



Field Trip November 2011

The Development Project Pipeline

Luis Cabra
MD Development & Production



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A pipeline of Development Projects in Repsol portfolio to feed Upstream future growth



On-going projects





FID: 2009 **Production:** 5 Mm3/d

Carabobo (Venezuela)



FID Pending Production: 200-400 kb/d

Reggane (Algeria)



Prelim.FID: 2009 Pending approval **Production:** 8 Mm³/d

Lubina-Montanazo (Spain)



FID (2009) **Production:** 6 kbd

Margarita-Hua-caya (Bolivia)



FID (2010-11) **Production:** Phase1 9 Mm³/d Phase 2 14 Mm³/d

Guará (Brazil)



FID (2010) **Production:** 120-270 kbd

Cardon IV (Venezuela)



FID Pending Production: 300-800-1,200 Mscfd

Carioca (Brasil)



DoC 2013 Production: 150 kb/d

Start-up 2012 2013 2015-2016 2014



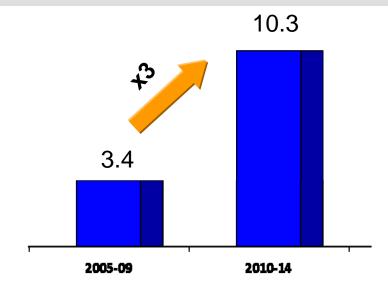




Impact of development projects







- ☐ Development Projects will account for:
 - □ Half of the reserve additions in 2010-2014
 - □ One-third of total production in 2015-2019





Project summary



	Location	First Oil/ Gas date (Forecast)	Production Plateau 100%	Repsol WI %	Operated Joint Operated Non Operated
Margarita Phase I	Bolivia	2012	+210 Mscfd	37,50	Operated
Lubina-Montanazo	Spain	2012	+6 kbpd	100 (L) 75 (M)	Operated
Kinteroni	Peru	2012	175 Mscfd 9 kbpd	53,84	Operated
Guará	Brazil	2013	270 kbpd 400 Mscfd	25,00	Non Operated
Cardon IV	Venezuela	2014	1,200 Mscfd	32,50 *	Joint Operat.
Carabobo	Venezuela	2014	370 kbpd	11,00	Joint Operat.
Reggane	Algeria	2016	290 Mscfd	29,25	Operated

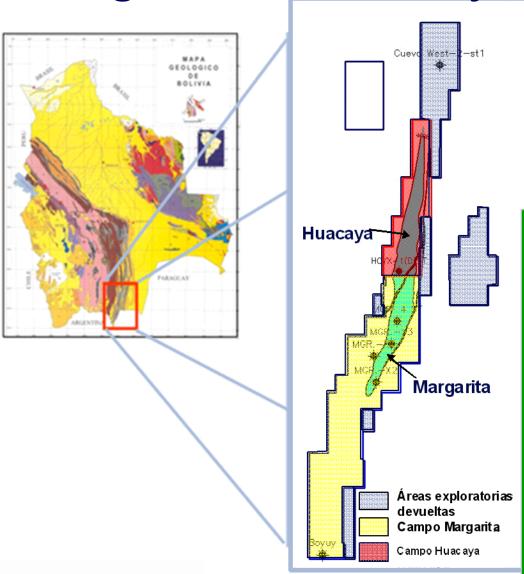
^{*} PDVSA entry of 35% foreseen





Margarita Phase 1 Project Description



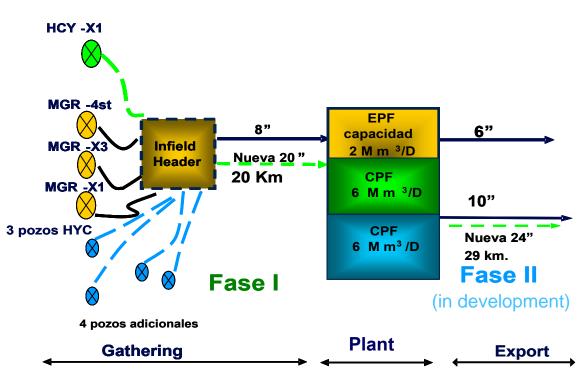


Margarita		
Company	Development &	
Company	Production (wi)	
Repsol	37,50%	
BG	37,50%	
PAE	25,00%	

- Development of gas/condensate field (16% líquids) in SE Bolivia.
- Current facilities capacity: 3,0 Mm³/d (increased from 2,3 Mm³/d in May 11).
- Development unlocked by Gas Sales Agreement and new transport network with Argentina (2010).
- Phase I (+6 Mm³/d) under execution: new module CPF of 6Mm³/d and flow lines to 4 existing wells.
- Phase II (+6 Mm3/d) FID adopted Sept.11: new wells, module CPF, flowlines and compression/pumping

Margarita Phase 1 Technical Scope











Margarita Phase 1 Highlights

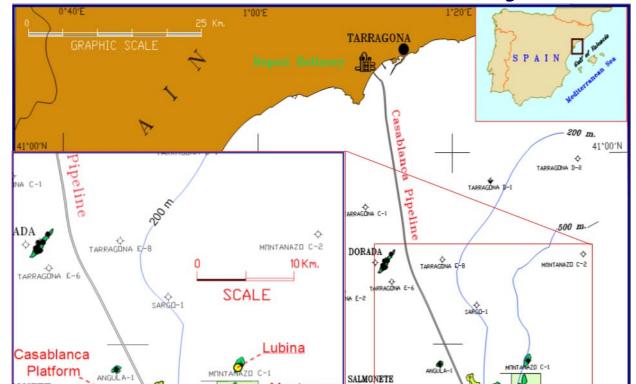


- Current status:
 - First phase progress 70%. First gas April 2012 as planned
 - Capex below budget
 - HSE: LTFI=0, no incidents
- Challenges:
 - Ensure Process Facilities (CPF) completion on time
- Opportunities:
 - Leverage on project resources (management team, local contractors) from Phase 1 to Phase 2
 - Geological quality of asset and related upsides





Lubina & Montanazo Project Description



Montanazo

ONETE



Montanazo		
Company	Development & Production (wi)	
Repsol	75,06%	
Gas Natural	17,68%	
CEPSA	7,26%	

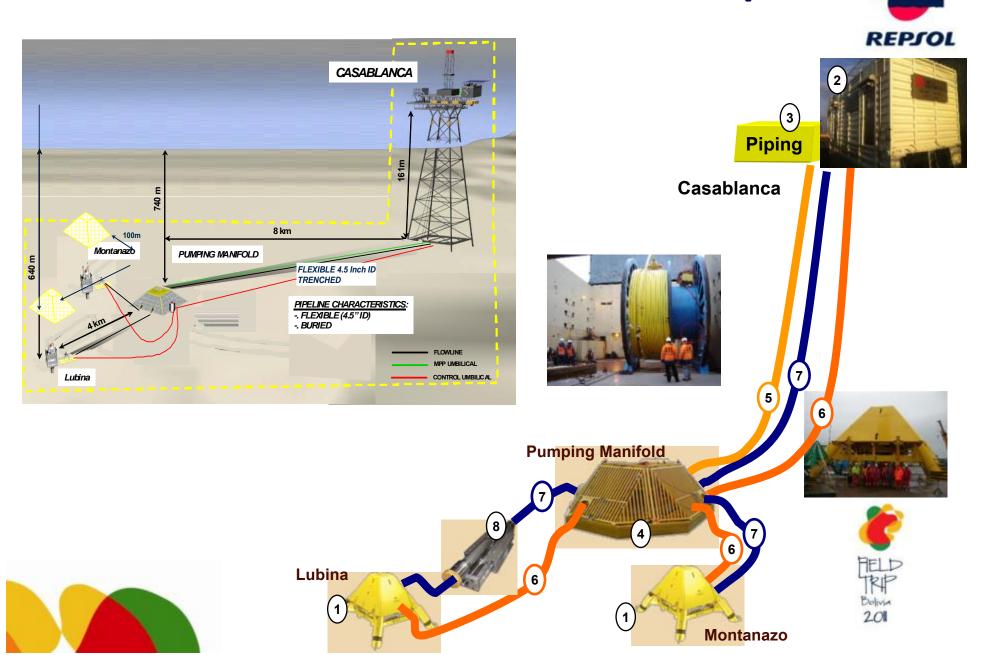
Lubina		
Company	Development &	
Company	Production (wi)	
Repsol	100%	

- Development of the Lubina & Montanazo fields discovered in 2009
- Located 3 km from Casablanca existing field and platform, 43 km off
 Spain SE Med coast

40°40'N



Lubina & Montanazo Technical Scope



Lubina & Montanazo Highlights

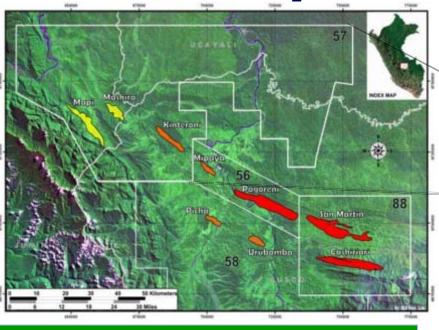


- Current status:
 - 83% progress, all platform activities completed. Subsea works on-hold due to delay in enviro permit (project delay foreseen: one year)
 - HSE: LTFI= 0, no incidents
- Challenges:
 - Obtain enviro permit and start operations in oct.2012
- Opportunities:
 - Extended life of a mature asset that was nearing abandonment
 - High economic return even with delay due to very favourable contract/fiscal regime in Spain



Kinteroni Project Description

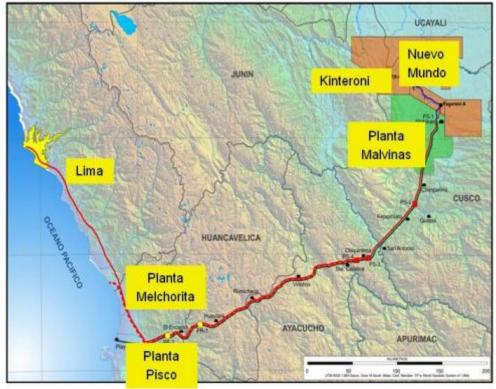




Block 57

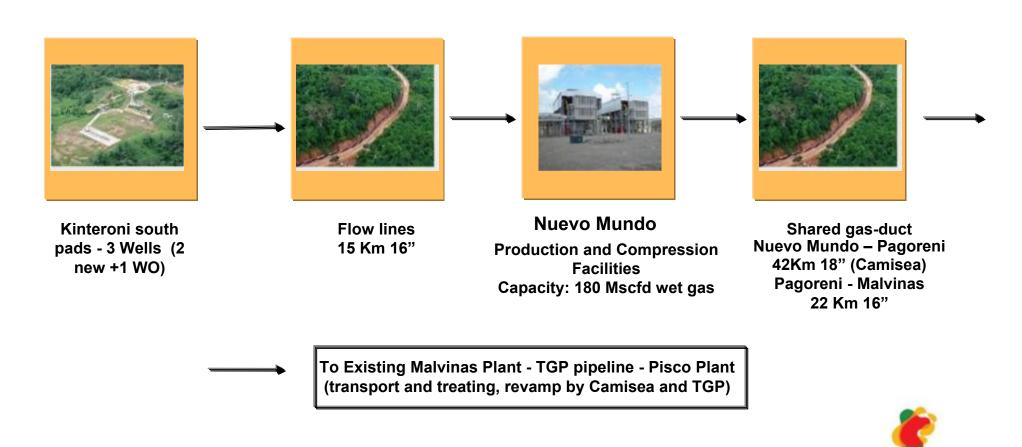
Kinteroni		
Company	Development &	
Company	Production (wi)	
Repsol	53,84%	
Petrobras	46,16%	

- Kinteroni field discovered in January 2008 in Block 57. Early development of Kinteroni South (5M m³/d gas and associated liquids) by making use of existing transport and processing infrastructure (Malvinas, Pisco).
- Further exploration and appraisal of the north zone already initiated.
 Block 57 also contain Mapi and Mashira prospects.



Kinteroni Technical Scope







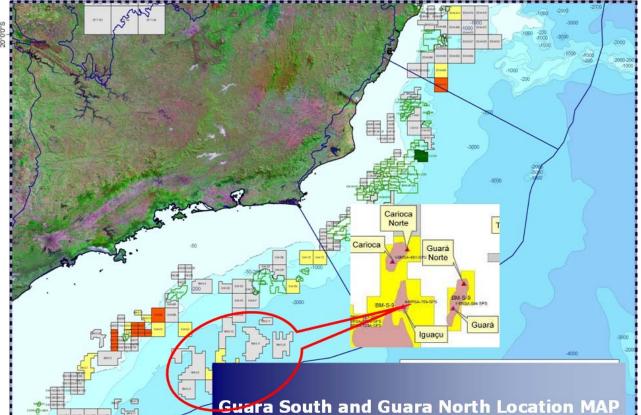
Kinteroni Highlights



- Current status:
 - Physical progress 50%. Project on schedule and on budget
 - HSE: LTFI=1.0, no incidents
- > Challenge:
 - Ensure third party projects are completed on time for first gas
- Opportunities:
 - Sinergies with other Repsol gas assets in Peru (Camisea, Perú LNG)
 - Further development of Kinteroni field and new prospects



Guara Project Description





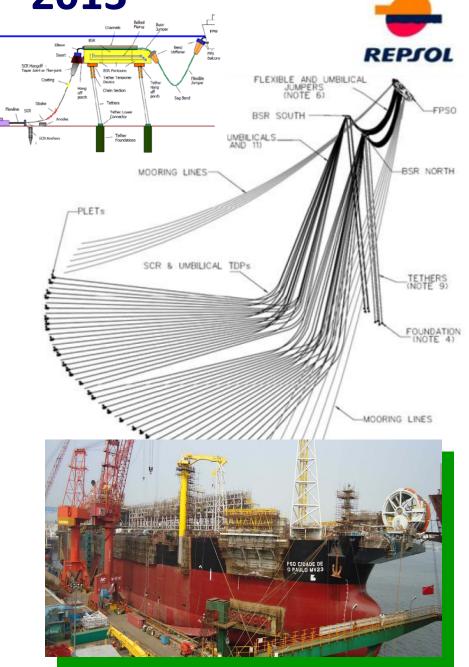
Guará		
Company	Development &	
Company	Production (wi)	
Repsol-Sinopec Brasil	25,00%	
Petrobras	45,00%	
BG	30,00%	

- Block located 310 km offshore deep water in Santos Basin
- Development plan of Guara field discovered in 2008: first oil 2013 120 kb/d, reach plateau in 2015 270 kb/d. Crude oil 27-28°API. 16% (in Mboe) of associated gas
- Gas evacuation by connection Guara (block S9)-Lula (block S11)



Guara Technical Scope - 2013

GUARA PILOT	
FPSO	Cidade de São Paulo
WD FPSO	2.140 m
Capacity	
Oil	120.000 bpd
Gas	5 Million m³/d
Oil density	30° API
	6
Production Wells	(+ 2 temporary)
Injection Wells	5
	(+1 temporary)
WD Wells	2.144 m
Gathering System	New technology:
	Decoupled Riser System
	Oil → Offloading
Export System	Gas→Export + Consumption +
	Injection
Gas export	
pipeline	Guara-Lula
	18" 54km 28mm WT



Guara Technical Scope - 2015



GUARA NORTE PD	
FPSO ("Plan B")	Cidade de Ilhabela
WD FPSO	2.140 m
Capacity	
Oil	150.000 bpd
Gas	6 Million m ³ /d
Oil density	29° API
Production Wells	8 (+ 2 temporary)
Injection Wells	7
WD Wells	2.119 to 2.193 m
Gathering System	Unique technology:
	Decoupled Riser System
Export system	Oil → Offloading Gas→Export + Consumption + Injection





Guara Highlights



Current status:

 Project on-schedule by operator. Ramp-up to reach 120,000 bpd in 2013

HSE: LTFI=0.4

- Challenges:
 - Market saturation and local content requirements
 - Repsol and partners have effectively promoted "Plan B" for 2nd FPSO (by Modec) and for Decoupled Riser System (at least two conventional flexible risers)
- Opportunities:
 - Participation in one of the biggest Brazilian crude oil developments



Cardon IV Project Description





Cardon IV		
Company	Development &	
Company	Production (wi)	
Repsol	32,50%	
ENI	32,50%	
PDVSA	35,00%	

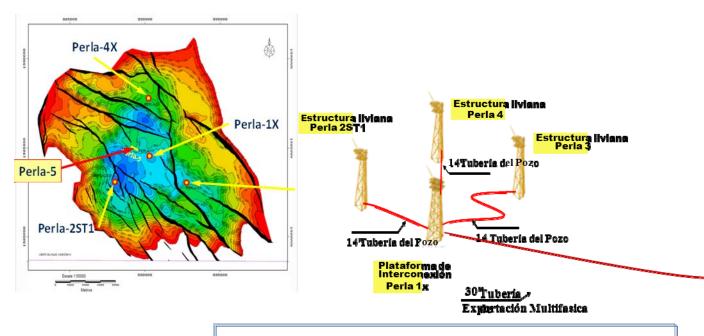
PDVSA entrance planned at DoC

- Perla field discovered in Oct 1999, dry gas recovery of 8 TCF as per Development Plan, plus additional volume development potential.
- Development in 3 phases (300-800-1200 Mcfd). FID phase 300 planned by end 2011 after Gas Sale Agreement and DoC.



Cardon IV Technical Scope







- 1 4-leg Central Hub for 6 wells
- 3 tripod Satellites (Max. 6 wells each one)
- Flow lines 14" to Central Hub
- Sub-sea multiphase duct (62 Km) 30"
- Onshore gas treatment plant (modular 300-800-1200)
- Wells:

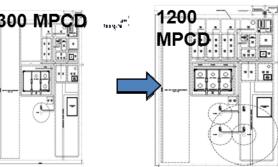
Phase 300 = 5-6

Phase 800 = 13 additional (19 total)

Phase 1200 = 7 additional (26 total)

Compression (from 2025 on)





Cardon IV Highlights

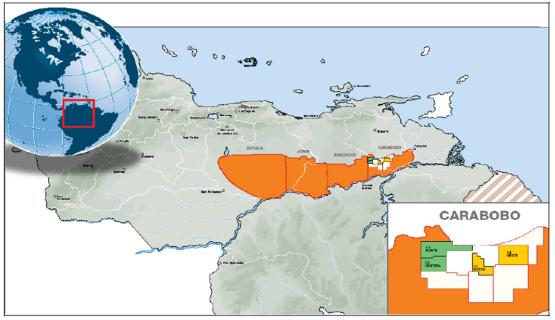


- Current status:
 - Phase 300 progress 35% (5 wells drilled, FEED completed, EPC ITB's ready)
 - Termsheet for Gas Sales Agreement (GSA) signed. GSA and Declaration of Comerciallity expected before year end
 - HSE: LTFI=0.5, no incidents
- Challenge:
 - Close follow-up of local demand evolution to match with timing of project phases and likely export project
- Opportunities:
 - Participation in a huge gas field development with future reserve and production upsides





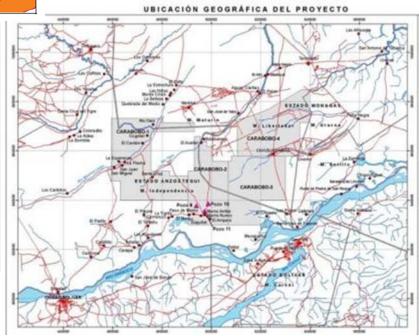
Carabobo Project Description





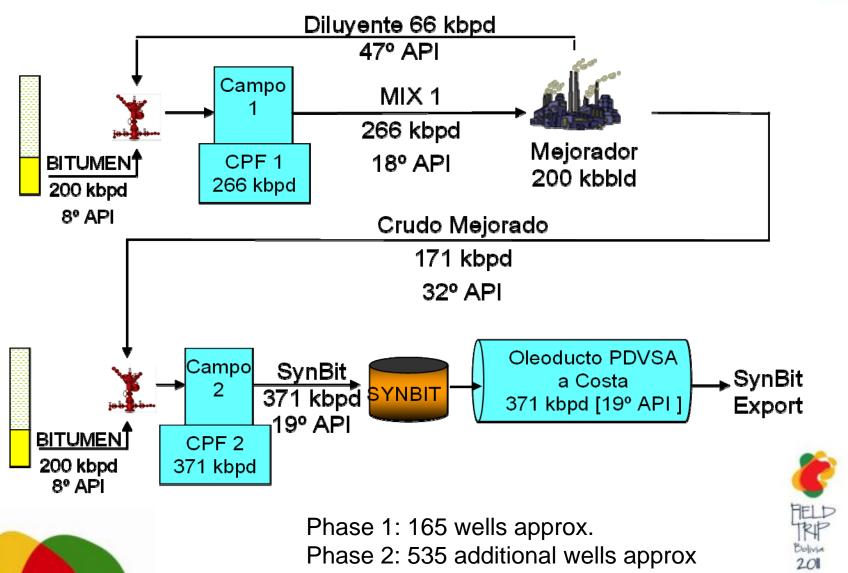
Carabobo		
Company	Development &	
Company	Production (wi)	
PDVSA	60,00%	
Repsol	11,00%	
ONGC VIDESH	11,00%	
PETRONAS	11,00%	
OIL INDIA Ltd	3,50%	
INDIAN OIL Corp	3,50%	

- Extra heavy oil production 8°API (400 kbpd) in two fields.
- Early production 2014 diluted with light crude (up to 200 kbpd XH oil). Pursuing acceleration of 10-60 kbpd using existing infrastructure.
- Construction of a crude upgrader to produce in 2017-18 syncrude crude of 32 °API (input=200 kbpd XH oil; output=171 kbpd). To be mixed with 200 kbd XH oil to obtaain 371 kbpd 19°API.
- Repsol off-take of up to 165 kbbl/d for Repsol refineries in Spain.



Carabobo Technical Scope





Carabobo Highlights



- Current status:
 - Project in conceptualization phase. Proceeding with preFEED activities and award of seismic and stratigraphic wells for early production.
- Challenges:
 - Match with other infrastructure Projects by PDVSA
 - Project Management
- Opportunities:
 - Presence in one of the largest crude oil reserves in the World





Reggane Project Description



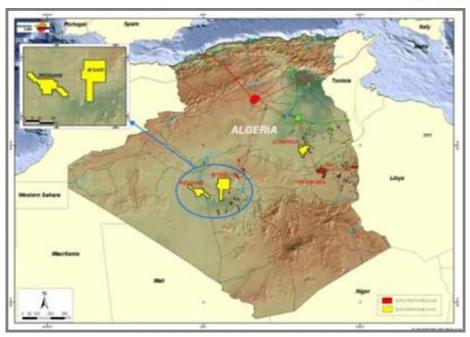
Company	Exploration (wi)	Development & Production (wi)
Repsol	45%	29.25%
RWE	30%	19.50%
Edison	25%	11.25%
SH	-	40.00%

Development Plan 2009

Reserves 1.7 tcf

Approval estim. 2010

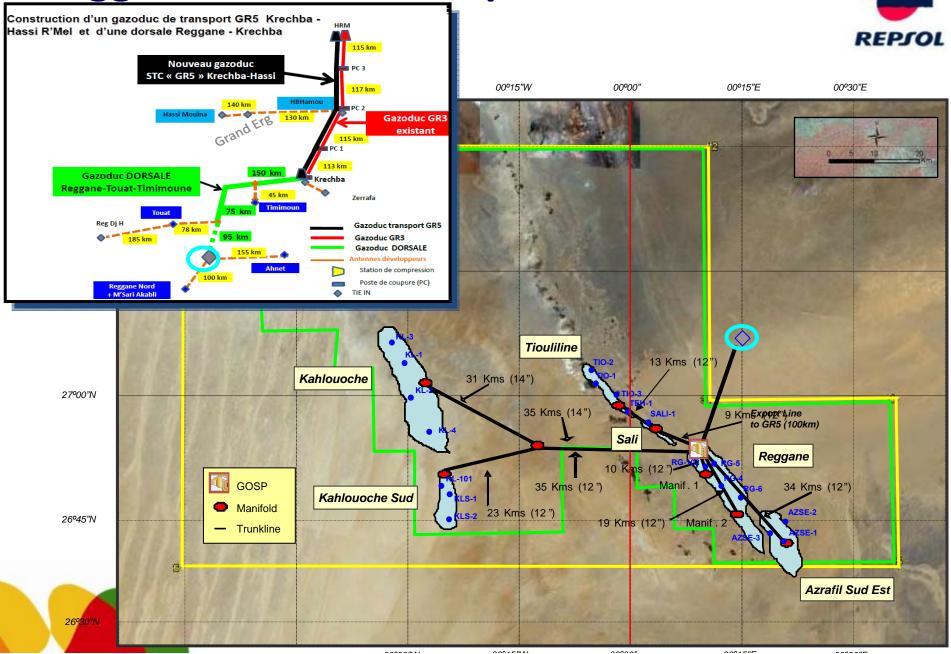
First Gas estim. 2014



- Development of 6 dry gas fields discovered between 2005 and 2009. Early FID by Repsol in Dec. 2009 after gas sales agreement to propose Development Plan.
- Scope: Intensive plan of development wells and surface facilities connecting to gas trunkline of SH.



Reggane Technical Scope



Reggane Highlights



- Current status:
 - Project Conceptualization phase completed, ready to launch Definition phase (FEED). First gas 2016
- Challenges:
 - Get approval of Development Plan before year end, as expected
- Opportunities:
 - Increase our presence in gas supply from Algeria, a key gas source for Spain





Our people



Bolivia Peru Venezuela Spain Algeria Brazil Lubina & Kinteroni Margarita Cardon Carabobo Reggane Guara Montanazo **Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager Project Manager** Staff Staff 80 Staff 12 Staff 76 Staff 85 Staff 8 Staff 20 98 (32 (42 (shadow Repsol) team) Repsol)

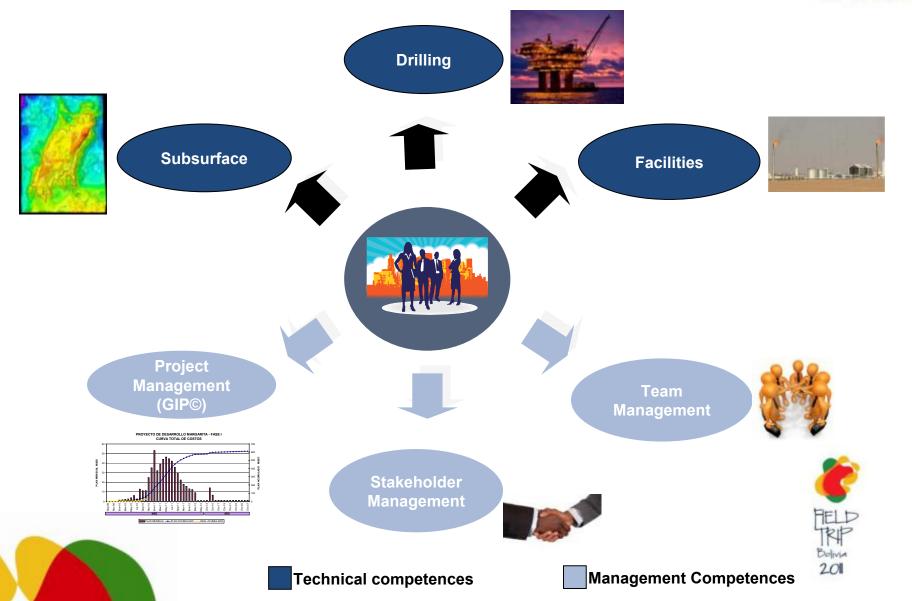
- Ad-hoc project organization
- Intensive recruitment and rotation to projects
- Reinforced training in technical and management competences





Technical and management competences.



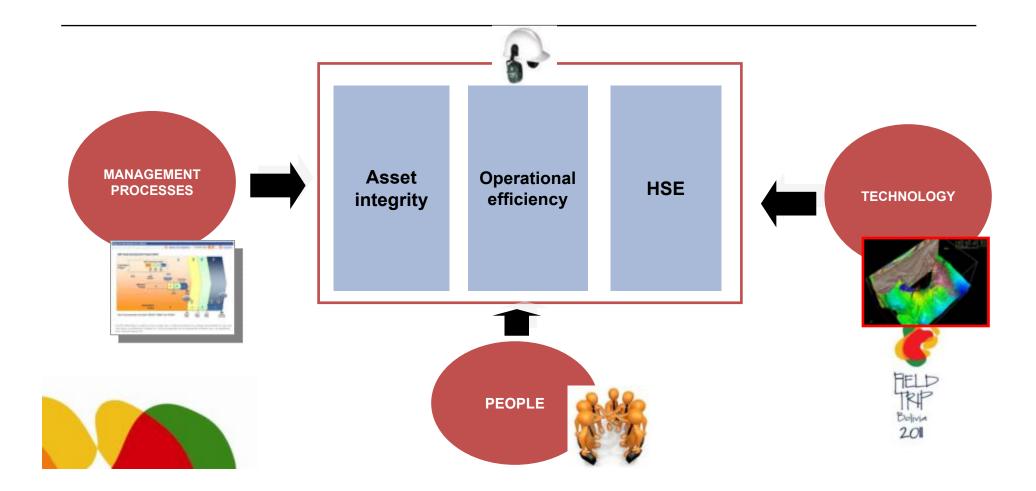


...and now moving to reinforcing Operations Management



TARGETS





Excellence in operations: the PISA project

- ➤ The PISA project: **P**roduction **I**ntegrity and **S**afety **A**ssessment
- Launched in 2011 for all Repsol-operated production assets and selected joint operations
- Identify, plan and resource improvements in:
 - Asset physical integrity
 - Gap operation vs design window
 - Updated and quality operating procedures and manuals
 - Technical standards and specifications in place
- > Action plans for 2012 approved and resourced





Concluding remarks



- Projects already in the pipeline to ensure growth in reserves and production
- Organization and project management practices in place
- Intensive recruiting and training done to staff projects
- Projects on schedule and on budget to start delivering new production from 2012







Analyst Trip November 2011

The Development Project Pipeline

Luis Cabra MD Development & Production



