

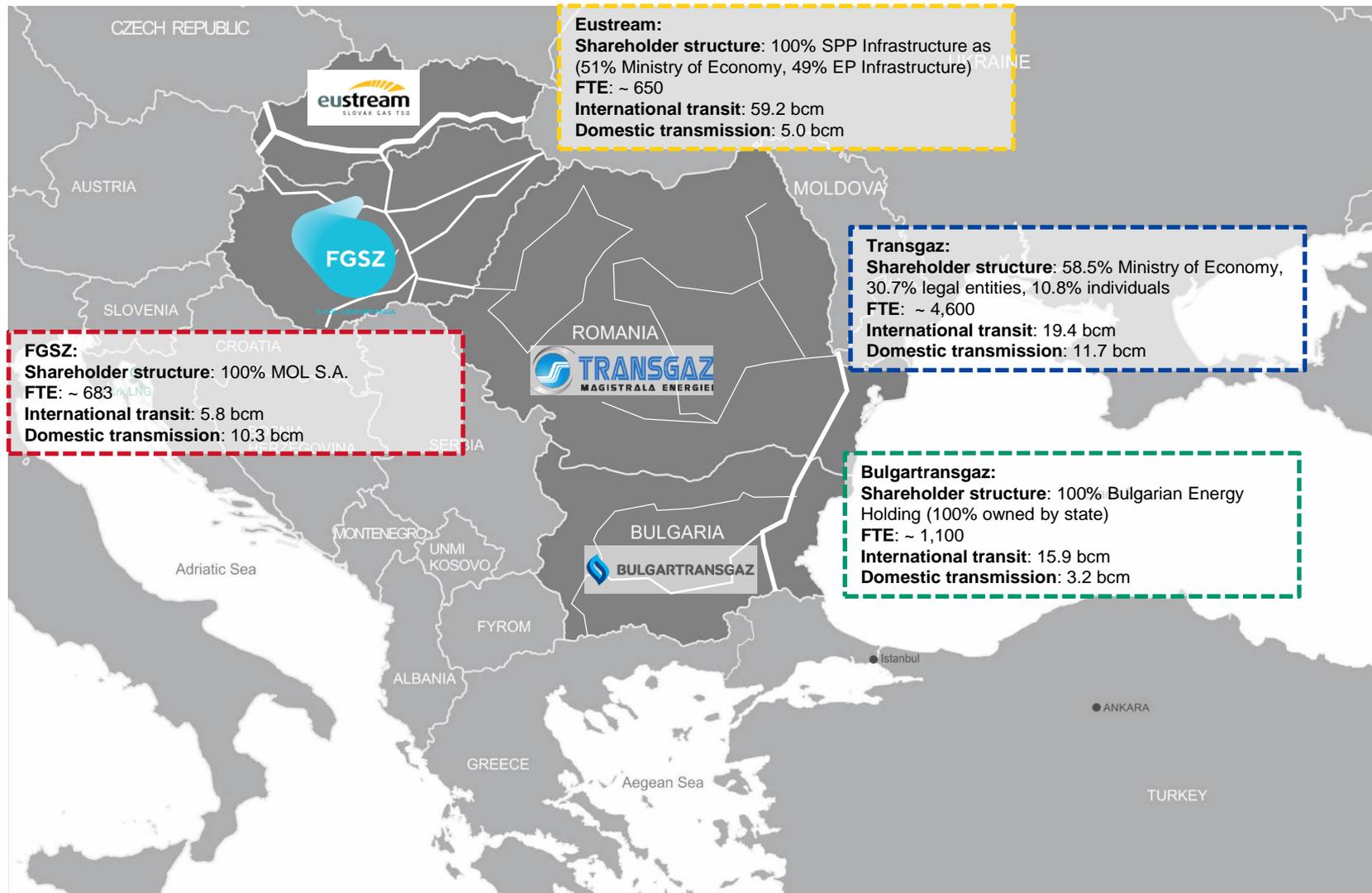
Tomáš Matula

# Feasibility Study: Results & Recommendations

## AGENDA

- Project promoters
- Why Eastring?
- Parameters of the Project
- Eastring Benefits

## EUSTREAM & FGSZ & TRANSGAZ & BULGARTRANGAZ



## SECURITY OF SUPPLY

- Significant reliance on one infrastructure
- Disruption caused by infrastructure failure can endanger supplies

## GAS SOURCES

- Significant reliance on a single supplier

## MARKET INTEGRATION

- Not connected to any liquid HUB

## NEW SOURCES

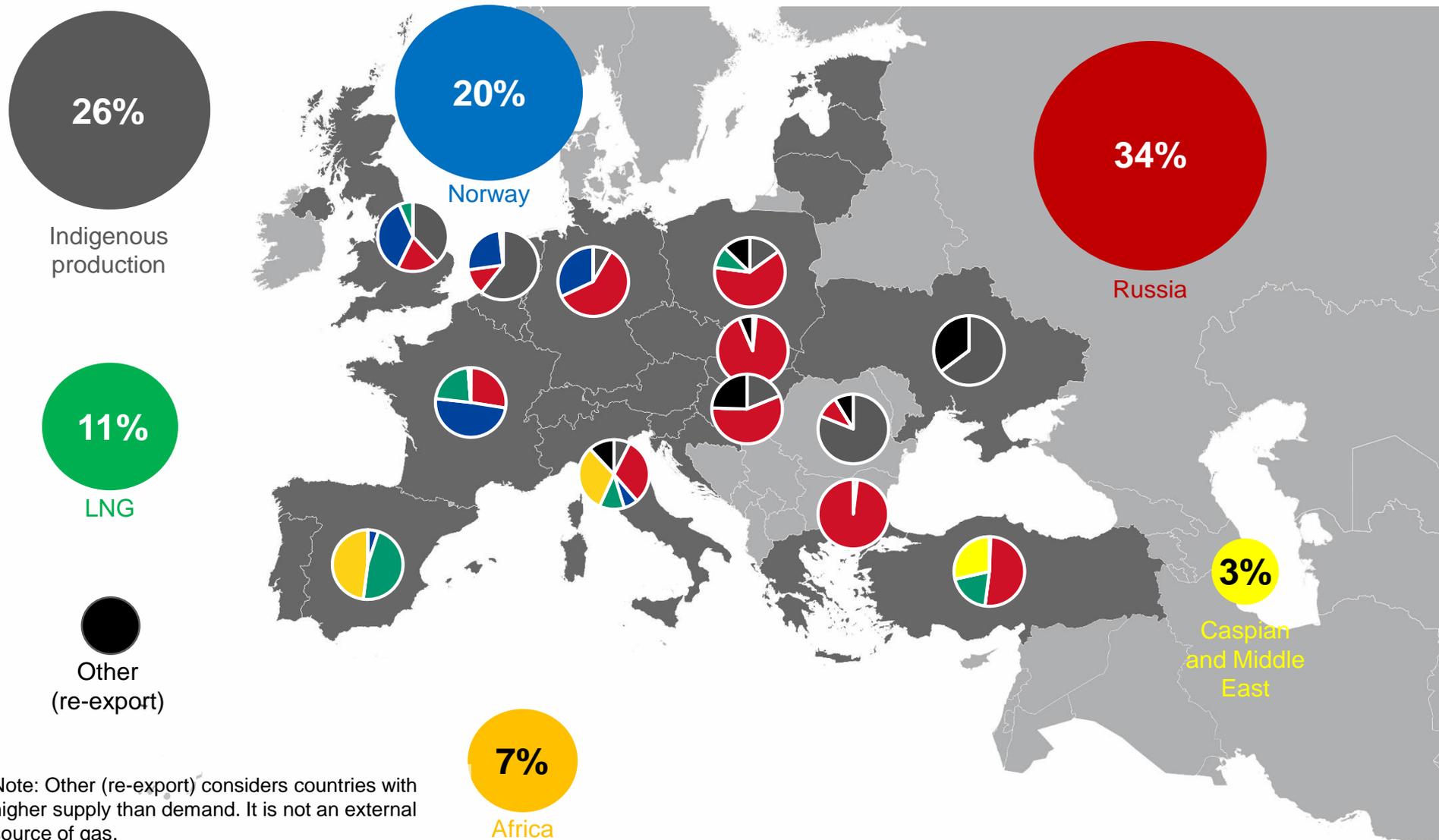
- Diversification of EU supply

## DIVERSIFICATION OF ROUTES



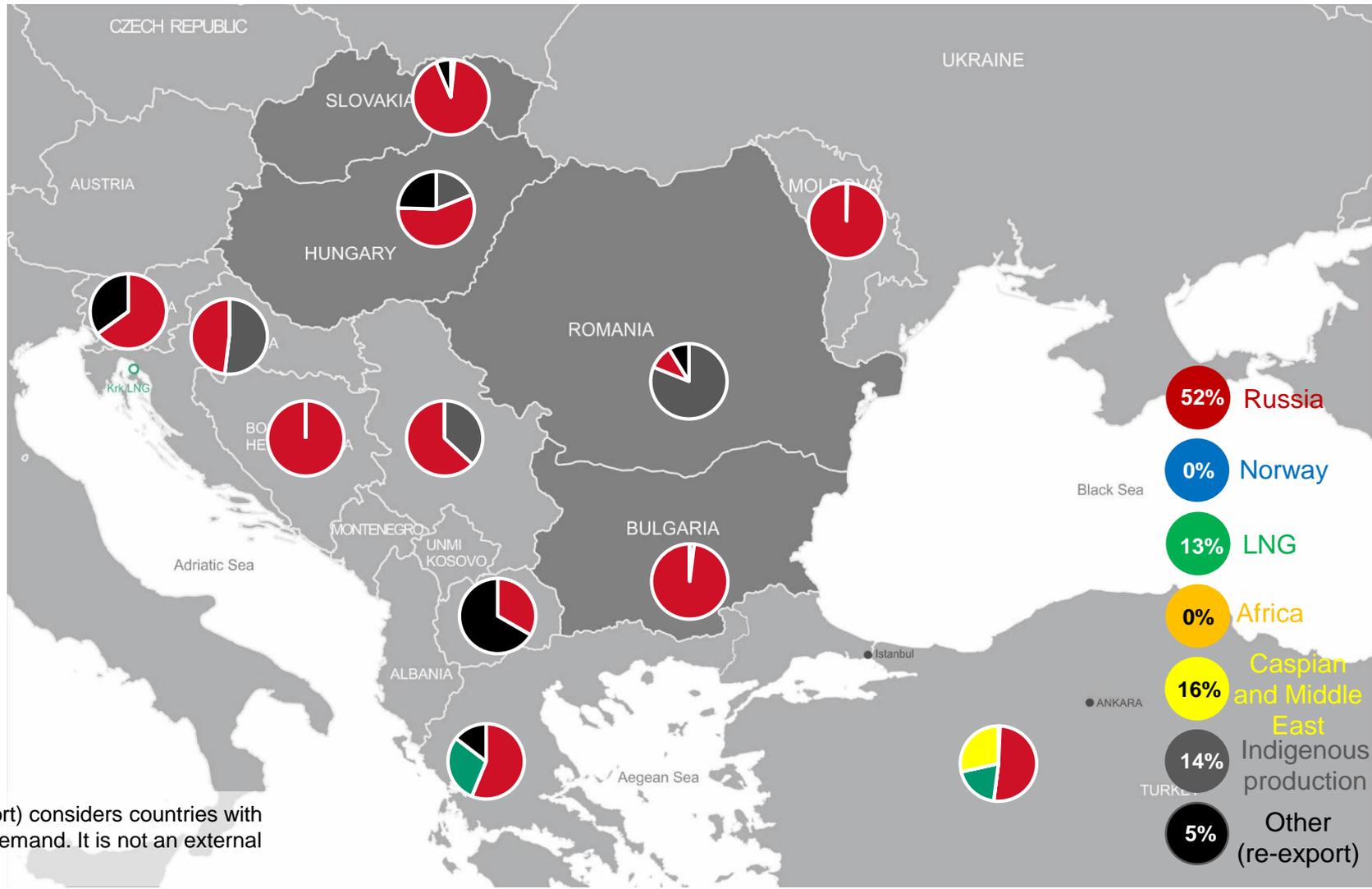
# Why Eastring? – Gas Sources

## DIVERSIFICATION OF SOURCES IN EUROPE



# Why Eastring? – Gas Sources

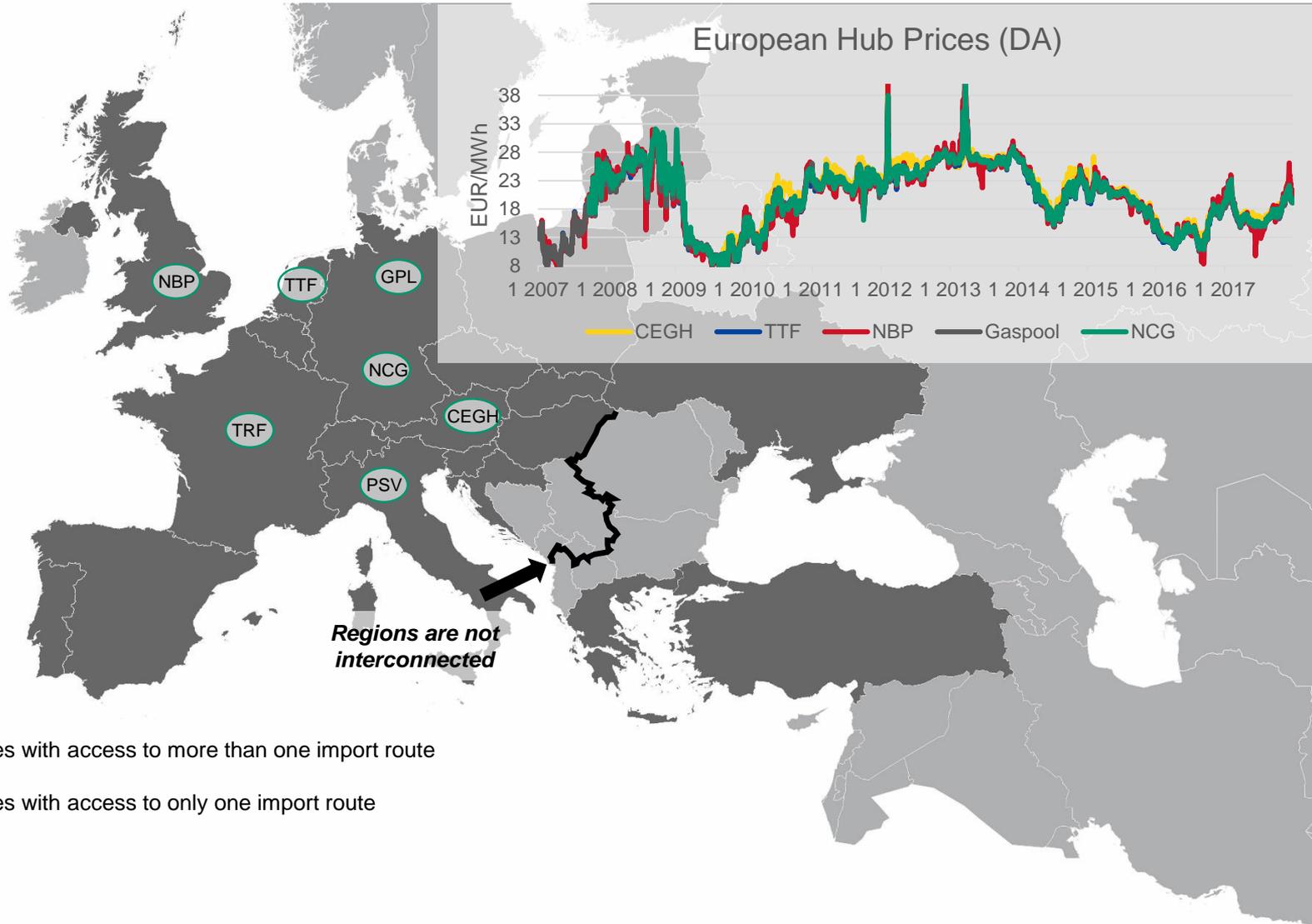
## SOURCING OF THE REGION



Note: Other (re-export) considers countries with higher supply than demand. It is not an external source of gas.

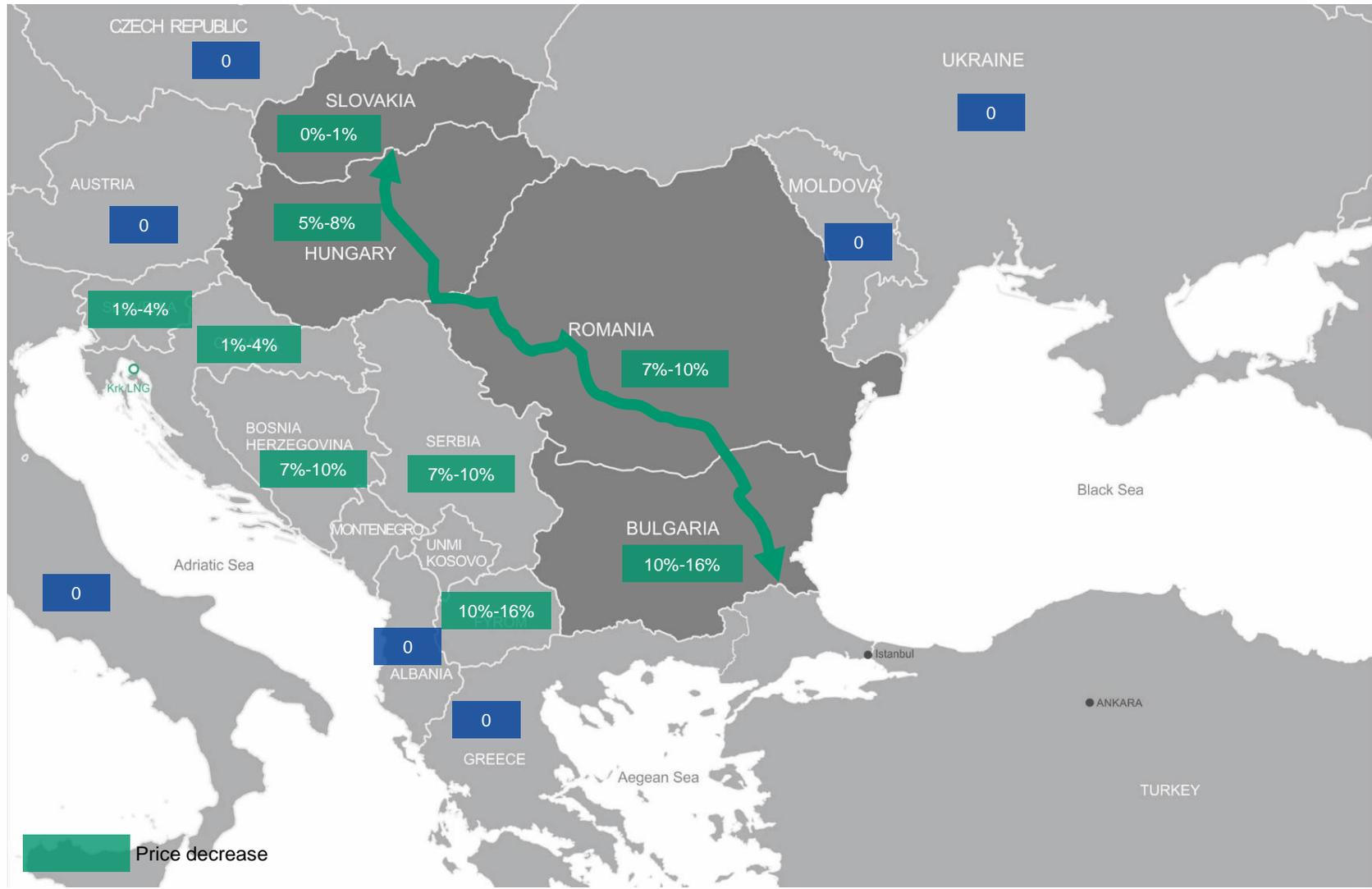
# Why Eastring? – Market Integration

## CONNECTION TO LIQUID GAS HUBS



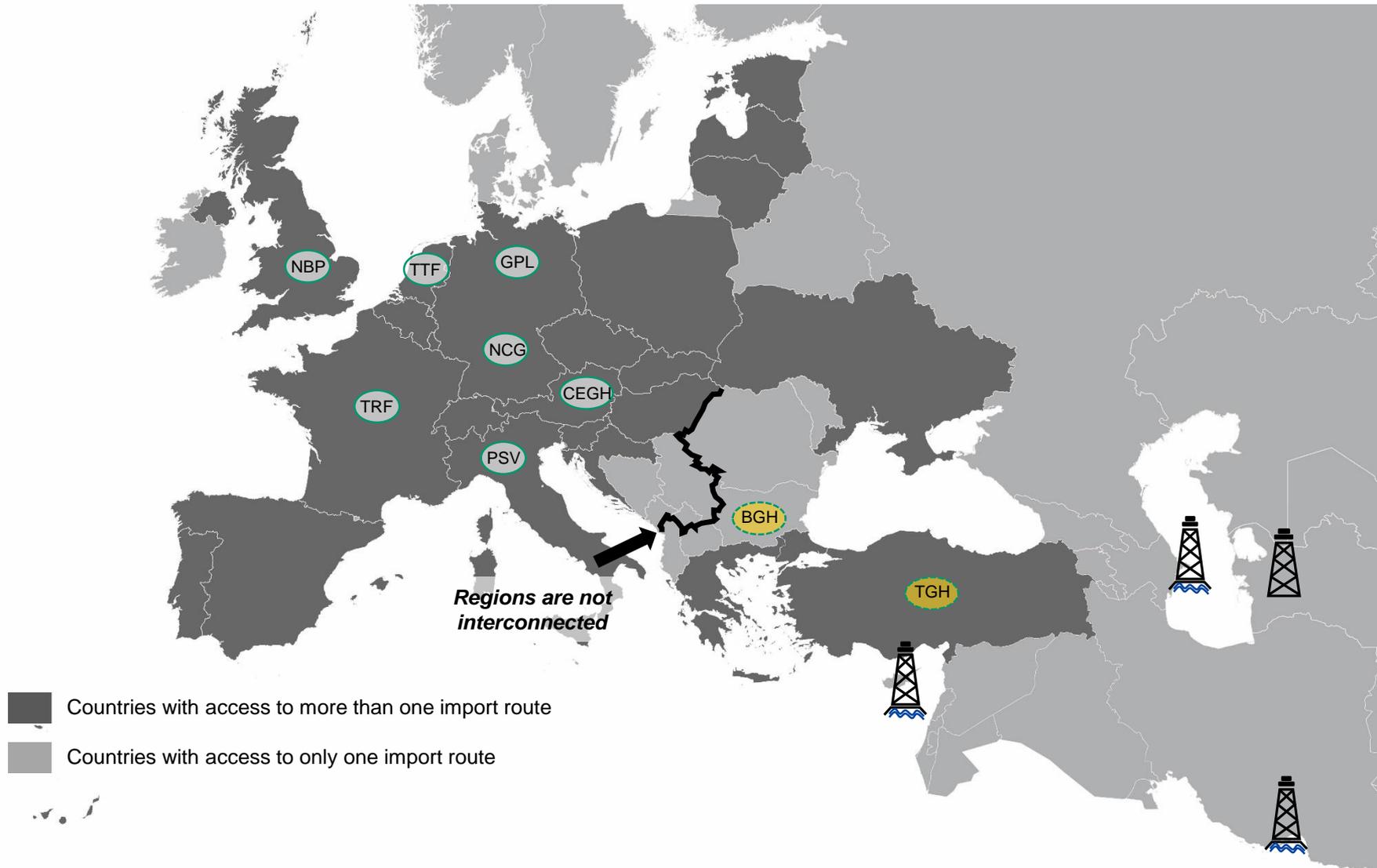
# Why Eastring? – Market Integration

## PRICE IMPACT



# Why Eastring? – New Sources

## CONNECTION TO NEW SOURCES



# Why Eastring? – New Sources

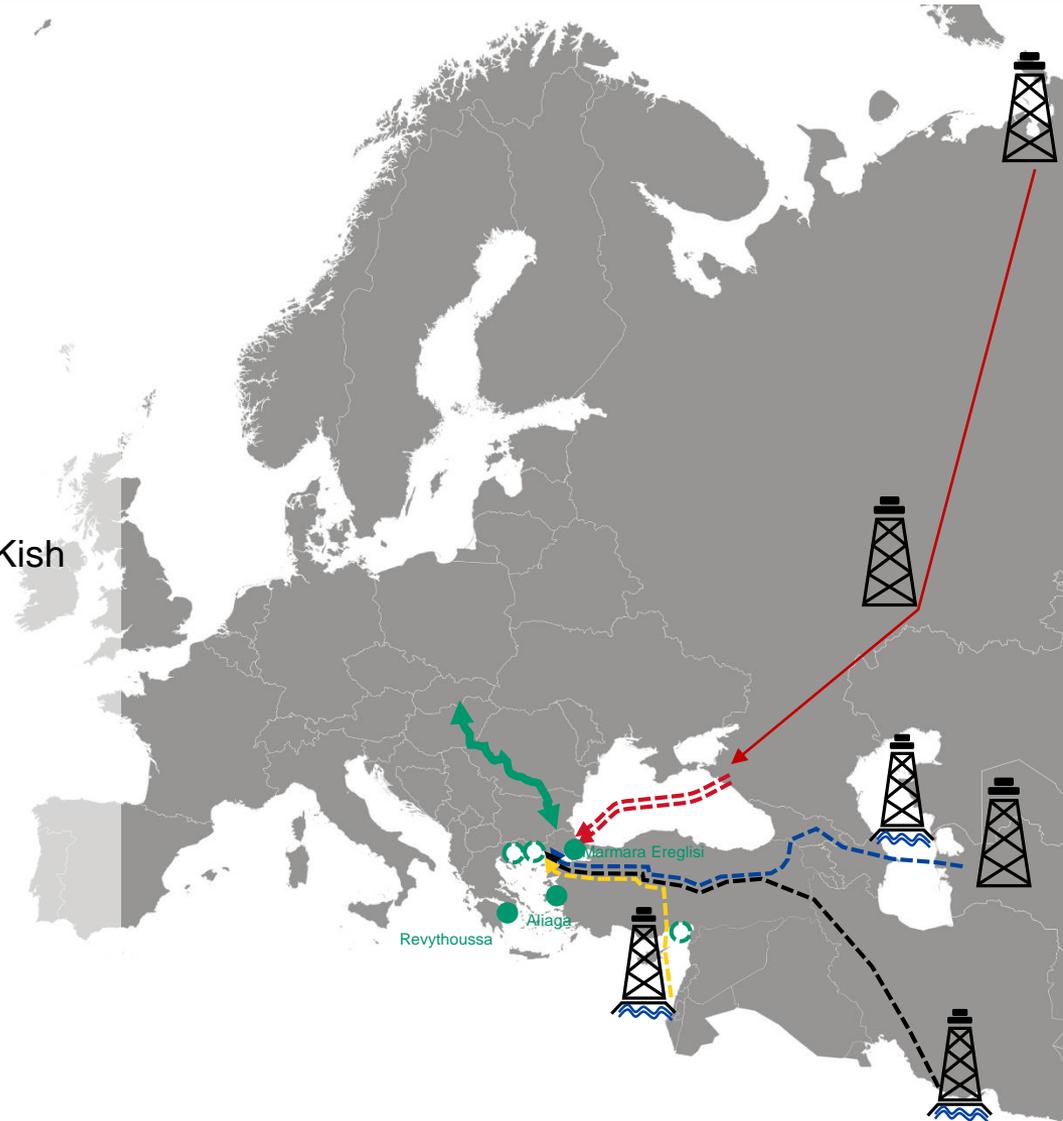
## TRUE MULTI-SOURCING

Potential sources for Eastring pipeline:

- **Turkmenistan**
  - Proven reserves – 19,500 bcm
  - Main fields – Galkynysh, Dauletabad
- **Azerbaijan**
  - Proven reserves – 1,300 bcm
  - Main fields - Shah Deniz, Absheron, Nakhchivan
- **Iran**
  - Proven reserves – 33,200 bcm
  - Main fields – South Pars, North Pars, Kish
- **Israel**
  - Proven reserves – 500 bcm
  - Main fields - Leviathan
- **LNG** (existing/new in Greece and Turkey)
- **Russia**
  - Proven reserves – 35,000 bcm
  - Main fields – Urengoy, Yamburg, Bovanenkovo, Orenburg

- Existing LNG terminal
- Proposed LNG terminal

Source: Proven Reserves by BP Statistical report 2018



CAPACITY AND ROUTING

MAIN OBJECTS

COST IDENTIFICATION

TIME SCHEDULE

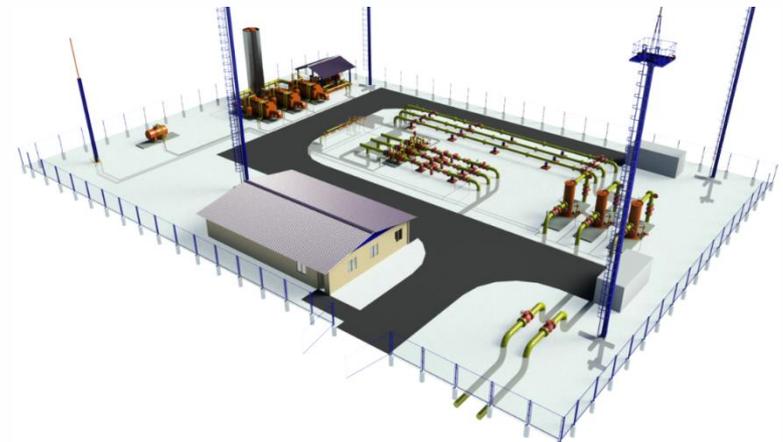
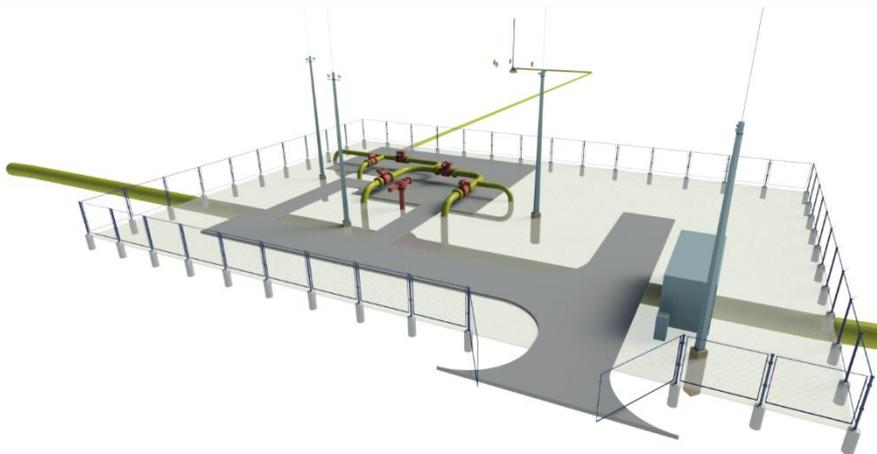
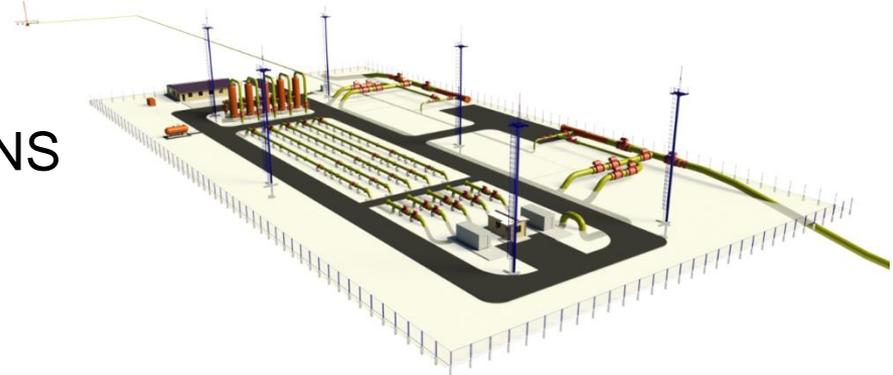
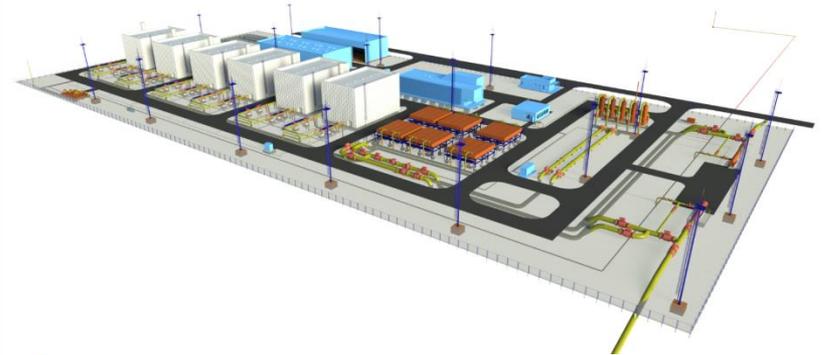
## CAPACITY AND ROUTING

- **Option 2A**
  - Veľké Zlievce (SK) – Malkoclar (TR)
- Pipeline diameter: **DN1400**
- Operating pressure: **100 bar**
- **Bi-directional capacity: 20 bcm/y**
- **Ability to expand capacity** by construction of new compressor stations **up to 40 bcm/y**
- **One Project Company**
  - Optimization of the costs
  - Efficient operation



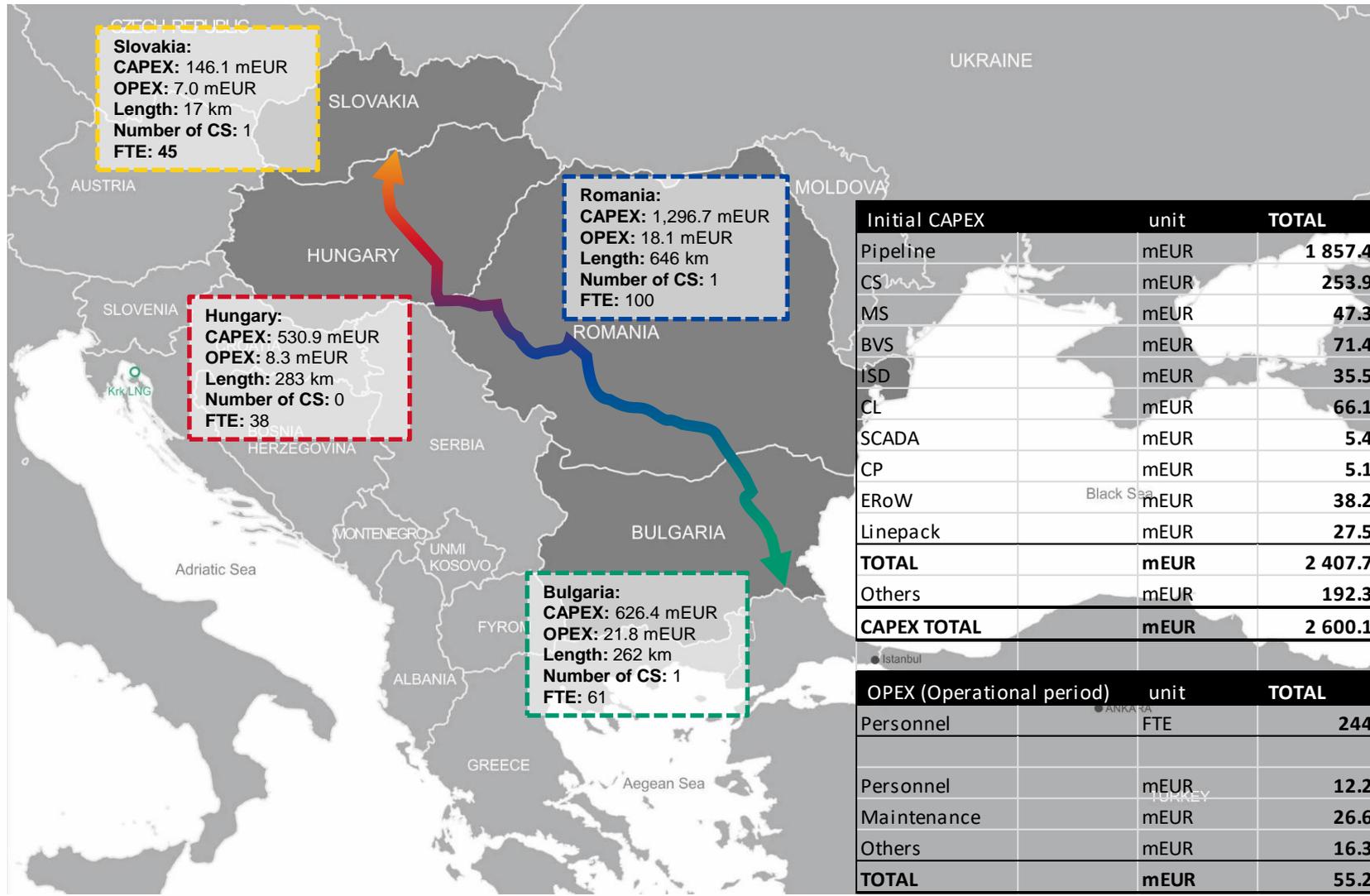
## MAIN OBJECTS

- COMPRESSOR STATIONS
- BORDER METERING STATIONS
- INTRASTATE DELIVERY STATIONS
- BLOCK VALVE STATIONS



# Parameters of the Project

## COST IDENTIFICATION



## TIME SCHEDULE

### Phase I. (20 bcm/y)

- Implementation period            2019 – 2025
- Operational period                2025 -

Project schedule Phase I.	Start	Finish
Engineering & Design	01/2019	02/2023
Procurement & Deliveries	07/2022	12/2023
Construction	02/2023	01/2025
Start-Up & Commissioning	01/2025	04/2025

### Phase II. (40 bcm/y)

- Implementation period            2025 – 2030
- Operational period                2030 -

Project schedule Phase II.	Start	Finish
Engineering & Design	01/2025	07/2028
Procurement & Deliveries	01/2028	06/2029
Construction	08/2028	02/2030
Start-Up & Commissioning	02/2030	04/2030

## CONNECTING MARKETS

- Eastring would be ready to bi-directionally transmit any gas available in the Connected Markets
- It would be the first infrastructure to link Romania, Bulgaria and Turkey to European system

## OPEN HIGHWAY

- Eastring is not dedicated to a single source or producer but rather connects zones with high liquidity potential;
- Specifically, Eastring has the capacity to bring any new gas from Caspian region and Middle East to practically all regions of Europe
- Simultaneously, Eastring has the capacity to bring any gas available in Western European Markets to Southern Europe

## VALUE FOR MONEY

- Eastring, unlike many small scale projects and interconnectors (1-3 bcm), with only local or regional significance, aims to secure a capacity of 10 to 40 bcm

## SECURITY OF SUPPLY

- Connecting region to continental Europe by Eastring's capacity successfully mitigate a potential interruption of gas source. This would dramatically improve the security of supply.

## PRICE CEILING

- Eastring can introduce the possibility to purchase gas at Western European Markets and import it to the region which can strongly improve region's ability to secure low gas prices for the future



EASTRING PIPELINE

CONNECTING MARKETS

eastring

