Shell LNG fuel

Seatrade Cruise Global 2017

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Reserves: Our use of the term "reserves" in this presentation means SEC proved oil and gas reserves.

Resources: Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

Organic: Our use of the term Organic includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact.

Shales: Our use of the term 'shales' refers to tight, shale and coal bed methane oil and gas acreage.

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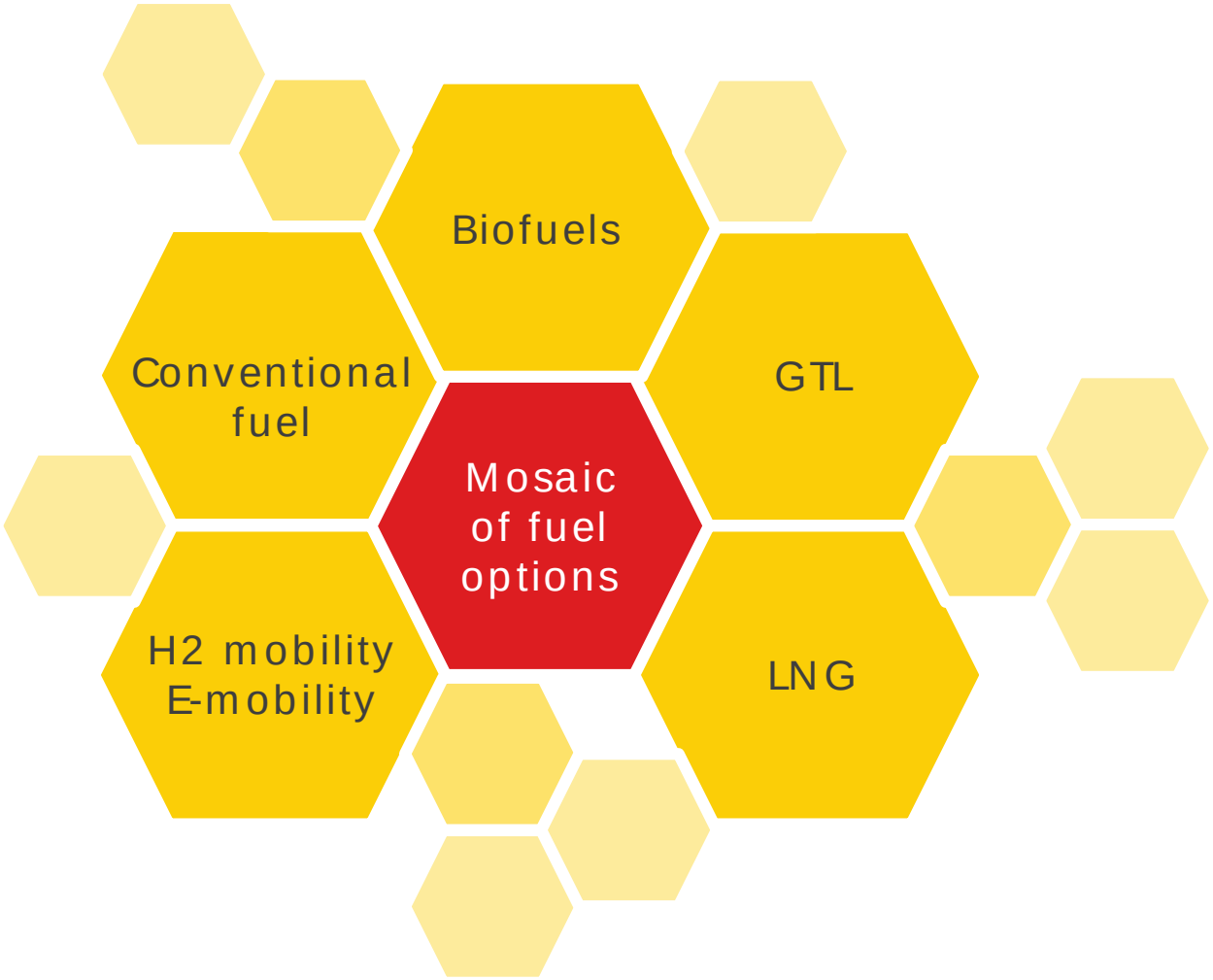
A mosaic of fuel options will be required



There is no
“ silver bullet”

LNG is one option in an evolving fuel mix

Available
Acceptable
Affordable

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LNG fuel can help address the regulatory reality

LNG fuel is the lowest carbon fossil fuel and can support ship owners and operators in meeting the current and future expected IMO Marpol Annex VI sulphur and nitrogen oxide emission limits.

LNG offers:

- Virtually zero SOx emissions
- Significantly reduced Particulate matter
- Significantly reduced NOx depending on tier 1/2/3 engine

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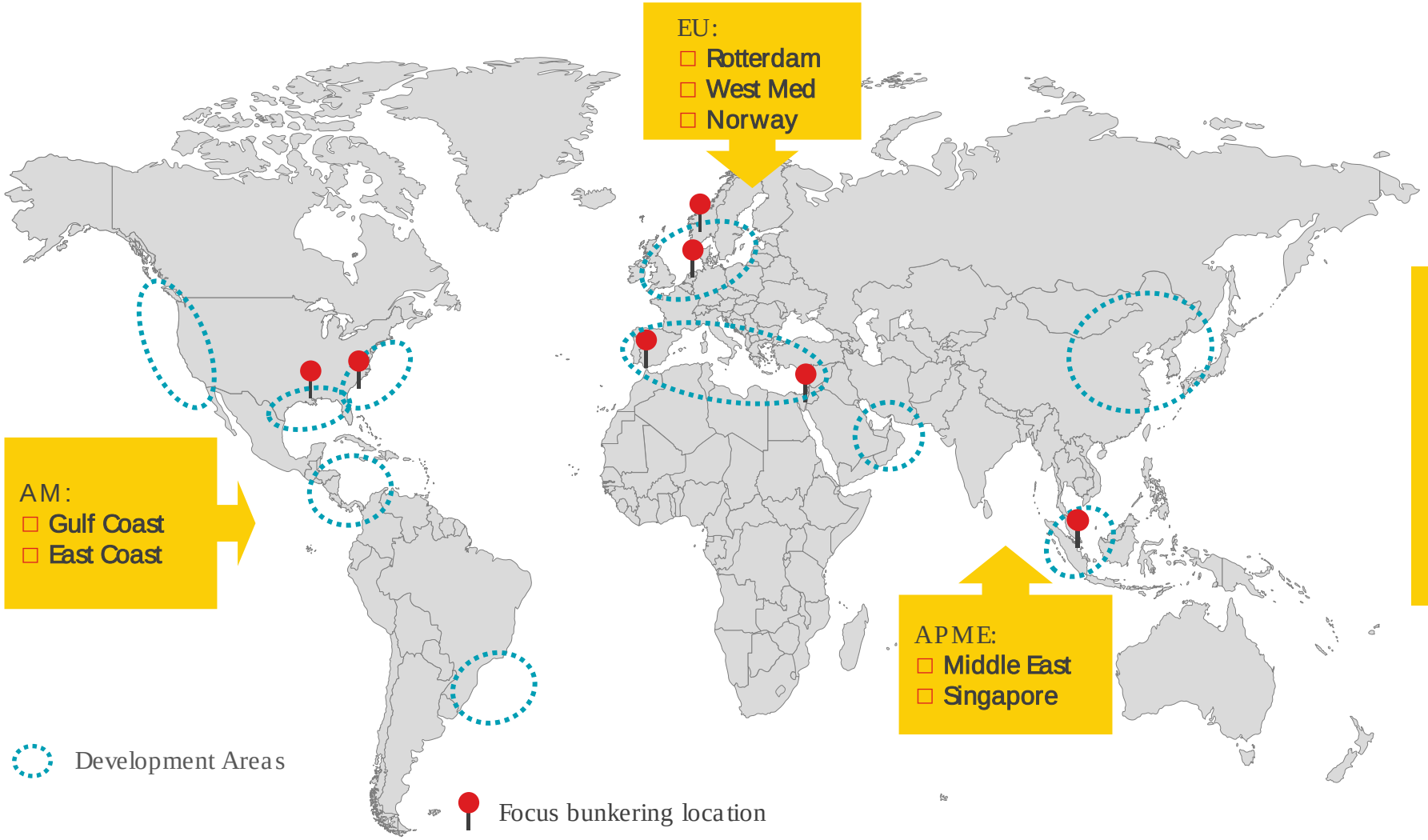
Developing a global marine LNG bunker supply network



- Clear focus on Rotterdam, Middle East, Singapore, and the United States
- Linked to customer demand, further bunker locations to be considered

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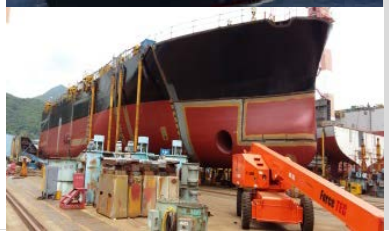
Shell is supporting growth in LNG fuel for the marine market

- Gasnor becomes 100% Shell subsidiary.
- Shell time charters Greenstream, the World's 1st 100% LNG propelled barge.

- Shell signed a time-charter agreement for 15 new inland dual-fuel barges, which will predominantly run on LNG.
- Shell charters LNG-powered Offshore Supply Vessel in the Gulf of Mexico, 3 now in operation.

2012/2013 | 2014 | 2015 | 2016 | 2017

- Shell orders bunker vessel to deliver LNG to marine customers in Europe.
- Shell is the launching customer of a new, dedicated LNG for transport infrastructure at the Gas Access To Europe (Gate) terminal in Rotterdam.



- MOU signed with Qatargas, Shell & the Maersk Group as well as Qatargas, Shell & UASC to explore the development of LNG as a marine fuel in the Middle East region.
- Singapore bunkering license awarded
- Agreement signed with Carnival for new LNG fuelled cruise ships, to be delivered in 2019
- 2017 - Van der Kamp Dredging – The Netherlands

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