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## 1. Remarks about BOLIVIA Plurinational State of Bolivia

- Independent since 1825
- Population: 10.4 Million people
- The last 20 years it has been a democratic country.
- Evo Morales, the first indigenous president elected in 2005 and reelected in 2009 with 64% support, and now he is going for a third period.
- In January of 2009 the New Plurinational State of Bolivia was founded and a new Constitution was enacted (Integrating 36 indigenous communities)
- Organized in 9 departments (provinces), whose governors are directly elected



### **Economical & Political Data** (1)

GDP 2013(p) → \$29.5 billion

GDP Growth rate (p) → 4.8 % Unemployment 2013 (p) → 5.4%

External Debt 2012 → \$4.3 billion

### Oil and Gas data

Total Production

Internal consumption

→ 457.6 KBOE/d <sup>(1)</sup>
→ 126 KBOE/d <sup>(1)</sup>

→ 51.4Mm3/d <sup>(1)</sup>

### **E&P Main Operating Companies**

YPFB Andina BG Bolivia

Petrobras PAE

Total YPFB Chaco



## 2. Repsol in Bolivia

- Present in Bolivia since 1997.
- Suscribed 6 Operation Contracts.
- Owner of 48.9% of YPFB Andina S.A (the biggest oil company in Bolivia), including:
  - 21 Operation Contracts.
  - 24.5% of Rio Grande Plant, gas compression service to Brazil market.
  - 21.8% of Transierra S.A, gas transportation service to Brazil market.
- Working force : 265 people
- Indirect employment : more than 3,000 people











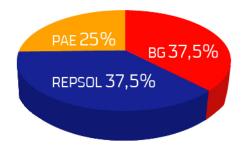
## 3. Caipipendi Block Background

**Challenging project** 

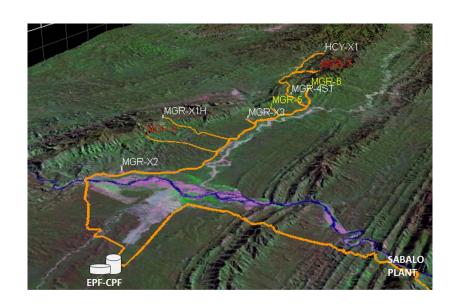
Geologically complex

Remote location

Indigenous communities

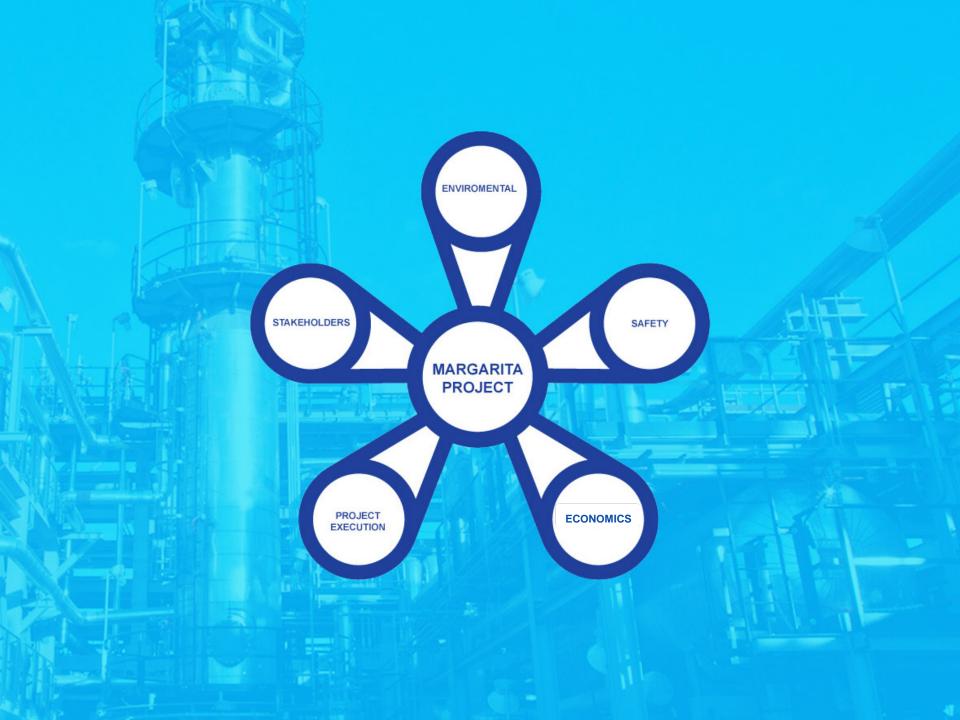


- Operated by Repsol in the Caipipendi Consortium with Partners BG and PAE.
- 7 wells drilled and 3 Huamampampa reservoir repetitions discovered.
- Original Processing capacity 2.3 M m3/day, expanded to 3.0 M m3/day in May 2011.
- Two pipelines, 10" and 24", connect Margarita to Sábalo, operated by Petrobras, where production is delivered to the national transporter.



Current daily production:

- 15 MM m3/day of gas
- •20,500 Bpd of liquids





## **VISION**

To execute the most technical and economical efficient gas field development project in Repsol

## STRATEGIC OBJECTIVES **SUBSURFACE DRILLING AND SURFACE BUSINESS INSTALLATIONS TECHNOLOGY** To capture and develop To identify and apply Maximize value generation the commercial available the necessary reservoir within Bolivian political knowledge to optimally context and complying with technologies to reduce develop the field. drilling, completion and the contract regulation. surface facility costs.





## STRATEGIES FOR PROJECT EXECUTION

### CONTRACTORS

- EPC Lump Sum:
  - Main contractors international,
  - Local subcontractors.
- Safety Indicators highly weighted in technical evaluation.
- Repsol's community relations policy as a basis to work.
- "Shock wave" hiring strategy based in local man power hiring.

## RESERVOIR STRATEGY

- Reservoir model quantified by risk and reliability.
- Improve deep Seismic interpretation.
- Fracture system modeling.
- Identify applicable secondary recovery process.

### **WFLLS**

- Well design and completion for maximum productivity and recovery.
- Evaluate CO2 impact in well completion.
- Systematic process evaluation for cost reduction.

## **SURFACE FACILITIES**

- Modular facilities to adapt growing production milestones.
- Flexibility for down and up sizing.
- Full process and field management automation for appropriate data collection, surveillance and monitoring.
- Promote synergies with external stakeholders.

PEOPLE PROTECTION, FACILITIES INTEGRITY AND ENVIRONMENT PRESERVATION



### 2011

BASE

Installation of the EPF2.3MMm3d (activities 1997- 2004) with a revamp to 3.0 MMm3d in 2011

## 2012



6MMm3d processing module, for monetizing 2012 associated reserves of existing wells.

# 14,0 12,0 10,0 10,0 PHASE I 1P 4,0 4,0 0,0 PHASE I 1P 4,0 2,0 0,0 PHASE I 1P 4,0 PHASE I 1P

RESERVES					
MGR & HCY TOTAL	OGIP BCF	OOIP MMbbl	Sale Gas BCF	Condensate MMbls	
1P	5.103	168	2.548	84	
2P	7.252	239	4.239	140	
3P (EUR)	12.560	414	7.420	245	

2012 CERTIFIED by



### 2013



- 6MMm3d module.
- Target: to 15 MMCD October 2013.
- Plateau Maintenance Well Drilling Activities. (as needed and expected by 2020).



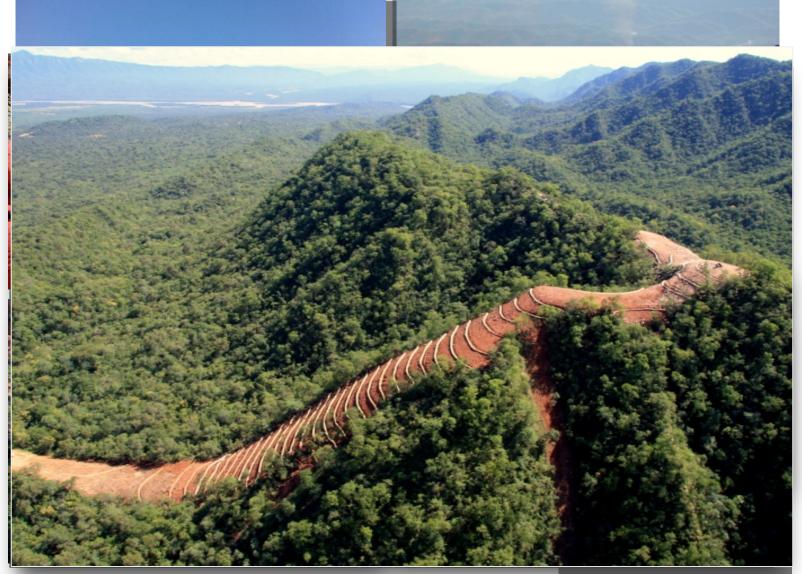




## 4. Project Execution and Third-party Valuation Pipelines



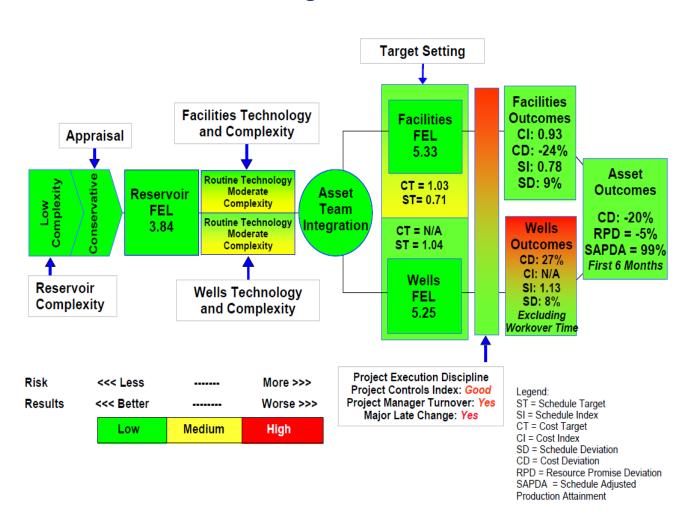






## 4. Project Execution and Third-party Valuation BENCHMARK – IPA Consulting

Good drivers translated into good outcomes:



Best (3-4,75)

Good (4,75-5,75)

Regular (5,75-6,75)

Fair (6,75-7,75)

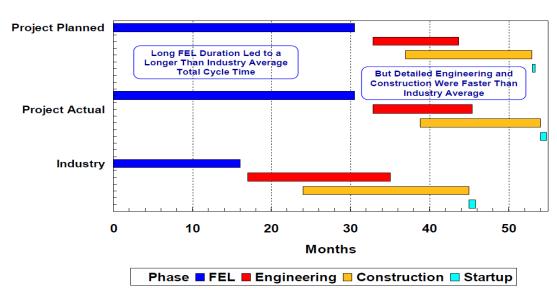
Screaning (7,75-12)

12 GIP events: PR y



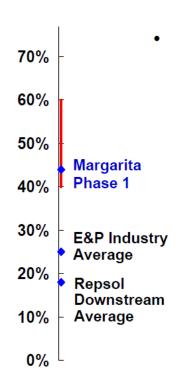
## Lessons to replicate:

## Total Cycle Time Margarita Phase 1 Project



## • IPA Consulting conclusions on the project:

- Good management of Stakeholders
- Disciplined application of the methodology and practices GIP and increase in Value
- Detailed Planning of Project Execution
- Good definition of FEL leads to good results Reservoir Operations



## Percentage of Opportunities

(Red line represents recommender range of VIPs use)



## **5. Economics of the Project Margarita Project Gross Investment**

Margarita Project Investment

Margarita Development Project	Cost estimate USD	
HSE	18.793.011	
CCRR	15.373.019	
DEVELOPMENT	51.103.609	
WELLS	392.720.296	
SURFACE	782.368.838	
TOTAL	1.260.358.773	





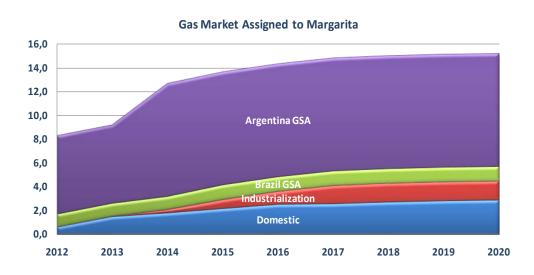
## **5. Economics of the Project Productivity**

- Margarita 6 well produces six million cubic metres of gas a day and becoming the most productive well in the whole Sub-Andean basin.
- A series of new technologies have been used during the work on the well to optimize drilling times and guarantee a longer useful life, estimated at 20 years:
  - Seven-inch diameter pipes were used to allow the production of high gas flows without risk of erosion.
  - Furthermore, they are manufactured with Cr13 steel which protects the installation from the effects of corrosion caused by the carbon dioxide in the gas.





## **5. Economics of the Project Most Favorable Markets in the Region**







## STRATEGIES FOR PROJECT EXECUTION

### **E&S Planning**

Safety and environmental strategies, plans and resources. Corporate Safety and Environmental standards.

### Monitoring and assessment of E&S performance

To ensure that the Project's E&S performance is evaluated systematically, and that the required continuous improvement actions are put in place.

### Stakeholders Relations

To ensure effective interaction with the Company's internal and external environment and interest groups on issues relating to Safety and the Environment, taking their needs and demands into consideration.

### **E&S Risk and Impact Management**

To ensure that the level of risk and impact are identified, assessed and controlled in order to prevent and mitigate the consequences.

### **Incident Management**

To communicate, register and investigate incidents according to Company criteria in order to ascertain the cause.

### **E&S** audit

To check how E&S risk and impact is identified, evaluated and controlled to define corrective actions

## Corrective actions and lessons learned management

To check the effectiveness of corrective actions defined and carried out in order to avoid repetition.

To identify, draw up and disseminate lessons learned in order to enhance understanding of risks and how to control them, and so avoid repeating events.



- Emissions Reduction Project
- Repsol Bolivia, made investments in equipment and facilities, as well as changes in the implementation of the well testing, in order to recover some of the gas and direct it safely to the Margarita processing plant, thus minimizing the volume of gas burned.
- This project was first implemented in the MGR-5 and MGR-6 wells, having recovered over 300 MMPC of gas, which is equivalent to reducing the emissions in 20.588 t of CO2. This represents 35% of total emissions for the whole Margarita Field in 2012.

- Recomposition-restitution of land for pipelines route.
- Landscaping, recovery of native species.
- Recovery of gray and black waters.
- Thermal integration.
- Efficient and low-emissions combustion.





## Safety Management Main aspects

- Emergency Response
- Emergency response plan for each project component
- Over one hundred drills,
- Specialized rescue emergency group for working at height and steep slopes pipeline construction.

## **Contractors**

- Bidders prequalification considering E&S criteria,
- E&S requirements on bidding package
- Contractors E&S management, audits and inspections

## **Integrated Project Management**

- E&S deliverables on each phase of the project
- technical reviews to ensure that risks have been properly identified, evaluated and controlled.

## Permit to work

 Over one hundred thousand permits approved with the associated job safety analysis and toolbox talks.

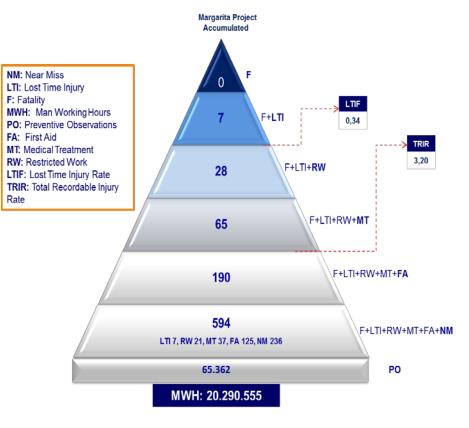
## Land transport management

- Over five thousand truck journeys inspected and escorted,
- Route hazard assessment,
- In vehicle monitoring system as a contract requirement,
- Drivers and vehicles assessment,
- route speed control,
- Safety campaigns in the local communities





MAIN INDICATORS				
7 Lost Time Injuries	LTI FR: 0.34	Zero fatalities		
370,000 Hours Owner PMT	20 million Hours Worked	18,813,674 km traveled in the field		
100,000 permits to work issued	100% Incidents investigated (176)	3,800 peak workers on site		
100% Improvement actions implemented (486)	120 Thousand hours of safety training	21 safety stand downs		



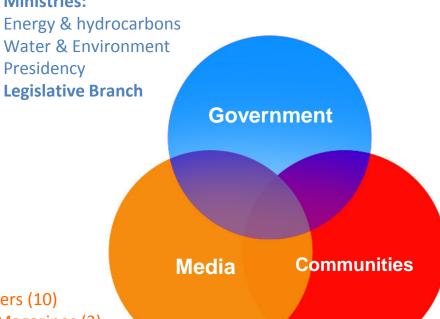


## 7. Stakeholders

## Our community relations & social responsibility

## Government

National Government Local Governments Ministries:



## **Communities**

National APG\*
Palos Blancos Huacaya
Ancahuasu Villa Mercedes
Entre Ríos

## Media

Opinion Leaders (10) Especialized Magazines (3) Newspapers (5)

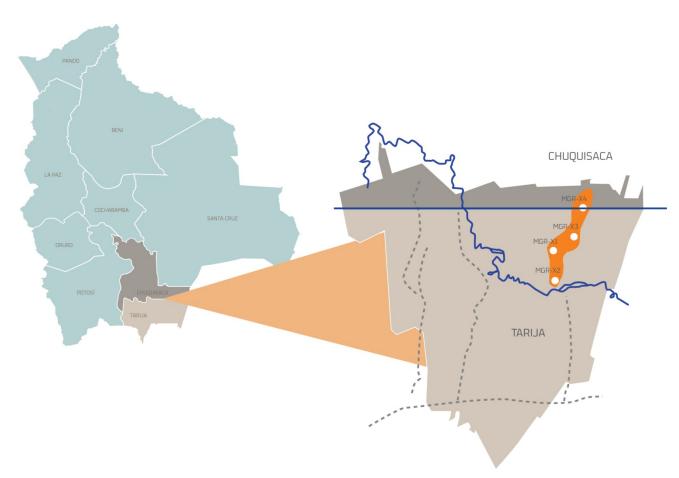
News Agencies (5)

Radios (10)



## 7. Stakeholders Map of communities

The Margarita Field is within the Autochtonous Community Territory (TCO), belonging to the **Guaraní People** Assembly of the Itika Guazu (APG IG). The Assembly unites 3 Zonal "Capitanías", distributed in three zones and 36 Communal "Capitanías", where 965 families live. Communities nearer to our operations are: Itaparara, Kumandaroty, Yuati and Zapaterambia.





## 4. Project Execution and Third-party Valuation: Communities Realationship

Repsol Bolivia, manages its relationships with communities following the following Repsol guidelines:

Community Relations Policy.

Policy on relations with indigenous communities.

Repsol Bolivia has a social management system oriented in three strategic guidelines:

- Social Impact Management
- Contribution to local well-being
- Stakeholder Engagement

## Tools:

- Training guidelines on management of social issues
- Assessment and monitoring of social corporate standards.
- Grievance mechanisms procedures







## 7. Stakeholders Local content

- As stated on the Operation Contract, Repsol gives preference to Bolivian personnel.
- Foreign personnel hired by the companies participating in the project cannot exceed 15%.
- Repsol's "shock wave" hiring strategy consists of hiring first personnel from the communities where there is a "direct influence" (those closer by), and then as more personnel is needed, it is hired from communities further away where there is an "indirect influence".
- In case there was an area where the required specialization was not found, it is looked for in other cities or, if necessary, it will be hired internationally, always keeping in mind the 15% maximum allowed.





## **Conclusions**

Margarita-Huacaya Project, was safely on stream, on time, completed with a 12% reduction on the original estimated budget and with a throughput far exceeding original expectations.

Logistic issues and local constraints challenges were overcome to comply with the tight project schedule, enabling the delivery of gas and condensate production as per the Development Plan approved by the Bolivian authorities.

Several factors contributed to the project success: good subsurface definition, detailed execution planning, rigorous gatekeeping and project management processes, project team integration, disciplined change management, good management of external stakeholders, etc.

Efficient multinational Team Integration (76 people) and High Project Management standards (Safety, Scope, Quality, Cost and Schedule) resulted in a Project complying with all the objectives established; excellence was confirmed through an external benchmarking developed by IPA.





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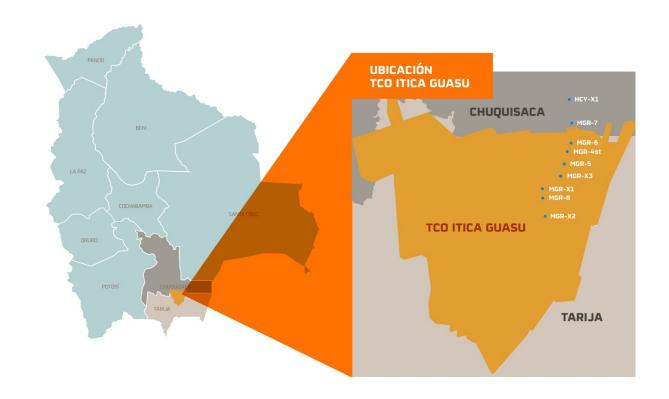
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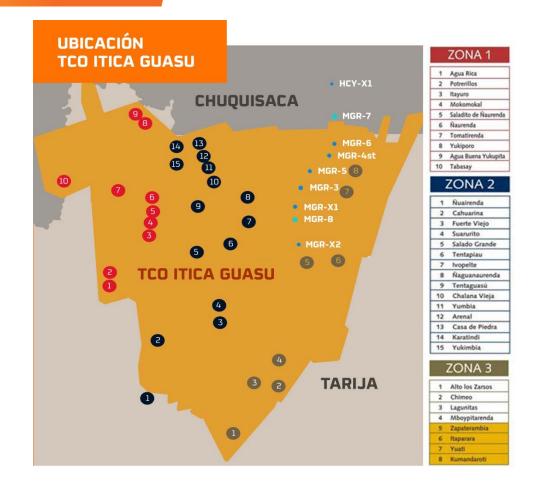
The Margarita Field lies within the 'TCO' Original Community Territory, belonging to the Assembly of the Guaraní People of Itika Guazu (the 'APG IG').





Area of influence of the Project/Division of the TCO IG

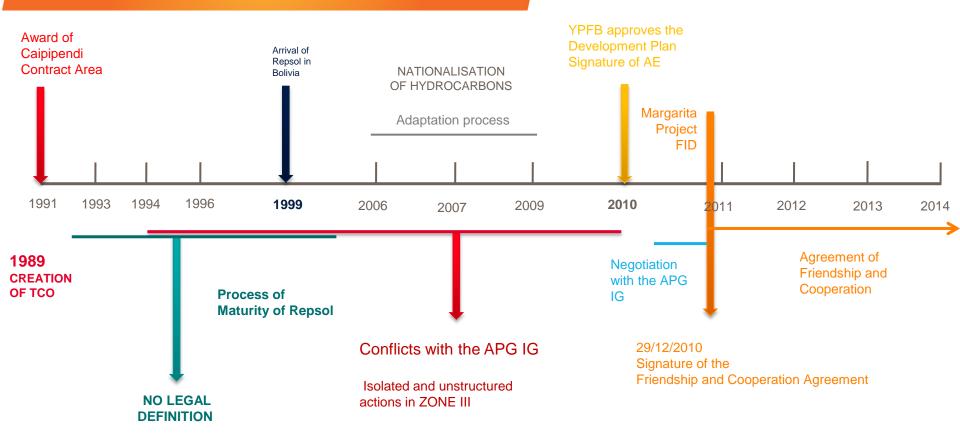
Within the area of influence of its operations, undertaken in the area of the Caipipendi Contract, the location of the Margarita and Huacaya fields, Repsol Bolivia currently has a relationship with indigenous and native communities.



## Pencel APC IC historic relationship

## Repsol - APG IG historic relationship

## Background



1989 - Approval of ILO Convention 169

1992 - Adhesion of Bolivia

2005 - Incorporation within the HC Act



## Identify the key

## **Building Trust**

Process of Consultation and Participation

Projects locked in the hands of the "PIOs"\*

No right of veto

Regulations do not facilitate or develop the process

Outcome of the Consultation and Participation process:

- Identification of socio-environmental impacts not detected in the EIS
- Agreement validation process
- Negotiation of compensation/Intangibles/what is the value?

- State

Company

Challengin process

Real objective of the "PIOs"

Social investment:

- Define their development model
- Achieve protagonism:
  - Define the programmes
  - Execute the programmes
  - Administer the funds

<sup>\*</sup> PIOs: Indigenous and original peoples

## Historical APG IG relationship

Background of the Agreement

Difficulties were encountered at the outset of negotiations as there were issues pending resolution, while the future demands were not solidly established or structured. Action was furthermore expected in the area on the part of Repsol which was not appropriate for the company's role.

In May 2010, the APG IG showed more flexibility when Repsol presented a negotiation strategy suggesting that the issues be separated out into:

- 1) Pending Compensation, Indemnification and Remediation (CIR);
- 2) Process of Consultation and Participation (PCP) and
- 3) Friendship and Cooperation Agreement (AAC), during the Development Plan approved by YPFB.

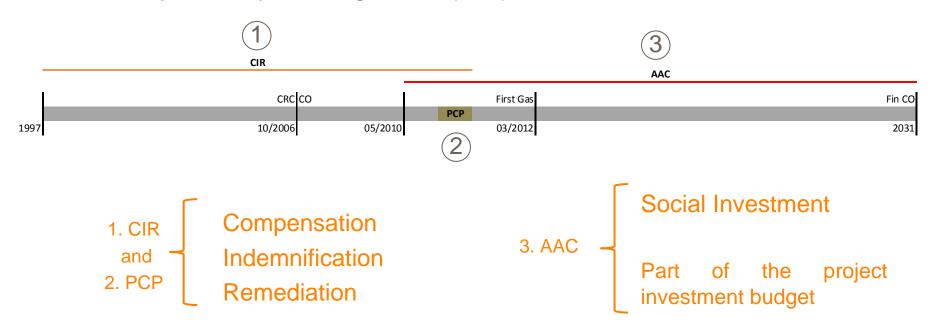
In negotiating the agreement, the APG ING designated the international organisation Nizkor\* as legal and financial adviser of the APG IG for the negotiation and implementation of the Agreement, and for financial negotiation and implementation of the "Itika Guasu Investment Fund" resulting from it.

<sup>\*</sup>Nizkor is an international organisation working for the respect and promotion of human rights. Its involvement as legal and financial adviser is the consequence of a formal agreement between the APG IG and Equipo Nizkor in place since 2006, which was ratified and extended by the Assembly of 1 December 2010.

## Strategy

## in accordance with the project timeline

- 1. Pending Compensation, Indemnification and Remediation (CIR).
- 2. Process of Consultation and Participation (PCP).
- 3. Friendship and Cooperation Agreement (AAC).





## Definition of a long-term agreement

## A milestone in the industry (20 years)

The agreement includes the following:

- Creation of a development fund for the APG IG (AAA +)
- Contribution of 13.5 M USD to the Development Fund
- Capital fixed for 10 years
- The interest accruing on the fund will be freely available to the APG IG and use will be allocated to development projects defined by the APG IG Council of Wise Men.
- The commitment in the Agreement on the part of the APG IG is to facilitate, promote and not interrupt operations for the development of the Contract Area.
- Additional payment of 2 M USD connected with compensation for the new environmental licensing (2 licenses)
   required by the project, and recognition of the 9 past licences already obtained, in which the APG IG
   complained that it had not been involved.
- Execution of an independent environmental audit to establish whether there were any tasks pending remediation, establishing the baseline for the future but not involving any further disbursements of monies in favour of the APG IG.
- Factor of 0.75% of the future investment to be made (if any) in social investment.



## Management of the Agreement

- Within the plan for Repsol's relationship with the community, socio-environmental monitoring of the APG IG represents a forum for dialogue and permanent participation between the Guarani community and the company.
- Provided the safety requirements are fulfilled, the delegated APG IG monitors have unrestricted access to those areas where Repsol projects are being undertaken within the Itika Guassu TCO, in order to obtain first-hand information on the activities being performed.
- Periodic meetings are established between Repsol and the APG IG to consider observations and suggestions resulting from the monitoring, recorded in minutes.
- However, the work of the monitors is permanent, and they interact with the Repsol community relations team on a constant basis.
- This circumstance has served to address all concerns of the APG IG during Phase 1 of the Margarita Project, with all observations achieving satisfactory closure.



## Signature of the Agreement

Consolidation of a new relationship structure

On 29 December 2010 the Friendship and Cooperation Agreement was signed by the APG IG and Repsol Bolivia.







## **Conclusions**

The essential aspect to manage the relationships with the indigenous communities is trust. Such trust is built by:

- Permanent and direct dialogue
- Genuine interest to learn and understand the cultural differences
- Constitute teams with suitable members to carry forward the relationship processes.
- Company support at the highest levels of the organization:
  - » Policies and procedures to guide the action with communities
  - » Budget approval
  - » Proper human resources allocation to support the community relations structure.

## **THANK YOU**

