



## **Hellenic Petroleum Upstream Activities**

The resurgence of the Greek E&P

A presentation prepared for 9<sup>th</sup> SE Europe Energy Dialogue 29- 30 June 2016

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#### **Disclaimer**

#### Forward looking statements

Hellenic Petroleum do not in general publish forecasts regarding their future financial results. The financial forecasts contained in this document are based on a series of assumptions, which are subject to the occurrence of events that can neither be reasonably foreseen by Hellenic Petroleum, nor are within Hellenic Petroleum's control. The said forecasts represent management's estimates, and should be treated as mere estimates. There is no certainty that the actual financial results of Hellenic Petroleum will be in line with the forecasted ones.

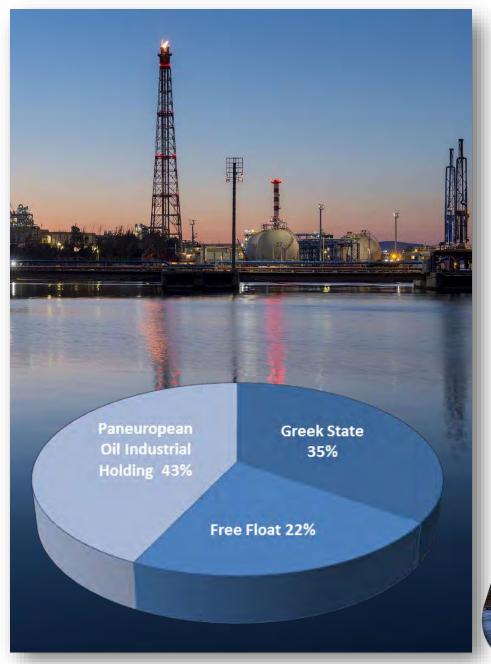
In particular, the actual results may differ (even materially) from the forecasted ones due to, among other reasons, changes in the financial conditions within Greece, fluctuations in the prices of crude oil and oil products in general, as well as fluctuations in foreign currencies rates, international petrochemicals prices, changes in supply and demand and changes of weather conditions. Consequently, it should be stressed that Hellenic Petroleum do not, and could not reasonably be expected to, provide any representation or guarantee, with respect to the creditworthiness of the forecasts.

This presentation also contains certain financial information and key performance indicators which are primarily focused at providing a "business" perspective and as a consequence may not be presented in accordance with International Financial Reporting Standards (IFRS).





- Group activities and key financial data
- E&P strategy and activities
- II. Greek Upstream sector
  - Oil prospectivity
  - Fiscal regime
  - Recent and ongoing rounds





The leading Greek integrated energy group, listed in Athens Stock Exchange with over performance vs benchmarks and implemented long term strategy fully supported by the controlling shareholders



# A leading energy group with activities across the energy value chain in Greece and the SEE region



<b>Exploration</b>	8
Production	



Refining, Supply & Trading

**Petrochemicals** 



**Domestic** Marketing

International **Marketing** 

**Power & Gas** 













		•	Patraikos Gulf (HELPE-Operator,
•	Exploration assets in Greece		50% & Edison, 50%)
		•	Sea of Thrace (HELPE 25%,

Complex (recently upgraded) refining system:

DESCRIPTION

- Aspropyrgos (FCC, 148kbpd)
- Elefsina (HDC, 100kbpd)
- Thessaloniki (HS, 93kbpd)
- Pipeline fed refinery/terminal in FYROM
- Basel technology PP production (integrated with refining) and trading
- > 60% exports in the Med basin
- Leading position in all market channels (Retail, Commercial, Aviation, Bunkering) through EKO and HF (BP branded network)
- Strong position in Cyprus, Montenegro, Serbia, **Bulgaria**, FYROM
- Advantage on supply chain/vertical integration
- ELPEDISON: Second largest IPP in Greece (JV with Edison/EdF)
- DEPA/DESFA GROUP: 35% in Greece's incumbent NatGas supply company (DESFA in sale process)

Capacity: 16MT

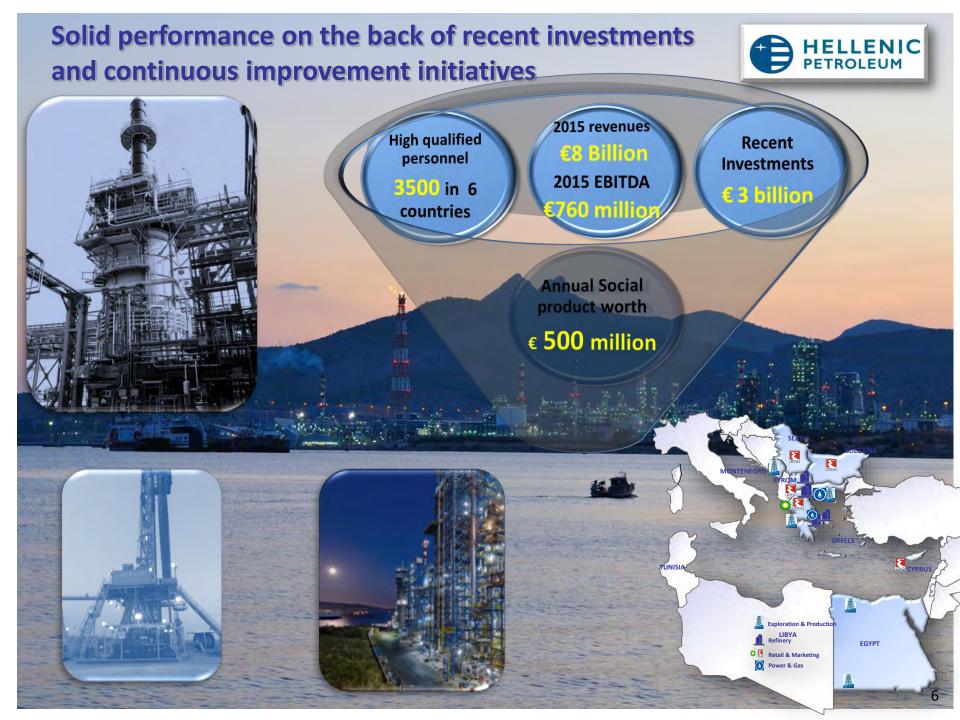
**METRICS** 

**Calfrac Well Services 75%)** 

- NCI: 9.6
- Market share: 65% Tankage: 7m M<sup>3</sup>
- Capacity (PP): 220 kt
  - c.1,700 petrol stations
- 30% market share
- Sales volumes: 3.5MT
- c.290 petrol stations
  - Capacity: 810 MW (CCGT)

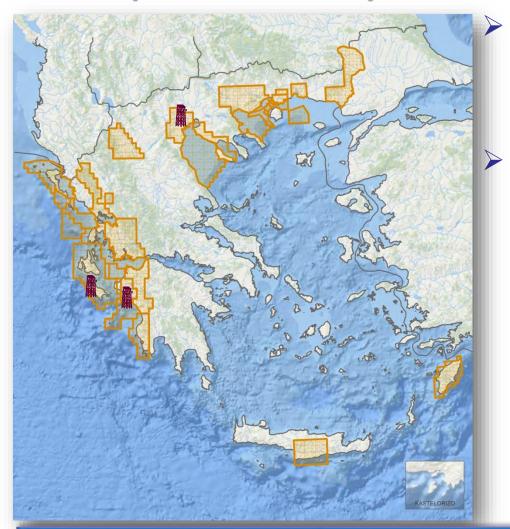
Sales volumes: 1.2MT

Volumes (2015): 3.0bcm



## **HELPE explored the country from 1975 - 2007**





- The Greek State awarded to HELPE exclusive rights for E&P activities in **26 oil promising blocks** all over Greece (1975 1995)
- HELPE, acting as **operator**, based on its high quality and educated personnel and using advanced technical support by experienced third parties, explored the country
  - with extensive geochemical, geological & geophysical studies
  - acquiring 63.000 km onshore & offshore seismic data and
  - drilling 75 wells

**Field Discoveries** 

Katakolon (1981, oil, W. Greece)
Epanomi (1989, natural gas, N. Greece)
Alykes (1990, heavy oil, Zakinthos)

### 1998: 1st Licensing Round — Hellenic participated in the winning JVs





**loannina:** Enterprise 80% (operator),

**HELPE 20%** An oil promising prospect mapped based on dynamite, Vibro and heli portable seismic data. The well Demetra due to high pressure did not reach the target (3,966 m).

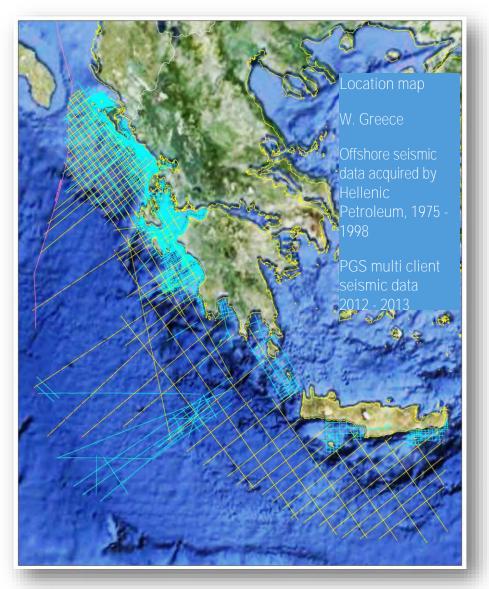
NW. Peloponnese: Enterprise 80% (operator), HELPE 20%. Based on old and newly acquired seismic 2 dry wells drilled.

W. Patraikos: Triton 88% (operator), HELPE 12% Numerous Interesting prospects and leads are mapped based on a dense grid of seismic data, but were not drilled.

Aitoloakarnania: Triton 88% (operator), Hellenic Petroleum 12%. Two dry shallow wells drilled based on G&G before relinquishing this mountainous area.

2002: All four areas were relinquished mainly for commercial reasons without completing the exploration effort

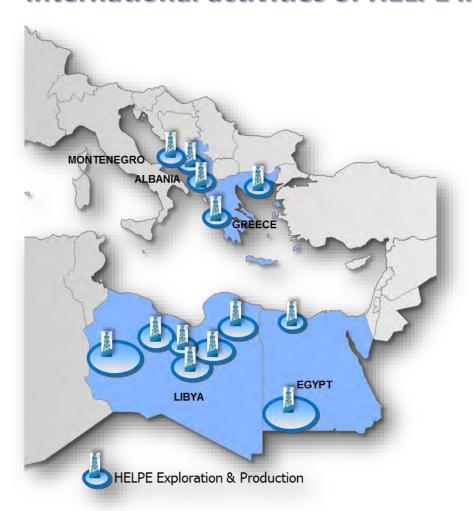
# **HELPE** has a solid technical & commercial experience in Greece



- HELPE, the leading integrated oil company in the country has proven
- Strong and solid financial position, not affected by the Greek crisis, investing the last years €3billion and recording in 2015 historical profit at €760 million EBITDA
- **Extensive knowledge of the legacy exploration data** all over the country acting as operator in 26 blocks plus all recent PGS seismic data
- High qualified experienced personnel knowing in depth the Greek geological environment

## International activities of HELPE in E&P





Last years ELPE invested in international exploration activities, more than \$ 220 millions, drilling **34 wells and discovering c. 200 million barrels** as operator or participating in JVs

- Albania: 3 blocks (49% JV with OMV)
- Libya: 6 blocks (20% in JV with Woodside και Repsol)
- Egypt: 2 blocks (W. Obayed 30% in JV with Vegas and Mesaha 30% in JV with Petroceltic, Kuwait Energy and Beach)
- Montenegro: 3 blocks (following the acquisition of the local company JPK)

Participation in 17 international rounds mainly in MMEA area in Joint Ventures with reputable oil companies as GdFSuez, Edison, Repsol, Woodside, Statoil, OMV, Lukoil, JAPEX, Kuwait Energy etc.



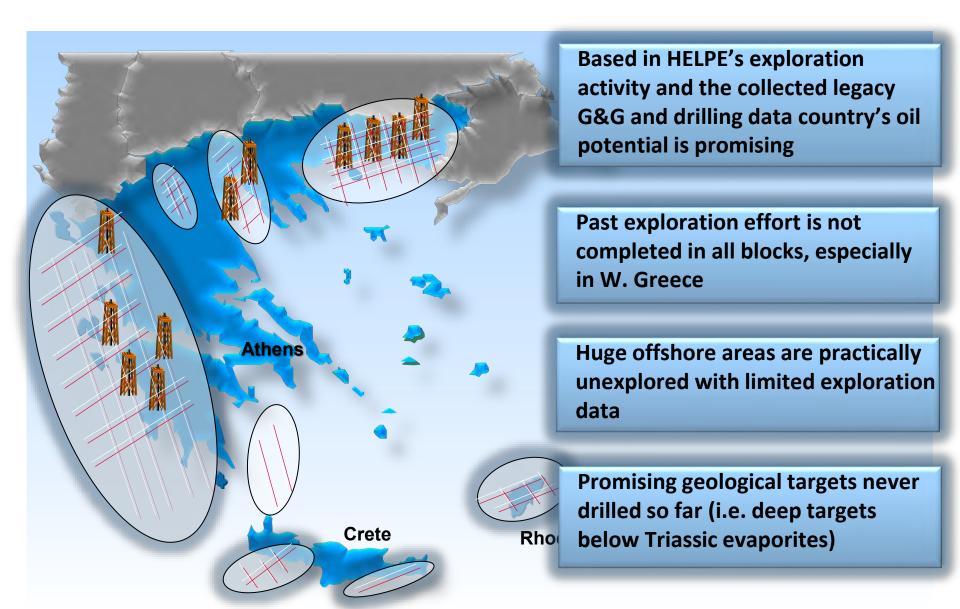




therefore we are building a promising portfolio of blocks

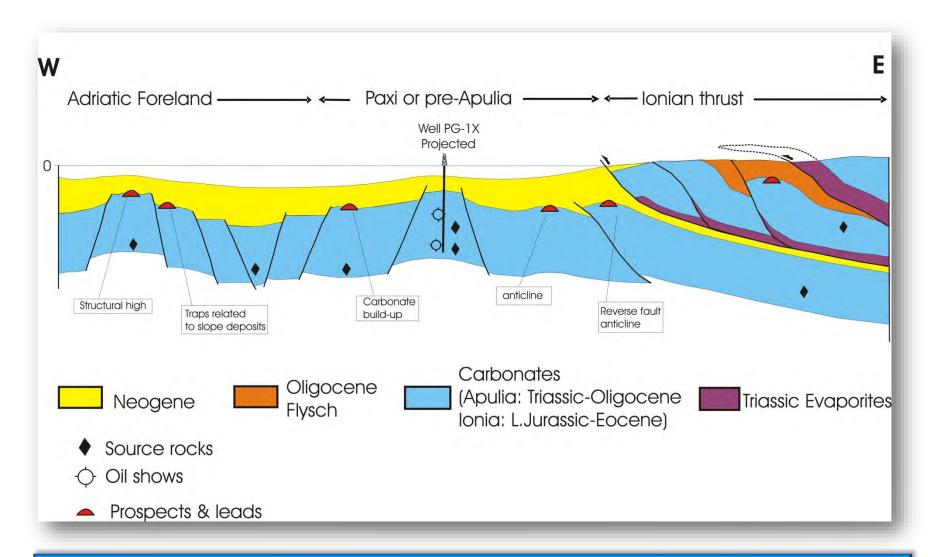
## Oil promising basins in greek territory





## W. Greece – play concepts

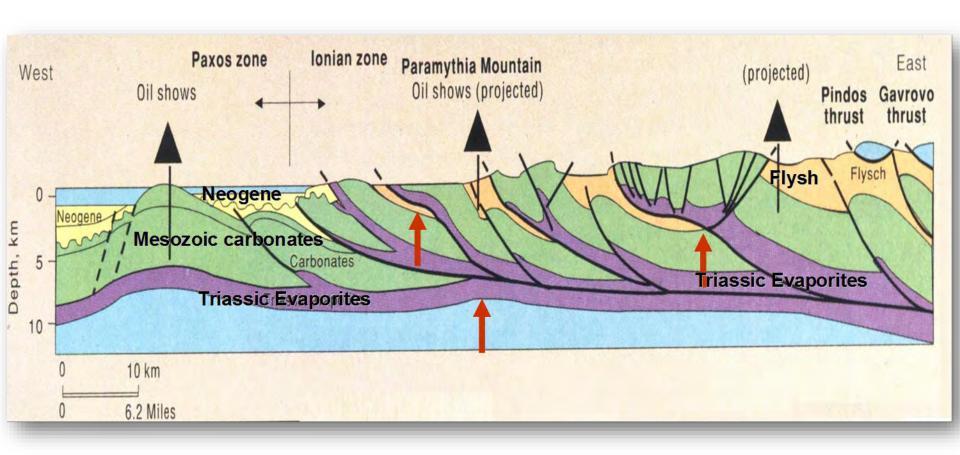




Anticlines and reefal buildups in Mesozoic carbonates covered by Neogene clastic sediments in the Apulian foreland

## W. Greece – deep geological targets

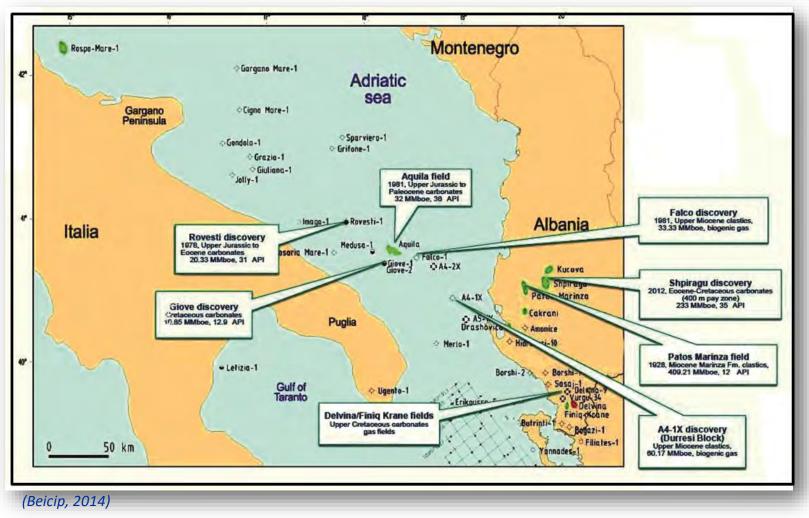




#### **Unexplored deep oil plays below Triassic evaporites**

## Petroleum system (oil and gas discoveries)

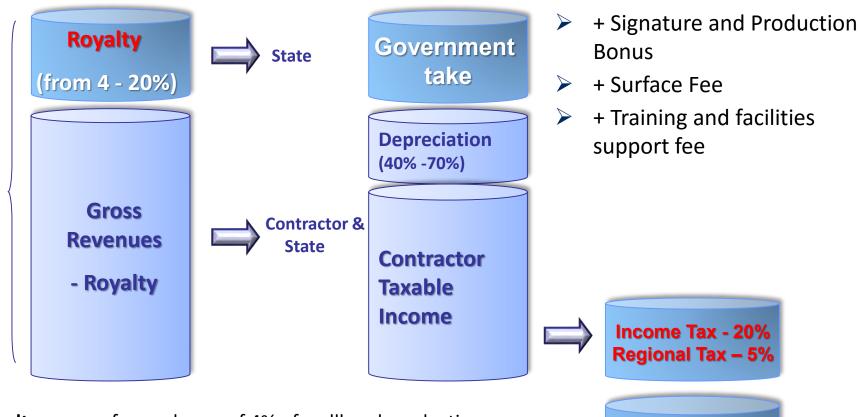




There are many oil and gas discoveries in the Adriatic Sea and Albania in both geological environments (Apulia/Pre-Apulia and Ionian zone) encountered in Block 1

## Fiscal and tax regime is competitive





**Royalty ranges** from a lower of 4% of wellhead production and is **linked to the R Factor** ratio on a sliding scale

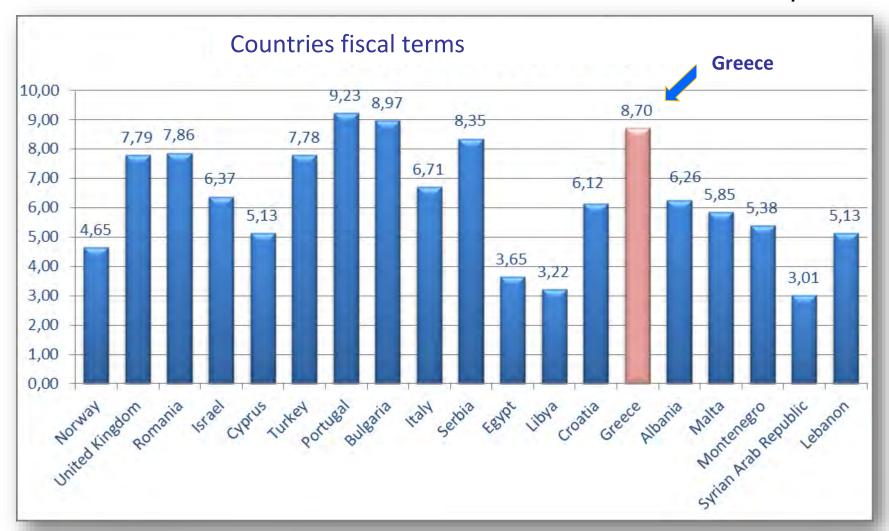
where **R Factor** =  $\frac{\text{Cum.Revenues}}{\text{Cum.Costs}}$ 

Government Take 50 – 55%

## The existing legal and fiscal regime is competitive



Source: IHS PEPS Report 4Q 2015

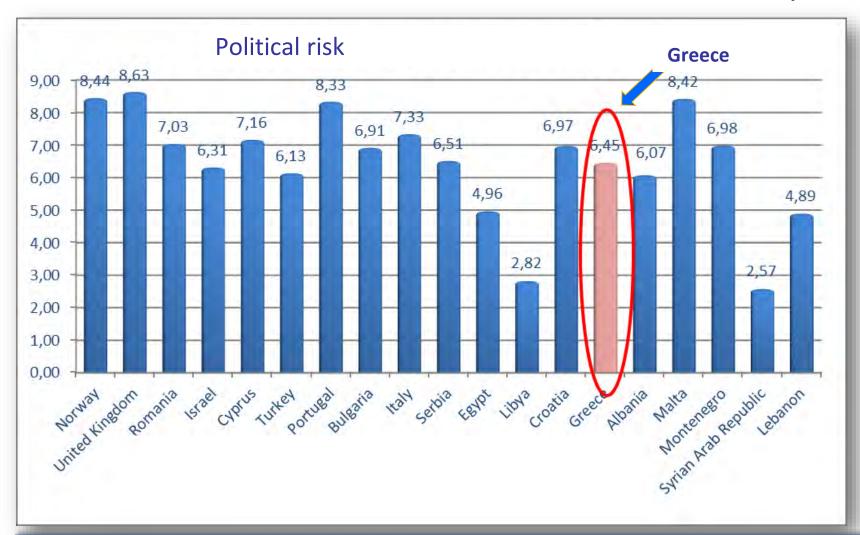


Fiscal regime: Greece is ranked 8<sup>th</sup> amongst 127 countries

## Political stability with low risk in a safe EU country



Source: IHS PEPS Report 4Q 2015



Political risk: Greece is ranked 43<sup>rd</sup> amongst 127 countries

## **Open Door round 2012 – West Patraikos Lease**





- Following a competitive bid process and extensive negotiations, in October 2014 the West
   Patraikos Lease Agreement was ratified to JV
- Hellenic Petroleum (33.3%, operator),
- Edison International (33.3%)
- Petroceltic Resources (33.3%)

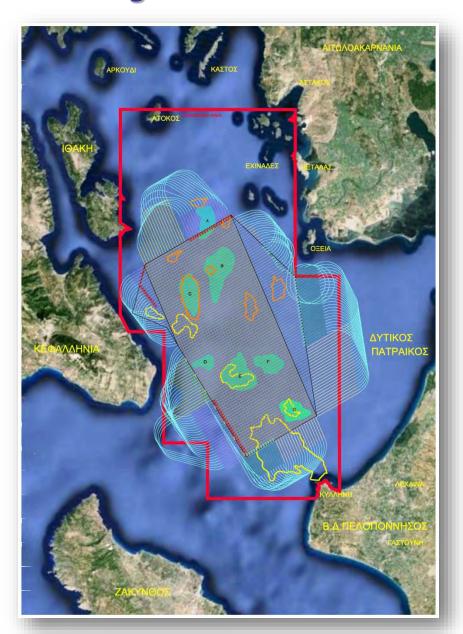
### with competitive terms

amongst others the tax regime overrides the Greek law

## **Lease Agreement of W. Patraikos Gulf**







- After the transfer of Petroceltic shares, Hellenic Petroleum (50%, operator) Edison International (50%) continue the existing approved exploration program.
- ▶ Up to Oct. 2017, when the 1<sup>st</sup> exploration period will be expired, all the exploration works will be completed (geological studies processing & interpretation of 2D and 3D seismic data.
- The commitments of the next two phases is to drill one well in each phase

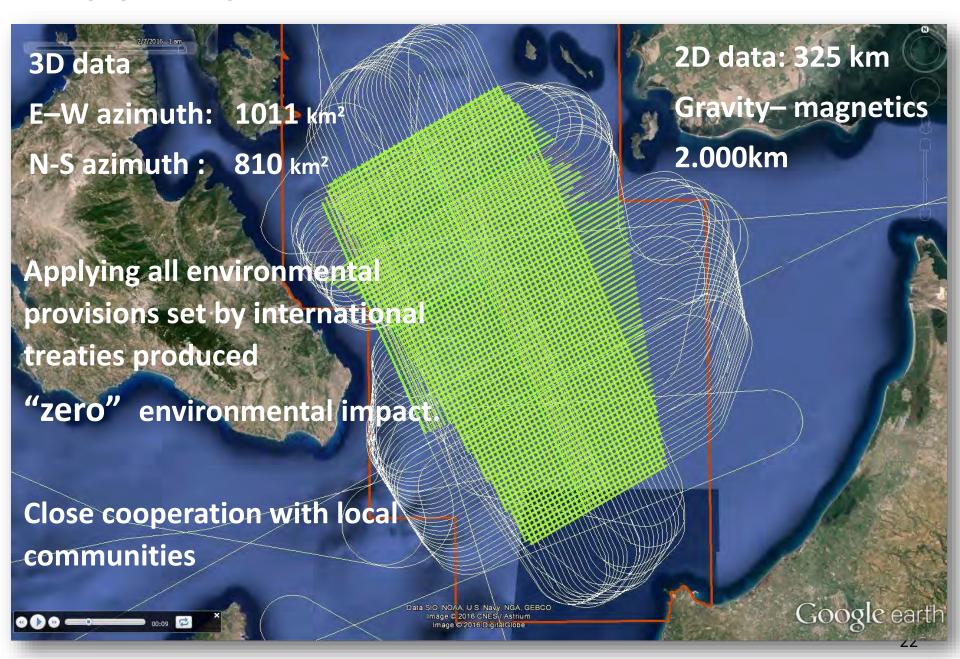
# **Exploration strategy:**

At the end of the exploration period we will know if there is oil existence or not in the block

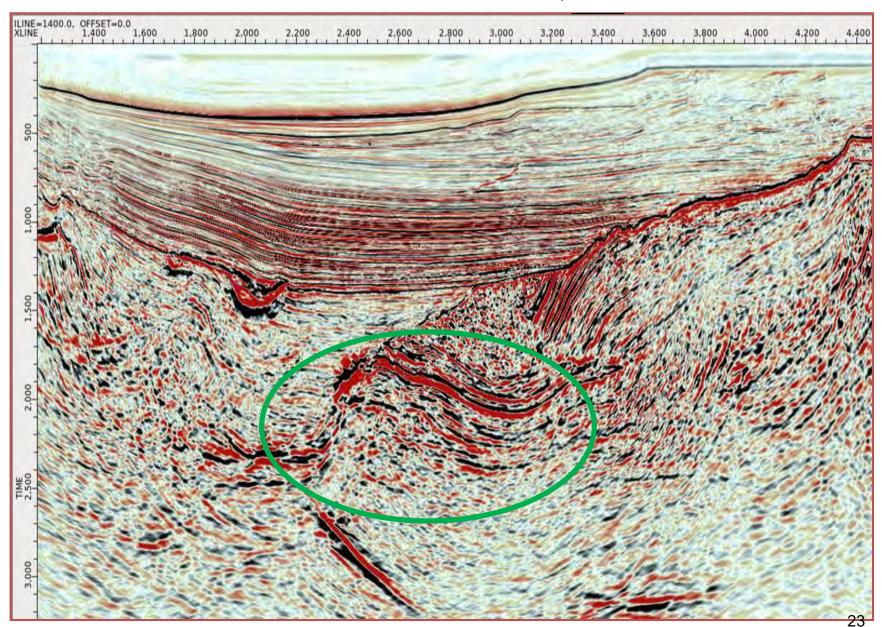
- Specialized geological studies (2015 2017)
- Double azimuth PSDM 3D seismic survey of 2X800 km2 (2015 2016)
- 2 -5 exploration wells (2017 2018)

applying
current technical methods
safe and friendly to the environment,
with full respect
to the local communities and
their activities

### **Geophysical acquisition 1Q2016**



# Fast Track PSTM Carbonate 4-way closure?



#### HELLENIC PETROLEUM

## Licensing Round for three onshore areas W. Greece (2014)



- Approving Enel's application (Apr 2014) Ministry of Energy released an international tender for 3 blocks in W. Greece (bid date 6 Feb 2015).
- HELPE studied jointly with ENEL all three blocks, but finally HELPE submitted alone two offers (ENEL did not participate due to change of its corporate strategy) for:
  - Arta Preveza and
  - NW Peloponnese
- Two more offers were submitted by Energean for the Arta – Preveza and Aitoloakarnania blocks

#### HELLENIC PETROLEUM

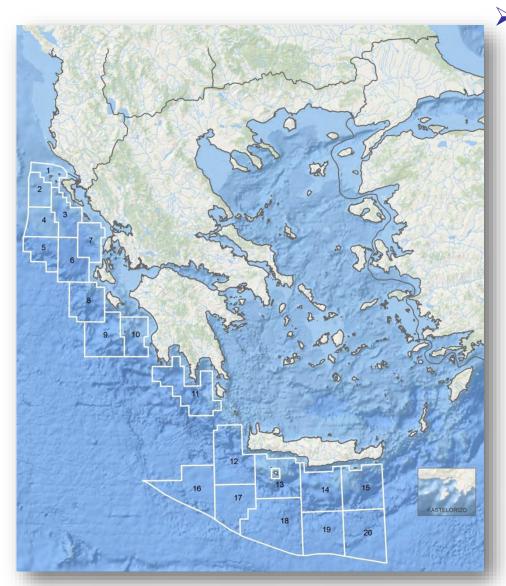
## Licensing Round for three onshore areas W. Greece (2014)



- Following a competitive evaluation process the Ministry of Energy (4 Feb 2016) has declared HELPE as the "preferred bidder" for two blocks:
  - Arta Preveza and
  - NW Peloponnese
- Energean is declared "preferred bidder" for Aitoloakarnania block
- ➤ The Lease Agreements are under negotiations and is expected to be executed by end of July



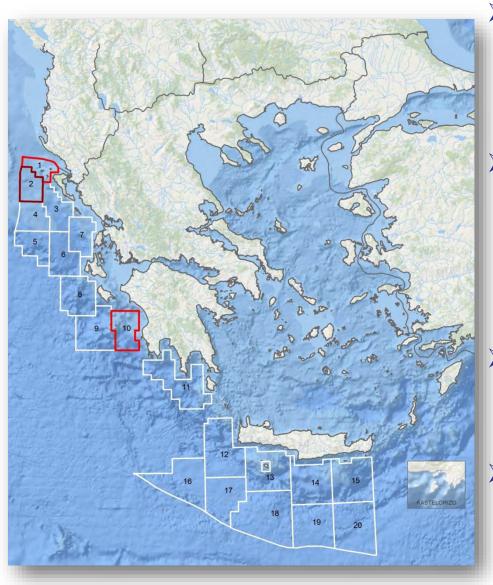
## International round for 20 offshore blocks in W. Greece



➤ The Ministry of Energy announced international round for 20 blocks in the area of Ionian sea and SW of Crete with bid date 14 July 2015



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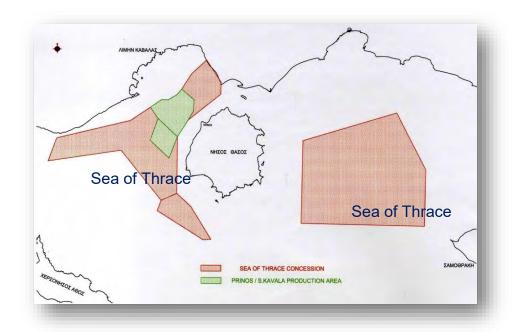
#### **HELPE** submitted:

- offers for two blocks in Ionian
   Sea (block 1 north of Corfu and block 10 Kyparissiakos Gulf S. Ionian sea)
- The JV of **Total (50% operator) Edison (25%) and HELPE (25%)** submitted offer for **block 2**
- The evaluation process is ongoing and is expected the preferred bidders to be announced over the coming weeks

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### **Sea of Thrace concession**





- Hellenic Petroleum 25%
- Calfrac Well Services 75%

We are in discussion with Calfrac to acquire their interest and reactivate the block

Extremely oil promising block, which includes Prinos basin west of Thasos island (with two more discovered oil fields of Athos and NE Prinos) and another oil bearing basin east of Thasos island, three times bigger than Prinos oil and gas producing basin





**EUROPE** 

**GREECE** 

IONIAN SEA

M. EAST

**EGYPT** 

LIBYA



## How we could connect ....



**EUROPE** 

**GREECE** 

IONIAN SEA

M. EAST

**EGYPT** 

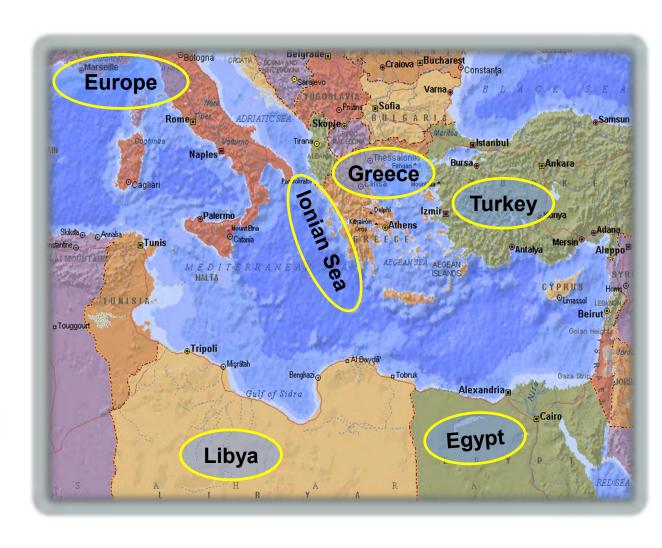
LIBYA

PRETTY WOMAN

JEALOUS WIFE

COW

HORSE FLY





# ... some thousands years ago, in ancient Greece ...





# ... some thousands years ago, in ancient Greece ...

10,

a pretty woman

was princess in Argos

a famous city in Peloponnesus, Greece







# ... Zeus, God's father ...

When he saw
beautiful IO
fall in love
with her

....

Something not unusual at all





# ... some thousands years ago, in ancient Greece ...

10 soon

was pregnant

HERA,

Zeus jealous wife found out the romance

and ....

IO was in trouble







# ... some thousands years ago, in ancient Greece ...

ZEUS,

was thinking

how to save IO

and transformed her

to a COW

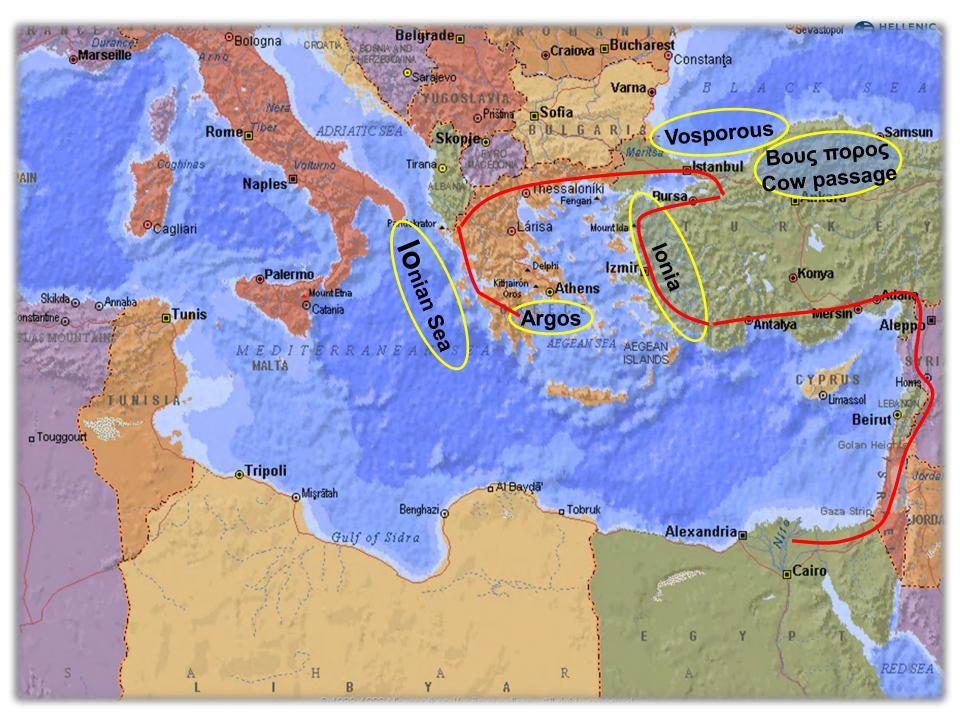
HERA sent a

**HORSE FLY** 

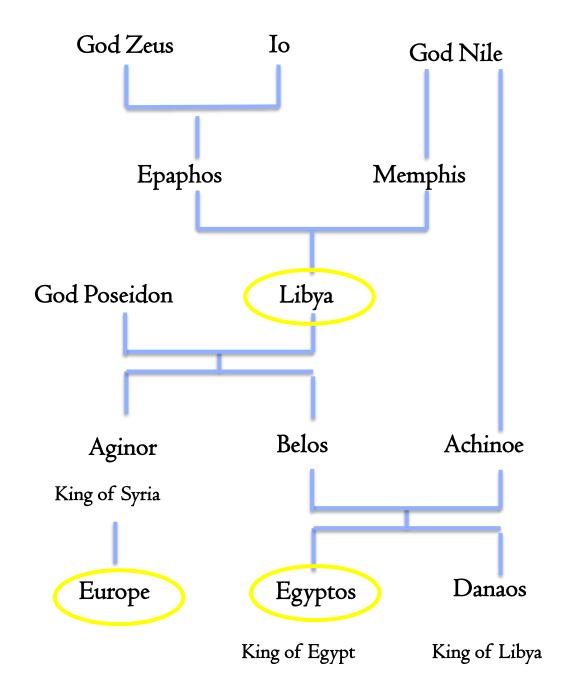
to sting and bother IO

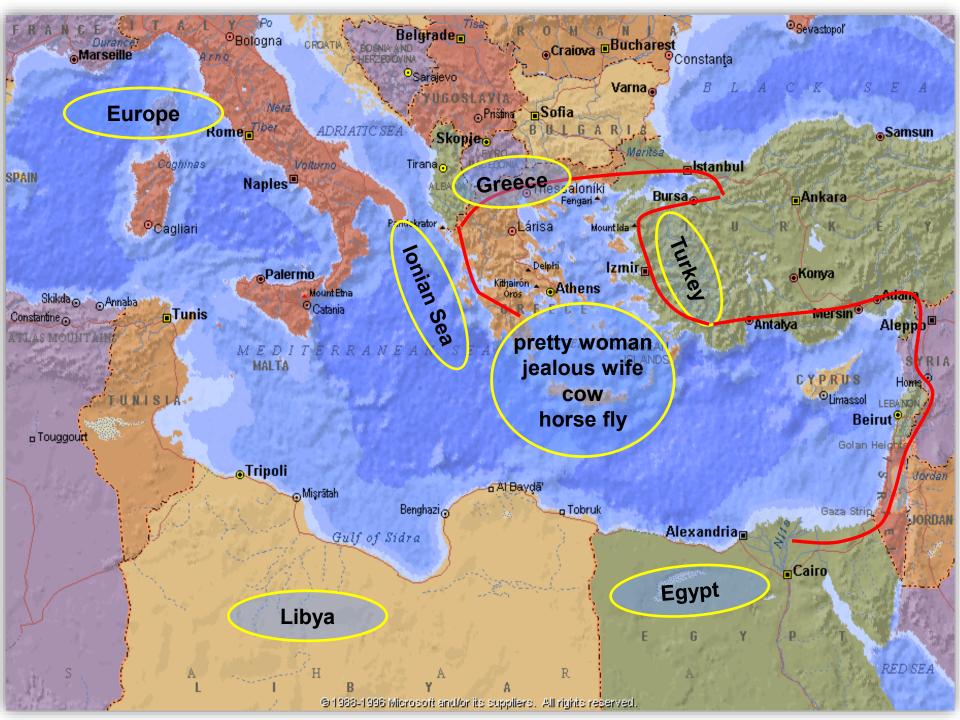






# Genealogy







# **Lesson learnt by the myth**

... connecting people, interests, culture ...

... is an efficient way of open - mind creative strategic thinking ...







... this is the approach, that we, in Hellenic Petroleum, are following to establish commercial relations with our partners...



# You are welcome at Greece

...either

you are partnering with us

or

competing us!

Many thanks for your kind attendance



# **Many thanks**

# for your kind attendance