

Accelerating Construction of Hydrogen Stations to Promote Widespread Use of Fuel Cell Vehicles in Japan

Toward the Creation of a Hydrogen-based Society



JAPAN H₂ MOBILITY

JHyM

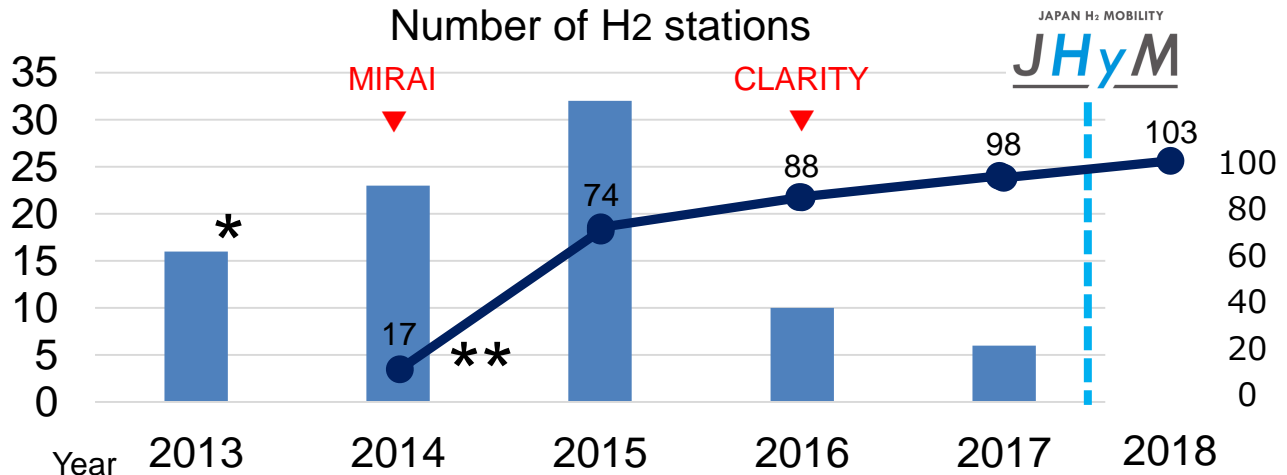
September 25, 2019
Hideki Sugawara, President
Japan H₂ Mobility, LLC

Background of JHyM's establishment

2002 Start technology validation for FCV and Hydrogen stations

2011 Joint statement by 13 private companies

- Parties below cooperate to expand FCV and ST nationwide network
- Automakers aim to introduce FCV into the domestic market in 2015
- Infrastructure companies aim to construct about 100 STs by 2015



* Approved year under subsidized budget

2

** Cumulative of opened STs(FY base)

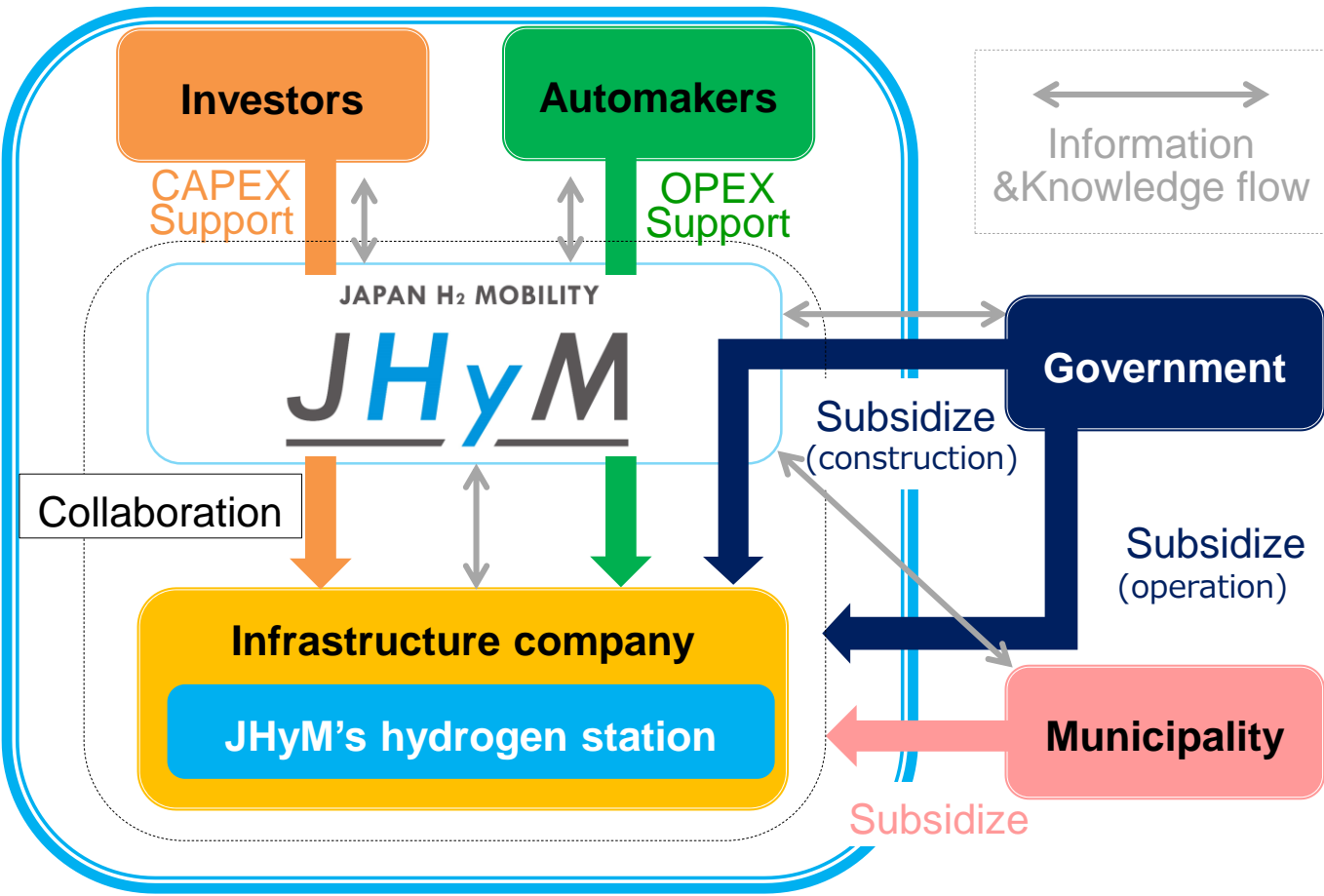
Establishment of the New Company

Founding Member Companies



World's first initiative for construction of hydrogen stations jointly funded by infrastructure companies, automakers, investors, etc.

JHyM's Business Scheme



JHyM's Mission

JHyM

Strategic deployment of hydrogen stations

80 stations by 2021

Contribution to the efficient operation of hydrogen stations

Better coordination among stations

Further construction of hydrogen stations

Improved convenience for FCV users

Sustainability of hydrogen station business

Increased number of FCVs

Create virtuous cycle between FCVs and hydrogen stations

JHyM's Contribution to Station Network

- 1) JHyM's hydrogen stations spread beyond metropolitan areas.
- 2) Both local and small & medium sized new entrants joined JHyM for station business.

- JHyM Stations with existing members
- JHyM Stations with new members

福岡酸素株式会社
FUKUOKA OXYGEN CO.,LTD. since 1919

南国殖産株式会社

TOYAMA
HYDROGEN
ENERGY PROMOTION COUNCIL

SEIRYU
POWER ENERGY

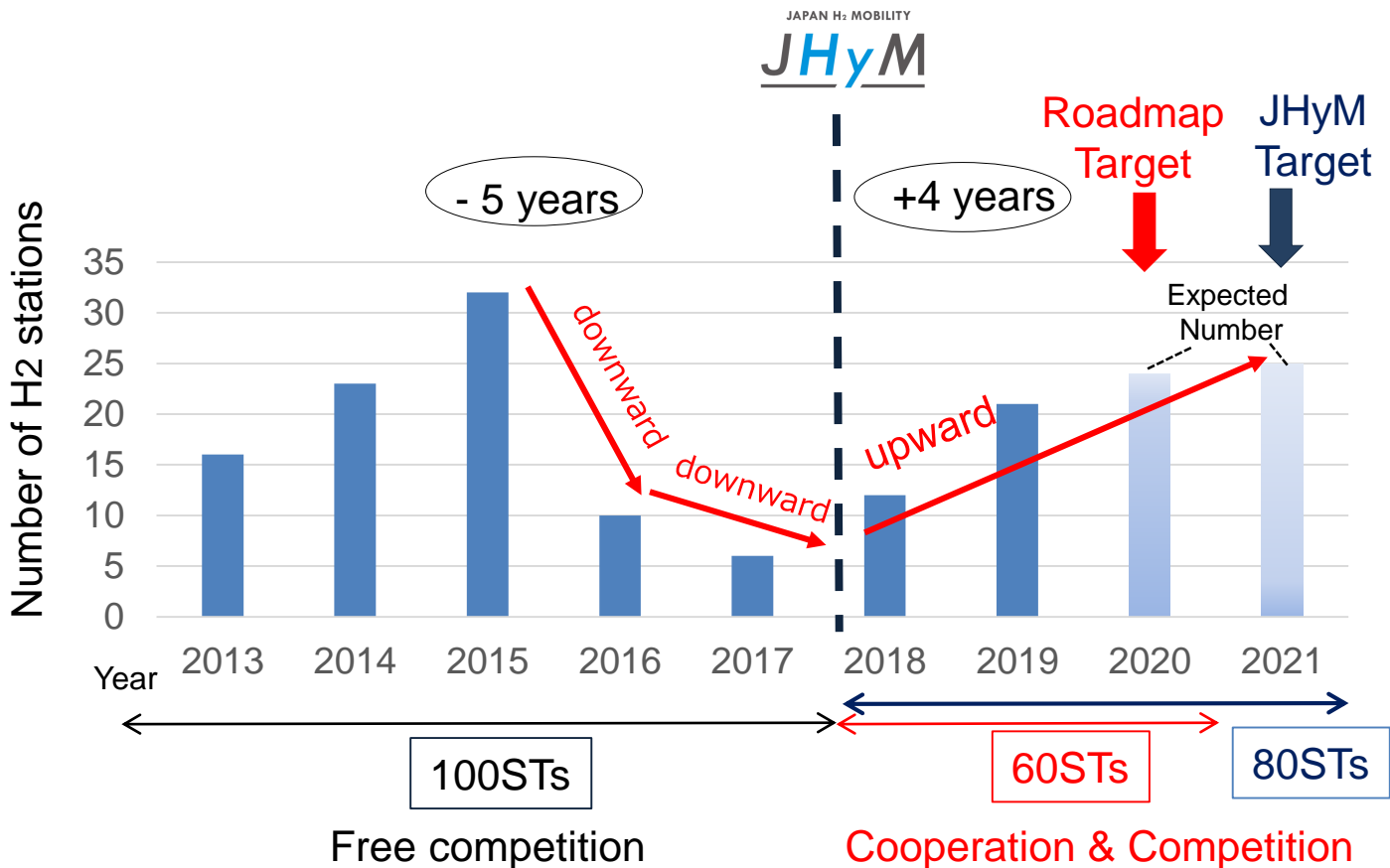
根本通商株式会社

MARUI

TKK
TAMA-KOUN CO.,LTD.

- Prefectures with stations before JHyM
- Prefectures with stations after JHyM

JHyM's Effects in Hydrogen Station Market



Future challenges

Promote investment in stations to implement the roadmap

Financial self-sufficiency for stations

Increased FCV demand

Reduced cost for hydrogen

Cost reduction for hydrogen stations
(Construction · Operation)

Company's efforts

- R&D
- Mass-Production
- Load leveling etc.

Industry cooperation

- Benchmark study
- Joint purchase
- Standardization etc.

Regulation review

- Self filling
- Material
- Safety factor etc.