

# What's happening with hydrogen on a global level?

Young Energy Forum 2020

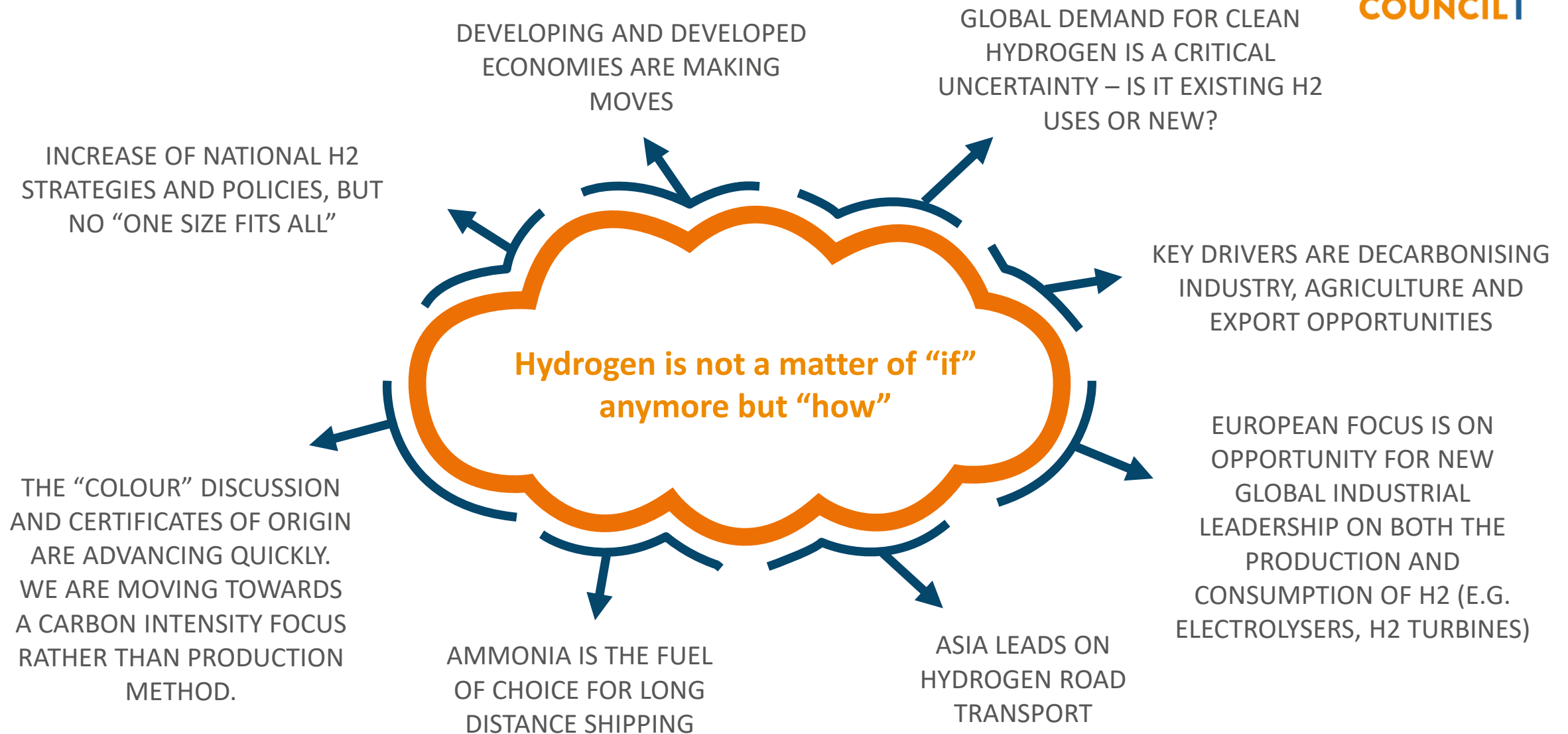
# Learnings from our 2019 insights brief

## Why hydrogen?

1. Energy transition requires a **mix of clean electrons and molecules**
2. Hydrogen can **reach hard to abate sectors, electrification cannot**
3. New opportunities for global **trade in clean energy**
4. Transporting an electron can **cost 10x more** than a molecule
5. High renewable penetration requires **hourly, daily and seasonal storage**



# Highlights from recent interviews...



# Minding the gaps...

## DEMAND SIGNALS

Hydrogen is currently used in many sectors (e.g. agriculture, rocket fuel, refining, etc.). It is also being considered for new uses (e.g. mobility, energy storage, heat). For existing uses, how do we boost the transition from emissions intensive hydrogen to clean hydrogen? Can the mechanisms be the same for new uses?

## OPPORTUNITIES FOR DEVELOPING COUNTRIES

Clean hydrogen interests are mainly located in G20 countries and focused on transport demand. Wide interests are emerging e.g. Morocco interest in green agriculture exports. How can a global market develop which engages different needs and interests and benefits all?

## AN INCLUSIVE ECOSYSTEM

Hydrogen is a crowded space but all organizations have a specific audience: Hydrogen Council with the private sector, IEA with member governments, etc. There is no offering for a cross continental, cross sector working level best practices platform.

## COMMUNITY ENGAGEMENT

The public safety, social issues and workforce skills and behaviors associated with clean hydrogen production and use are poorly understood. How can the pull of new energy society be enabled to accelerate the clean hydrogen value chain?

# Questions?

