

# LEBANON OFFSHORE PETROLEUM EXPLORATION

# H.E. MINISTER OF ENERGY AND WATER REPUBLIC OF LEBANON







# Lebanon First Offshore Licensing Round Preparation:

## ✓ Legislative

- ✓ Offshore Hydrocarbon Law (Aug. 2010)
- ✓ Petroleum Activity Regulations
- ✓ Regulatory Decrees for the Hydrocarbon Law implementation
- ✓ Exploration and Production Agreement (EPA)

#### ✓ Administrative

- ✓ Organization 's structure and regulations of the Petroleum Administration (recruitment process underway)
- ✓ Establishment of Permanent **Data Room** at MEW (Nov. 2010 present)

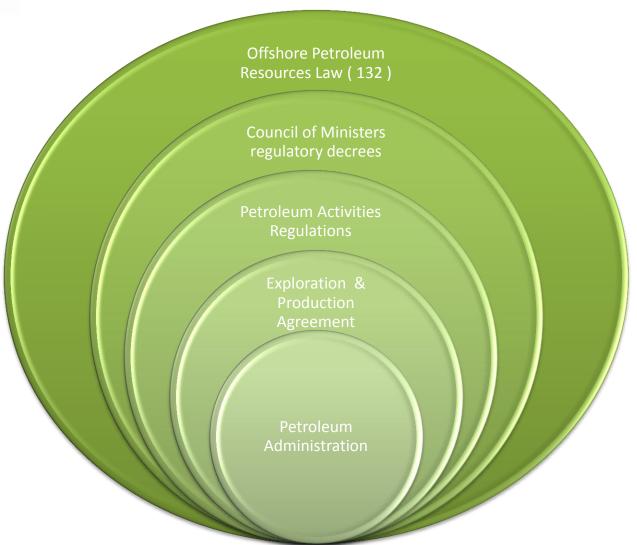
#### ✓ Technical

- ✓ Seismic Data Acquisition and Interpretation (2D/3D)
- ✓ Economic Modeling and Simulation
- ✓ Strategic Environmental Assessment (April 2012)





# Lebanese Offshore Hydrocarbon Legal and Institutional Frame Work





# Offshore Petroleum Resources Law (132)

#### ✓ Levels of Governance

- √ 1- Council of Ministers
- ✓ 2- Minister of Energy and Water
- ✓ 3- Petroleum Administration

# ✓ Un-incorporated Joint-Venture of Minimum THREE Companies /EPA

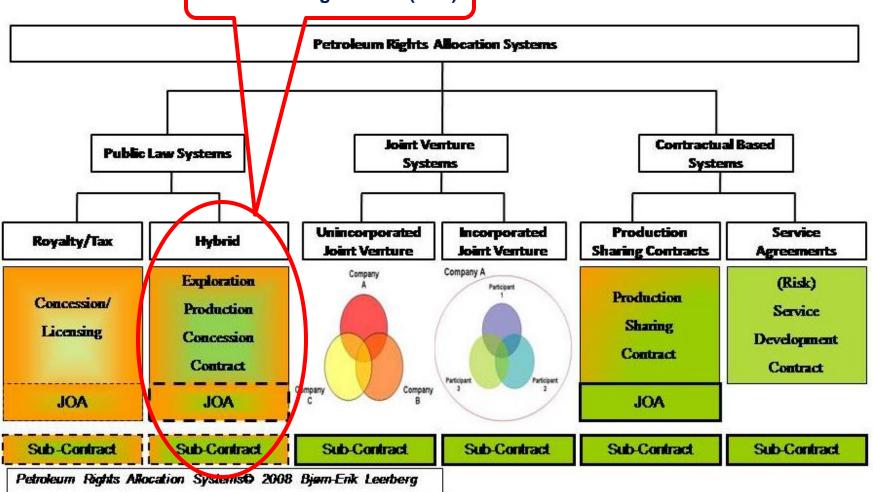
#### **✓ EPA Conditions:**

- ✓ Exploration phase of Max. 10 years
- ✓ Min. 50% Relinquishment upon First Exploration Phase Extension
- ✓ Production period of Max. 30 years



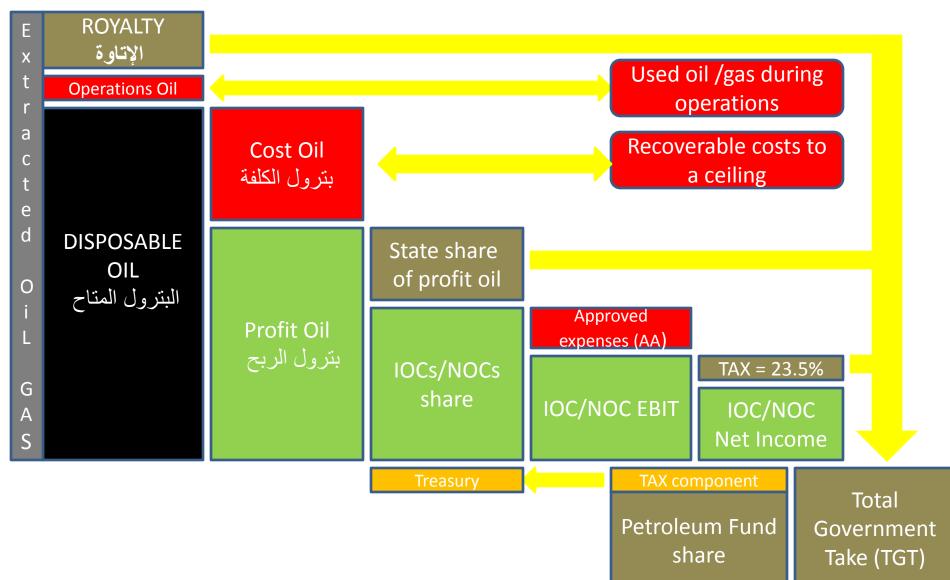
#### **Elements of the Lebanese PSA**

**Lebanon Exploration and Production Agreement (EPA)** 



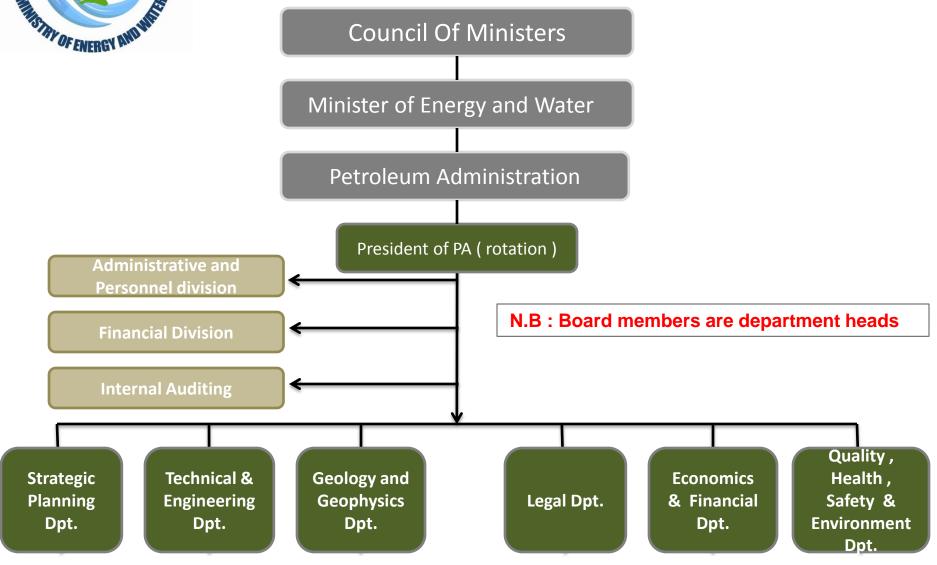


# Petroleum Activities Regulations: Fiscal System and Economic Terms





#### **Lebanon Petroleum Administration**





## Technical progress and achievements

#### ✓ 2D Seismic Data Acquisition

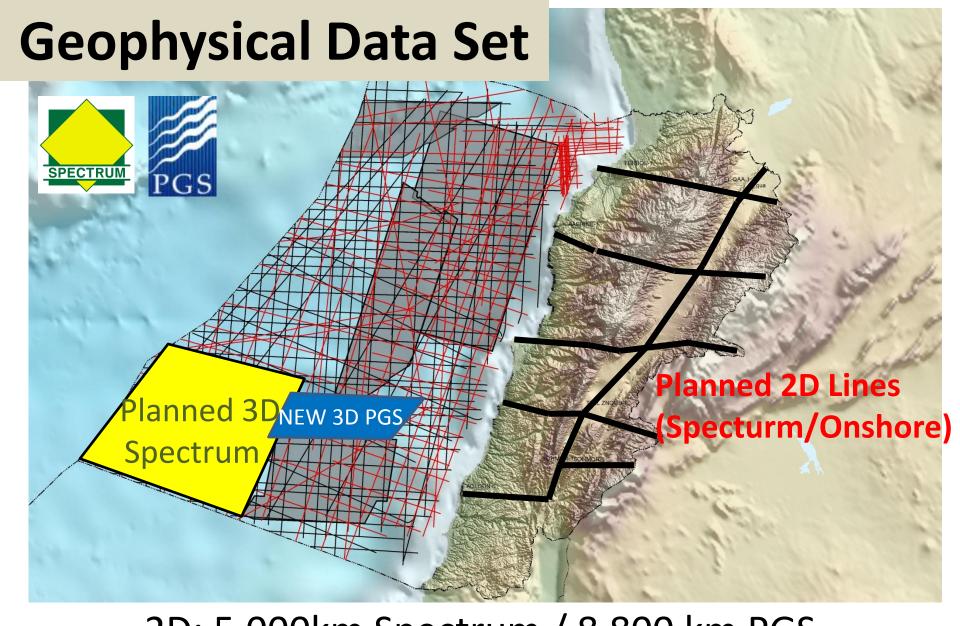
- ✓ Overall >14,000 km
- √ 460 km Geco-Prakla 1993
- ✓ 5,000 km Spectrum (2000, 2003) reprocessed recently
- ✓ 8,800 km PGS (2008, 2011)
- ✓ ONSHORE: 500km (via Spectrum; soon)

### ✓ 3D Seismic Data Acquisition:

- ✓ Overall >7,000 sq. km (PGS; 2006, 2007, 2011, 2012)
- ✓ About 3,000 sq. km (Spectrum soon, 2012)

#### ✓ Interpretation, Studies and Assessment:

- ✓ Regional Baseline Interpretation Report (covering 10,000 km 2D)
- ✓ 3D Interpretation, Prospects Definition /Volumetrics
- ✓ Basin Modeling based on Regional Baseline Study



2D: 5,000km Spectrum / 8,800 km PGS 3D: 6,400 (+600) sq. km PGS / 3,000 sq. km Spectrum

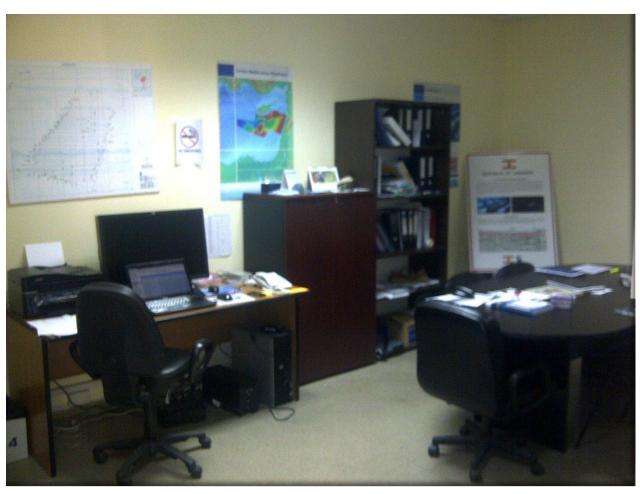
## Data Base - DATA Room (MEW)

- Seismic Data Collection and Database Elaboration
- Geological Data
- Meeting IOCs
- Field Trips
- Web Site









www.lebanon-exploration.com

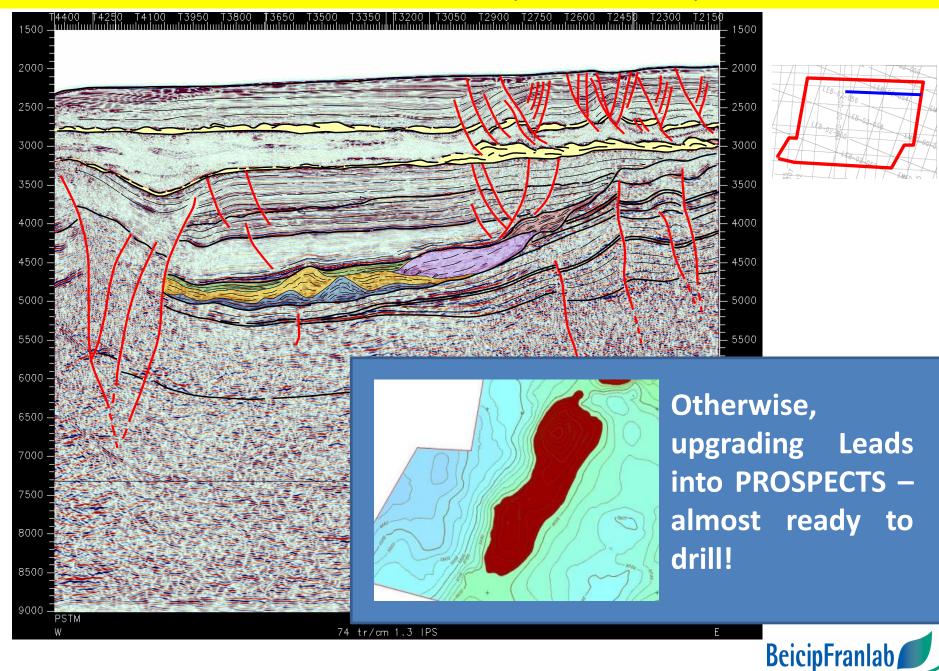


## **MEW Data Interpretation**

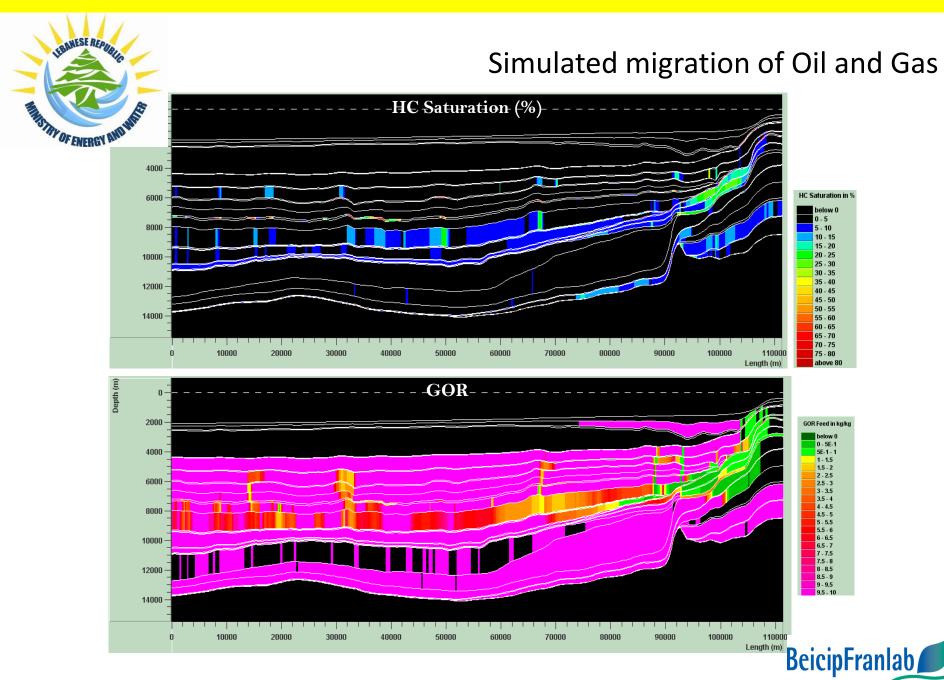
#### REGIONAL BASELINE INTERPRETATION REPORT - Oct. 2011

- Regional Geological Overview
- Integrated Interpretation of Regional 2D Seismic Surveys (Spectrum 2000/02, and PGS 2008)
- Plays and Play Fairways Analysis
- Leads Identification EUM EXPLORATION
- Quantitative Estimation of the Main Leads, Risk and Prospectivity Assessment
  BeicipFranlab

#### 3D SEISMIC INTERPRETATION: NEW (CARBONATES) PLAYS/LEADS



#### BASIN MODELING: GOR AND SATURATION AT PRESENT DAY





# Lebanon International Petroleum Exploration (LIPE) Forum & Exhibition – July 3 to 5, 2012

#### Check on: www.lebanon-exploration.com

#### **LIPE 2011**

