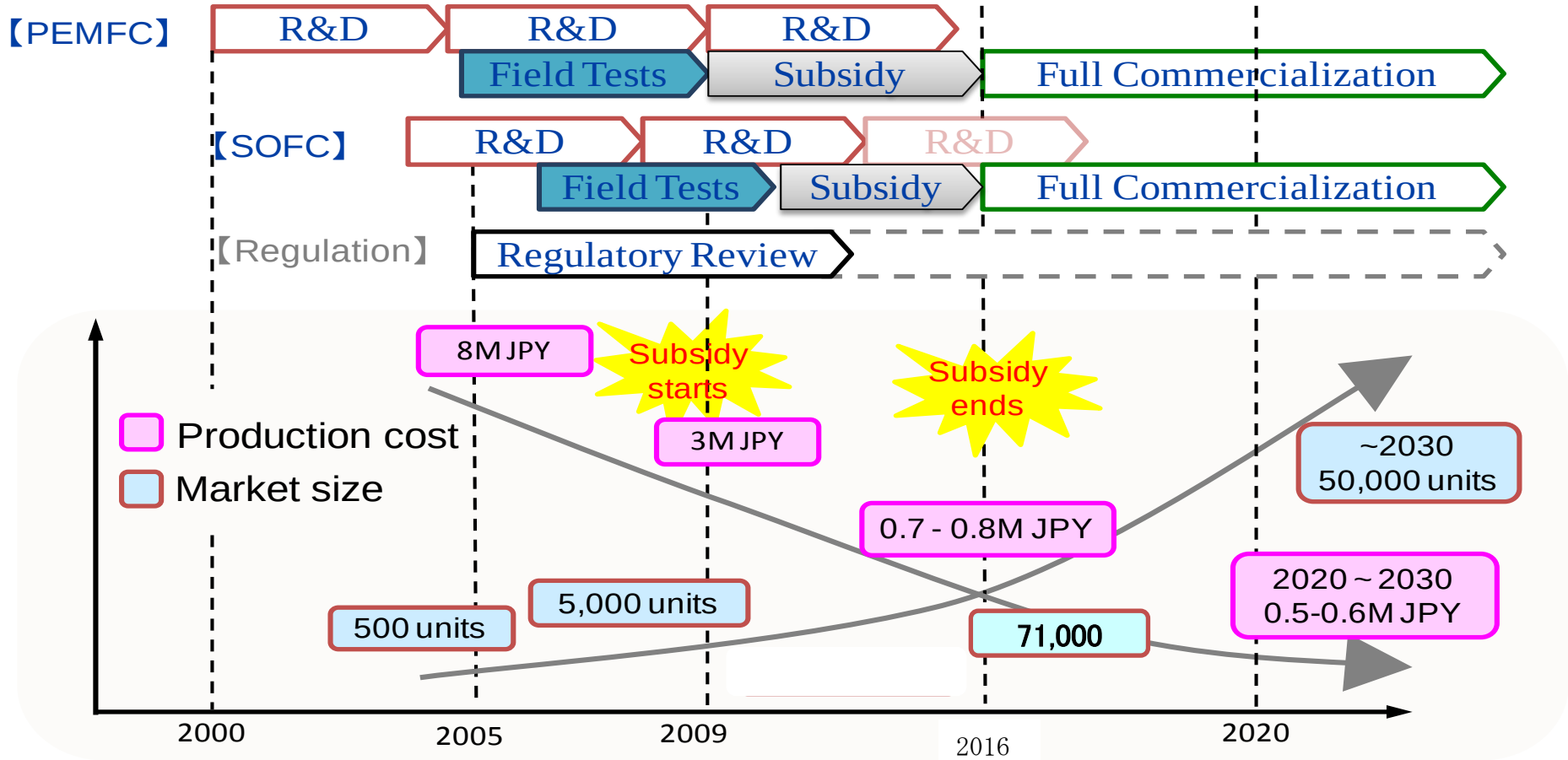
Hydrogen Infrastructure Related issue in Japan

New Energy and Industrial Technology Development organization(NEDO)

2014 hydrogen Workshop
June 27, 2014
Hotel Mt.FUJI 、Japan

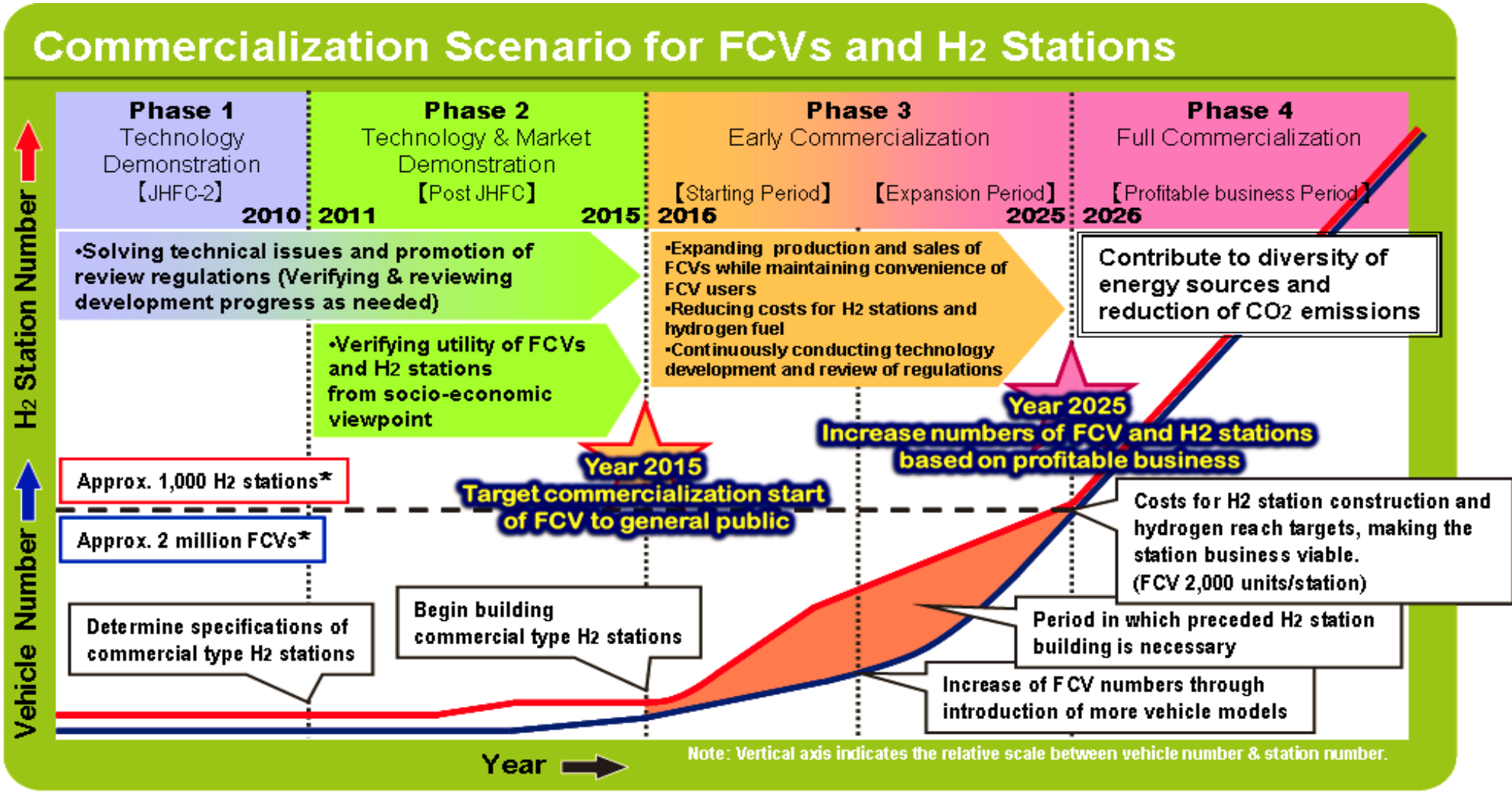
1.ENE-FARM: R&D Program - subsidy

- Subsidy to be finished in FY 2015.
- Government targets 5.3 million units in accumulating total until 2030.
- Needs cost reduction to less than 1 million yen for further widespread commercialization as well as durability improvements.



2. FCV and HRS Deployment
~ Commercialization Scenario by FCCJ*~

* Fuel Cell Commercialization Conference of Japan



* Precondition: Benefit for FCV users (price/convenience etc.) are secured, and FCVs are widely and smoothly deployed

Reference : FCCJ, March 2010 http://fccj.jp/

3 .R&D National Program
~To solve issus for Hydrogen Infrastructure ~

Item 1: Streamlining Regulations

"Regulation Reform Plan" (Cabinet approved in June 2013)
- 24 items were identified as priority
  (e.g. location, distance, materials, etc.)

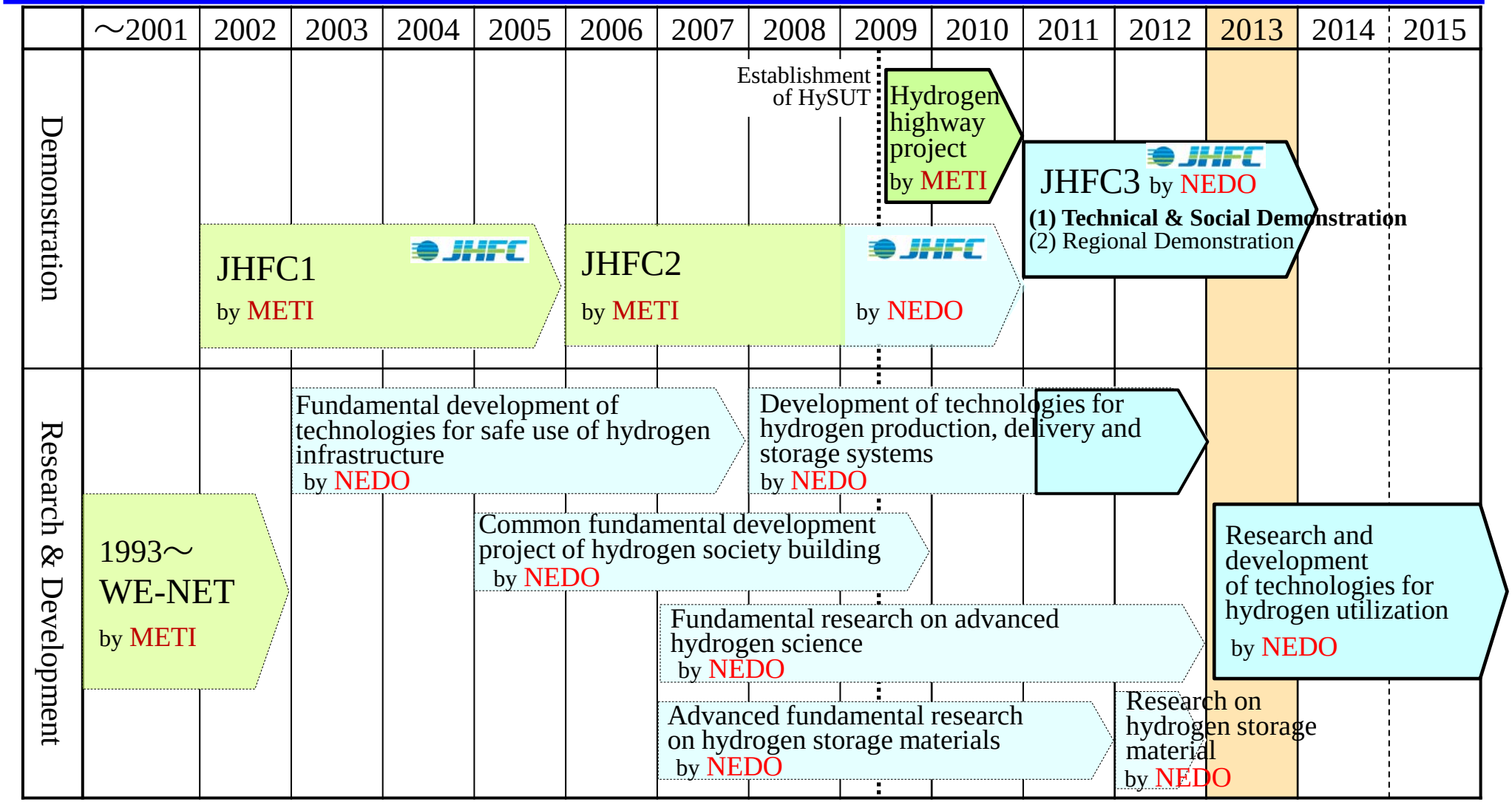
Item 2: R&D on low cost equipment for HRS

e.g. Compressor, Pre-cooler, Reformer, etc.

Item 3: Code and Standard

e.g. quality, metering, filling, inspection, etc.

3. FCV/Hydrogen Infrastructure Projects in Japan

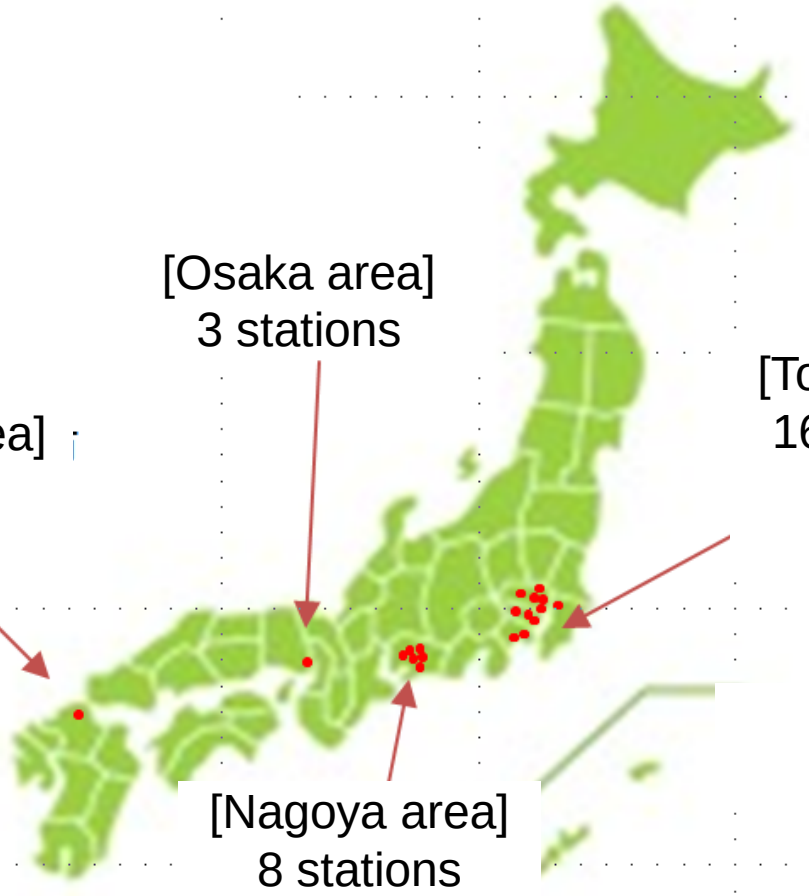


METI : Ministry of Economy , Trade and Industry
NEDO: New Energy and Industrial Technology Development Organization
WE-NET: International Clean Energy Network using Hydrogen Convention (World Energy- NETwork)
JHFC: Japan Hydrogen & Fuel Cell Demonstration Project

5. Promotion of HRS Installation : Current Status

- **Prior to market introduction of FCVs (2015), 100 HRSs will be installed in 4-major-populated-areas (Tokyo, Aichi, Osaka, Fukuoka)**
- **METI subsidizes about 50 % of HRS installation cost**

(2014FY 7.2 billion JPY)



Status of HRSs (as of June 19th)
Budget secured
; 31 stations
; 1 Large H2 Production Facility

Thank you
for your attention!