & Technology, Global Sustainability, ABS, Denmark
- **Cyril Dufau-Sansot**, CEO, Hy2gen AG, France
- **Prof. Iftach Yacoby**, Professor, Tel Aviv University, Israel

Conversation Lead: **Dr. Stefan Kaufmann**, Hydrogen Executive Advisor to the Board, Thyssenkrupp, Germany

15:00-15:10 Hotel Hermitage - Salon Eiffel

Paint my vision

COMMITTING TO CLEAN URBAN MOBILITY

Special feature of light urban mobility powered by renewable hydrogen and its potential to transform how we live and move in cities.

- **Olivier Hautin**, Commercial & Marketing Director, Pragma Industries, France

15:10-16:00 Hotel Hermitage - Salon Eiffel

Panel Conversation

STIMULATING INVESTMENT AND DEPLOYING CAPITAL TO TRANSFORM MOBILITY

The magnitude of investment that will be required to facilitate the transition to a hydrogen economy over the coming decades is expected to run into the hundreds of billions of euros — which will require not only public support, but the full force of the financial sector and the relevant ecosystem of industrial players. Venture capital, investment in research, together with derisking financial instruments, such as credit enhancement or risk-sharing schemes will be required to improve and test hydrogen technologies, before they can reach mass production and be successfully integrated into industrial value chains.

- **Dr. Ahilan Ahilan**, Chief Energy Transition Officer, ABL GROUP ASA, United Kingdom
- **Dr. Stephan Herbst**, Technical Head Hydrogen, Toyota Motor Europe, Belgium
- **Hechem Nadjar**, Co-founder, TinHy, France

- **Dr. Maria João Rolim**, Energy Partner, Rolim, Viotti, Goulart, Cardoso Advogados, Brazil
Conversation Lead: **Matt Stone**, Partner, McKinsey & Co., United Kingdom

16:00-16:20 | Hotel Hermitage - Salon Eiffel

Finalists in action

MONACO PRIZE FOR INNOVATION IN RENEWABLE HYDROGEN AND TRANSPORTATION – PRESENTATION AND FINALIST PITCHES

3 of the top 6 contestants of the Monaco Prize pitch their solutions to the jury and Monaco Hydrogen Forum audience.

16:20-16:50 | Hotel Hermitage
COFFEE AND NETWORKING BREAK

16:50-17:40 | Hotel Hermitage - Salon Eiffel

Panel Conversation

INNOVATION HUBS: BUILDING CENTERS OF EXCELLENCE IN TRANSPORTATION AND RENEWABLE HYDROGEN

For innovation in renewable hydrogen and transportation to scale, innovation hubs have a critical role to play as homes to innovators, big industry players and investors. Through favorable regulations and adequate infrastructure, they can facilitate the lab to market transition, and enable true scaling of innovation.

- **Andy Fuchs**, General Manager, Toyota Mobility Foundation, Germany
- **Roland Kaepfner**, Executive Director – Hydrogen & Green Fuels, ENOWA - NEOM, Saudi Arabia
- **Paul Lucchese**, IEA Hydrogen TCP Chair, Commissariat à l'énergie atomique et aux énergies alternatives (CEA), France
- **Michael Perschke**, Chairman and CEO, Quantron AG, Germany

Conversation Lead: **Pascal Goumault**, Director of Partnerships, Movin'On, France

17:40-18:00 | Hotel Hermitage

Finalists in action

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18:00-18:15 | Hotel Hermitage - Salon Eiffel

Paint My Vision

HYDROGEN IN THE AIR: TAPPING INTO THE DRONE POTENTIAL

The new generation of hydrogen powered drones is actionable and autonomous with an innovation that can transform the future of logistics and air mobility.

- **Bentzion Levinson**, CEO, HevenDrones, Israel

Moderator: **John Rossant**, Chairman, Monaco Hydrogen Alliance, United States

18:15-18:20 | Hotel Hermitage

Closing keynote

INNOVATION DAY CLOSING REMARKS

- **John Rossant**, Chairman, Monaco Hydrogen Alliance, United States

18:45-20:30 | Hotel Hermitage - Salle Belle Époque

WELCOME RECEPTION

Welcome cocktail for the participants of the inaugural edition of the Monaco Hydrogen Forum.

ECOSYSTEM DAY

22 November 2022

09:00-09:10	Hotel Hermitage - Salon Eiffel
Opening Keynote Address	
OPENING REMARKS AND WELCOME	
Official welcome address of the inaugural edition of the Monaco Hydrogen Forum	
<ul style="list-style-type: none"> - Ms. Céline Caron-Dagioni, Minister of Public Works, the Environment and Urban Development, Monaco 	

09:10-10:00	Hotel Hermitage - Salon Eiffel
Panel Conversation	
MOVING THE WORLD WITH GREEN HYDROGEN	
Green hydrogen holds enormous potential for the entire transportation industry, and in powering land, air and maritime mobility. To decarbonize this industry and unleash the potential of hydrogen, cross-sector collaboration is essential. How do we construct a low-carbon ecosystem, powered by renewable hydrogen?	
<ul style="list-style-type: none"> - Dr. Enass Abo-Hamed, CEO and Co-founder, H2GO Power, United Kingdom - Felipe Hernandez, Chief Innovation Officer, FRV, Spain - Emanuele Lauro, President, Monaco Chamber of Shipping, Monaco - David Woessner, Partner, FutureOf & Advisor, Bilitic Electric, United States 	
Conversation Lead: Dr. Pierre Sames , Strategic Development Director, DNV Maritime, Germany	

10:00-10:10	Hotel Hermitage - Salon Eiffel
Paint My Vision	
ESTABLISHING AMBITIOUS NATIONAL STRATEGIES	
Presenting a 10 year hydrogen roadmap for the RD Congo	
<ul style="list-style-type: none"> - Prof. Kasongo Numbi Kashemuka, Expert Consultant on Hydrogen, Presidency of the Democratic Republic of Congo, RDC 	

10:10-10:30	Hotel Hermitage - Salon Eiffel
Leadership in the spotlight - 1:1 Conversation	
CONVERSATION WITH AN INDUSTRY LEADER: JEAN-BAPTISTE DJEBBARI	
Innovation across the technology chain, from hydrogen production to fuel cell electric vehicles holds the potential to enable the decarbonization of the transportation industry, particularly heavy mobility. To take off, new technologies face some challenges: in terms of cost, performance and policy which must be addressed.	
<ul style="list-style-type: none"> - Jean-Baptiste Djebbari, Chairman, Hopium, France 	
Moderator: Jean-Marie Poignon , CEO Advisor, GP JOULE Hydrogen GmbH, Germany	

10:30-11:20	Hotel Hermitage - Salon Eiffel
Panel Conversation	
INCENTIVIZING THE TRANSITION	
New regulatory frameworks can accelerate the transition to a clean hydrogen economy, particularly in the field of transportation. Governments and international organizations have started developing comprehensive hydrogen strategies in order to fast-track adoption and ease financing. To truly scale green H2 throughout the mobility value chain however, more is needed.	
<ul style="list-style-type: none"> - Dr. Laurent Antoni, Co-lead, H2 Production Analysis Task Force, International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), France - Dr. Prof. Katsuhiko Hirose, CEO & Chief Consultant, HyWealth CO., Japan - Dr. Gokce Mete, Co-Initiator, Hydrogen for Net Zero Initiative South Pole & Co-founder, Women in Green Hydrogen, The Netherlands 	

- **Olivier Savin**, Founder and CEO, Blue Spirit Aero, France
Conversation Lead: **Sébastien Douguet**, Director – Economic Advisory, Deloitte, France

11:20-11:40 Hotel Hermitage
COFFEE AND NETWORKING BREAK
Private session - upon invitation.

11:40-12:00 Hotel Hermitage - Salon Eiffel
Leadership in the spotlight - 1:1 Conversation
CONVERSATION WITH AN INDUSTRY LEADER: ALICIA EASTMAN
President of InterContinental Energy, Alicia Eastman joins Monaco Hydrogen Alliance's Board Member Siri Trang Khalsa to discuss how new energy sources, notably renewable hydrogen, can transform the transportation industry as a whole.
- **Alicia Eastman**, President, InterContinental Energy, United States
Moderator: **Siri Khalsa**, Board Member, Monaco Hydrogen Alliance & CEO, Stance Advocacy Services, Monaco

12:00-12:20 Hotel Hermitage - Salon Eiffel
Paint my Vision with Q&A
HYDROGEN VALLEYS
Hydrogen Valleys are critical to create locally integrated hydrogen ecosystems and to create hydrogen value chains. They have an important role to play to demonstrate the added value of the renewable hydrogen economy, particularly in the field of mobility and transportation.
- **Michel Delpon**, France 2030 Ambassador for Hydrogen, President, Club Vision Hydrogène, France
- **Nadine Hölzinger**, Managing Director, Spilett New Technologies, Germany
- **Raphaël Schoentgen**, CEO, Hydrogen Advisors, France

12:20-13:00 Hotel Hermitage - Salon Eiffel
Panel Conversation
WHO SHOULD INVEST?
Moving the world to a hydrogen economy requires different types of investors to help allocate resources efficiently and build solid structures. In the transportation sector, long-term finance together with shorter-term flexible capital are needed to transform existing infrastructures and develop new ones, and accelerate the development of new hydrogen-based solutions.
- **David Cavanagh**, Managing Director, Integrated Energy Pty Ltd & Chief Hydrogen Officer, Hydrogen West Pty Ltd and Hydrogen East Pty Ltd, Australia
- **Ayoub Hirt**, Head of Department Green Chemistry, Bioenergy and Agritech, IRESEN, Morocco
- **Anne O'Donnell**, Founder and CEO, Gibson Watts, United Kingdom
Conversation Lead: **Elise Zoli**, Partner – Energy & Climate Solutions, Wilson Sonsini Goodrich & Rosati, United States

13:00-14:30 Hotel Hermitage - Salle Belle Époque
NETWORKING LUNCH

14:30-15:30 Hotel Hermitage - Gustave, Eiffel
WORKSHOPS and MASTERCLASSES
STRATEGY AND SECTOR-SPECIFIC DEEP DIVES
Parallel, participative workshops and roundtable discussions:
- The Role of Hydrogen (and its Derivatives) in Shipping Decarbonization, *Powered by McKinsey & Co.*
- Roundtable discussion: The Role of H2 Mobility in Protecting Marine Ecosystems *Powered by ENOWA*
- The European Hydrogen Economy – Taking Stock and Looking Ahead, *Powered by Deloitte*

15:30-16:10 Hotel Hermitage
COFFEE AND NETWORKING BREAK

16:10-16:30	Hotel Hermitage - Salon Eiffel
Leadership in the spotlight - 1:1 Conversation	
CONVERSATION WITH AN INDUSTRY LEADER: FRANCESCO BELLUSCI	
Sustainable development of different types of ships and boats, and the potential of powering them through internal combustion engines are fundamental in decarbonizing the maritime industry.	
<ul style="list-style-type: none"> - Francesco Bellusci, Managing Director, Scorpio Ship Management, Monaco 	
Moderator: Jean-François Nicolino , President, eH2P Marine & eHP ² , France	

16:30-17:20	Hotel Hermitage - Salon Eiffel
Panel Conversation	
TRANSFORMING THE MARITIME VALUE-CHAIN WITH RENEWABLE HYDROGEN	
Maritime shipping moves around 80% of the global economy's goods, yet it is primarily powered by fossil fuels. With no regulatory frameworks that monitor the industry's GHG emissions, every player across the value chain is responsible for implementing policies, technologies and investments that will decarbonize maritime mobility.	
<ul style="list-style-type: none"> - Dr. Aurelio Lázaro, R&D Engineer, Fundación Valenciaport, Spain - Camille Lopez, Founding President, HY-Plug, France - David Morant, Director of the Supervisory Board, Belfast Maritime Consortium, United Kingdom - Rory Trahair, CEO, Vita Yachts, United Kingdom 	
Conversation Lead: Hemant Sondhi , COO, Fowe Eco Solutions, India	

17:20-17:40	Hotel Hermitage - Salon Eiffel
Panel Conversation	
THE HOLISTIC PERSPECTIVE: OUR RESPONSIBILITY TO PROTECT THE OCEANS	
Renewable hydrogen powered mobility, especially maritime mobility, must play a key part in protecting and preserving the oceans. It is essential to ensure the Hydrogen conversation is part of the larger interdisciplinary dialogue.	
<ul style="list-style-type: none"> - Olivier Wenden, Vice-President and CEO, Prince Albert II of Monaco Foundation, Monaco 	
Conversation Lead: Prof. Christine Maggs , Chief Scientist, Joint Nature Conservation Committee, United Kingdom	

17:40-18:30	Hotel Hermitage - Salon Eiffel
Closing Panel	
EN ROUTE FOR COP 28	
Presenting the way forward for the Monaco Hydrogen Alliance and the second edition of the Monaco Hydrogen Forum, as well as the need to advance renewable hydrogen in mobility roadmaps - highlighting necessary actions and building a global agenda ahead of COP28.	
<ul style="list-style-type: none"> - Bart Biebuyck, Executive Director, Clean Hydrogen Partnership, Belgium - Barbara Jinks, Programme Officer - Green Gases, IRENA, the International Renewable Energy Agency, Germany - Jonas Moberg, CEO, Foundation for the Green Hydrogen Organisation (GH2), Switzerland 	
Conversation Lead: Maurits Waardenburg , Partner, McKinsey & Company, Belgium	

18:30-19:00	Hotel Hermitage - Salon Eiffel
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Closing Ceremony	
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AWARDS CEREMONY FOR THE MONACO PRIZE FOR INNOVATION AND RENEWABLE HYDROGEN AND TRANSPORTATION	
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20:30-22:30	One Monte Carlo
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GALA DINNER	
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Gala Dinner for the participants of the Monaco Hydrogen Forum - hosted by the Monaco Chamber of Shipping.	
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