

# ASIA-PACIFIC ECONOMIC COOPERATION

Assessing Existing and Planned Hydrogen Infrastructure to Facilitate Widespread Hydrogen Use in the APEC Region (EWG 01 2021A)

EXECUTIVE SUMMARY OF PROJECT



ARTHUR  LITTLE



# Assessing Existing and Planned Hydrogen Infrastructure to Facilitate Widespread Hydrogen Use in the APEC Region

## Project Background



- Hydrogen has become a key alternative energy source to decarbonize various sectors such as transportation, chemicals, power, etc.
- The transition to clean hydrogen is underway, yet 98% of all hydrogen produced globally today is from fossil fuels
- Clean hydrogen is not yet competitive enough to be scaled up and is facing many challenges such as cost reduction, transport and storage option availability, and safety concerns
- **Infrastructure buildout across the value chain connecting supply and demand** will be important to the development of the clean hydrogen economy

**As part of this project, a webinar was conducted on the 30<sup>th</sup> March 2023 with three main objectives**

### **Webinar Objectives**

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**1**

Increase focus on energy access and achieving an affordable, reliable, resilient, and sustainable energy supply, responding to APEC EWG's Strategic Plan for 2019-2023

**2**

Increase understanding of the status of hydrogen infrastructure in the region; enhance the knowledge of stakeholders in the region to support hydrogen policy and investment decisions

**3**

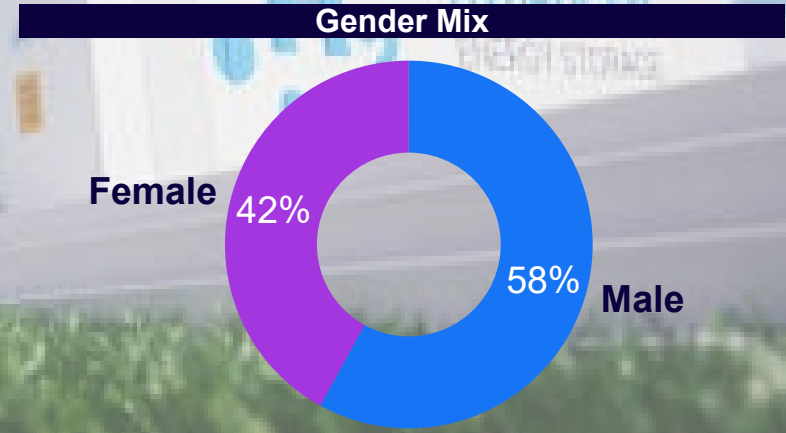
Solicit direction and guidance on integrating provided feedback and commentary into the final report



We were honoured to welcome 14 economies, with +55 participants at the webinar where 42% are female representatives



APEC Economies Present	
Australia	New Zealand
Chinese Taipei	Peru
Hong Kong, China	Singapore
Japan	Thailand
Korea	The Philippines
Malaysia	United States of America
Mexico	Viet Nam



## Webinar Discussion Topics

1

**Global State of  
Hydrogen**

2

**State of Hydrogen  
Infrastructure in  
APEC**

3

**Selected Case  
Studies from APEC  
Economies**

(Australia, Canada,  
Chile, China, Japan,  
Korea, Singapore,  
United States of  
America)

4

**Guest Presentations**

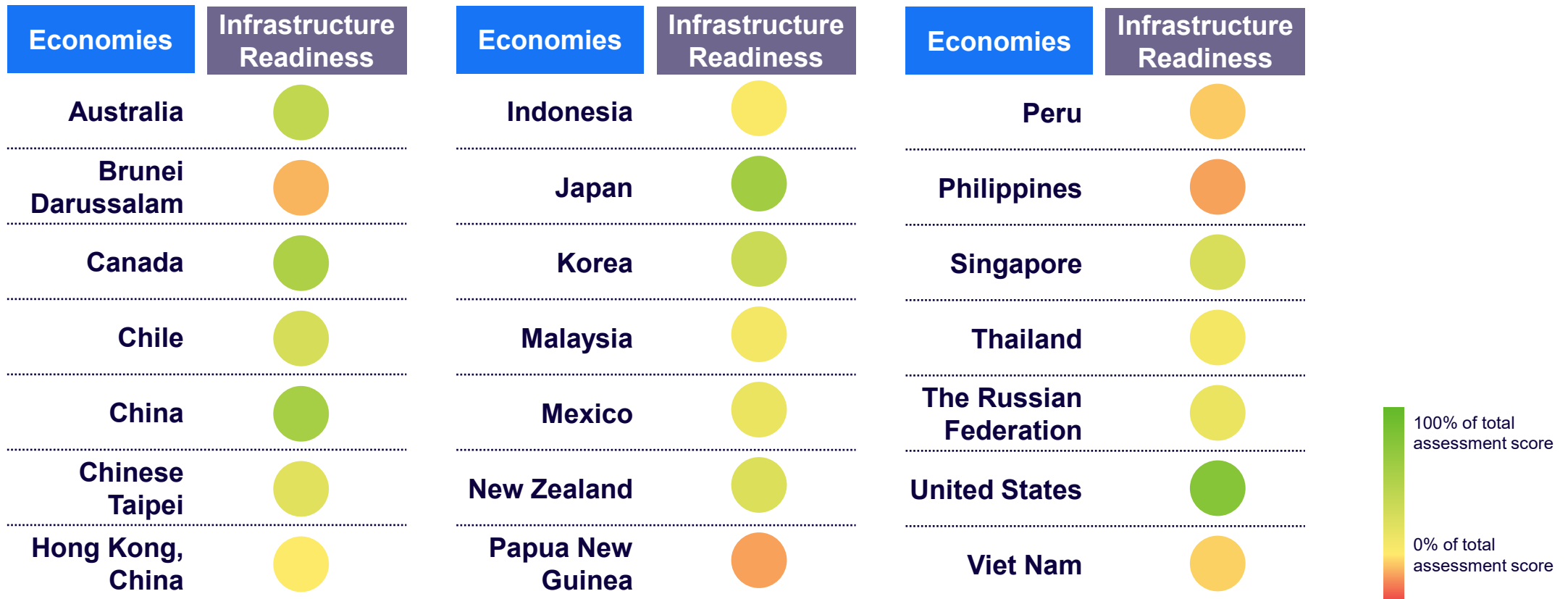
(Dr. Sunita Satyapal  
from U.S. Department  
of Energy and Barnik  
Maitra from Arthur D.  
Little)

5

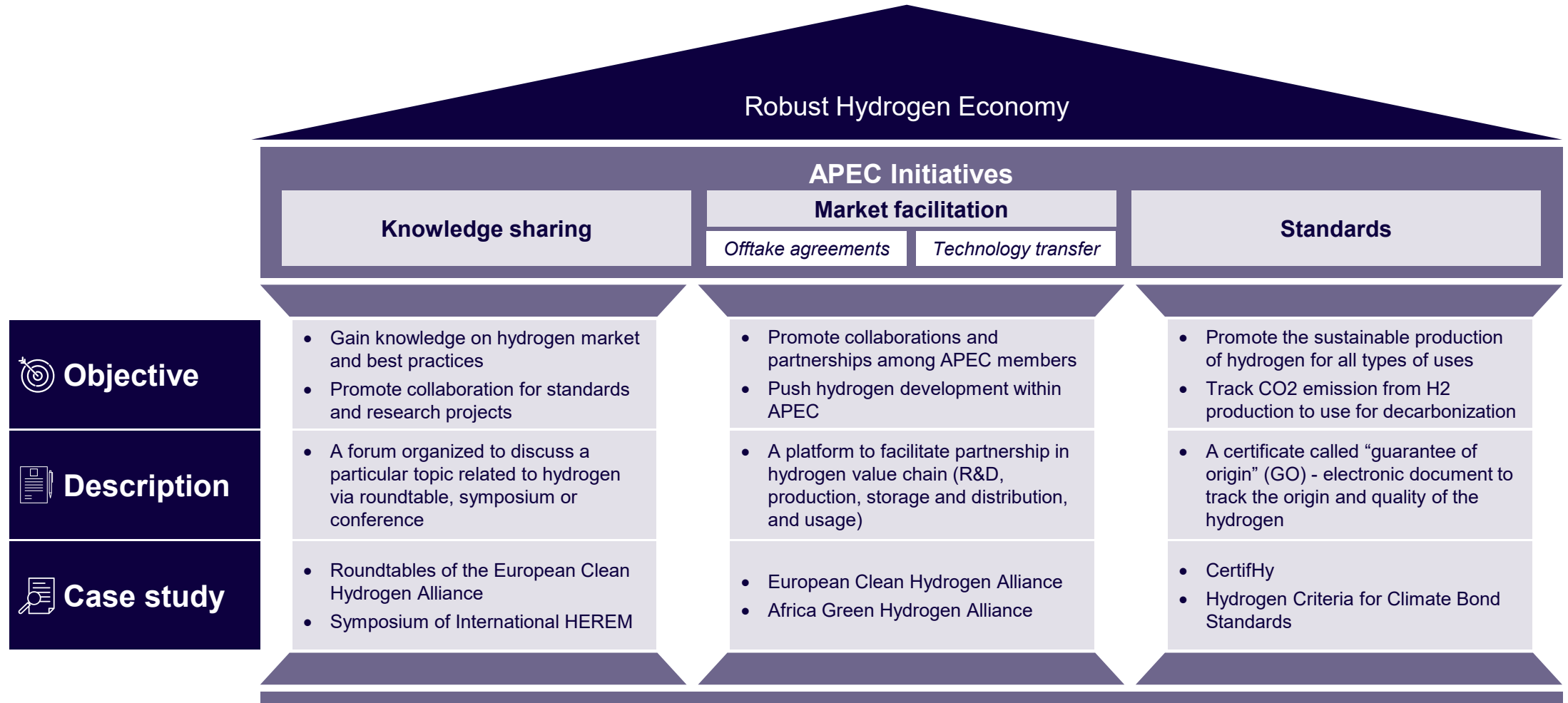
**Strategic and Policy  
Recommendations**

**[Selected Key Findings]** Findings show that hydrogen infrastructure is taking off in APEC region with economies at varying stages of readiness

**APEC Hydrogen Infrastructure Readiness Assessment**



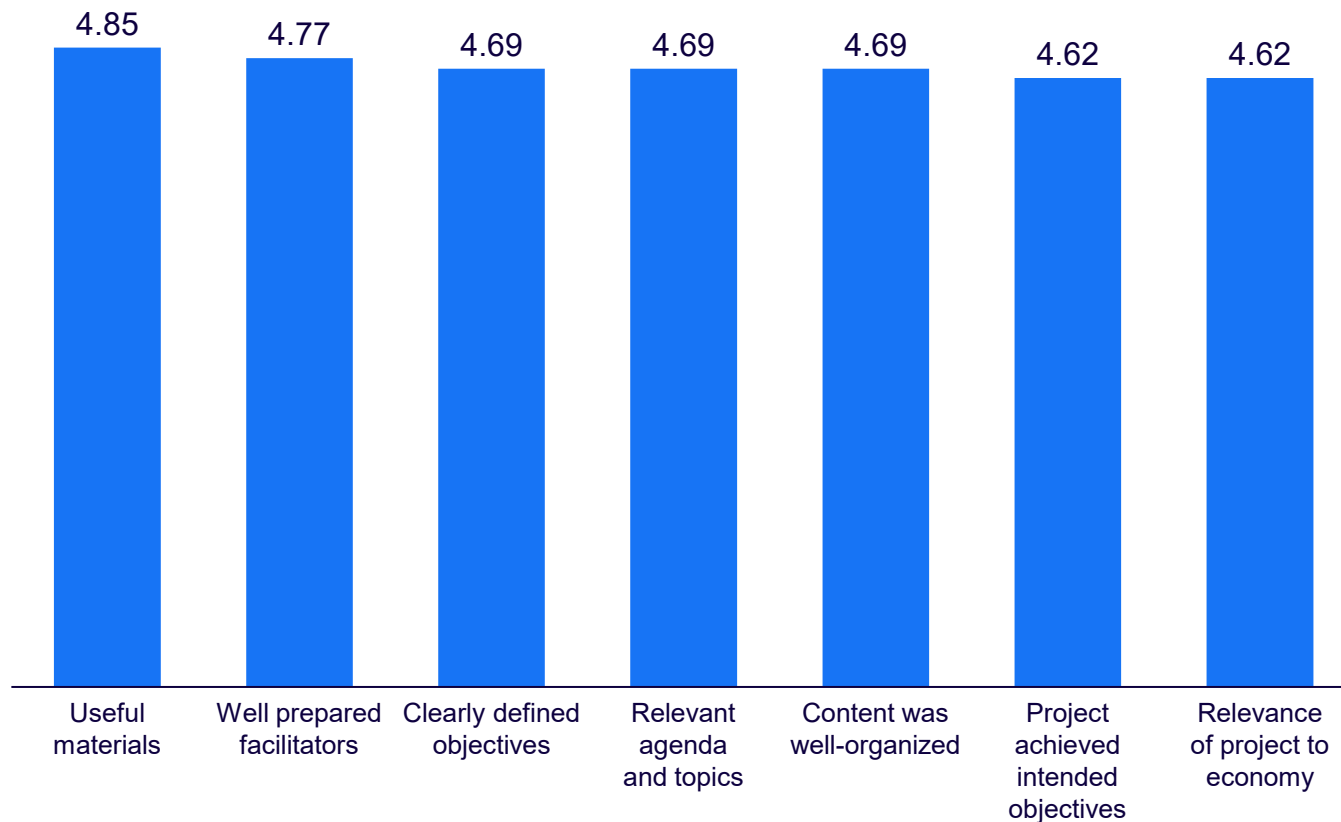
# [Selected Key Findings] APEC can play an important role to promote the hydrogen economy through knowledge sharing, market facilitation and standards



## Feedback from the webinar has been positive across the board, with many economies highlighting the new knowledge in shaping relevant policies

### Webinar Outcomes

N=13, score out of 5



### New skills/knowledge gained from webinar



Different aspects of the hydrogen economy



Adapting processes and policies to their own economy



Importance of hydrogen for zero-carbon



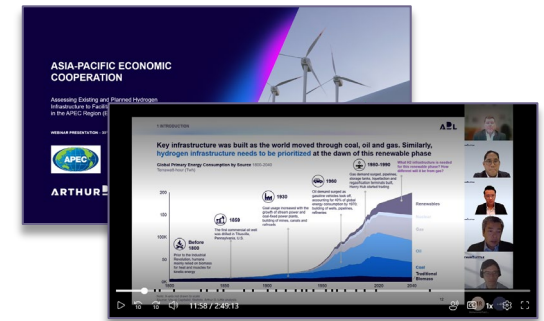
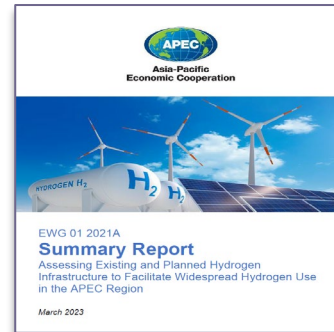
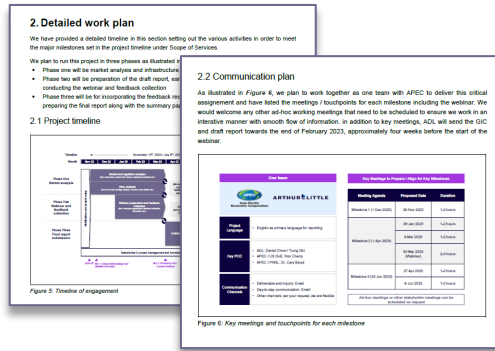
A lot of information on policies, projects, and activities undertaken by each economy towards establishing a hydrogen economy



# Project Status

## Deliverables submitted as of 18<sup>th</sup> April and next steps

### Deliverables submitted as of 18<sup>th</sup> April



### Next Steps



# ARTHUR D LITTLE

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Our consultants have strong practical industry experience combined with excellent knowledge of key trends and dynamics. ADL is present in the most important business centers around the world. We are proud to serve most of the Fortune 1000 companies, in addition to other leading firms and public sector organizations.

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