



# NSW Hydrogen Strategy

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**Connor Kerr**  
**Hydrogen and Clean Energy Programs**

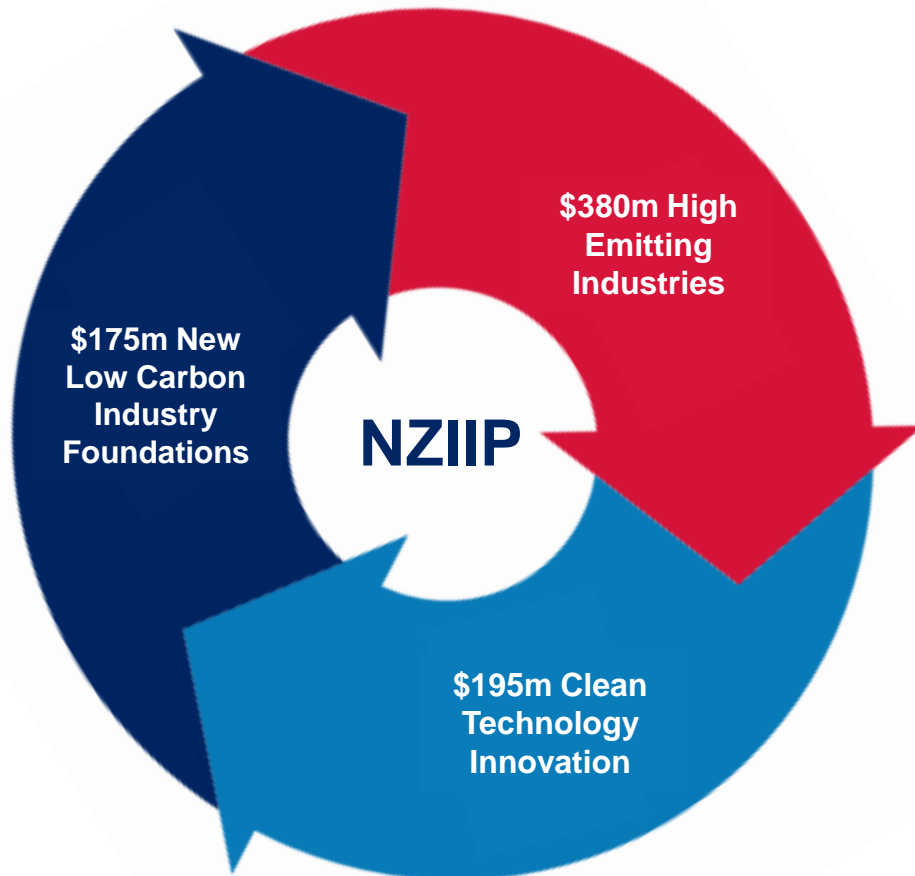
December 2021

Department of Planning, Industry and Environment

# Policy foundations in development of Strategy



# \$3 billion for hydrogen in NSW



~\$800m  
Network concessions

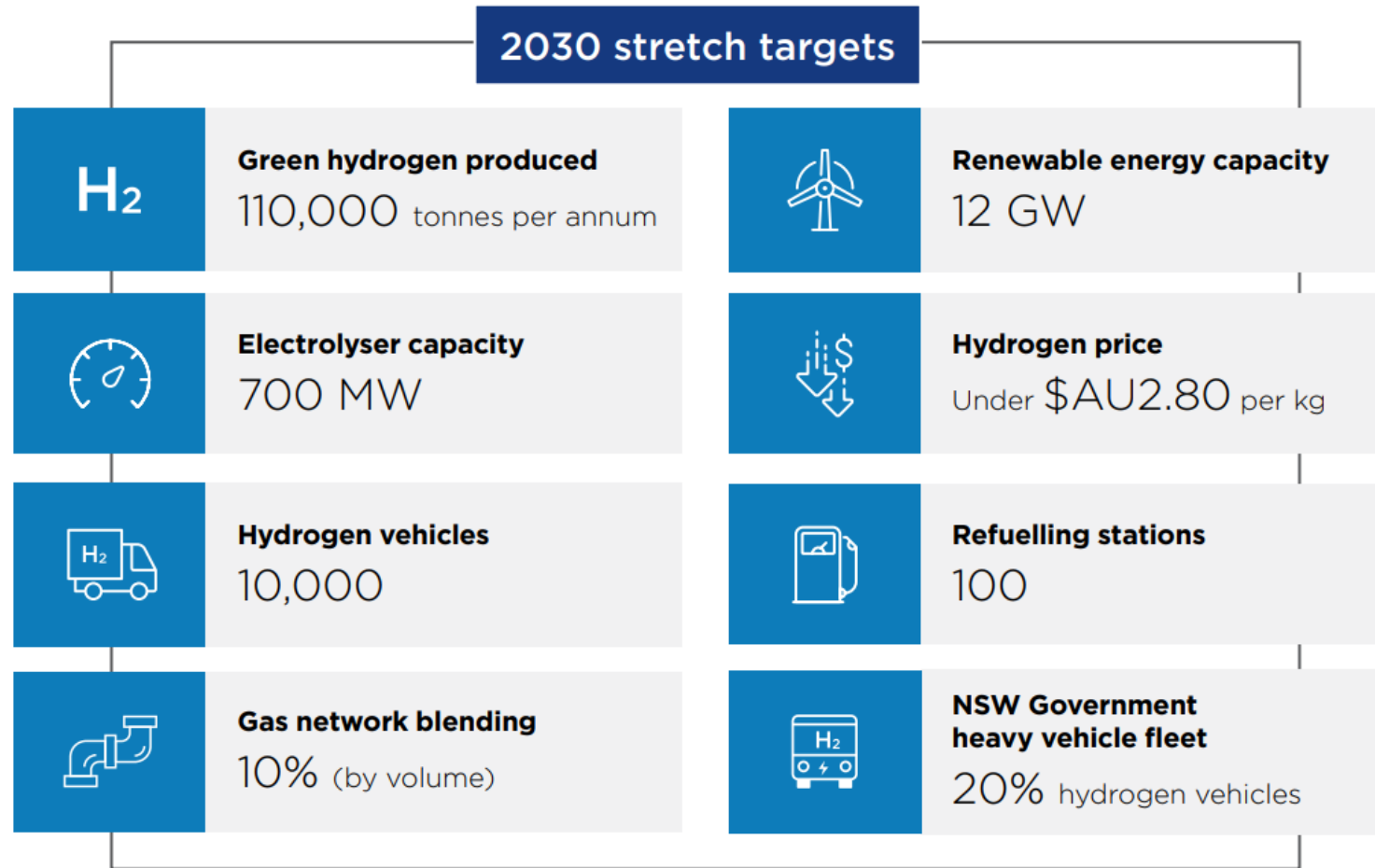
~\$800m  
Scheme exemptions

~\$1.2B  
Hydrogen target and scheme

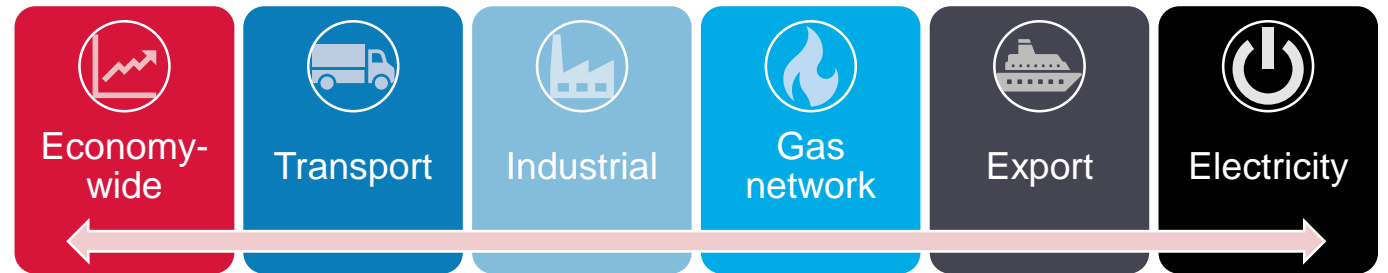
\$70m  
NSW Hydrogen hubs initiative



# Our ambition

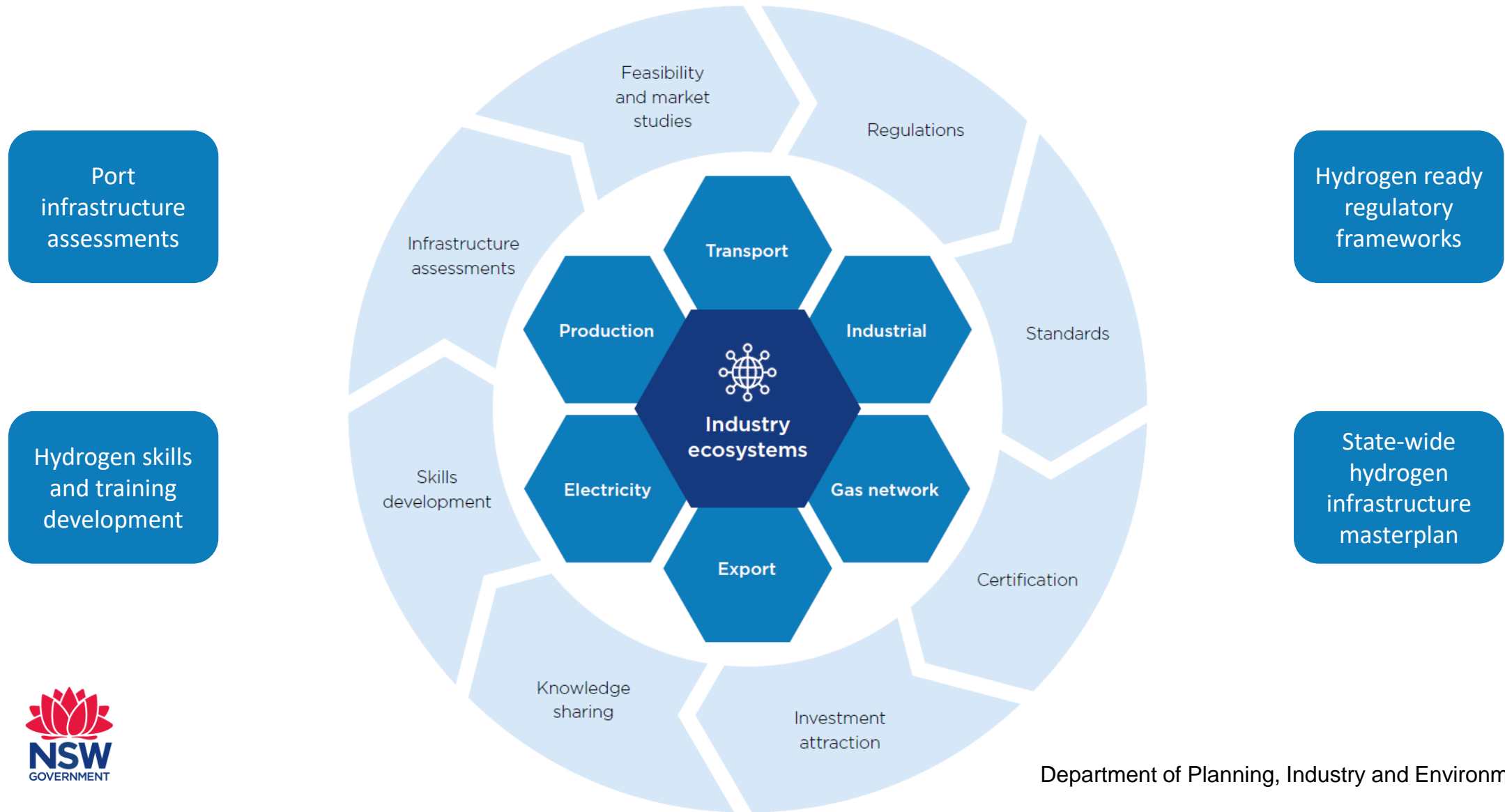


# Our pillars – 60 actions



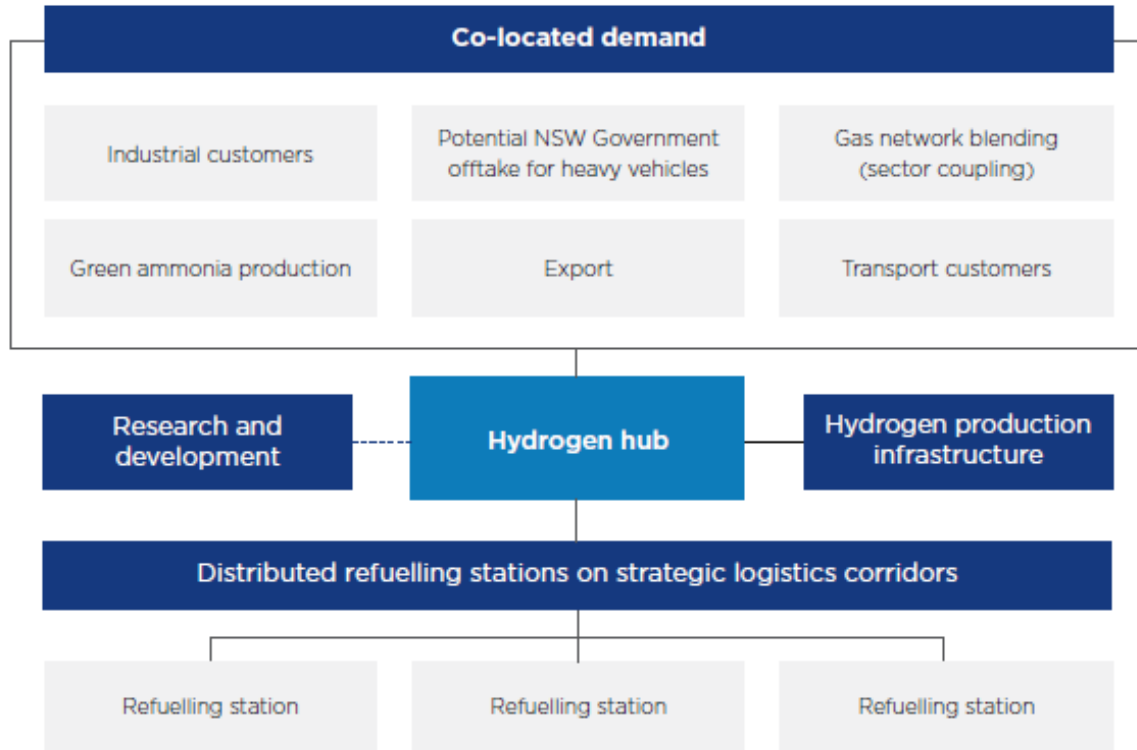


# Enable industry development





# Lay industry foundations



Hydrogen hub initiative



Hydrogen refuelling network

# Hydrogen refuelling network

The objective is to lay refuelling infrastructure along major highways, with:

- Funding support from \$175 million focus area of Net Zero Industry and Innovation Program
- Initial funding for 4-5 scalable refuelling stations along a trial corridor and support for between 25-50 hydrogen trucks
- Funding support available for refuelling stations and vehicles
- Targeting of fleet operators and Original Equipment Manufacturers.







# Drive rapid scale

- Network charge concessions
- Electricity scheme exemptions
- Hydrogen target and scheme
- Transformative industrial projects
- Market engagement model
- NSW Government heavy vehicle fleet



## Government heavy vehicle stretch target

- Aiming for 20% of the government heavy vehicle fleet to be hydrogen by 2030
- Hydrogen buses to be delivered under Transport for NSW's Net Zero Emissions Strategy
- Achieving this target would deliver an estimated 1,800 hydrogen heavy vehicles on the road, which:
  - Creates demand for 10,000 tonnes of hydrogen each year
  - Is equivalent to about 70 MW of electrolyser capacity



# Transport



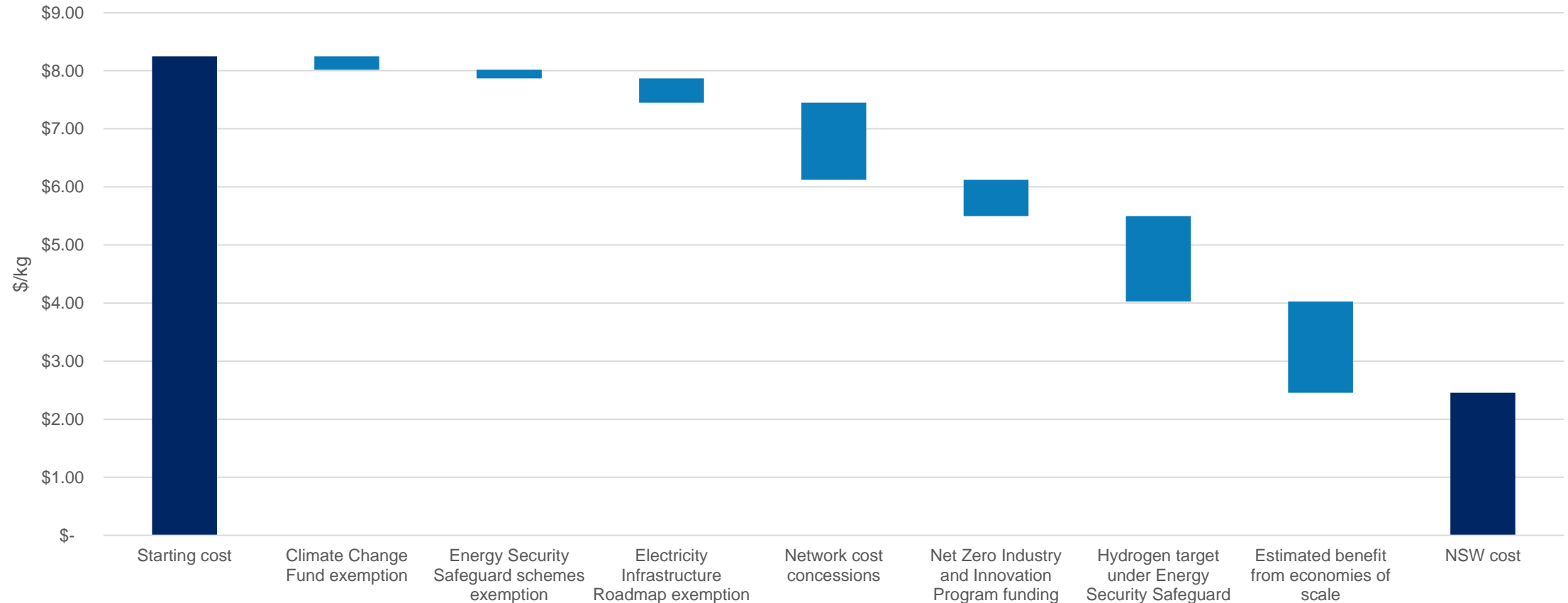
Transport

## The Strategy sets out 11 actions for the transport sector, including:

- Implementing a zero-emissions transition strategy for the NSW Government's fleet of 8,000 buses
- Completing feasibility, trials and testing of NSW Government hydrogen vehicles to achieve our 20% heavy vehicle stretch target by 2030
- Investigating possible incentive structures to encourage the uptake of hydrogen vehicles
- Developing and implementing a NSW Government heavy transport sector market engagement and advocacy plan
- Identify and make any necessary updates to NSW legislation and regulations relevant to the safe use and distribution of hydrogen in transport applications at scale. This includes the Dangerous Goods Act (Road and Rail) Act 2008, Heavy Vehicle (Adoption of National Law Act) Act 2013 and Transport Administration Act 1988.












# Strategy impact on cost of hydrogen



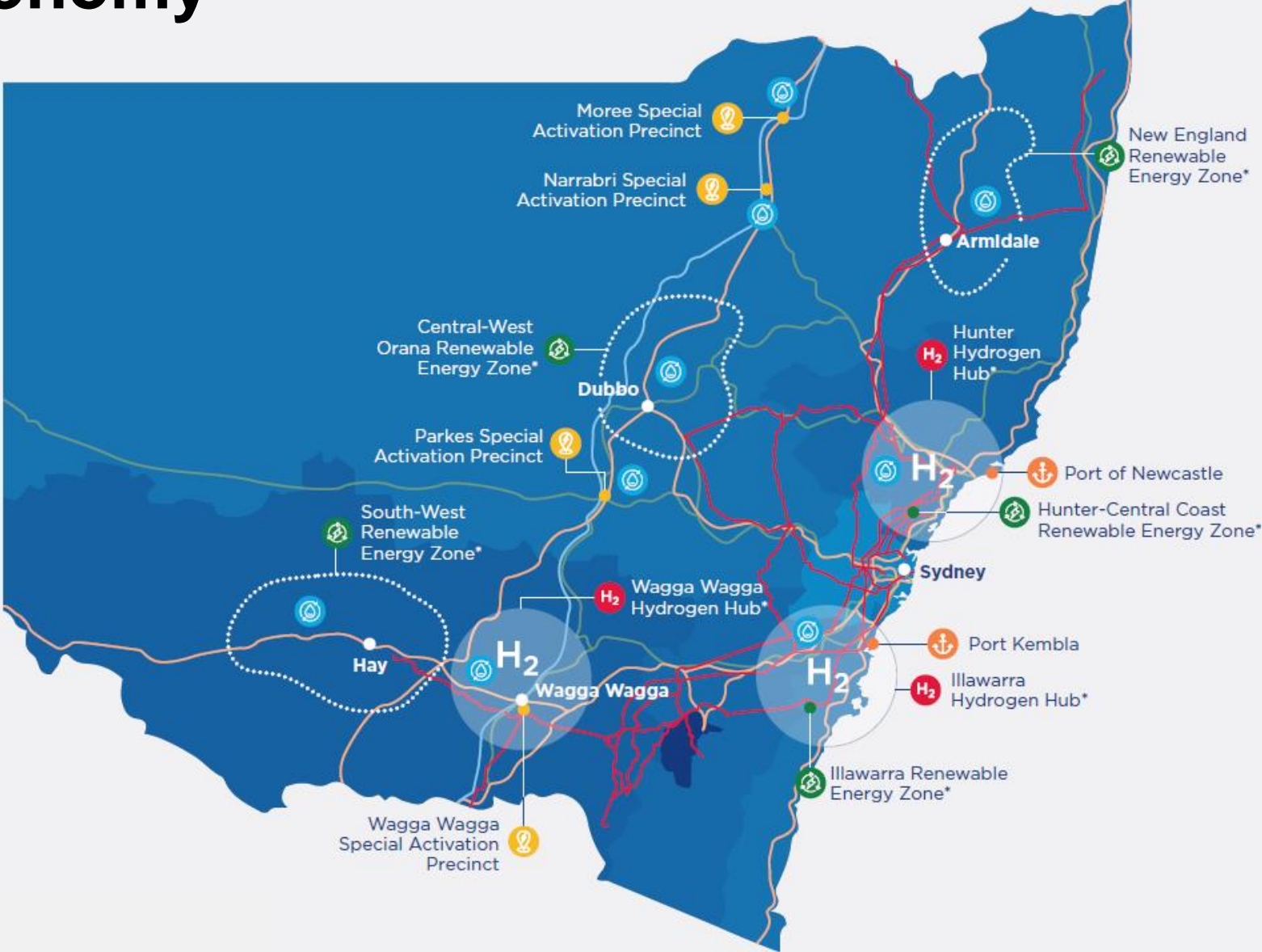
# NSW hydrogen economy

**Map legend**

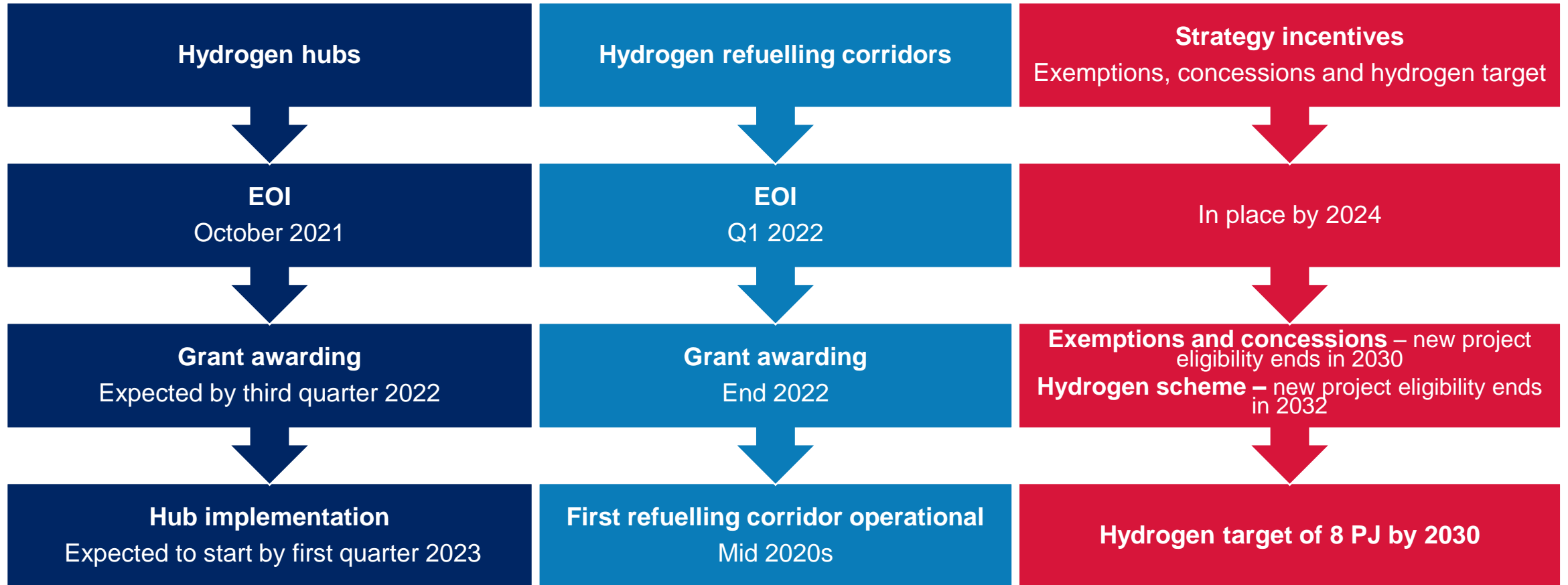
-  Hydrogen Hub
-  Renewable Energy Zone
-  Port
-  Special Activation Precinct
-  Licensed waste water treatment
-  Strategic road freight corridors for hydrogen refuelling network
-  Key rail freight routes
-  Inland Rail
-  High voltage transmission network

**Annual hydrogen production capacity from waste water (Mt)**

 Location	Mt	 Location	Mt
Moree	0.6	Hay	0.6
Narrabri	0.1	Wagga Wagga	1.2
Armidale	0.6	Hunter	8.8
Dubbo	0.7	Illawarra	11.7
Parkes	0.6		



# Timeline of NSW Hydrogen Strategy initiatives



# Collaboration platform

We have launched a digital platform to drive collaboration on hydrogen in NSW and facilitate connections between hydrogen projects and consumers.

Please contact the department at [hydrogen@planning.nsw.gov.au](mailto:hydrogen@planning.nsw.gov.au) if you would like to access this portal.

The screenshot displays the NSW hydrogen collaboration platform website. The navigation bar includes links for Homepage, Challenges, All activity, User directory, Leaderboard, and Need help?. There is a search icon, a 'Moderate Ideas' button, and a 'Post an Idea' button. The main header reads 'NSW hydrogen collaboration platform' with the tagline 'An opportunity to connect and collaborate'. The 'Challenges' section features a grid of challenge cards. Each card includes a representative image, a title, a brief description, and interaction icons for ideas, likes, comments, and shares.


Homepage Challenges All activity User directory Leaderboard Need help?  Moderate Ideas Post an Idea

## NSW hydrogen collaboration platform

An opportunity to connect and collaborate

### Challenges


Archived  Closed Sort challenges: Default



#### Hunter hydrogen hub

This challenge has been set up for you to discuss projects located in the Hunter region for the upcoming hubs Initiative later in the..


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#### Illawarra hydrogen hub

This challenge has been set up for you to discuss projects located in the Illawarra region for the upcoming hubs Initiative late...

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#### Hydrogen refuelling corridors

This challenge has been set up for you to discuss considerations for the rollout of a distributed hydrogen refuelling network,...

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# DPIE Hydrogen team

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[hydrogen@planning.nsw.gov.au](mailto:hydrogen@planning.nsw.gov.au)

Department of Planning, Industry and Environment