

# JAXPORT

*LNG as a Marine Fuel*



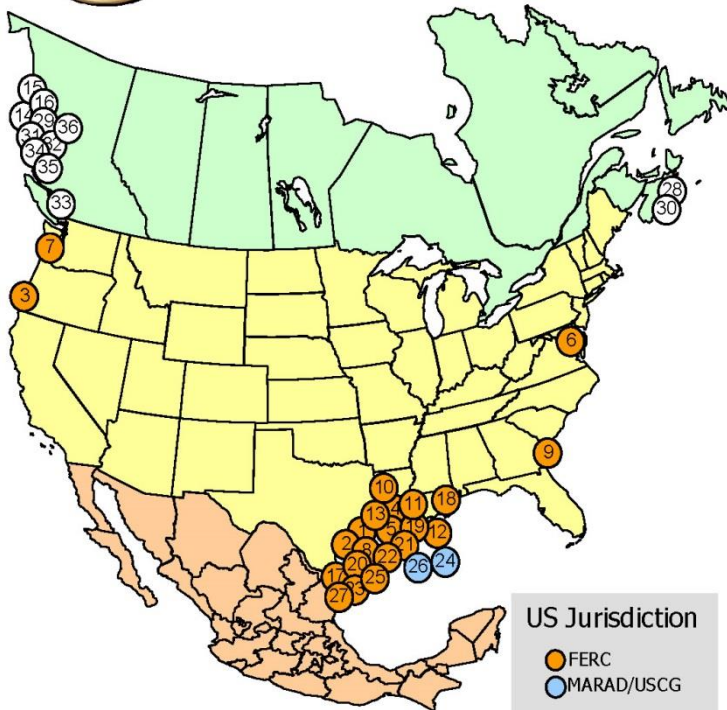
Transportation Research Board

Oct. 29, 2014 | Brian Taylor, Jacksonville Port Authority

# CHANGING ENERGY LANDSCAPE



## North American LNG Export Terminals *Proposed/Potential*



- Past - Focus on imports
- Present - Production and distribution

# NORTH AMERICAN EMISSION CONTROL AREA (ECA)



# SHIPSIDE ALTERNATIVES

- Low Sulfur Diesel
- Ultra Low Sulfur Diesel
- Emissions Control Equipment
- Cold Ironing
- LNG

# LANDSIDE ALTERNATIVES



- LNG
- CNG
- On Dock Equipment Electrification
- Hybrid Equipment
- Truck Operating Procedures
- Clean Truck Programs



# LNG



**Liquefied:** Cooled to  $-260^{\circ}\text{F}$



**Catalyst:** Logistics sector



**Target:** Marine vessels, Trains, Long-haul trucks





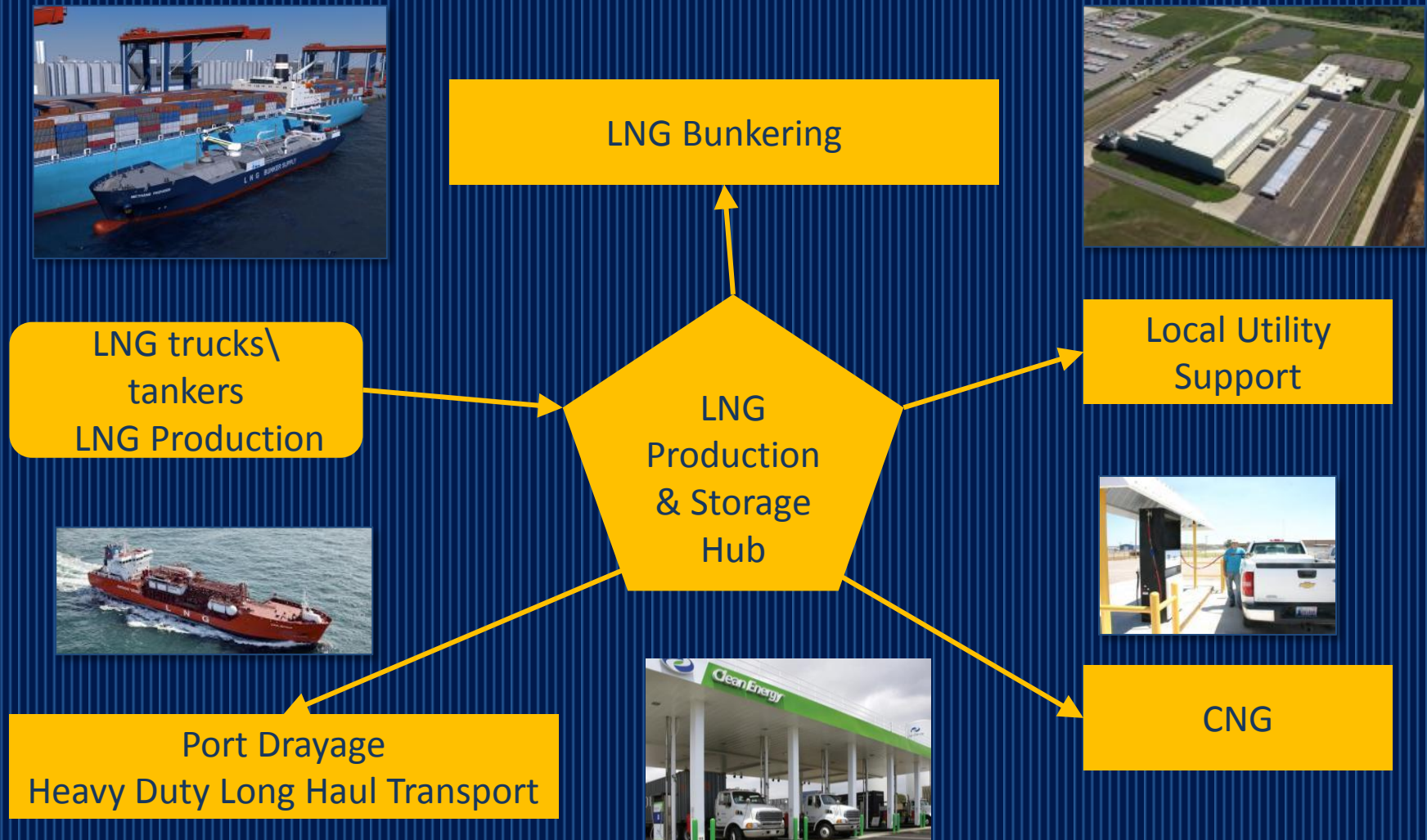
# CRITICAL JUNCTURE FOR JACKSONVILLE



- Protect our existing book of business
- Opportunity to be on the leading edge of development
- Export opportunities ahead

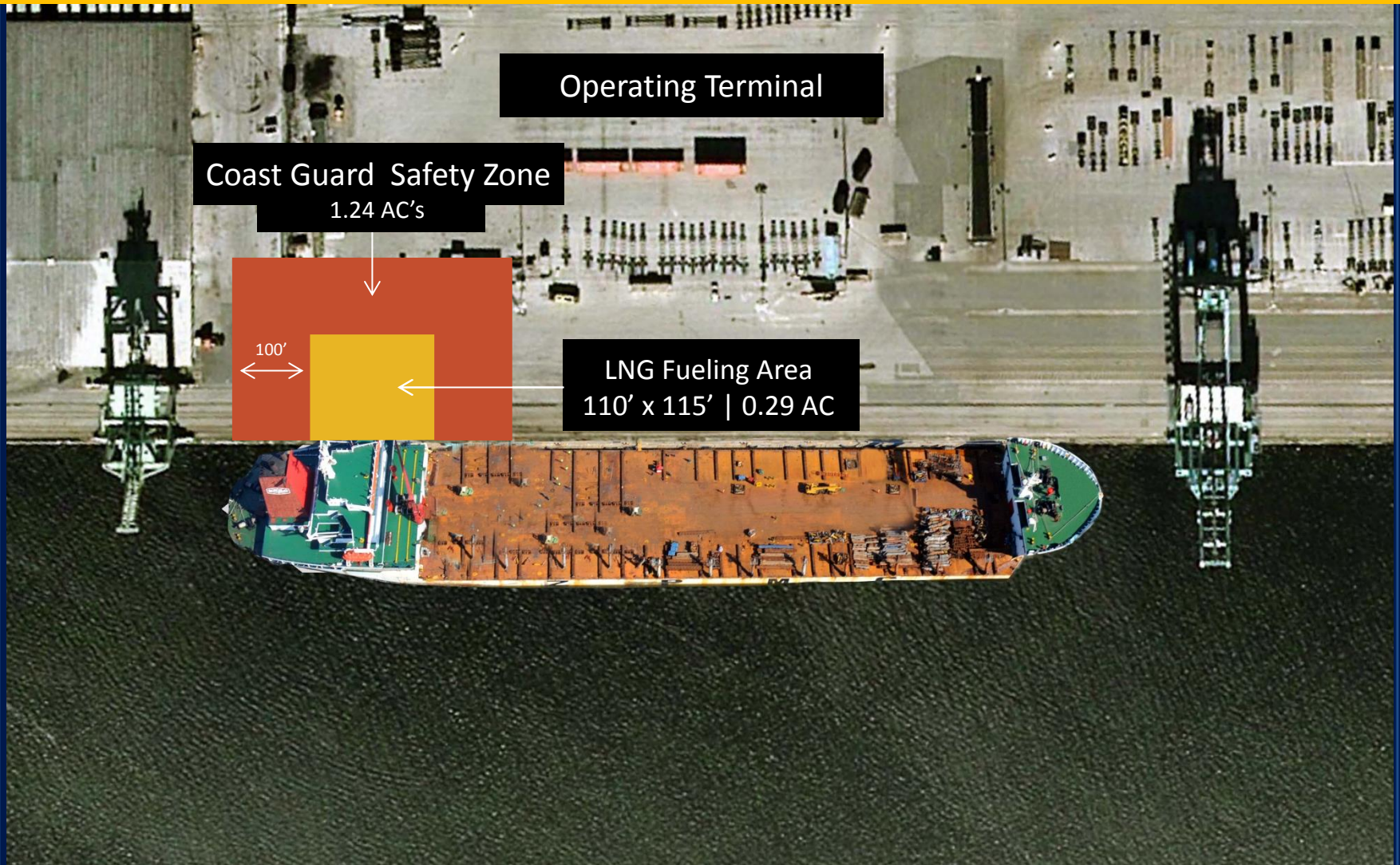


# LNG, CNG & Logistics





# LANDSIDE BUNKERING EXAMPLE





# WATERSIDE BUNKERING EXAMPLE





# LNG ISO TANK



# NEXT STEPS ARE CRITICAL



- Secure a position with an anchor customer
- Engagement with partner agencies
- Bunkering Platform
- Focus on safety and community engagement



# NATURAL GAS IN NORTHEAST FLORIDA



## PARTNERSHIP IN ACTION



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