

# POLAND





Polish Geological Institute National Research Institute



National Fund for Environmental Protection and Water Management

MINISTRY

www.pgi.gov.pl



**Polish Geological Institute** 

National Research Institute

IN 2019

MARCIN JANAS<sup>1</sup> GRZEGORZ JAGIELSKI<sup>2</sup> MARTA FIJOREK<sup>2</sup> AGATA **KASIŃSKA**<sup>2</sup> EWELINA **KRZYŻAK**<sup>1</sup> JOANNA ROSZKOWSKA-REMIN<sup>1</sup> ŁUKASZ SMAJDOR<sup>1</sup> MARCIN WESOŁOWSKI<sup>2</sup> KRYSTIAN WÓJCIK<sup>1</sup>

1. Polish Geological Institute – National Research Institute 2. Ministry of the Environment









TENDER PROCEDURE

#### E&P COMPANY NEEDS TO UNDERGO THE QUALIFICATION PROCEDURE

▼

SELECTION OF THE TENDER AREAS

by the Ministry of the Environment and the PGI-NRI

#### PREPARATION OF THE TENDER AREA INFORMATION PACKAGES

by the PGI-NRI and the Ministry of the Environment

#### **REQUIREMENTS IN THE CASE OF AN ONSHORE TENDER AREAS**

- approval by the Ministry of Energy
- opinion of the Head of the local administration by the Ministry of the Environment

PUBLICATION OF A TENDER NOTICE IN THE OFFICIAL JOURNAL OF EU

by the Ministry of the Environment

#### ▼

TIME FOR PREPARATION AND SUBMISSION OF AN OFFER

EVALUATION AND SELECTION OF THE MOST FAVOURABLE OFFER

by the Ministry of the Environment

THE GRANTING OF A CONCESSION, ESTABLISHMENT OF THE MINING USUFRUCT

by the Ministry of the Environment

TIME TO EXPLORE!

### HOW TO GET THE LICENSE IN POLAND?

OPEN DOOR PROCEDURE

E&P COMPANY NEEDS TO UNDERGO THE QUALIFICATION PROCEDURE

SUBMISSION OF A CONCESSION AREA AND EXPLORATION WORKS OFFER

ANNOUNCEMENT OF THE CONCESSION AREA OFFER IN THE OFFICIAL JOURNAL OF EU

by the Ministry of the Environment

TIME FOR PREPARATION AND SUBMISSION OF A POSSIBLE COMPETITIVE OFFERS

EVALUATION AND SELECTION OF THE MOST FAVOURABLE OFFER

by the Ministry of the Environment

#### REQUIREMENTS IN THE CASE OF AN ONSHORE CONCESSION AREAS

- approval by the Ministry of Energy
- opinion of the Head of the local administration by the Ministry of the Environment

#### **REQUIREMENTS IN THE CASE OF AN OFFSHORE CONCESSION AREAS**

different approvals required

THE GRANTING OF A CONCESSION, ESTABLISHMENT OF THE MINING USUFRUCT by the Ministry of the Environment

#### TIME TO EXPLORE!

www.pgi.gov.pl

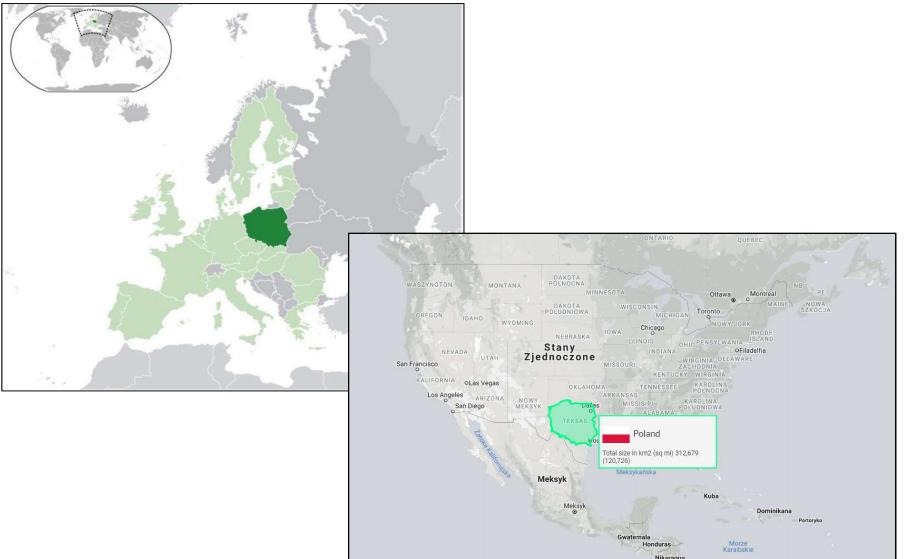
www.pgi.gov.pl



MINISTRY

**Polish Geological Institute** National Research Institute

### OIL AND GAS IN POLAND – RESOURCES, DEPOSITS, PRODUCTION AND DEMAND





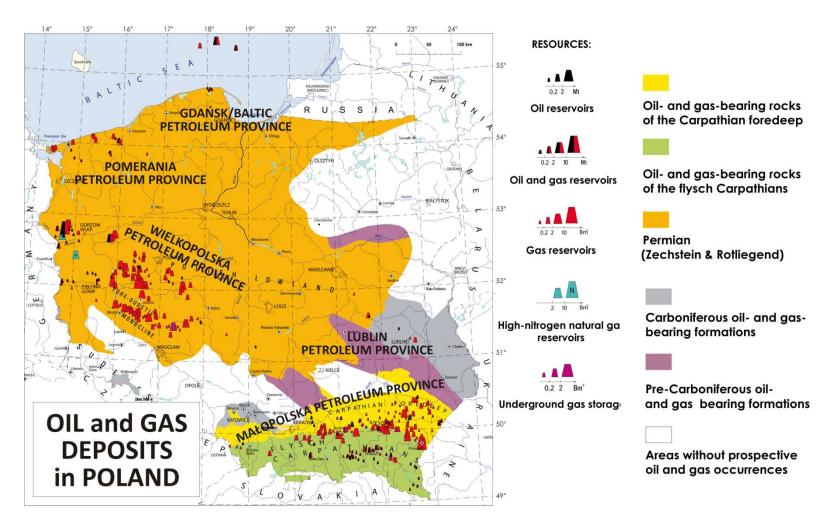


Polish Geological Institute

National Research Institute

MINISTRY

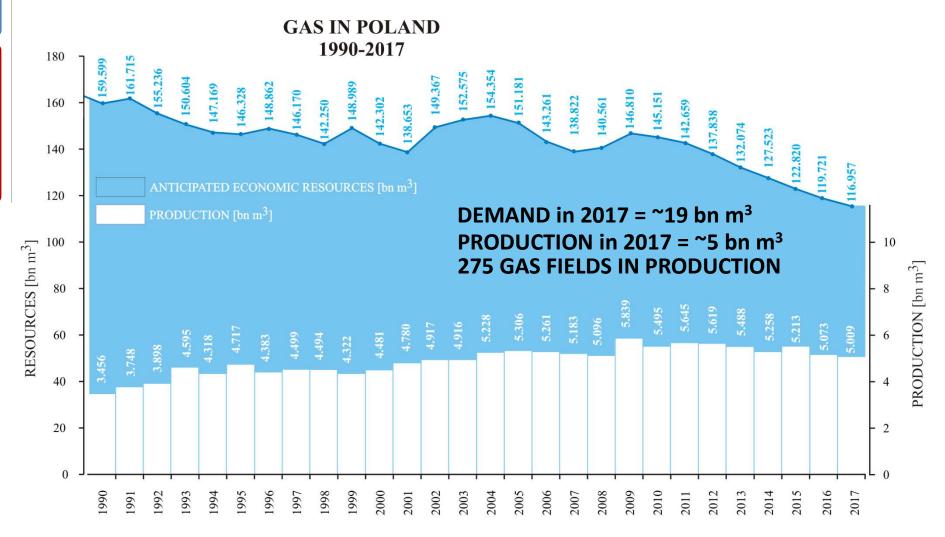
### OIL AND GAS IN POLAND – RESOURCES, DEPOSITS, PRODUCTION AND DEMAND



www.pgi.gov.pl



### OIL AND GAS IN POLAND – RESOURCES, DEPOSITS, PRODUCTION AND DEMAND

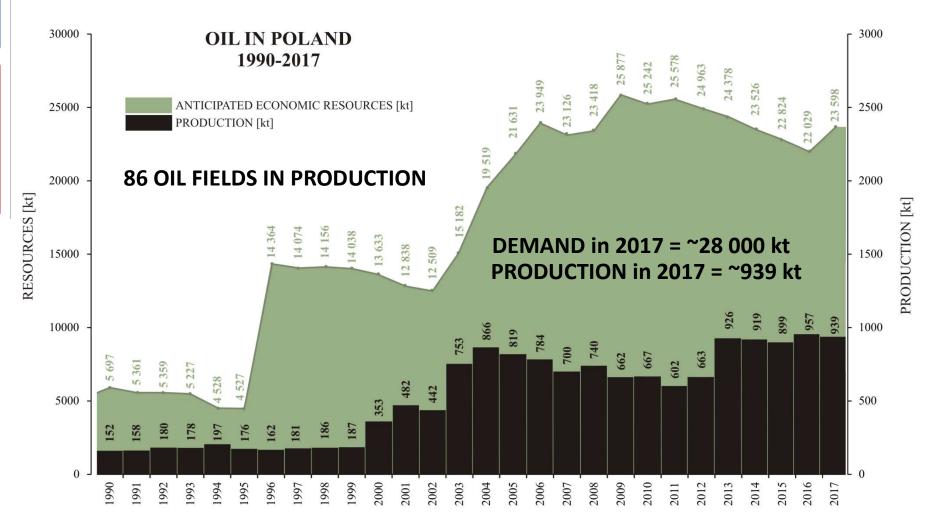


BOOTH 110

EUROSTAT, 2016; THE BALANCE OF MINERAL RESOURCES DEPOSITS IN POLAND 1990-2017; MINISTRY OF ENERGY; PGNIG S.A.; ORLEN; BP STATISTICAL REVIEW OF WORLD ENERGY 2016; STATISTICS POLAND 2017.



### OIL AND GAS IN POLAND – RESOURCES, DEPOSITS, PRODUCTION AND DEMAND



BOOTH 110

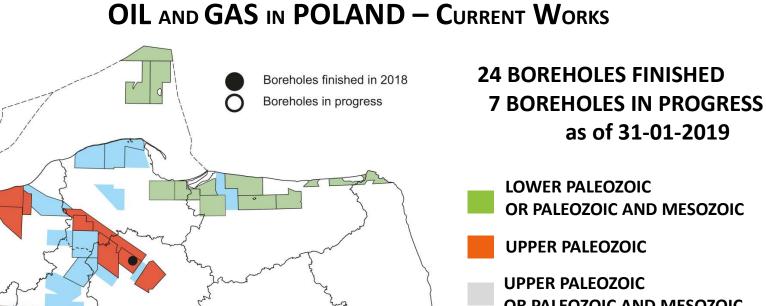
EUROSTAT, 2016; THE BALANCE OF MINERAL RESOURCES DEPOSITS IN POLAND 1990-2017; MINISTRY OF ENERGY; PGNIG S.A.; ORLEN; BP STATISTICAL REVIEW OF WORLD ENERGY 2016; STATISTICS POLAND 2017.

MINISTRY



Polish Geological Institute National Research Institute





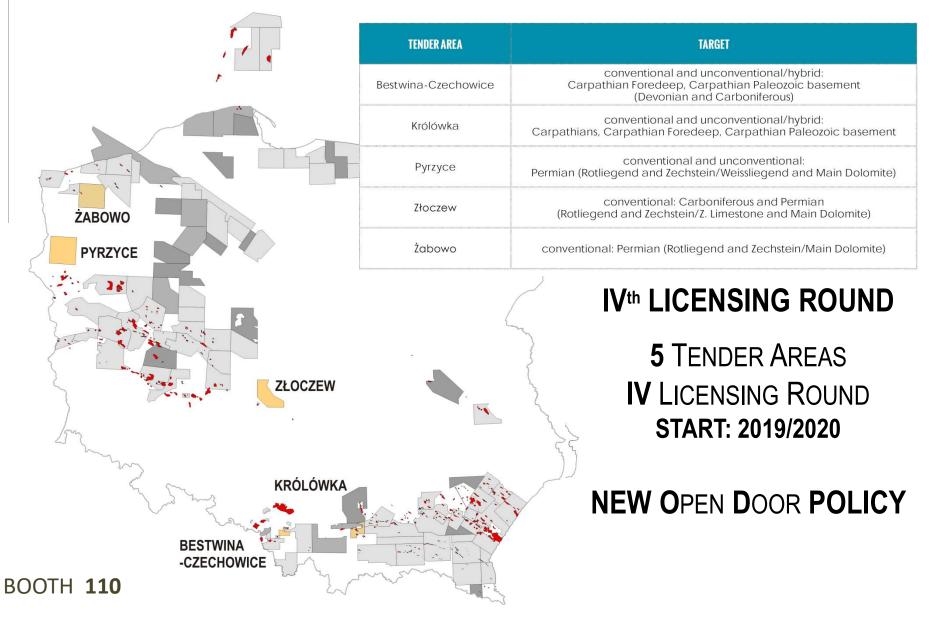
UPPER PALEOZOIC OR PALEOZOIC AND MESOZOIC MIOCENE (CARPATHIAN FOREDEEP) CARPATHIAN BASEMENT CARPATHIAN FLYSCH AP. FOR HYDROCARBON CONCESSIONS TENDER AREAS (II, III rounds) TENDER AREAS (IV round) MAP OF HYDROCARBON CONCESSIONS DIVIDED ACCORDING TO THE EXPLORATORY

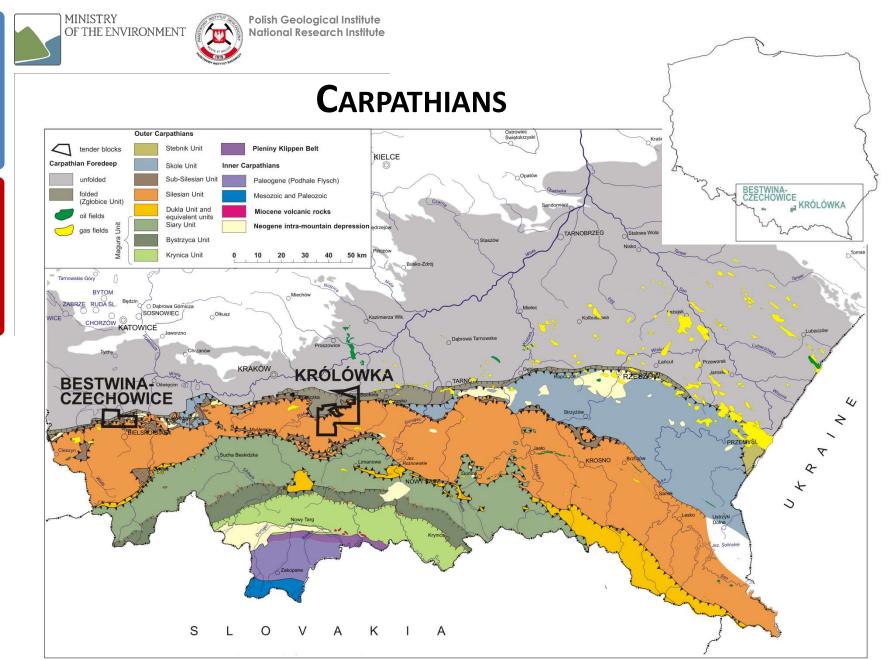
**TARGET AS OF 31-01-2019** 





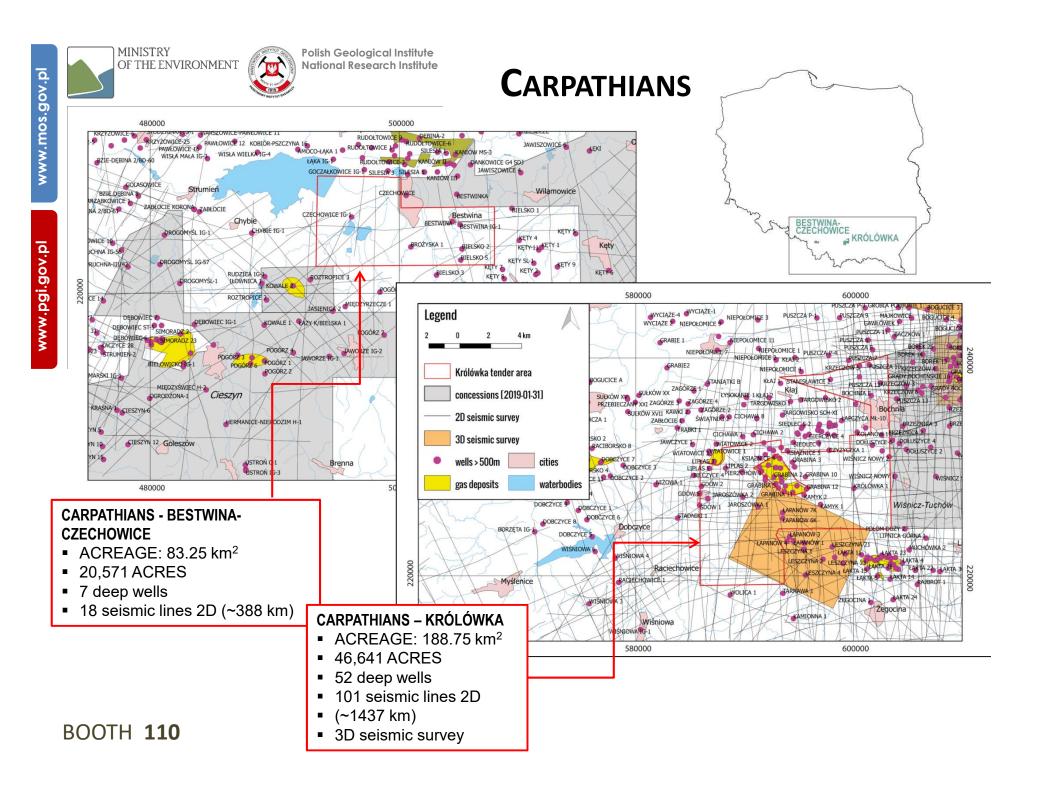
### WHERE TO PROSPECT AND EXPLORE FOR HYDROCARBONS IN POLAND?





BOOTH **110** 

POPRAWA, P. 2010. RECONSTRUCTION OF THE PETROLEUM PLAYS IN OUTER CARPATHIANS. PGI-NRI, WARSAW.

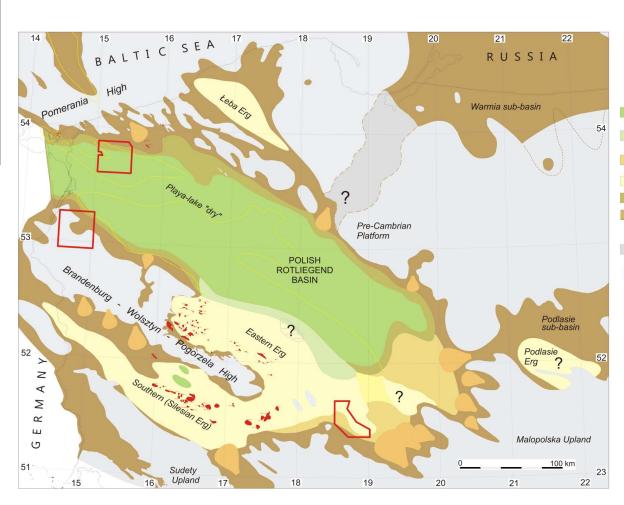




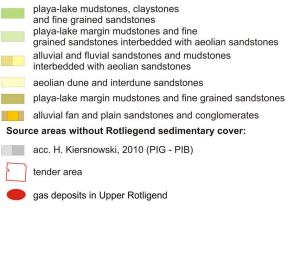
MINISTRY

Polish Geological Institute National Research Institute

**ROTLIEGEND SANDSTONES TARGET** 

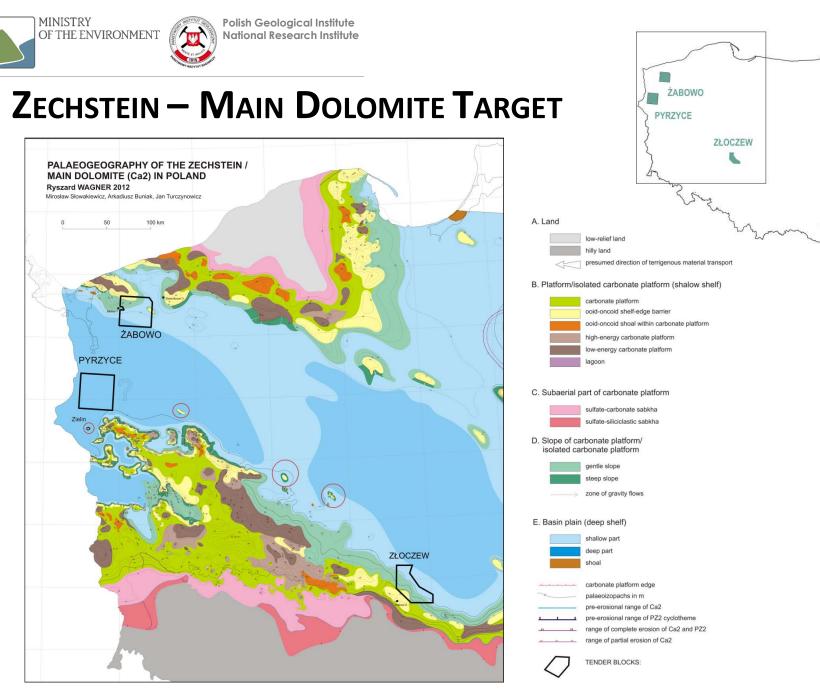


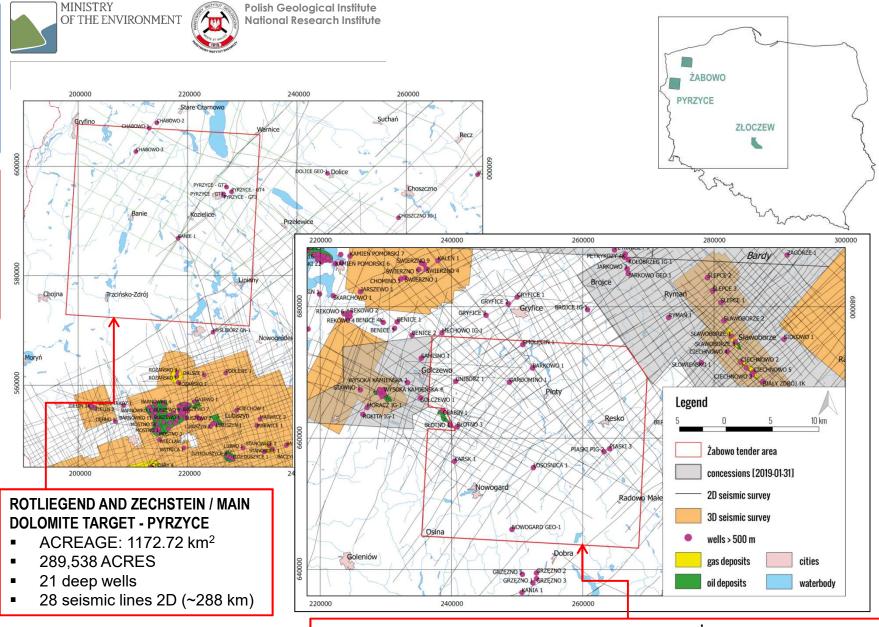




KIERSNOWSKI, H. 2010. PALAEOGEOGRAPHY OF THE ROTLIEGEND IN POLAND. PGI-NRI, WARSAW.

www.pgi.gov.pl





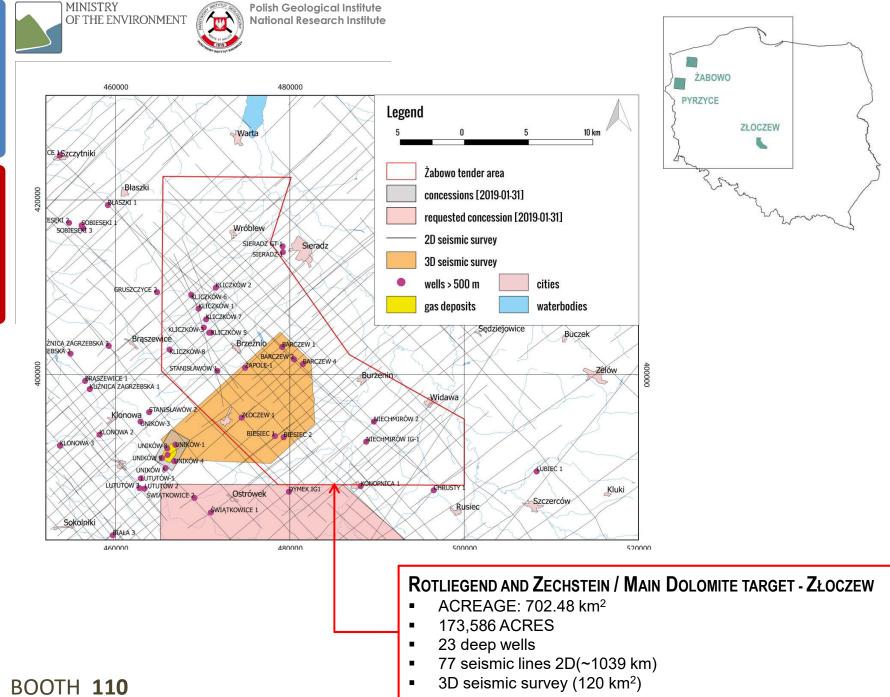
#### ROTLIEGEND AND ZECHSTEIN / MAIN DOLOMITE TARGET- ŻABOWO

- ACREAGE: 990.32 km<sup>2</sup>
- 14 deep wells
- 99 seismic lines 2D (~1370 km)

BOOTH **110** 

www.mos.gov.pl

www.pgi.gov.pl



www.mos.gov.pl

www.pgi.gov.pl

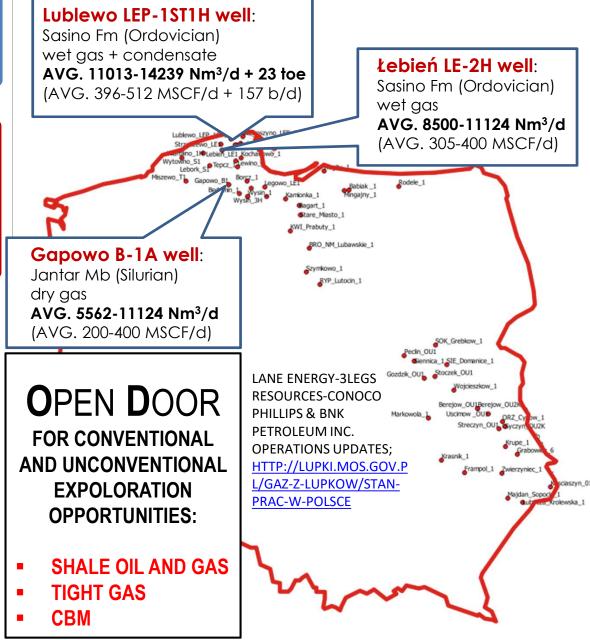
www.pgi.gov.pl





Polish Geological Institute National Research Institute

### OIL AND GAS IN POLAND - OPPORTUNITIES



- E&P companies involved in shale oil and gas exploration in 2010-2015: ExxonMobil, Chevron, Conoco Phillips, Marathon Oil, Talisman Energy, ENI, BNK Petroleum, Lane Energy, 3Legs Resources, Total, Cuadrilla, San Leon Energy, PGNiG, Orlen Upstream, Lotos Petrobaltic and others
- **<u>66</u>** wells drilled within the lower Paleozoic basin at the East European Craton(2010-2015)
- **<u>14</u>** horizontal and directional well sections were hydraulically fractured in the whole lower Paleozoic Basin
- Best average initial natural gas flow tests around **11000+ Nm<sup>3</sup>/d (400 MSCF/d)** reported by the E&P companies in the Baltic Basin



MINISTRY

Polish Geological Institute National Research Institute

www.pgi.gov.pl

## OIL AND GAS IN POLAND

### LICENSING ROUNDS, TENDER BLOCKS, **INFORMATION AND OPPORTUNITIES** IN 2019

https://bip.mos.gov.pl/koncesje-geologiczne/

https://www.pgi.gov.pl/obszaryprzetargowe.html

Воотн 110

