

**Keynote Presentation to World Energy Capital Assembly** 

The Emerging Upstream Opportunity in Uruguay

Eytan Uliel – Chief Executive Officer London, Tuesday November 14, 2023



## **CHALLENGER ENERGY BUSINESS OVERVIEW**



Caribbean and Americas focused junior E&P company; AIM listed

- Uruguay exploration assets: near-term value upside
- Trinidad business: production, low-risk, low-capital

#### **Uruguay exploration**

#### **AREA OFF-1 & AREA OFF-3**

Offshore low-cost work, multi-billion barrel potential; recent conjugate margin success driving interest; strategic partnering process

## **Trinidad production**

#### **SOUTH-EAST TRINIDAD FOCUS**

Onshore producing fields; production and cash flow focus; large exploration acreage position

#### **Legacy assets**

Low holding costs, no commitments, achieve value through farm-outs / partnerships / sales

Trinidad: *onshore South-West Trinidad acreage* (seeking sale / partnership)
The Bahamas: *offshore exploration licences* (pursuing monetisation strategy)

# **URUGUAY IN CONTEXT**



South-Atlantic margin has been the super-giant discovery success story of the last 20 years



# OFFSHORE URUGUAY: AN OVERNIGHT SUCCESS..... 15 YEARS IN THE MAKING



1970 to 2009	2010 to 2016 (Ronda II & Raya)	2017-2019 (Ronda III)	2020 to 2023
1970 to 2009 –2D seismic acquired  1976 – Lobo & Gaviotin drilled  2007 – ANCAP E&P created  2009 – Ronda I  2 Areas awarded, Area 3 & 4 to YPF, PetroBras & GALP	2012 – Ronda II  8 Areas awarded to BP, BG, Total & Tullow  2012-2014 - ~ 40,000 km² of 3D seismic  & 13,500 kms CSEM acquired  2016 – Raya (Total et al)  First deepwater well drilled	2018 – Ronda III  No Bids  2019 – Kosmos submitted bids on two areas, but subsequently withdrawn	2020 Open Round  OVERNIGHT SUCCESS!!

# **URUGUAY IS A NEW GLOBAL EXPLORATION HOTSPOT**



In 3 years, Uruguay offshore has gone from zero to fully licenced – a remarkable achievement

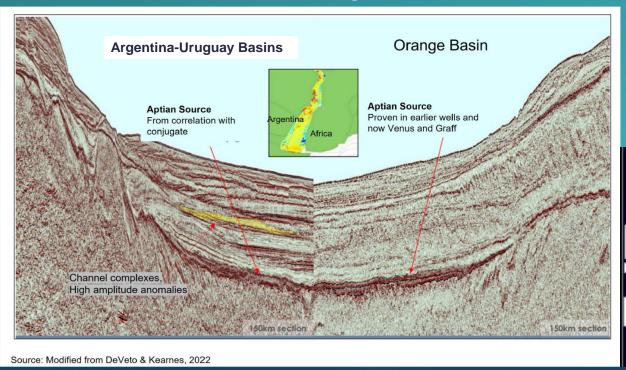


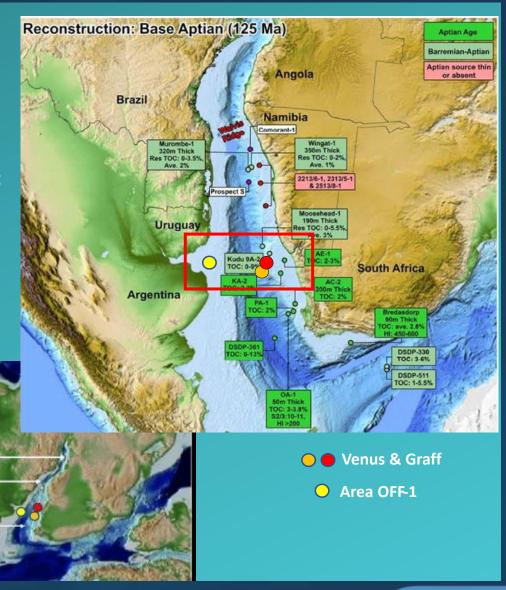
AREA / HOLDER	WI %	AWARD DATE	WORK PROGRAM COMMITTMENT	ESTIMATED WP VALUE
AREA OFF-1 CEG	100	May 2020	2D seismic licencing & reprocessing G&G Studies	US\$2m
AREA OFF-2 SHELL (APA also bid)	100	May 2022	Gravity & Magnetic 3D reprocessing; G&G Studies	US\$10m
AREA OFF-6 APA	100	May 2022	Drilling one well in Period 1 Data licencing; G&G Studies	US\$125m
AREA OFF-7 SHELL	100	May 2022	Gravity & Magnetic 3D reprocessing; G&G Studies	US\$10m
AREA OFF-4 APA & SHELL (YPF also bid)	60/40	Nov 2022	Acquisition of 2500 km² 3D seismic Data licencing + G&G Studies	US\$40m
AREA OFF-5 YPF	100	Nov 2022	Gravity & Magnetic 3D reprocessing; G&G Studies	US\$10m
AREA OFF-3 CEG	100	May 2023	2D seismic licencing & reprocessing; G&G Studies	US\$1m

# **BELOW GROUND: SIGNIFICANCE OF NAMIBIAN DISCOVERIES**



- The Venus mega discovery offshore Namibia is charged by an Early Cretaceous age Aptian source interval
- This same source interval that charges both discoveries can be seismically correlated to South American conjugate margin – including CEG's AREA OFF-1 in the Punta del Este basin, offshore Uruguay
- This establishes the potential for a new, prolific petroleum system being present in the South American Atlantic margin





Anoxio

Opening from sout Open ocean Oxic conditions

vaporite deposition

# **ABOVE GROUND: JURISDICTION HIGHLIGHTS**



Attractive fiscal terms and operating environment for E&P in Uruguay
Uruguay is widely recognised as the premier Latin-American country for business

- Transparent
- Excellent social and political system
- Well-functioning democracy

- Educated and skilled workforce
- Reliable legal system
- Stable and well managed economy

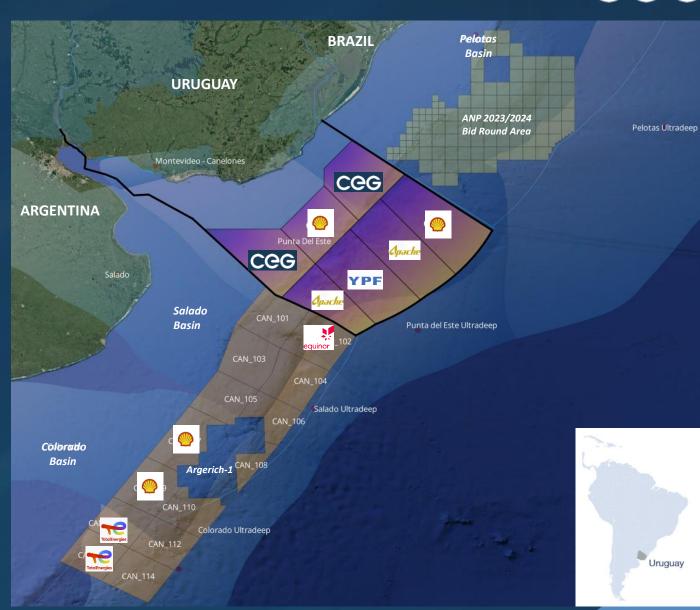
ΔŢΛ	Democracy Index (Economist Intelligence Unit, 2022, www.eiu.com/n/campaigns/democracy-index-2022/#mktoForm_anchor)	#1	Rule of Law Index (World Justice Report, 2021, www.freedomhouse.org/country/uruguay/freedom-world/2023)	#1
	Low Corruption (Transparency International, 2022, www.transparency.org/en/cpi/2022/index/ury)	#1	Social Mobility (World Economic Forum, 2020, www.weforum.org/reports/global-social-mobility-index-2020-why-economies- benefit-from-fixing-inequality)	#1
	Civil Liberties (Freedom House, 2023, www.freedomhouse.org/country/uruguay/freedom-world/2023)	#1	E-Government Development Index (United Nations, 2022, publicadministration.un.org/egovkb/en-us/)	#1

# **INTENSIVE E&P REGIONAL ACTIVITY UNDERWAY**



Drilling & 3D acquisition in offshore Uruguay & Argentina is being accelerated as a result of Namibia margin discoveries

- Argentina's 1<sup>st</sup> deepwater well, Argerich-1 scheduled Q1 2024
  - Equinor operated with partners YPF and Shell, 200 kms offshore in Block CAN-100
  - Projected TD of 4,050m; water depth 1,535m
  - Targeting a Cretaceous play similar to Venus
- Equinor, in conjunction with partner Argentinian national oil company YPF, will acquire 3D seismic on Blocks CAN-102, CAN-108 & CAN-114
- Other operators, Shell & Total with partners BP and Qatar Energy, will be acquiring seismic in 2023 / 24
- Brasil regulatory agency ANP, have just announced 12 sectors in the Pelotas Basin will be offered in December 2023, adjoining Uruguay



## **CHALLENGER'S URUGUAY ASSETS: AT A GLANCE**





LARGE OFFSHORE LICENCES WITH RUNNING ROOM

AREA OFF-1: 14,557 km<sup>2</sup>; AREA OFF-3 13,252 km<sup>2</sup> CEG has 100% working interest; ~ 100 kms offshore in Punta del Este basin; underexplored area

EXPLORATION PLAY DIVERSITY

Multiple, independent plays have now been identified, corroborated and calibrated from CEG's 2023 work, with source and reservoir similar to Namibian ultradeepwater super-discoveries

SCALE & MATERIALITY

AREA OFF-1: c. 2 bnboe EUR\*, from three prospects
AREA OFF-3: c. 0.5 bnboe EUR†, 9 tcf from two prospects

ATTRACTIVE LICENCE AND FISCAL TERMS

Uruguay is the top ranked country in South America Globally competitive, upper quartile fiscal regime; no bonus / royalties

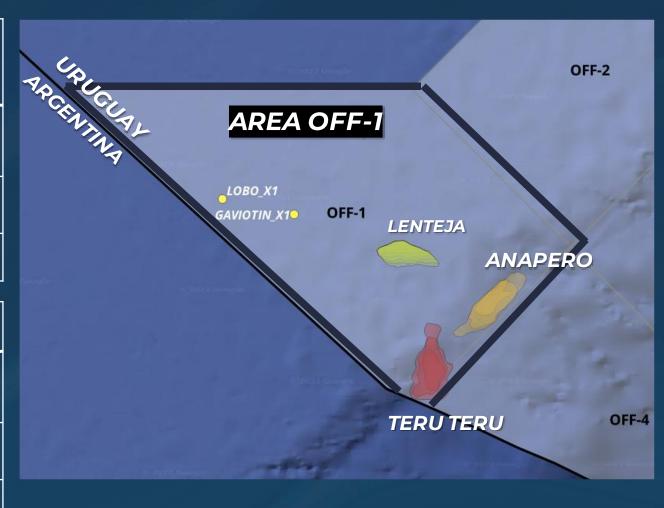
<sup>\*</sup>EUR estimates are on Pmean basis † P50 sourced primarily from ANCAP

# **AREA OFF-1: PROSPECT & VOLUMES SUMMARY**



PROSPECT NAME	AREAL EXTENT P10/50/90	WATER DEPTH	RESERVOIR TOP DEPTH	ESTIMATED EUR (mmboe) P10/Pmean/P50/P90
TERU TERU	360 / 210 / 106 km²	~ 800 m	3,810 m	1,647 / 740 / 547 / 158
ANAPERO	304 / 214 / 101 km²	~ 550 m	3,400 m	1,627 / 670 / 445 / 88
LENTEJA	246 / 85 / 14 km²	~ 85 m	4,500 m	1,666 / 576 / 198 / 17

PROSPECT NAME	DEPOSITIONAL ENVIRONMENT	STRATIGRAPHIC AGE
TERU TERU	Slope turbidite to shelf margin wave delta AVO supported – Class I to II	Mid to Upper Cretaceous Albian to Campanian
ANAPERO	Outer shelf margin stacked sands AVO supported – Class II	Upper Cretaceous Campanian
LENTEJA	Lacustrine alluvial syn-rift sealed by regional unconformity; No AVO identified	Lower Cretaceous Neocomian



### CHALLENGER'S URUGUAY COMMERCIAL STRATEGY





The region is experiencing a significant increase in licencing and operational activity, and Uruguay has become an emerging industry "hot spot"

• Collective work program of other Uruguay licence holders estimated to be c.\$200m over the next four years



#### CEG is the only junior with a prime licence holding in the region

- All of offshore Uruguay has now been licenced and with the exception of CEG, all to majors
- CEG is the second largest acreage holder offshore Uruguay



#### A clear commercial strategy

- Complete CEG's low-cost work program to enhance technical value of the AREA OFF-1 licence
- Introduce a partner via a farm-out transaction; objective is to fast-track participation in a multi-client 3D seismic acquisition, during the first licence exploration period

#### THE EMERGING UPSTREAM OPPORTUNITY IN URUGUAY



#### For Uruguay:

- Frontier E&P success requires patience, willingness to challenge technical dogma, a robust below ground technical case,
   and a positive above ground environment government support and industry implementation
- Uruguay is an excellent country to do business in, highly supportive of E&P, and the offshore remains a very underexplored margin
- Hydrocarbon development is seen as part of Uruguay's future energy mix and co-exists alongside renewables
- The last 3 years has seen Uruguay become an exploration hotspot now fully licenced; next wave of activity with new seismic and drilling bodes well to transforming the margin into a significant oil province
- Uruguay could be the next Guyana or Namibia!

### For Challenger:

- A prospect inventory of up to 2 billion barrels defined, three sizeable prospects thus far identified, from a range of play
  types, and charged by a source interval the same as those de-risked by recent successful conjugate margin drilling
  offshore Namibia; prospects are seismically-derived, and supported / further de-risked by AVO analysis
- Conjugate margin success, competitive recent licensing rounds in Uruguay, and value uplift from CEG's 2023 technical work are driving drive farm-out process





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