### LNG Terminal in Lithuania Security of Gas Supply

#### Tadas Matulionis Deputy Director, LNG Terminal Klaipėdos Nafta

November, 2013 Gas Naturally Event, Brussels





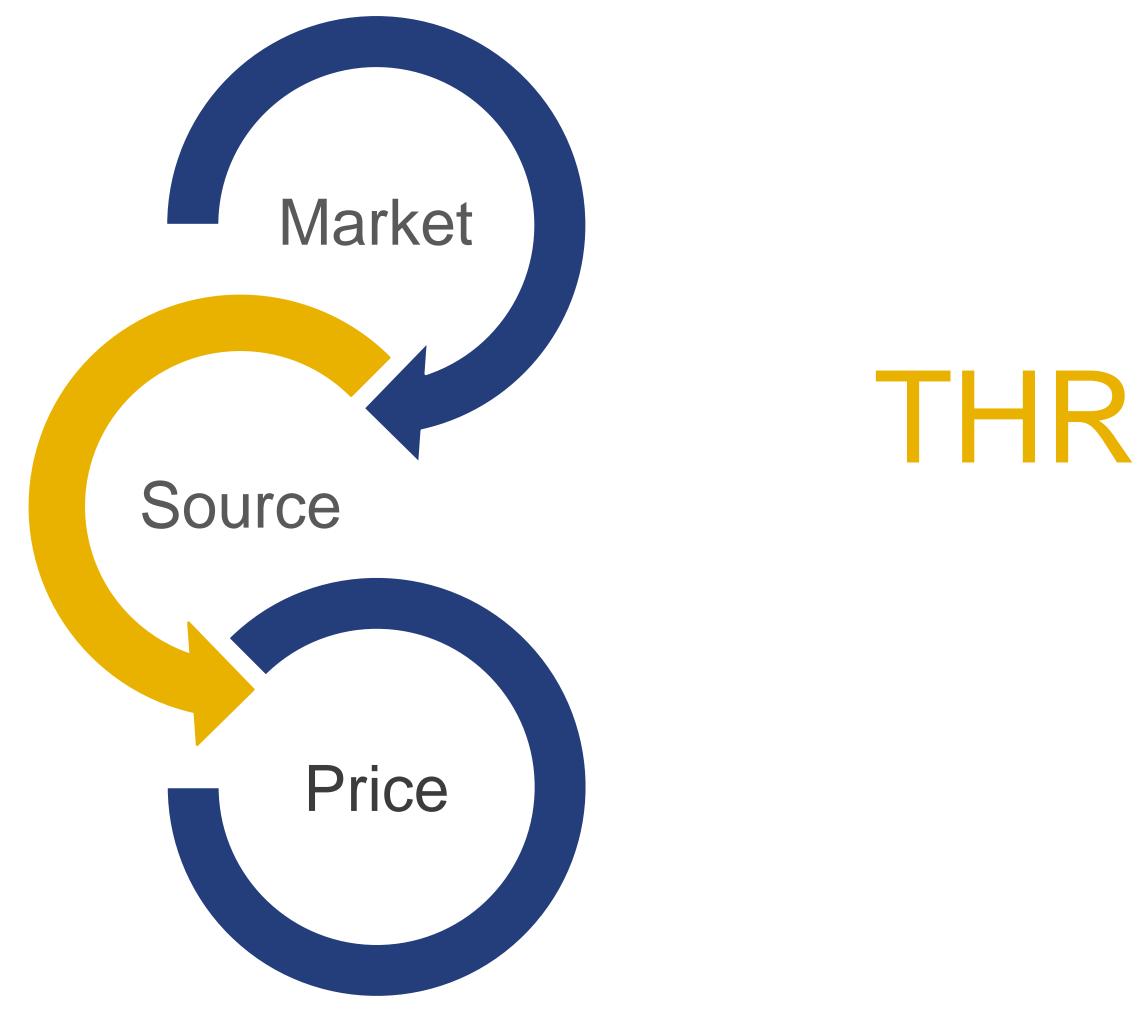
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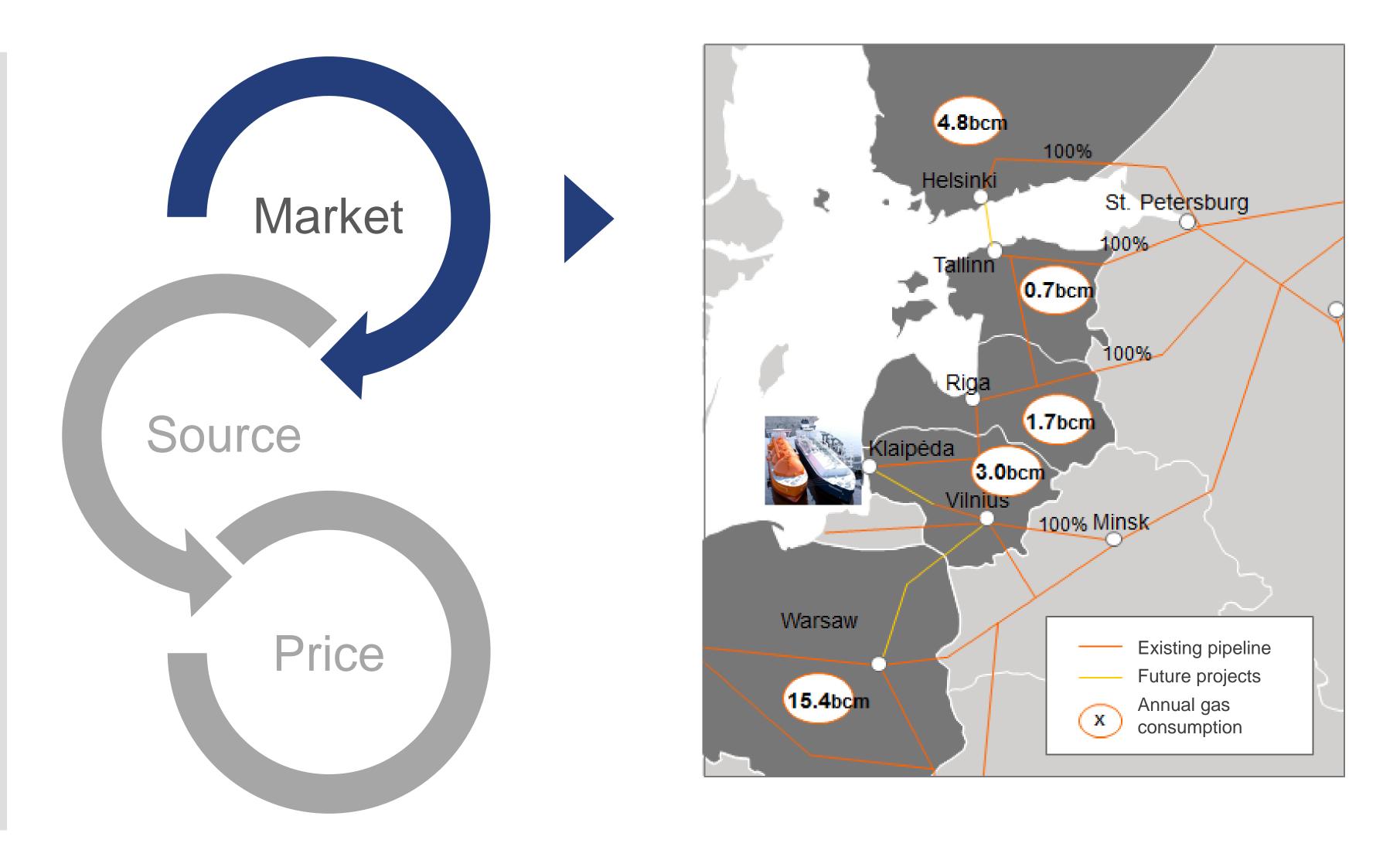








# THREE main challenges

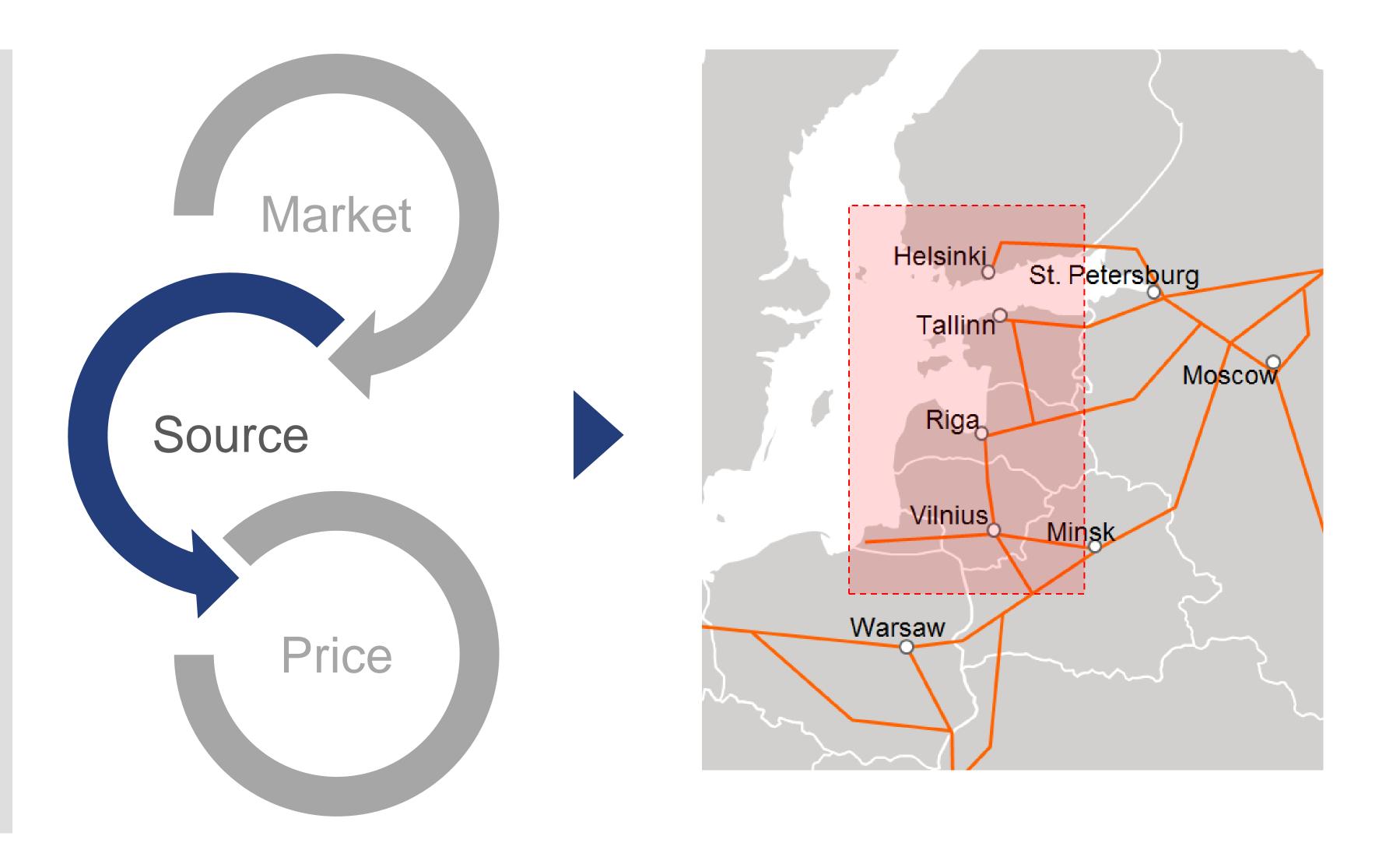




- Currently there is no gas market between the Baltic states and Finland
- The interlinks between countries are weak
- There are major infrastructure projects to enhance the situation

#### **Projects for diversification**

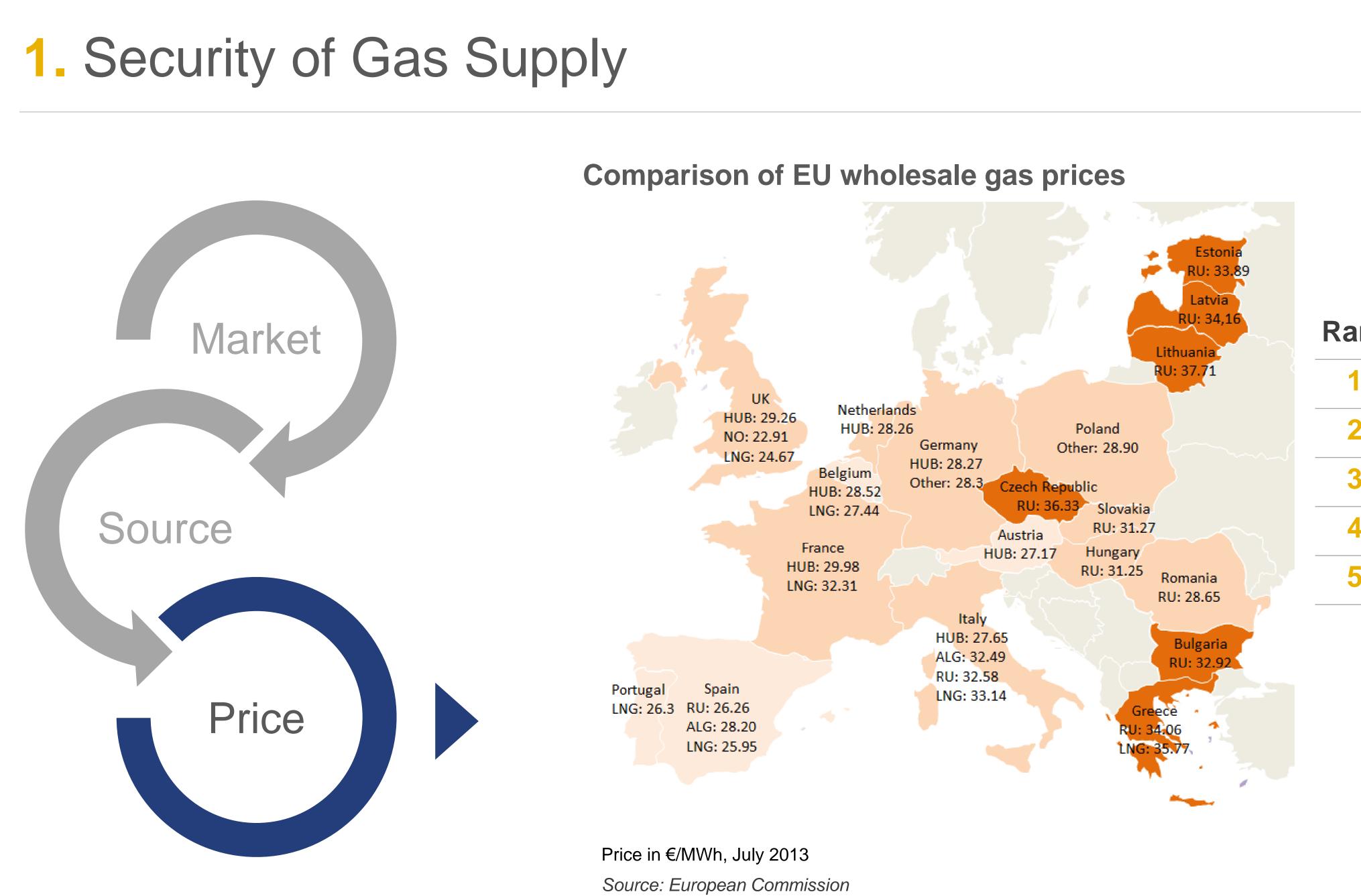
- **Baltic Interconnection**
- Interconnection Lithuania-2. Poland
- Gas Storage Capacities 3.
- 4. LNG terminal in Klaipėda





- Currently only one source of gas – extreme dependency on a single supplier
- Low energy security level on the regional scale
- One of the last "Energy Islands" in Europe







### **TOP 5**

Rank	Country
1.	Lithuania
2.	Czech Repub
3.	Greece
4.	Latvia
5.	Estonia



#### Impact







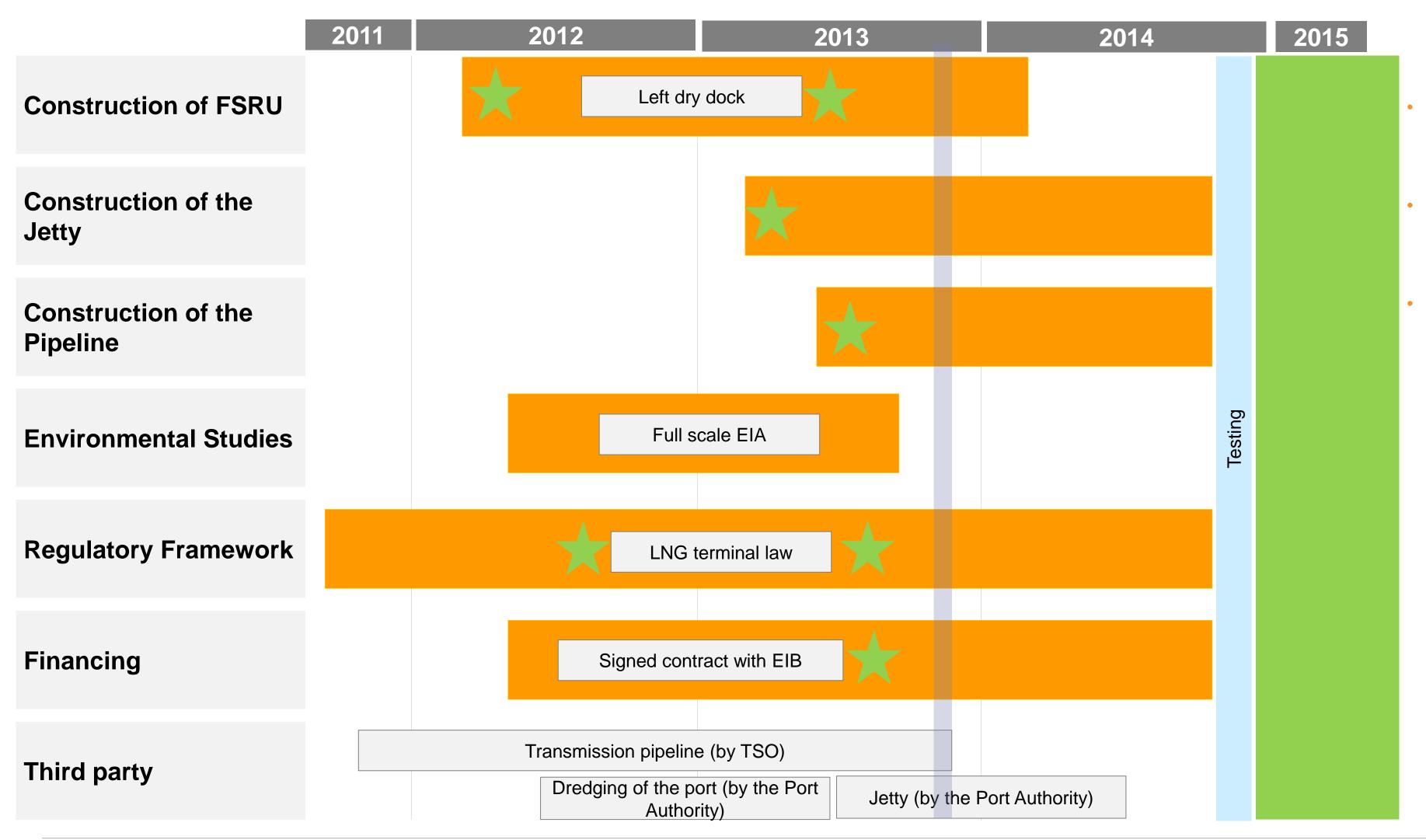
### Third party access will spur competition

### The terminal will help to diversify energy sources

### Ensures security of energy supply

### Import prices will reflect the global market price level

#### Project timeline



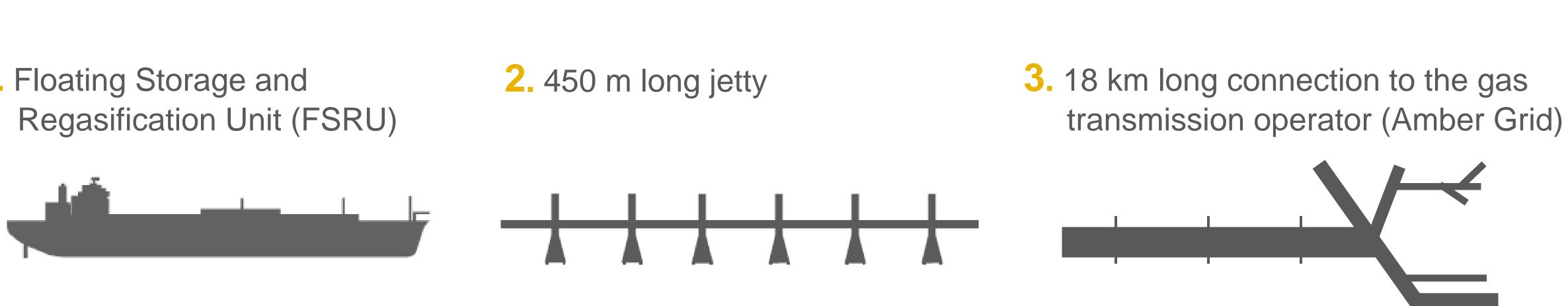


- LNG terminal is scheduled to start operations by December 2014
- Project implementation timeframe – less than 3 years
- LNG terminal will be open for capacity booking and gas trading



#### Project Ingredients

#### 1. Floating Storage and Regasification Unit (FSRU)









#### The Baltic Sea

# Pig's Back island

#### Jetty and FSRU

# The connecting gas pipeline

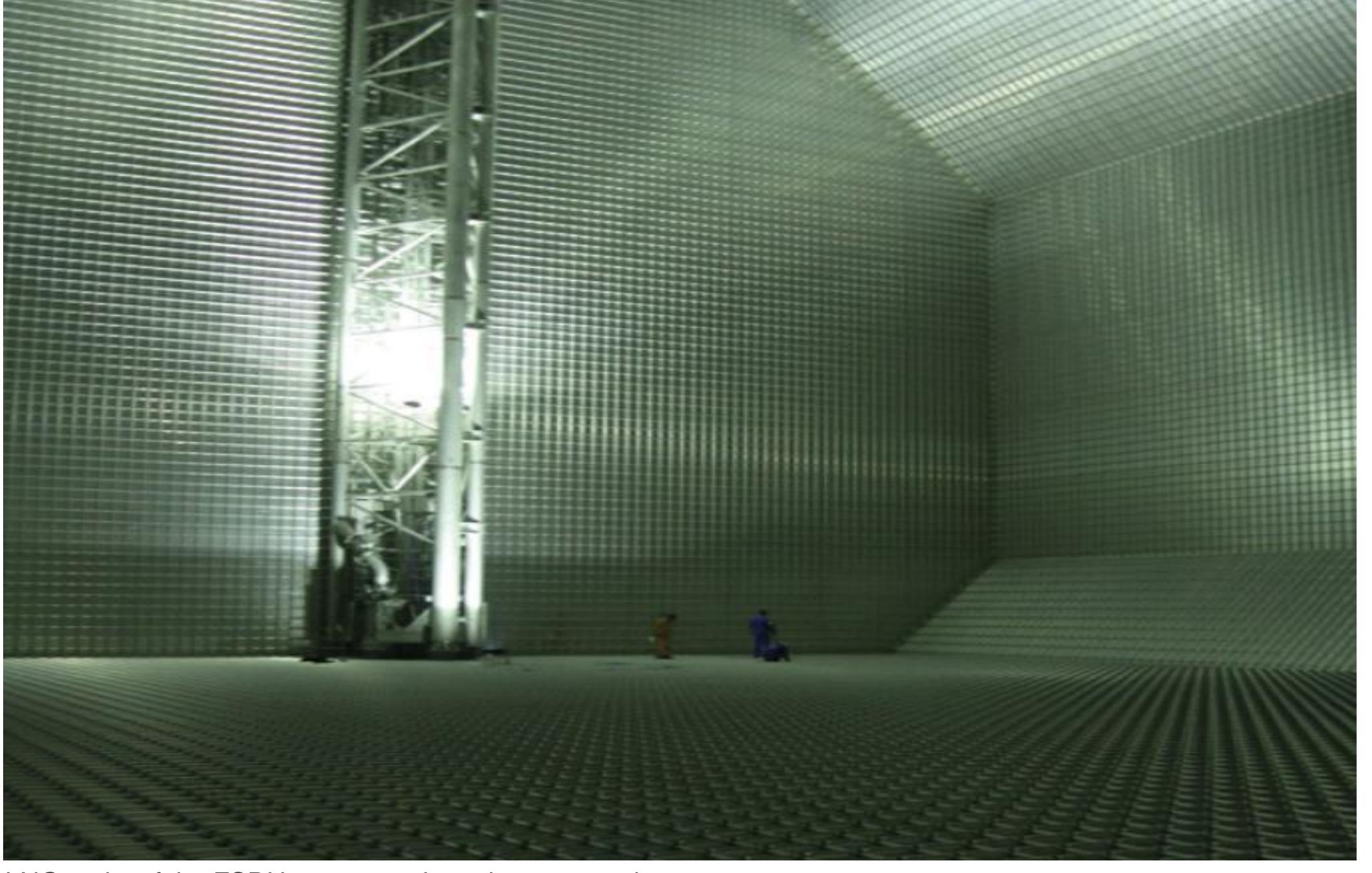




Launch of the FSRU "Independence" in Hyundai Heavy Industries dock in South Korea, 3rd of May, 2013

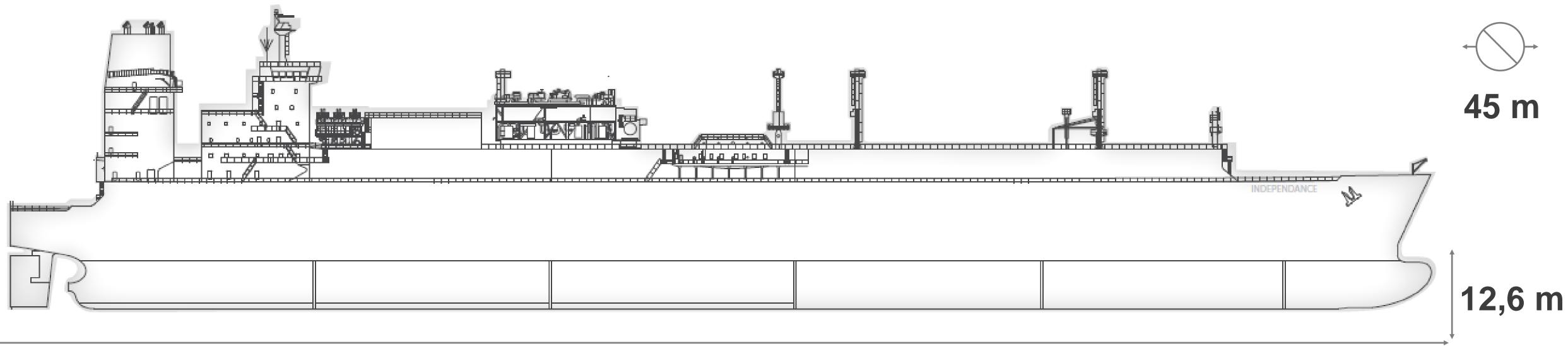


The regasification unit, mounted on the FSRU, tested and certified by the end of June, 2013



LNG tanks of the FSRU are currently under construction

#### FSRU



294 m

#### **Tech specs**

Location	Southern part of Klaipėda sea po
Supplier	Höegh LNG
Storage capacity	170 000 m <sup>3</sup>
Annual capacity	Up to 4 bcm of regasified NG

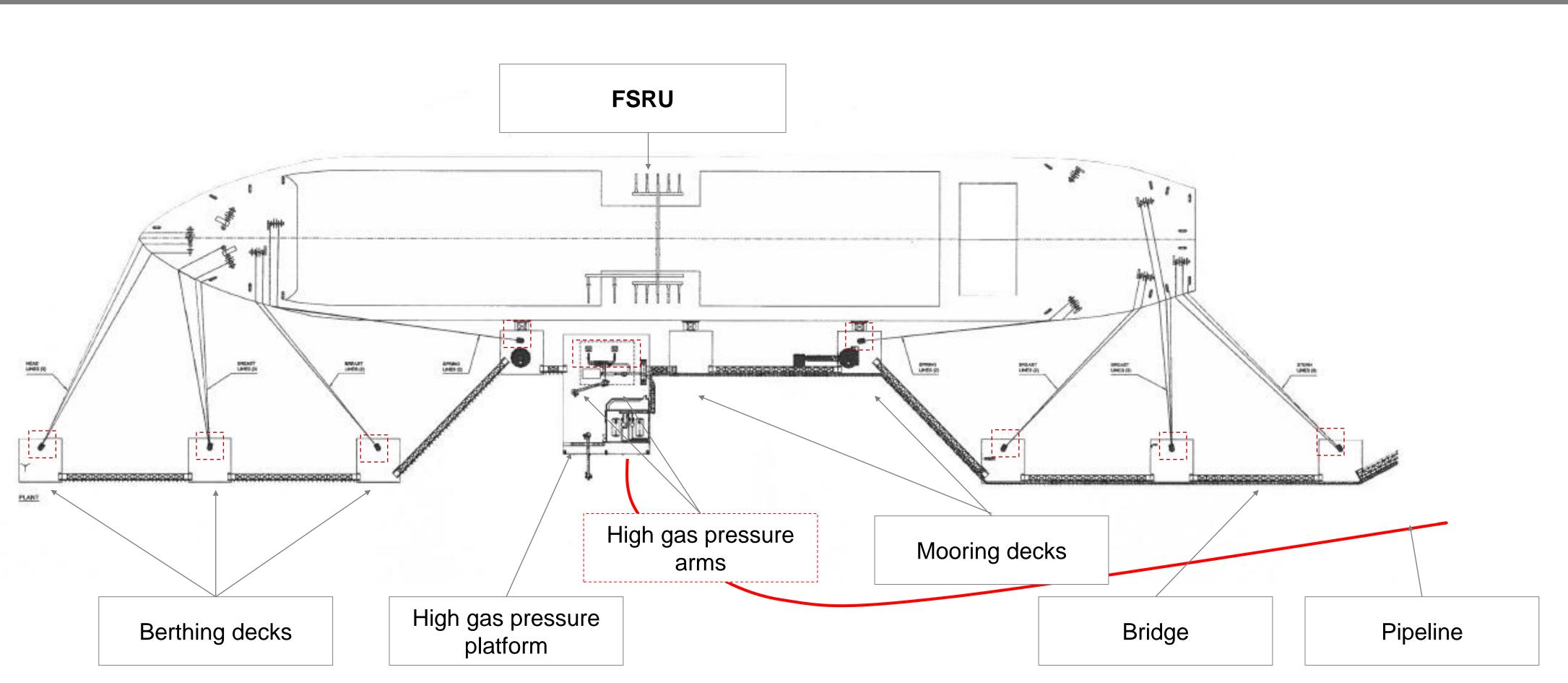




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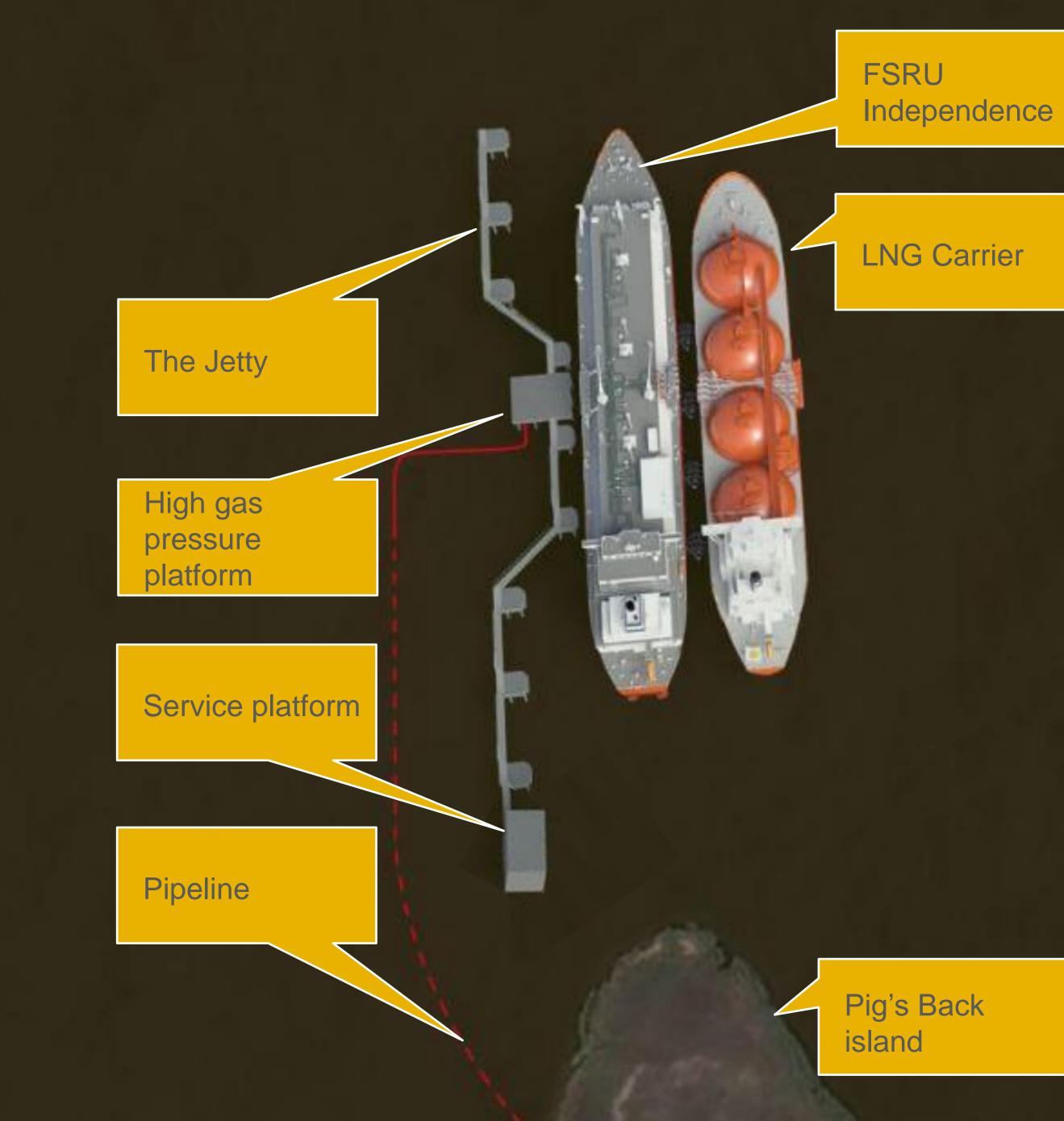
#### The Jetty







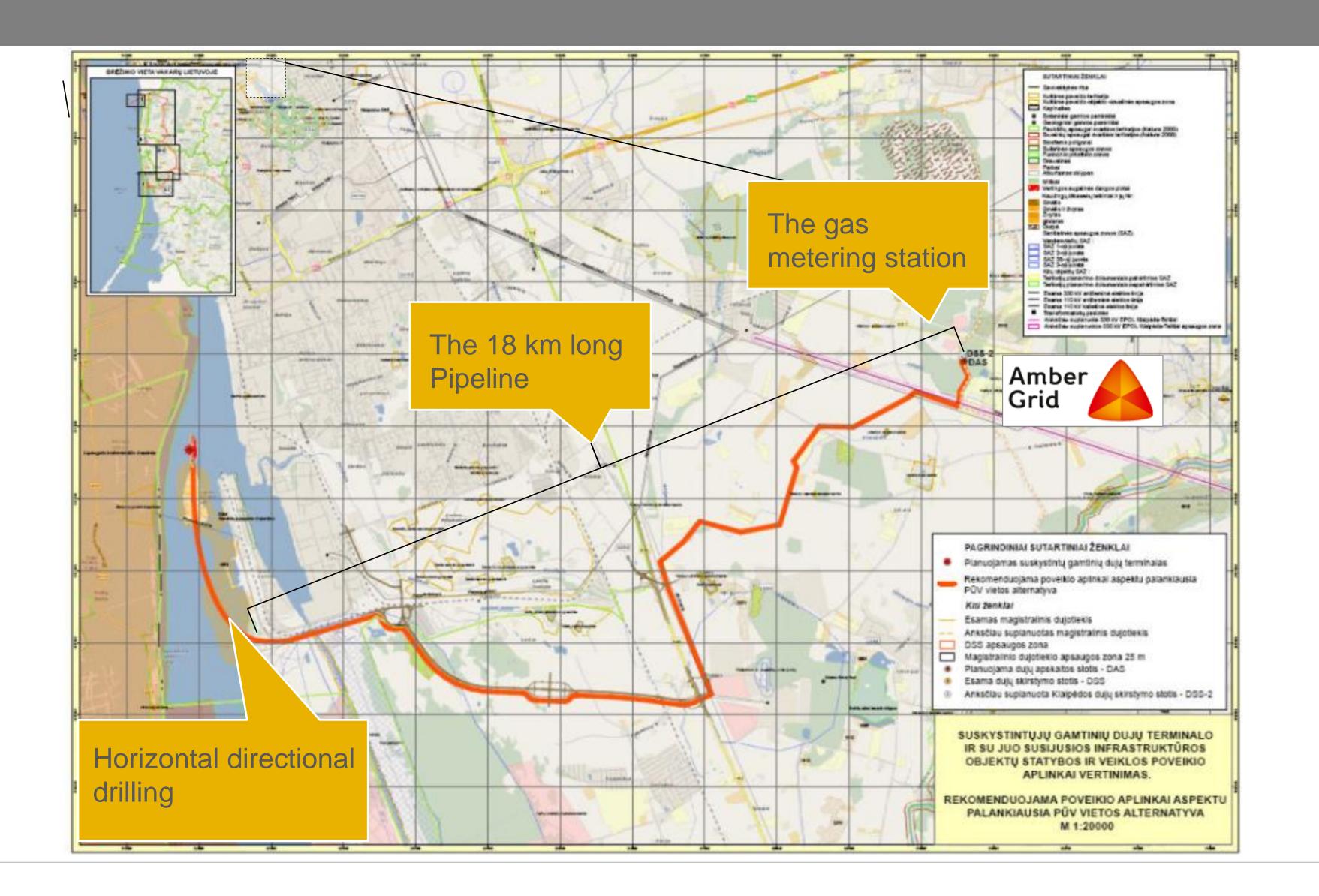








#### The Pipeline







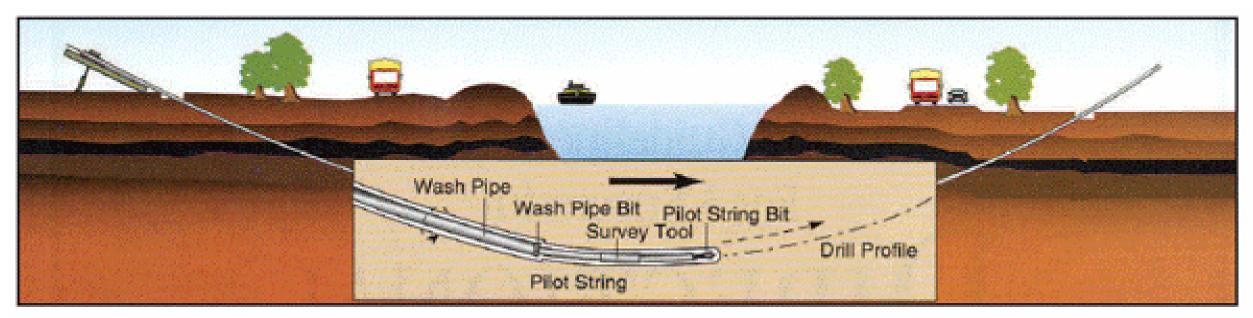


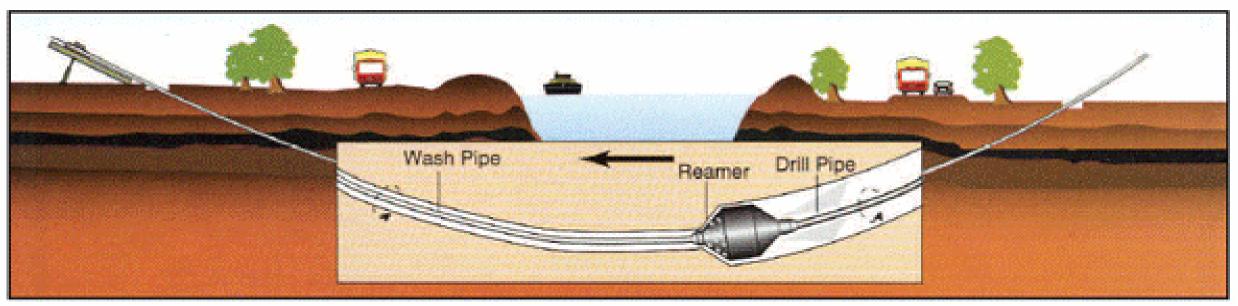


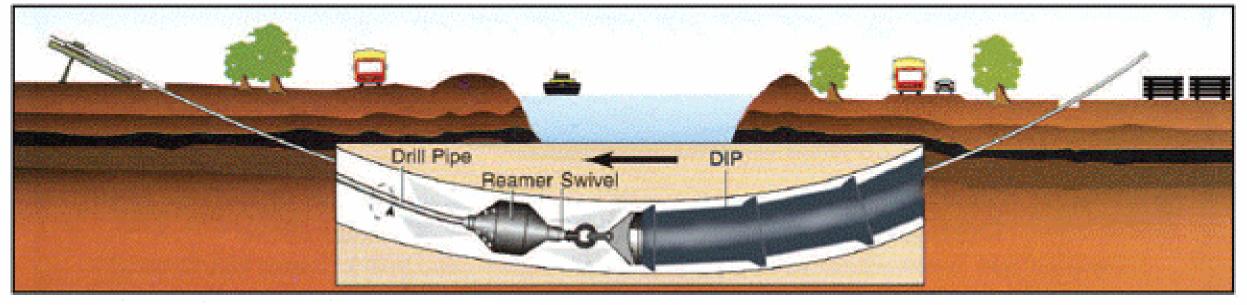




#### The Pipeline







PULL-BACK





PILOT HOLE

PRE-REAMING

**Quick-sand** Large stones Mines **Construction junk** 





### **3.** The Business Model

#### Full Ownership Unbundling



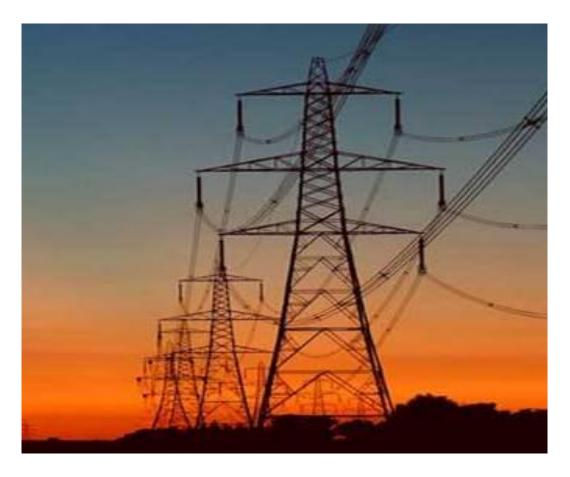
#### Key financials (2012, mln, EUR)

Revenue	40,2
EBITDA	20,2
EBITDA margin	50%
Assets	129



#### Gas Trading





#### Key financials (2012, mln, EUR)

Revenue	811
EBITDA	157
EBITDA margin	19,4%
Assets	2.984

### **3.** The Business Model



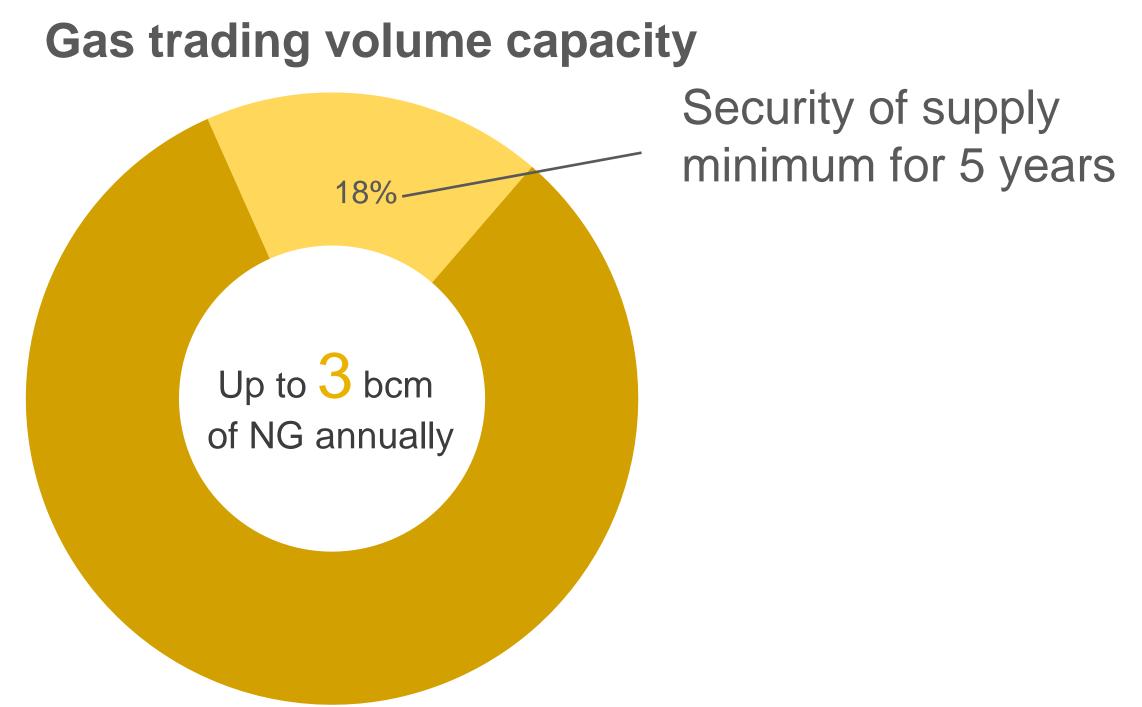
### LNG Terminal Infrastructure

Sells regasification capacity to companies



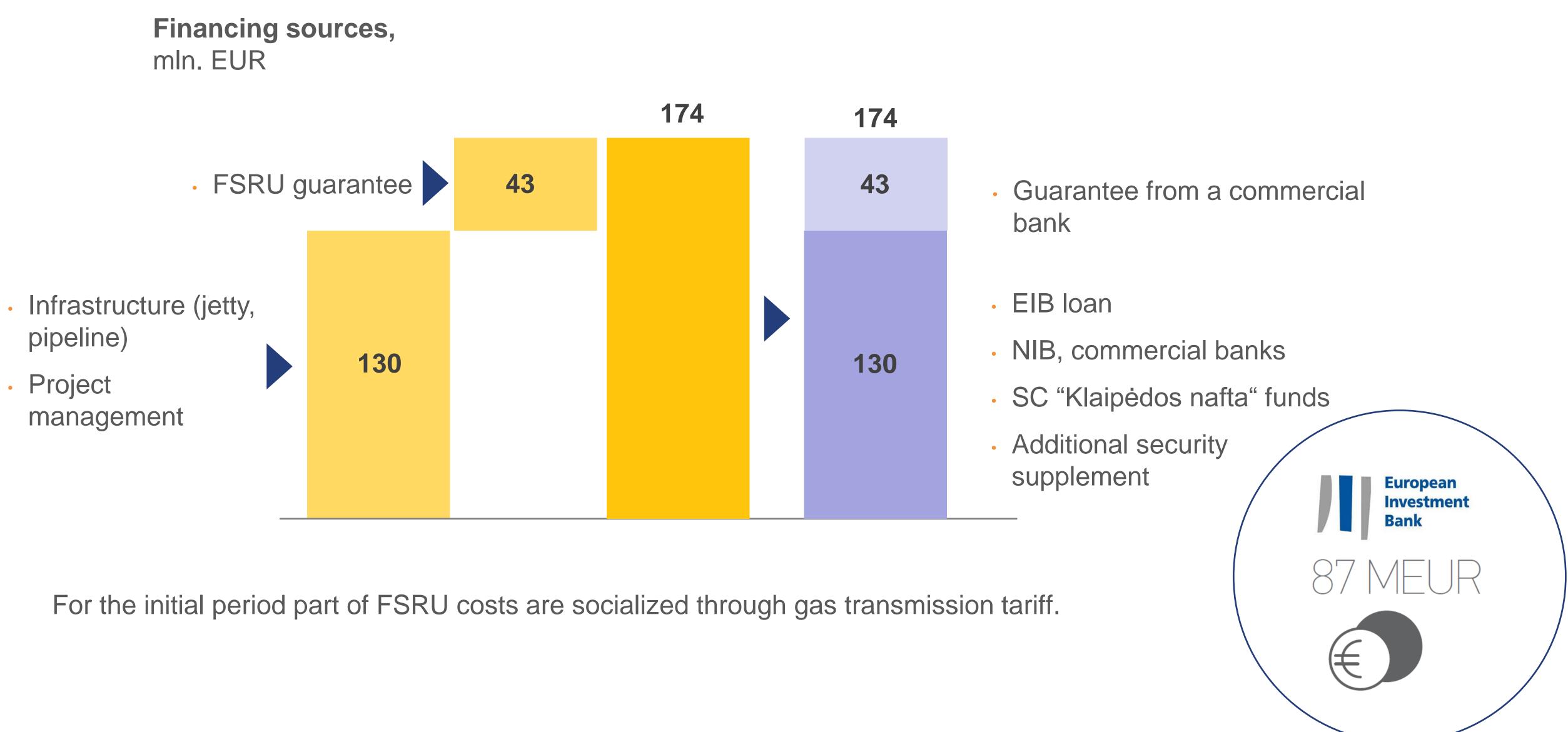
- Domestic Lithuanian and Baltic markets (+Finland, it is planned that the Baltic Connector pipeline will be completed by 2015)
- Small scale activities





Capacities of LNG Terminal will be open for suppliers to fill demand in:

# **4.** Financing of LNG Terminal Infrastructure





### 5. Small Scale LNG

#### **LNG Feeder Vessel**









### 5. Small Scale LNG





#### The LNG terminal will create opportunities to small scale LNG activities

Transshipment to small-scale vessels



LNG bunkering

Auto-tankers and railway tanker-cars



## 6. Closing Remarks

The first full scale terminal in the Baltics and Nordic countries operational from the end of the next year

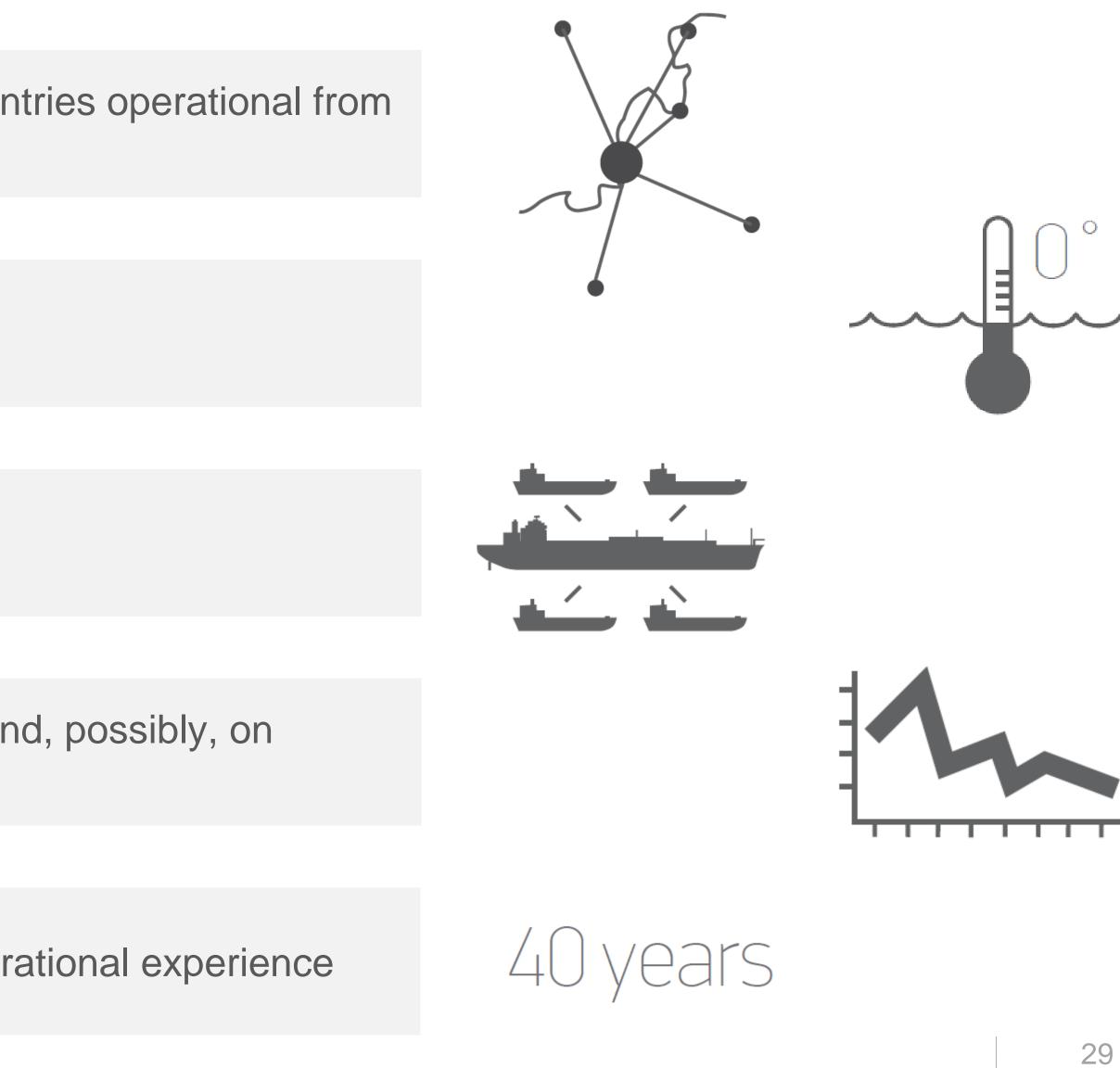
Operational all-year round at an ice-free port

Infrastructure for small-scale LNG activities

Third party access will ensure competition on national and, possibly, on regional level

More than 40 years of safe and efficient oil terminal operational experience





### Thank you for your attention.

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