



Field Trip November 2011

.... focus in investments, opening new exploration grounds for Repsol.

Marcos Mozetic MD Exploration



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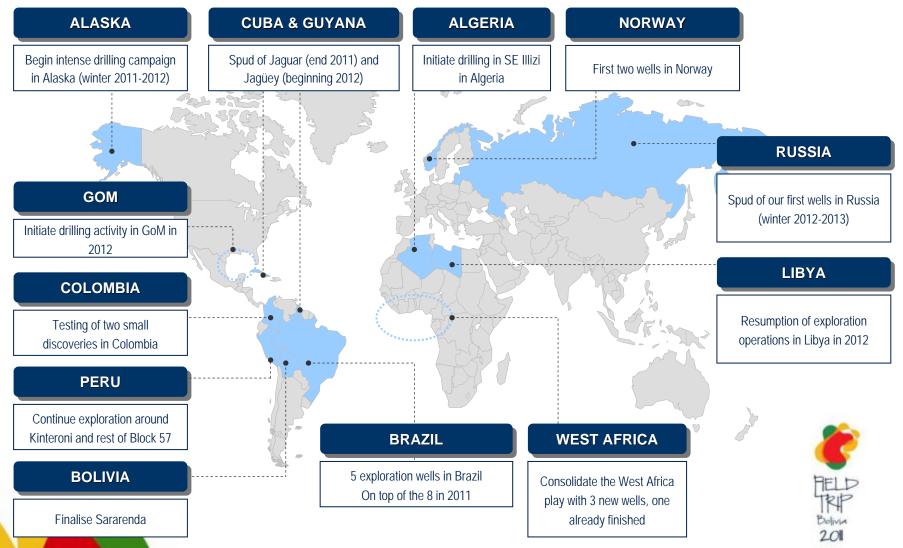
Agenda





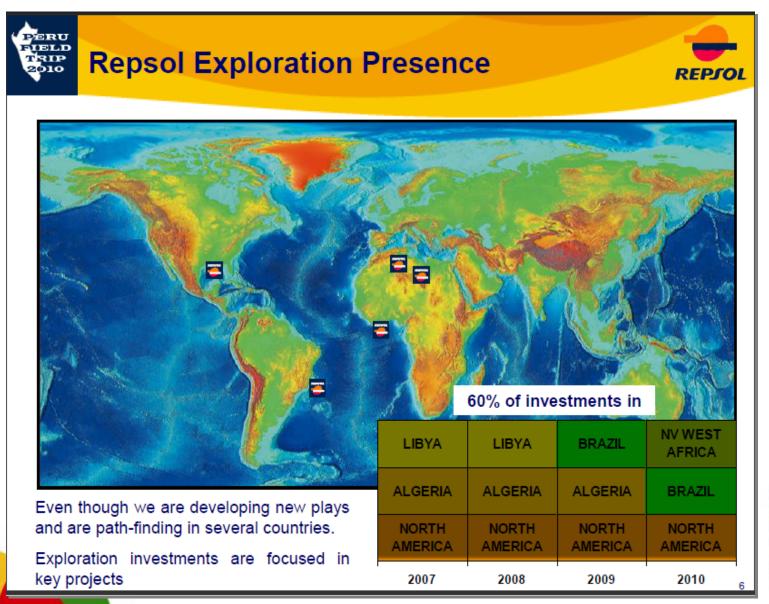
Activity summary 4th quarter 2011 and 2012





Focus in investments 2007/2010

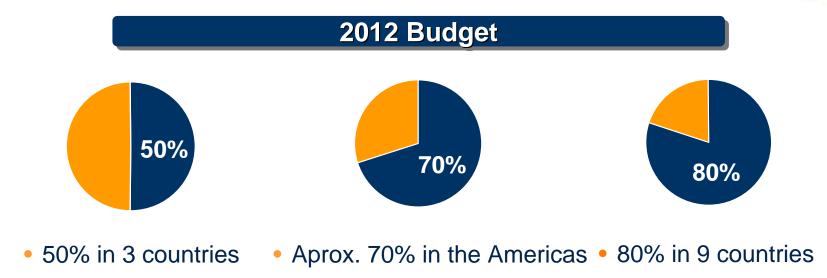




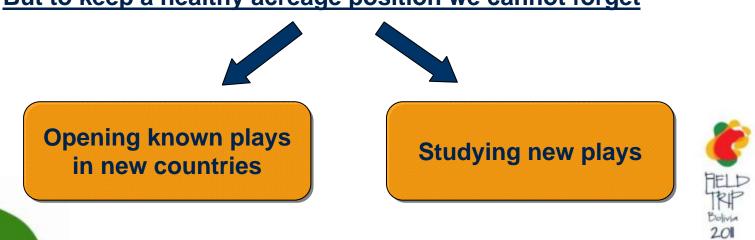


Continued focus in 2012





But to keep a healthy acreage position we cannot forget



But knowledge-based opening of new grounds



Expanding known plays

- Atlantic SA/WA Oblique Basin Play
- Carbonates in offshore
 - Angola subsalt
 - Offshore Colombia and Caribbean
- North Atlantic Margins (with carbonates in Irish Atlantic) extending into Sub Arctic N. America and Norway
- Folded Belt Peru
- Colville High and down dip stratigraphic potential (Alaska)

Entering New Plays

- Iraqi Kurdistan folded belt
- New basins in Indonesia
- W. Siberian Margins





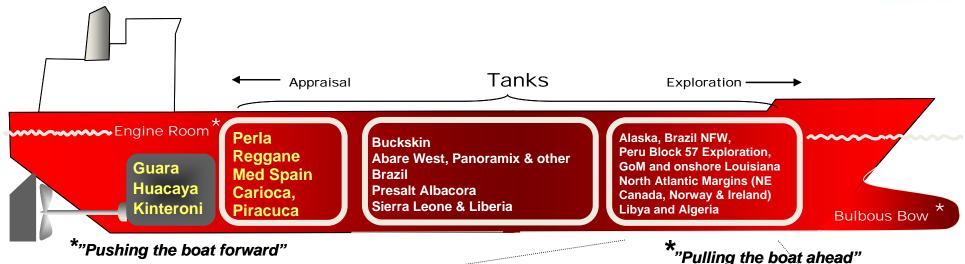
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Our Exploration "Tanker"





- Opening underexplored folded belts in Peru
- Iraqi Kurdistan folded belt
- Folded belt offshore Tunisia
- Unexplored offshore basins in Indonesia
- Exploring Russia
- Mediterranean unconventional
- Several Regional Assessments which will end in acreage positions in the future

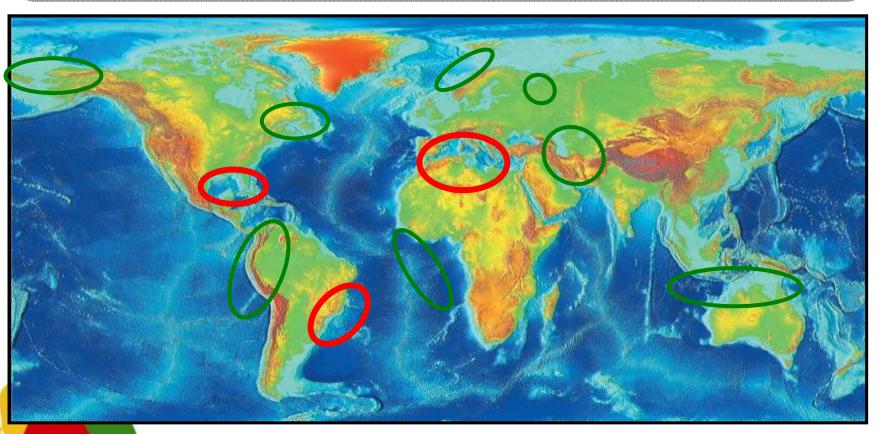




In Summary: Investment in Core areas and opening new Growth areas



In summary, to replace Brazil and North Africa, we have to be involved not only in proven areas with remaining potential like Norway, onshore and offshore GoM, onshore Alaska, but we need to complement these with less certain but measured entries into frontier basins or new ventures like offshore Indonesia, Kurdistan, Angola etc.



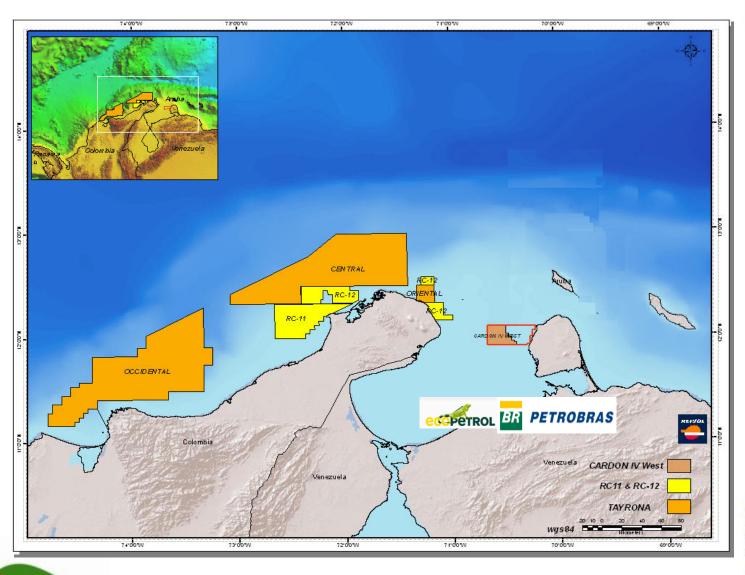
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New Ventures in Colombia





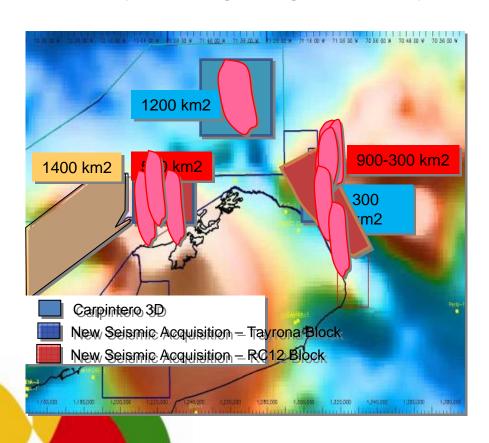


Guajira Peninsula in Colombia



Extending the Tertiary Carbonate Play

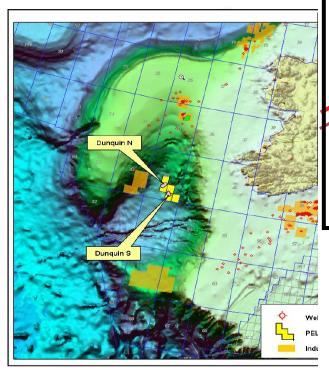
- Finalising official procedures for formal entry into Tayrona and RC 11&12 offshore blocks in Colombia. Cayos round award was suspended
- Already shooting a large 3D surveys to confirm and define prospects

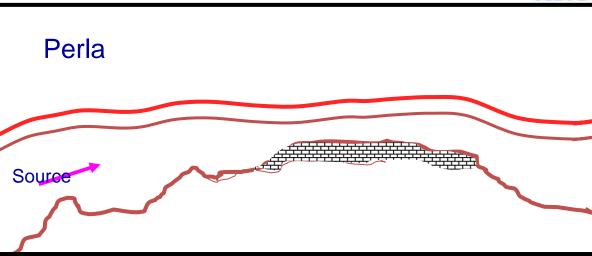


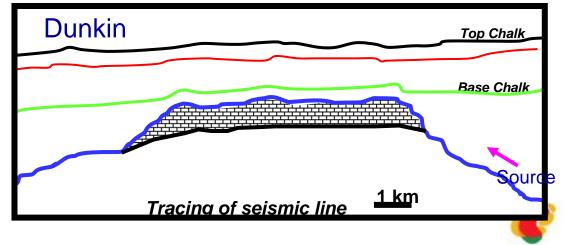


Ireland





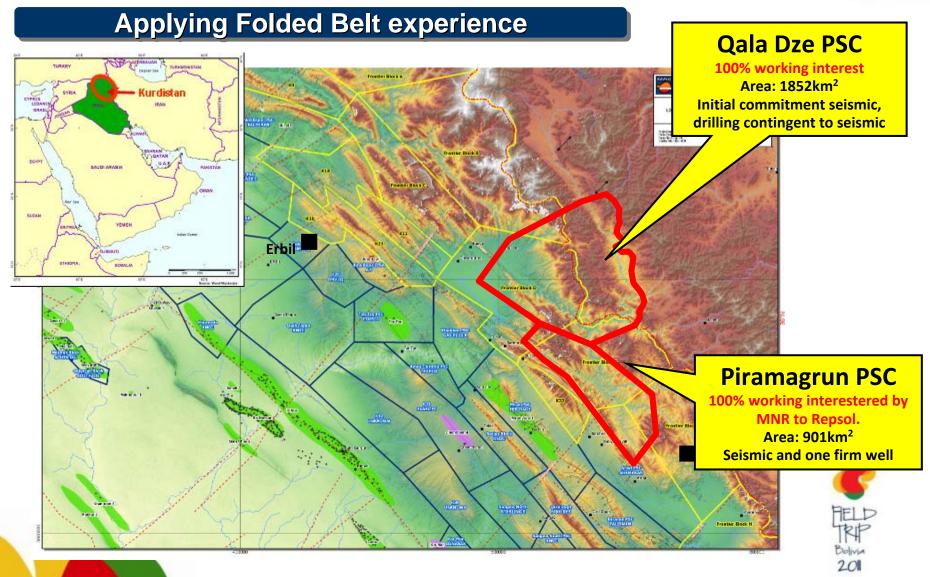






Kurdistan Exploration - Piramagrun and Qala Dze PSC's





Angola: Block Location



Basin Name - Main Basins Basin Name - Sub Basins

✓ Coastline

Country Limits Exploratory Wells

Oceanic Magnetic Anomalies

Structural Features

✓ Anticline

Inferred Anticline

Syncline

Inferred Syncline

Monocline

Inferred Monocline

✓ Fault

Inferred Fault

✓ Normal Fault

/ Inferred Normal Fault

✓ Reverse Fault

/ Inferred Reverse Fault

/ Thrust Fault

Inferred Thrust Fault

Strike-slip Fault

Inferred Strike-slip Fault

Other

Oceanic Tectonic Features

/ Active Ridge

Inactive Ridge

✓ Transform Fracture Zone

Trench

Other

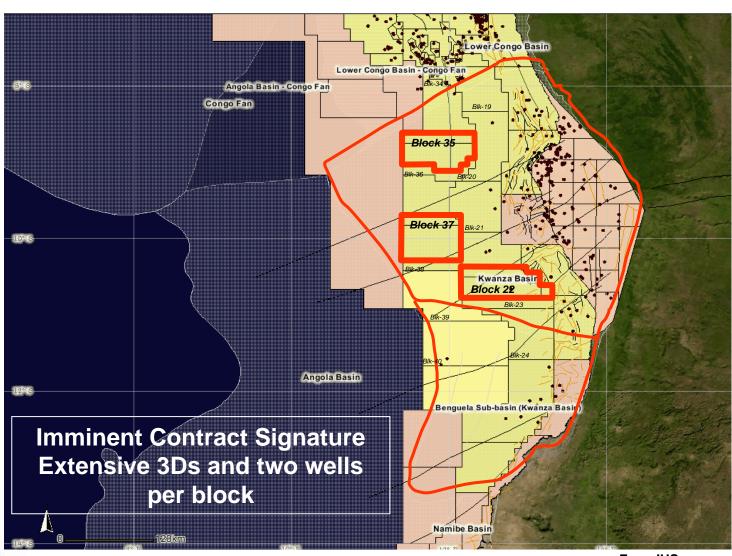
Valid Contract Blocks
Open Areas

Sub Basins

Main Basins

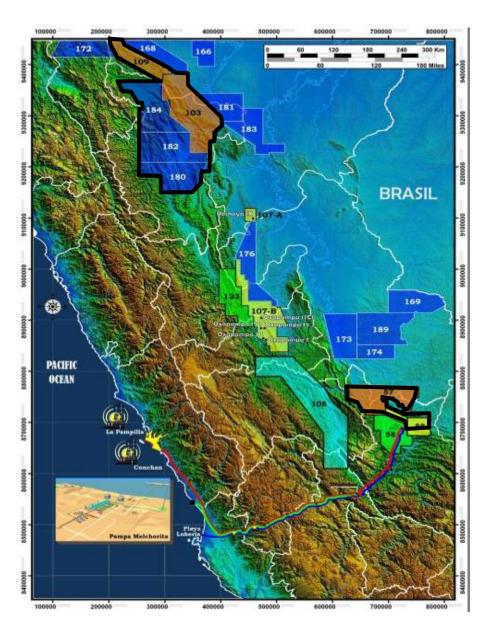
World Satellite 1km

Looking for Brazilian Presalt Analogues



Central Peru Foldbelt



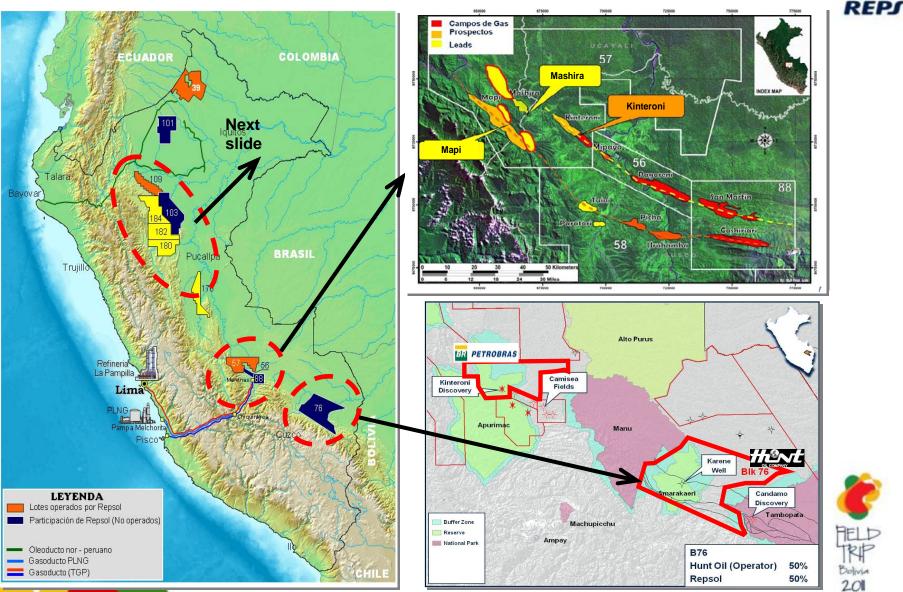


- The Peruvian Foldbelt is largely under explored with a very low well density due to logistical challenges.
- Repsol YPF has a long history and has built its expertise in Andean foldbelts, from Argentina to Venezuela.
- Despite the complexities of this operational environment, Repsol YPF aims at building a leading position in this play.



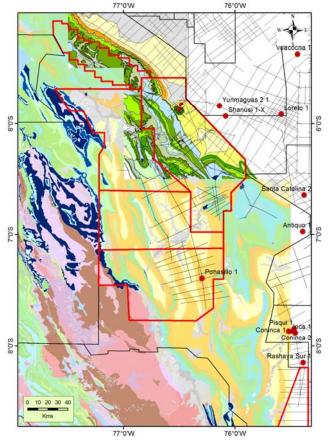
Perú: Huallaga – Ucayali – Madre de Dios



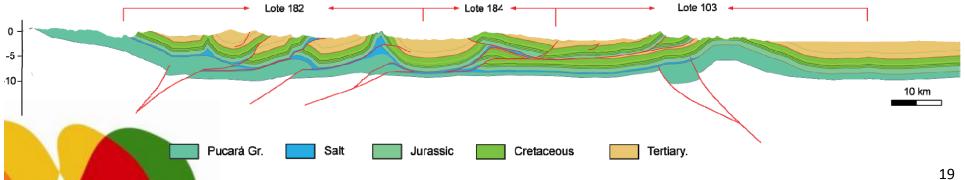


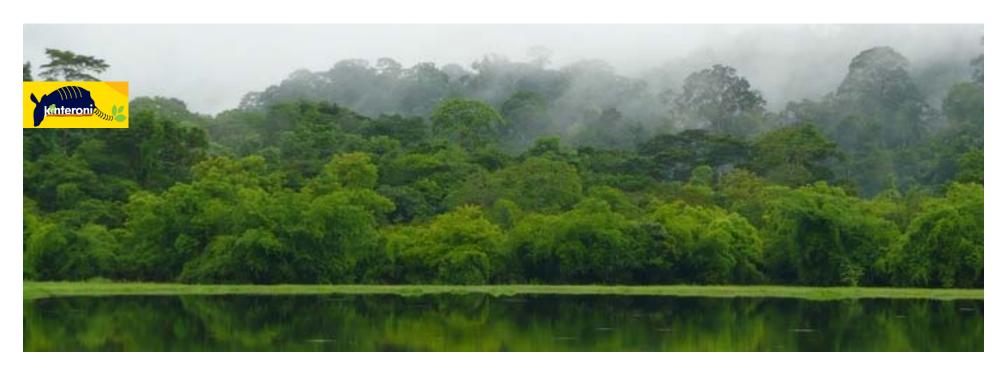
Perú: Huallaga Foldbelt Venture





- Frontier Venture: 6 Blocks, 30000 km2, 1 well, 3000 km 2D, multiple partners
- Initial focus on regional structural work and characterization of the carbonates of the Pucara Fm. From outcrops and seismic.
- Significant HSE and Communities challenges.
- 2012: G&G, HSE, 2D seismic acquisition planning
- Budget 2012: 8.2M\$ Rep Net

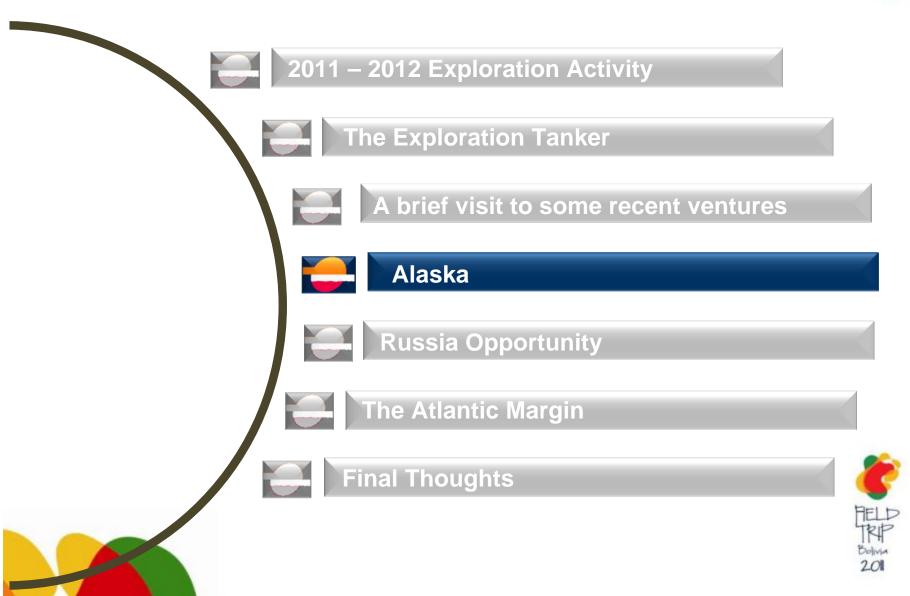






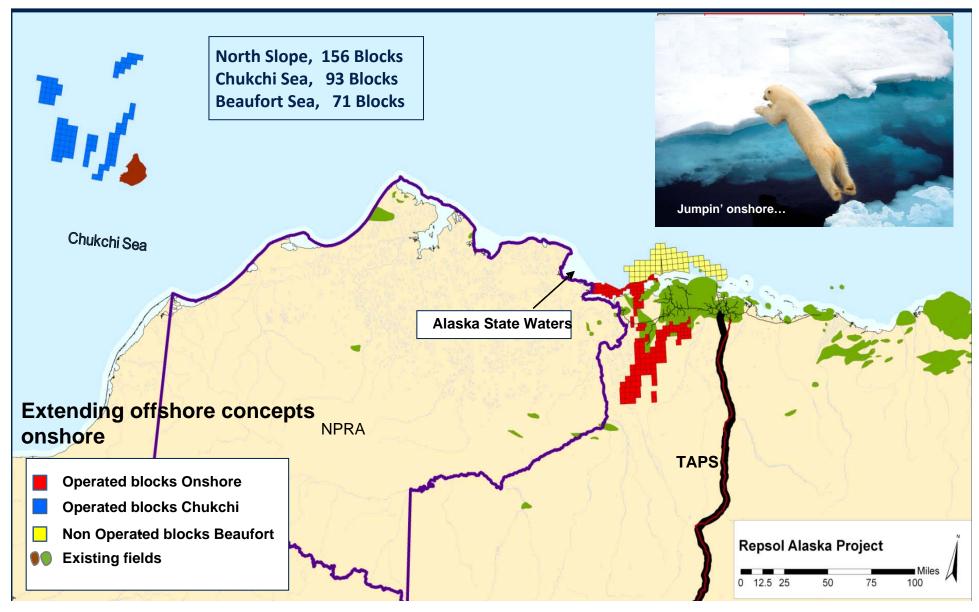
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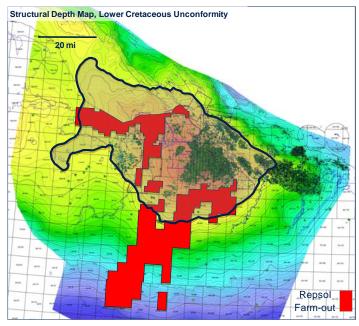
Our current position in Alaska

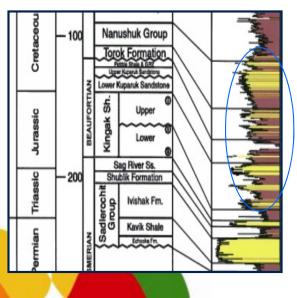




The Mega-Structure "Colville High" The Multi-Reservoir Project



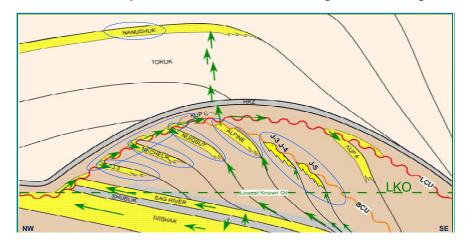




- Colville High is a 1.28 MM ac. (5,180 km2) four way closure structure
- Not a single wet well drilled in Jurassic reservoir within the Colville High.
- The main proven play present in the area is related to the Jurassic shallow marine sandstones (J-2, Nechelik, Nuiqsut, Alpine, J3-J4 & J-5) truncated by the Early Cretaceous unconformities. Others proven plays are, the transgressive sandstones (Alpine C, Kup C & J-5C) and the shallow marine sandstones (Nanushuk)

Repsol's Assets Alaska North Slope

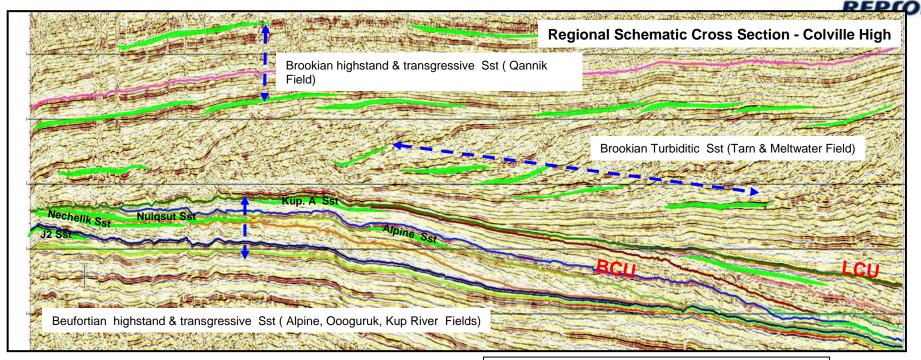
- 25 Projects from 17 reservoirs:
 - 8 Projects are within possible extensions of productive Oil Fields
 - 12 Projects having some previous indication of net pay
 - 5 Project never tested before analogous to existing Field



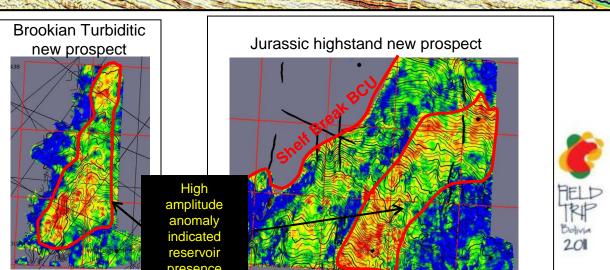


North Slope Project - Exploration Potential —





- Repsol 's New Exploration
 Opportunities in the North Slope
- Several new exploratory prospects have been defined using seismic data 3D\2D in the North Slope.
- No wet wells drilled in Jurassic reservoir within the Colville High



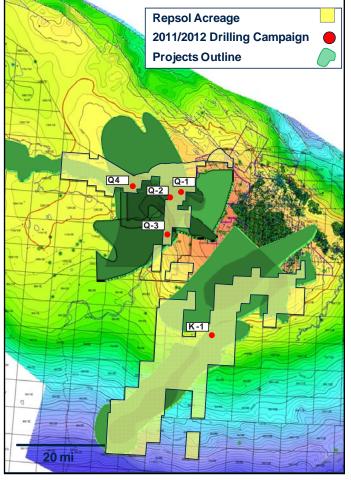
2012 Drilling Campaign and Exploration Potential



Objectives - 2011/2012 Drilling Campaign

- Gather enough information to support the sanction of some objectives located in the same structure and stratigraphically analogous of adjacent producing fields.
- Apprise a number of projects, extensions of already discovered and producing fields.
- Start exploring additional potential in the North Slope Area. At Colville High Repsol has identified several new opportunities with same play concept of existing producing fields (Jurassic shallow marine sandstones-transgressive sandstones- Turbiditic)

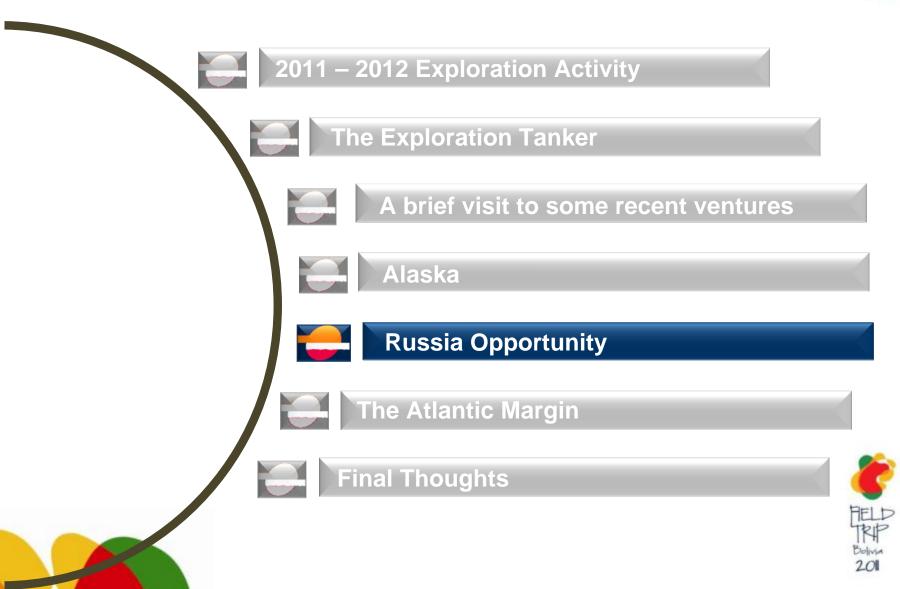






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Entering Russia





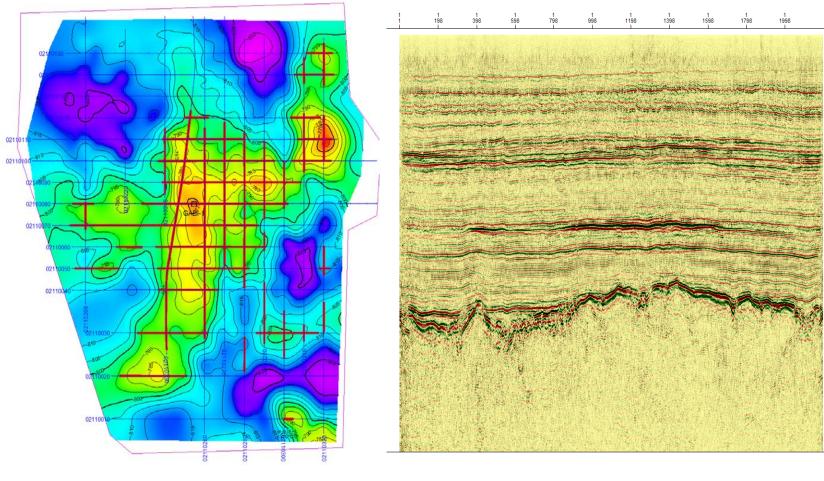
- In both margins, West and East, we have identified new plays after a regional study involving the reprocessing of 10000 km of 2D seismic.
- In the Western margin we shot 550 km of 2D seismic and will be ready to drill soon.
- In the Eastern margin we will be shooting 810 km of 2D seismic in the winter 2012/3
- We are actively looking for similar plays





West Siberian Margins - Still prospective

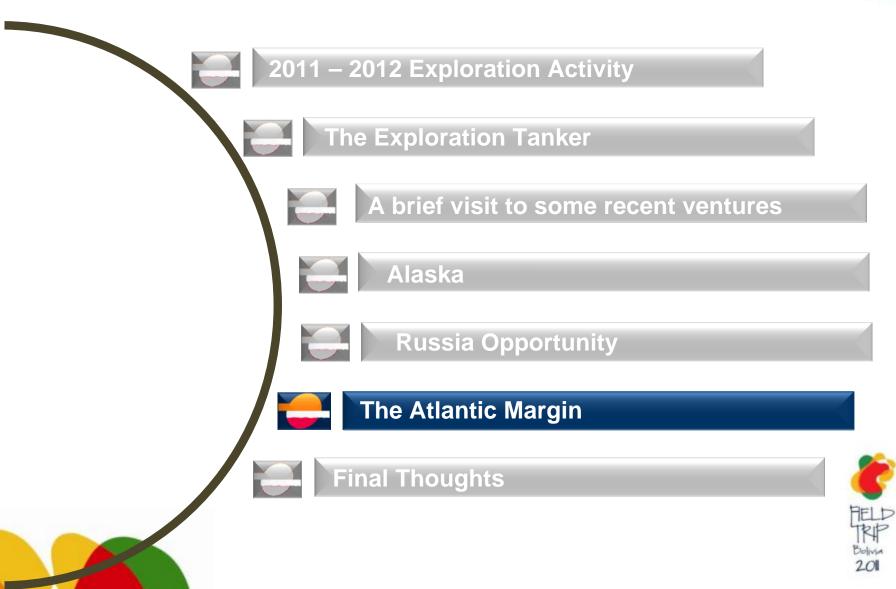






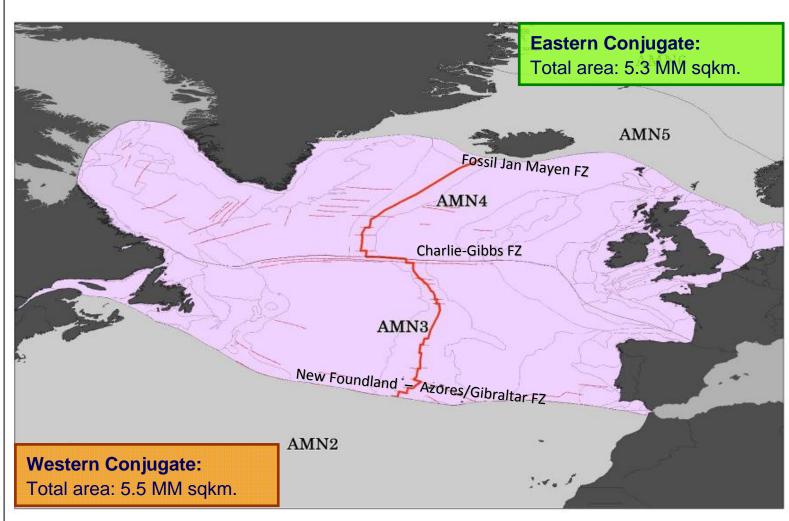
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An example of REGIONAL FRAMEWORK

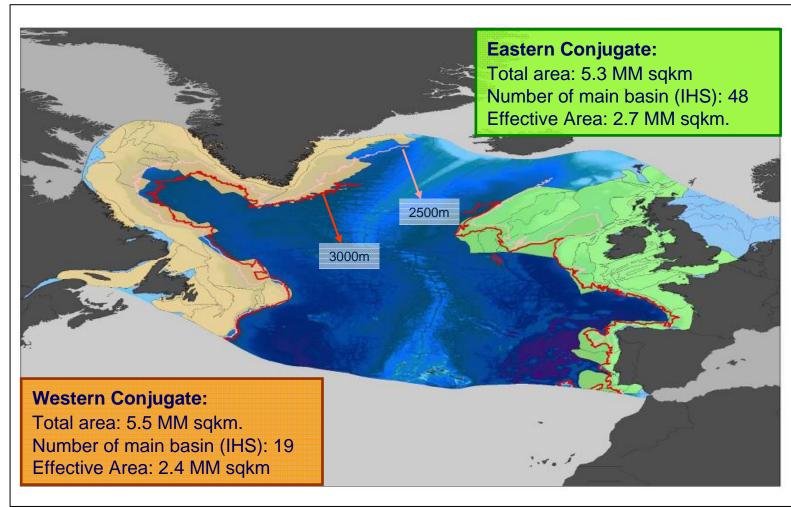






AMN3 & AMN4 Location Map



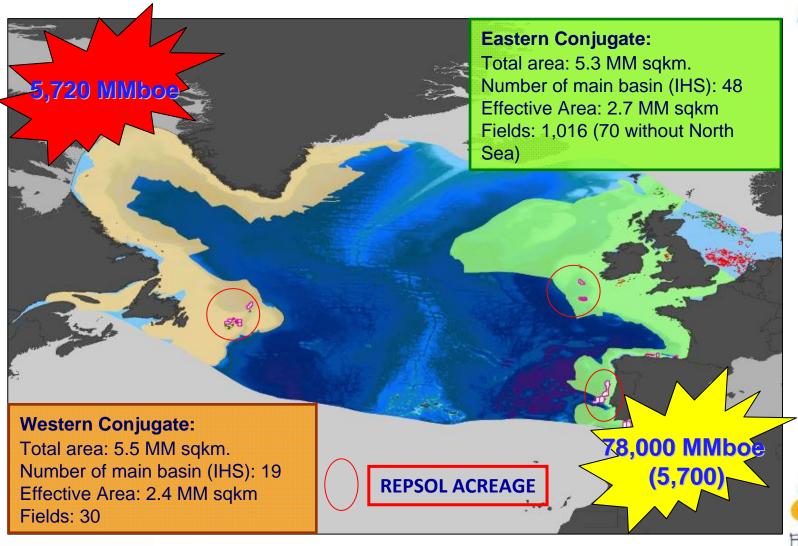






AMN3 & AMN4 Location Map







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Continuing Medium to Long term plans



One year ago we said:

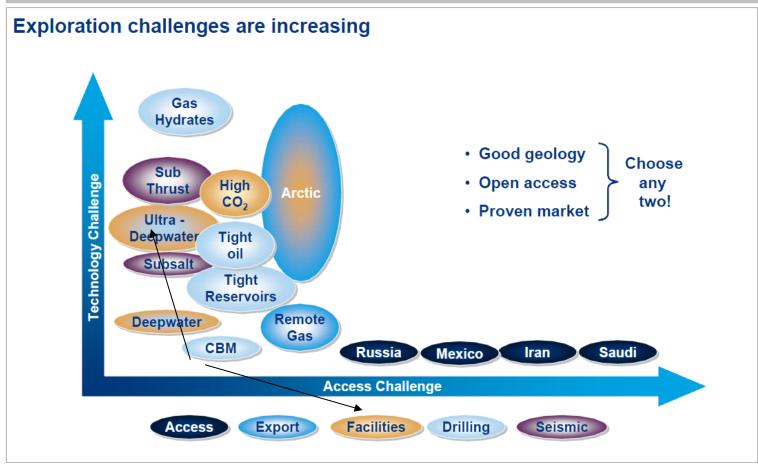
We will:

- Expand our efforts in West Africa (SL, L, EG, A+)
- Continue with our strategy of balancing North America offshore with more onshore opportunities
- Work and expand beyond Norway the Eastern North Atlantic Margin
- Continue looking for additional acreage in plays we are developing for the Mediterranean ✓
- Expand the Tertiary Caribbean play
- Be ready for more opportunities in Brazil
- Mature our play in the Peruvian Subandean belt
- Exploit our presence in ME Caspian for more opportunities



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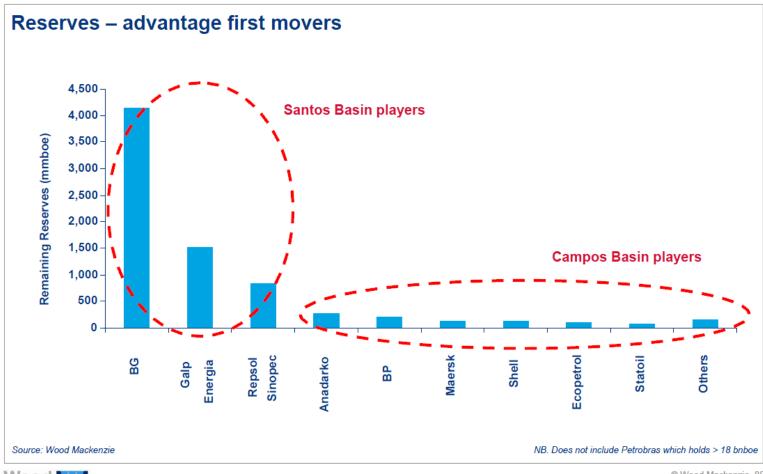
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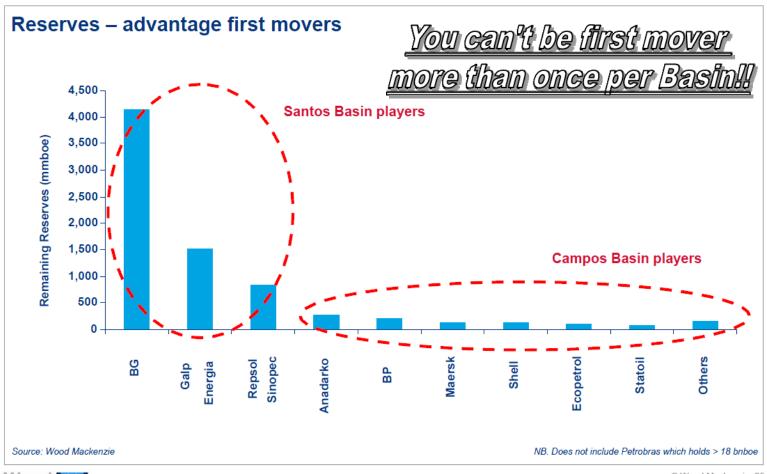
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