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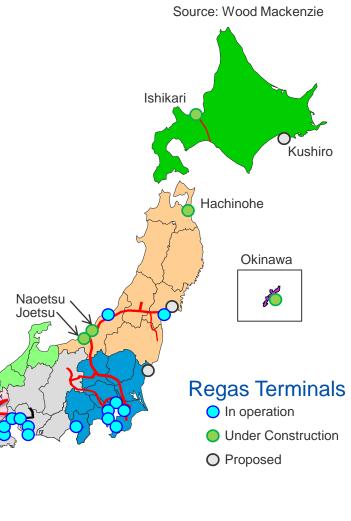
## Chevron History of Business in Japan



#### **Summary of Business History**

- 1951 Caltex and Nippon Oil formed Nippon Petroleum Refining Co. & Tokyo Tanker Co. Ltd.
- 1961 Established Chevron Japan Ltd. (Oronite)
- 1977 Bontang supplying LNG to 9 Japanese utilities
- 1989 1/6 owner of North West Shelf supplying LNG to 10 Japanese utilities
- 2003 Established Chevron International Gas Inc.
   Japan office to support marketing of Gorgon Project

Kitakyushu



# New LNG Projects Gorgon and Wheatstone in Australia



### Gorgon

- Chevron is operator with approximately 47% interest
- With an estimated 40 trillion cubic feet of natural gas, provides enough energy to power a city of 1 million people for 800 years
- 15 MTPA LNG facility on Barrow Island will supply gas to Asia:
  - Osaka Gas (1.375 MTPA for 25 years)
  - Tokyo Gas (1.1 MTPA for 25 years)
  - Chubu Electric (1.44 MTPA for 25 years)
  - GS-Caltex (0.5 MTPA for 15 years)
  - Kyushu Electric (0.3 MTPA for 15 years)
  - JX Nippon Oil & Energy Corporation
     (0.3 MTPA for 15 years)

#### Wheatstone

- Initial two train 8.9 MTPA LNG development, expandable to 25 MTPA
- Multiuser hub secured via aggregation
- Once online, it will supply gas to Asia:
  - Tokyo Electric (20 years, 3.1 MTPA)
  - Kyushu Electric (20 years, 0.7 MTPA)

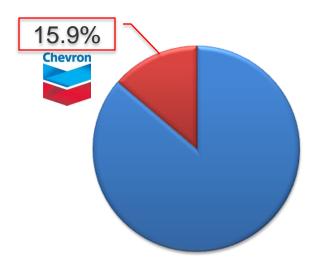


## Economic Impact of the Earthquake and Fukushima Incident & Chevron's Role in Contributing Energy Security of Japan



### Japan Regional GDP and Nearest Country-Equivalents

## **Chevron's Contribution to Japan's LNG Supply, 2018**



Source: Wood Mackenzie, November 2011



## Pacific Basin LNG Supply Projects Full Value Chain Megaprojects



Project elements are getting more complex

Resource

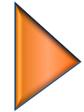
Government Support

Project Management

Market

An integrated strategy is more critical than ever

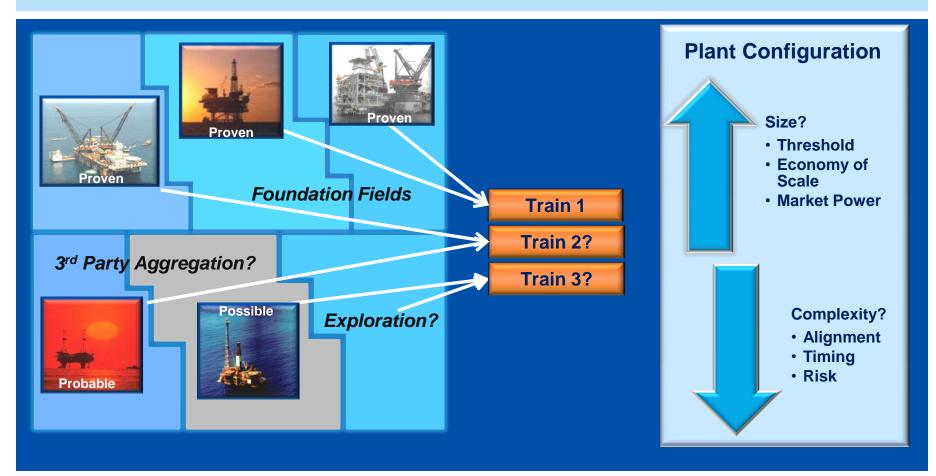
**Strategy** 



Successful Final Investment Decision

## Resource Strategy Defining the Opportunity

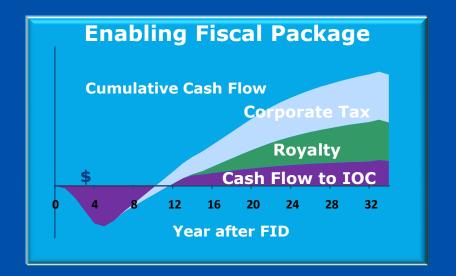




Securing sufficient resources and determining optimal project structure could challenge execution timing

## Government Support A Full Life Undertaking







#### **Domestic Market Consideration**



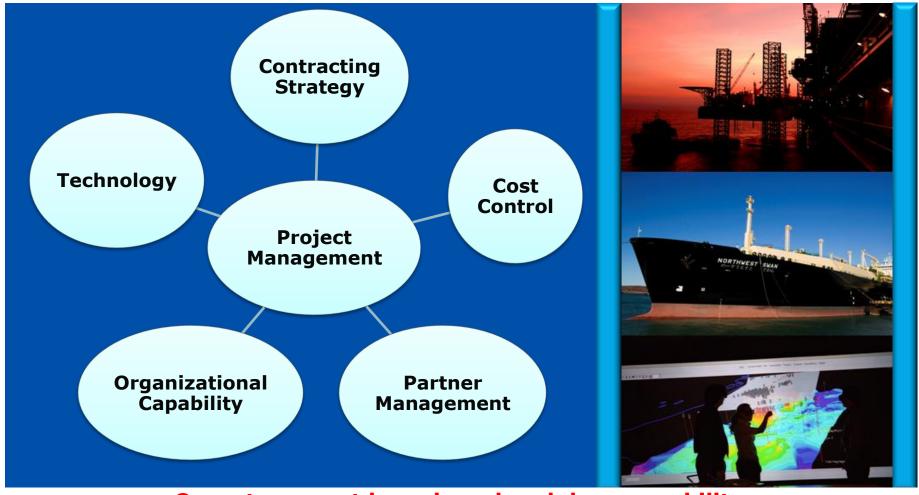




Government objectives must be satisfied with solutions that are commercially viable

## Project Management Focusing on the Critical Factors





Operators must have broad and deep capability

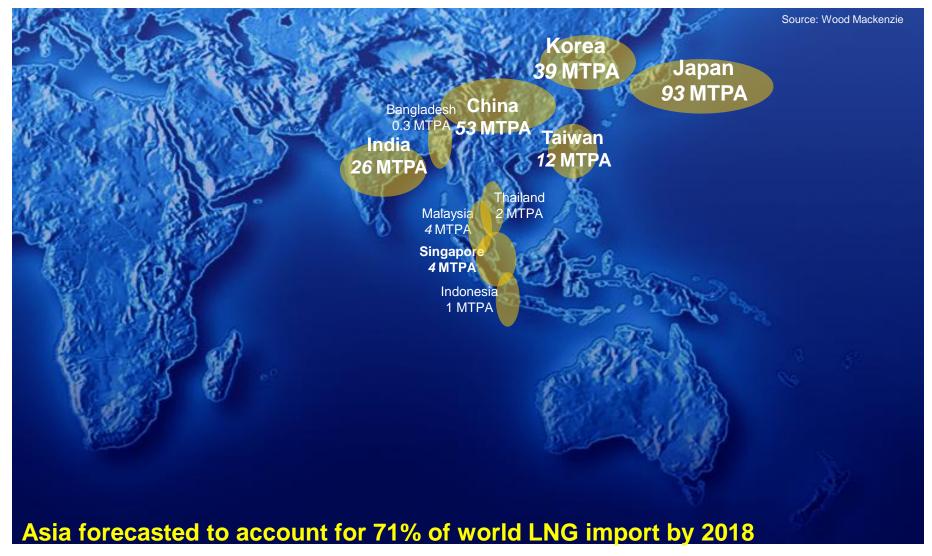
## Market Strategy: Solid Foundation Buyers





### Forecast Asia LNG Demand - 2018





ありがとうございました

감사합니다

谢谢你

Thank You



### Chevron's Natural Gas Resources



