## **Investor Presentation** Colombia Inside Out



Picture: Chuchupa Field





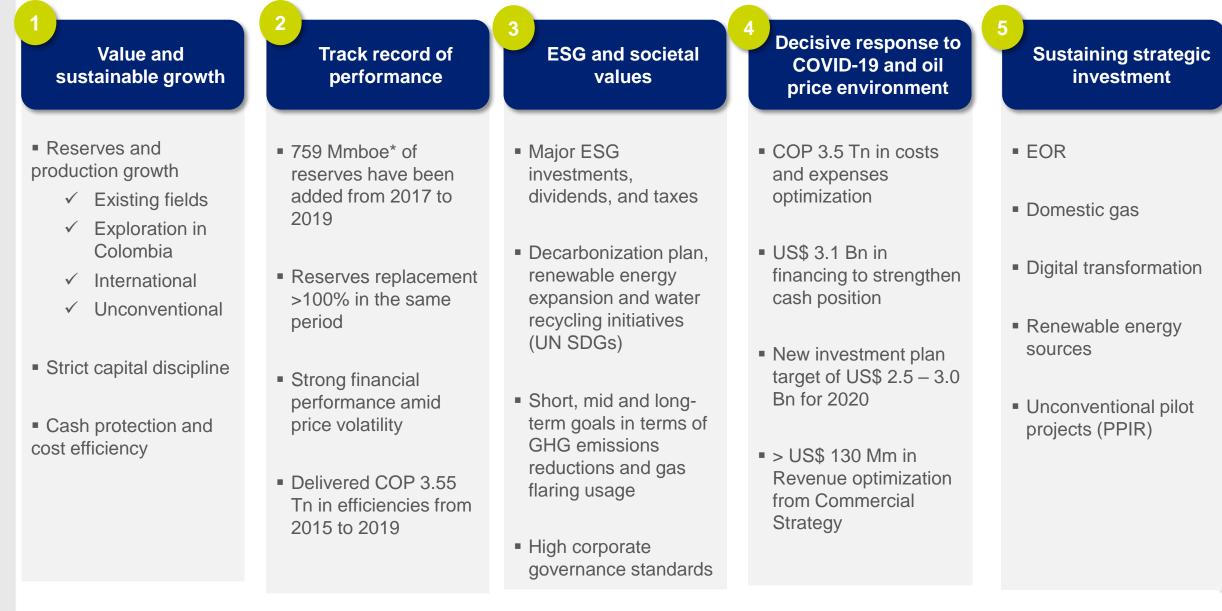
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## Summary



## Life ensures business continuity

## RESPONSE PLAN COVID-19



#### Leadership

- COVID-19 Crisis Committee
- Health Response Committee
- Diagnostic tests at Barrancabermeja Hospital

#### **IT Management**

- Secure digital connection for +9,000 employees
- Chatbot to determine risk of contagion
- CoronApp\*\* for self-diagnosis

#### **Occupational Health - Labor**

- Operation with "minimum viable personnel"
- Isolation of workers with pre-existing health conditions
- INS\* visits to refineries

#### **Supporting the Country**

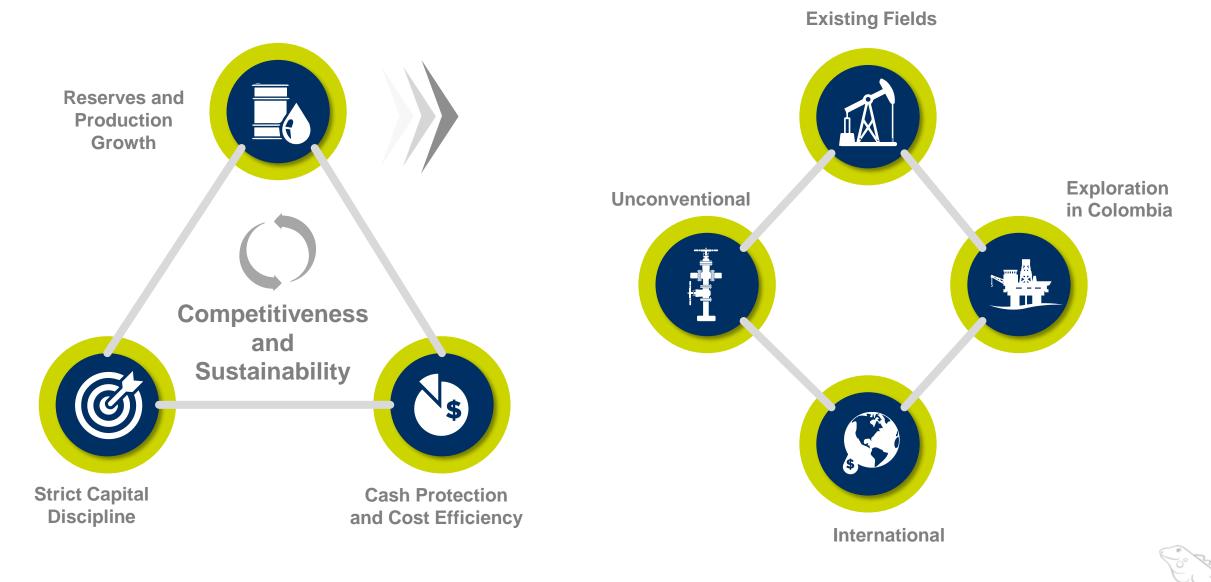
- Supporting the local industry
- Voluntary employee contributions
- Strengthening of the Country's healthcare system and humanitarian aid

\* Instituto Nacional de Salud (National Health Institute)

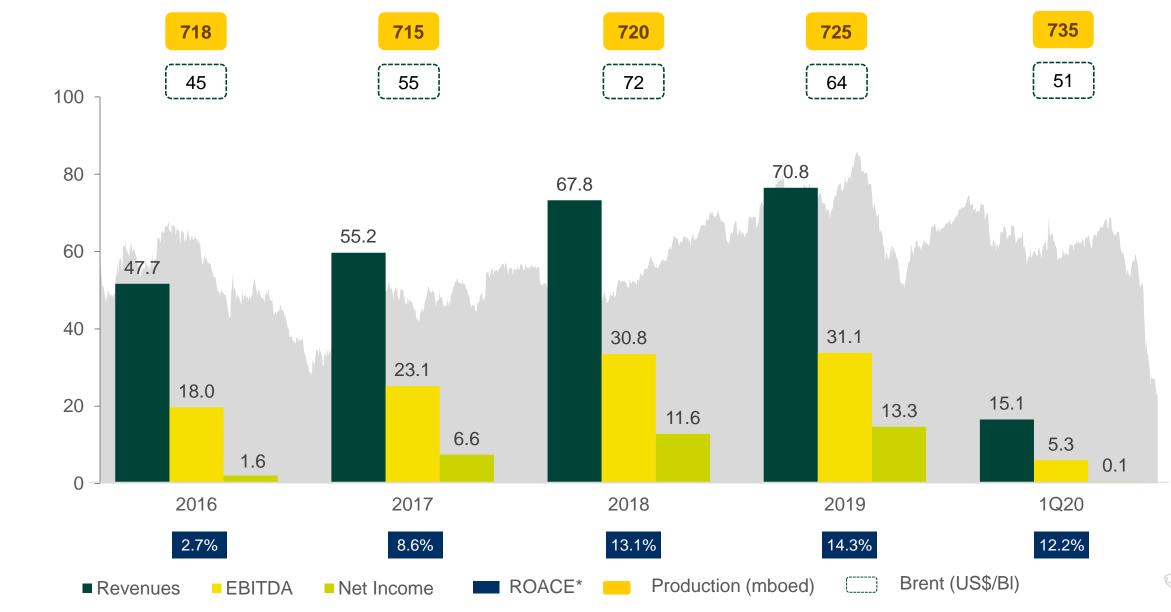
\*\* Ecopetrol supported the mobile app of the National Government designed to fight against coronavirus

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## Strategy remains focused on value generation



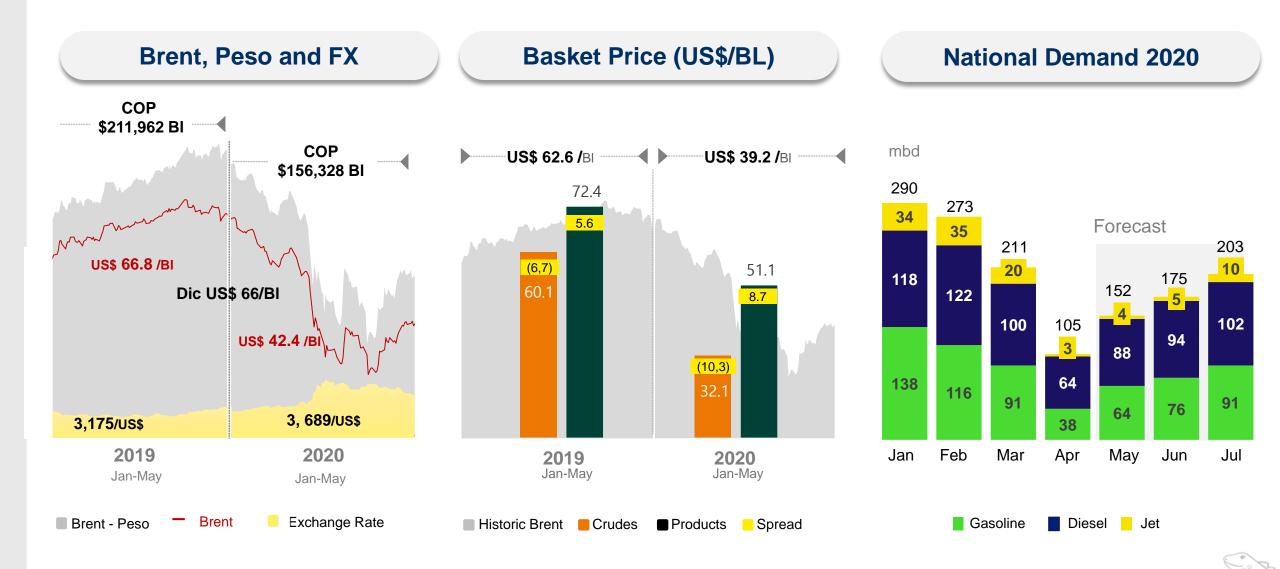
## Delivering strong returns despite price volatility



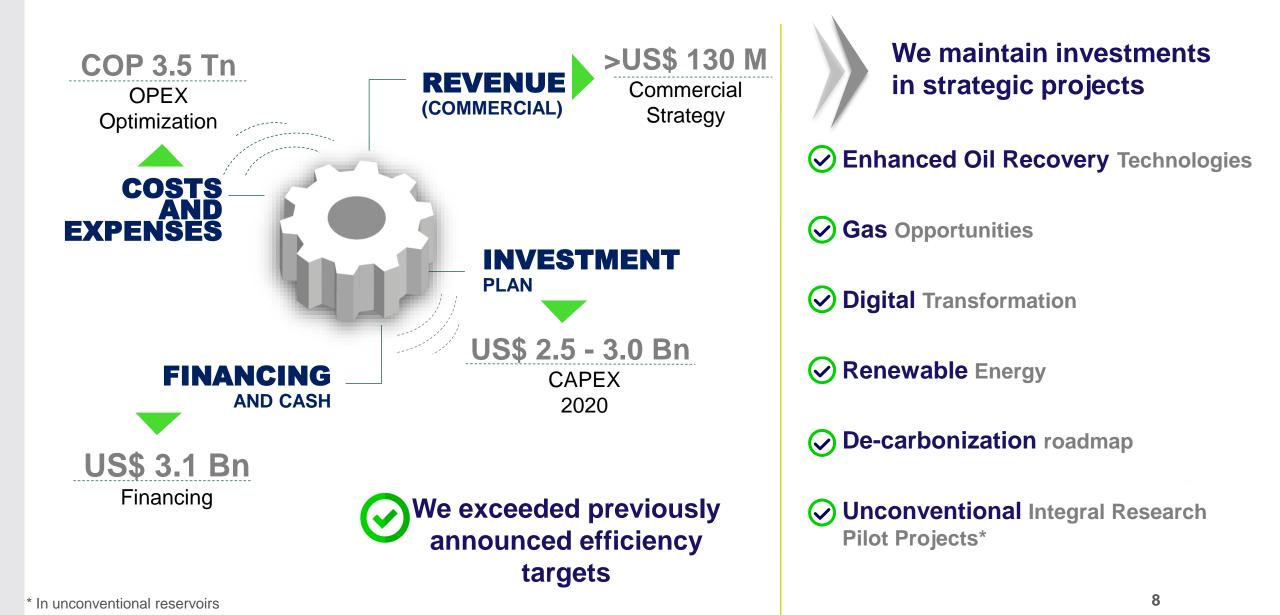
Revenues, EBITDA and Net Income in US\$ B. Figures calculated with the average exchange rate of each year. \*Figure calculated in COP.

Brent (US\$/BI)

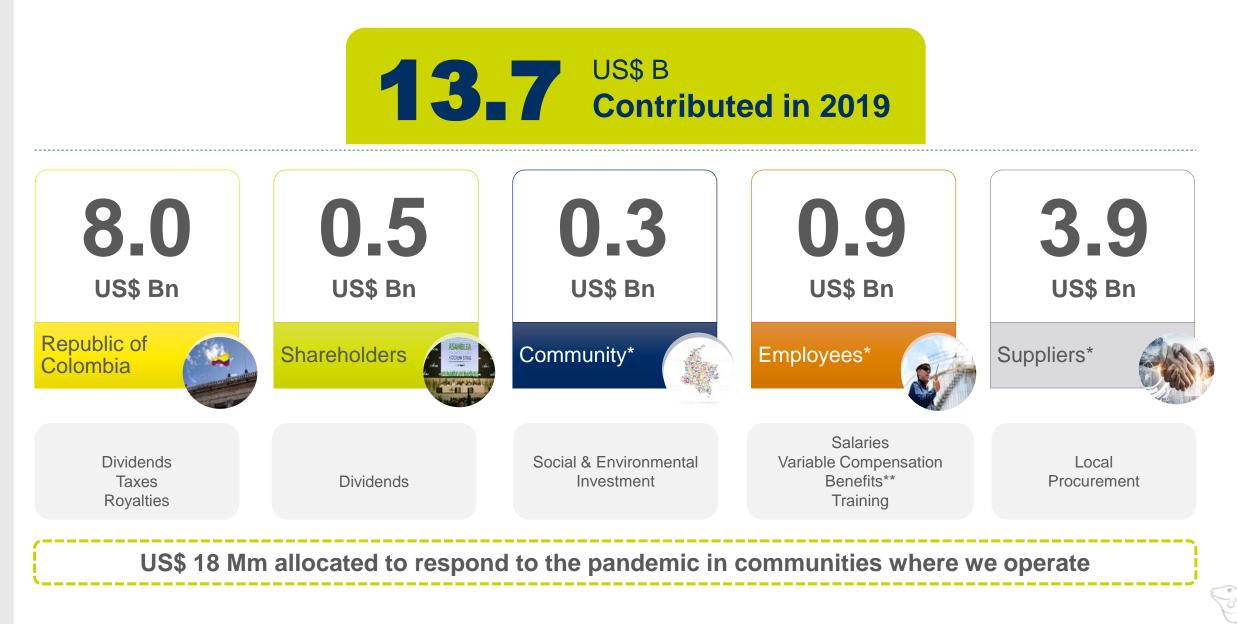
# Oil market is currently facing an unprecedented supply and demand shock



## Facing this new challenge



## **Creating value to society**



\*Ecopetrol S.A. figures. \*\*Includes: Health and Safety, Education, Loans, Savings and Investments. Calculated with an average exchange rate for 2019 of 3,281 COP/US\$.

## **Corporate governance practices**



Luis G. Echeverri Vélez

Independent Board

Member

- > +20 years of experience in international business, public policy, and public & private project finance
- Former Executive Director of the Inter-American **Development Bank**
- Chairman of the Bogota Chamber of Commerce, and board member of Teléfónica and Pragma
- > B.A. in Law from University of Medellin and MSc in Agricultural Economics from Cornell



**Orlando Ayala Lopez** 

Independent Board

Member

- > +40 years of experience in the global technology industrv
- > Former Microsoft's World President for emerging markets, and VP of Sales, Marketing & Support
- Independent director of the Executive Council of Centene Corp.
- > BSc in Information Systems Administration at Jorge Tadeo Lozano University in Bogota

> General Secretary of the Ministry of Finance and

> Former Managing Director of Fogafin and President

Board member at Fiduciaria La Previsora S.A.. Central de Inversiones S.A. and Gecelca S.A. E.S.P

> B.A. in Law from Sergio Arboleda University and

PhD candidate from San Pablo CEU University of

of the National Hydrocarbons Agency

Public Credit

Madrid

- German Quintero Roias **Board Member**



- Former Chairman of Avianca, Alianza Summa (Avianca-Aces-Sam) and Aces S.A.
- Currently serves as Executive Chairman of Táximo Ltd., President of Direktio S.A.S., and board member of Grupo Odinsa S.A., among other corporates
- > B.A. in Management from EAFIT University in Medellín, with an MBA from Pace University in New York

- > Former Vice President of Capital Markets and Corporate Development at Bancolombia Group
- Former board member of Cementos Argos, Compañía Nacional de Chocolates, Conavi, SUAM, among others
- B.A. in Management from EAFIT Unversity of Medellín, with an MBA from Stanford University

> +30 years of senior management experience in the

> Founding member of the Colombian Institute of Corporate

Colpatria and Scotiabank Group

Studies in Administration

Governance

Colombian banking industry, including President of Banco

B.A. in Management from the CESA School of Advanced

Former President of the Colombian Agriculture Association

(SAC), Founder and Director of Corporación Colombia

Internacional (CCI), President of the Agrarian Fund, and

Sergio Restrepo Isaza Independent Board Member

#### Luis Perdomo Maldonado Independent Board Member



**Carlos Gustavo Cano Sanz** Independent Board Member



Hernando Ramírez Plazas

> Former Dean of the Faculty of Engineering at Universidad Surcolombiana, Principal, and Professor.

President of the newspaper El Espectador

- BSc in Chemical Engineer and MSc in Public Health from Universidad Nacional de Colombia.
- Former General Director of the National Planning Department, Advisor for the President, Senior Specialist for the Inter-American Development Bank, among others
- > President of the Cali Chamber of Commerce and board member of Cementos Argos, among other corporates
- BSc in Economics from Harvard University



#### Strong corporate governance practices

- **Commitment to** transparency
- Multiple venues to look for guidance or whistleblowing
- Robust AML standards to prevent money laundering and terrorism financing
- Increased independent directors: from 4 in 2008 to 8 in 2019
- **Minority governance** ensured through an elected board member
- No director with ministerial rank following OECD recommendations
- New corporate governance model underpins the execution of the business plan
  - 10







Esteban Piedrahita Uribe

Independent Board Member



**BOARD OF DIRECTORS** 

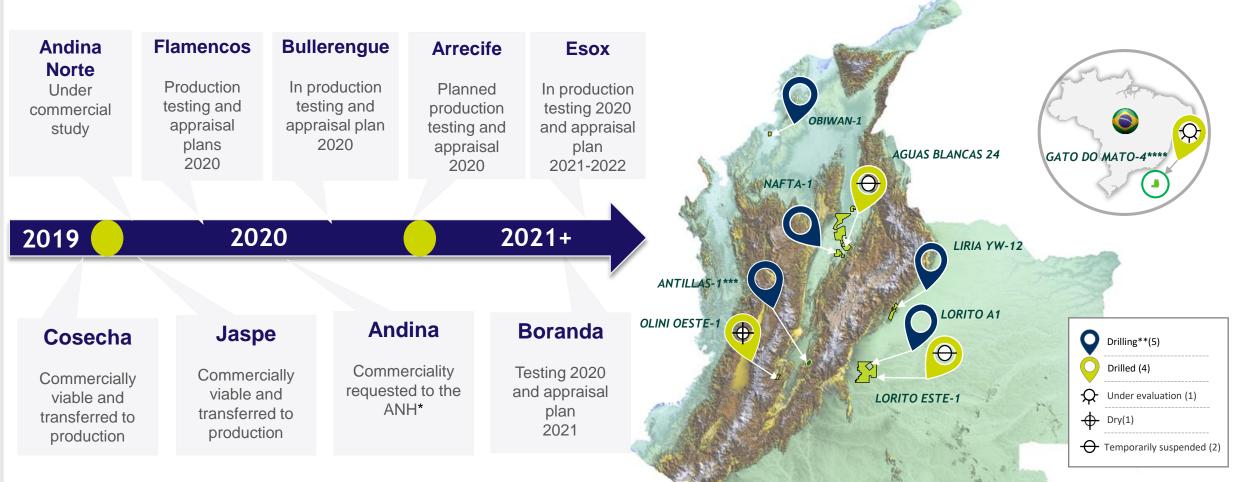
## Upstream

Photo: Rubiales Field

## **Progress in the incorporation of resources**

#### **MATURITY OF DISCOVERIES**

**EXPLORATORY ACTIVITY 1Q20** 



- Production in extensive tests 1Q20: 347 mboe (3,810 boed)
- Planned drilling of Saturno-1well in 2020 (Santos basin Brazil)
- Implementation of "Digital Petrotechnical" project

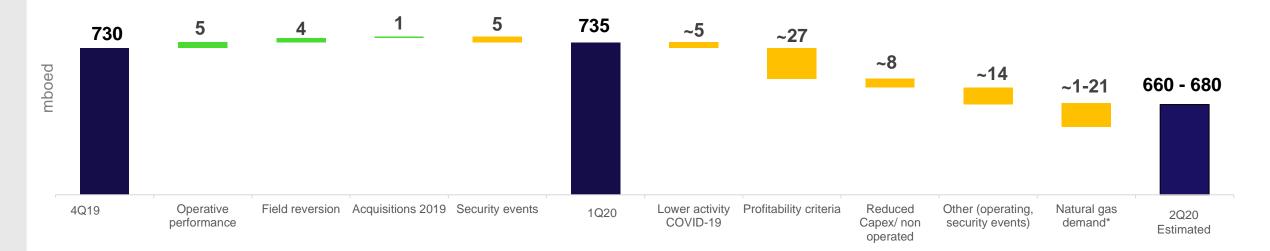
\* National Hydrocarbon Agency

\*\*Drilling suspended because of COVID-19

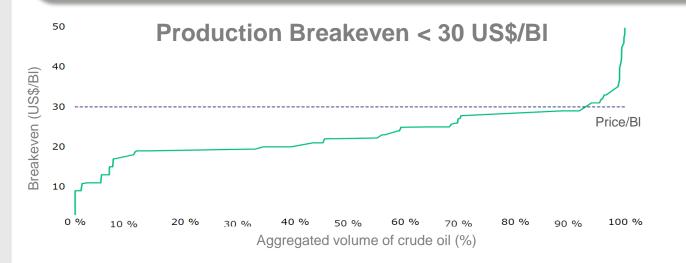
\*\*\* Well operated at risk-only by Perenco

\*\*\*\*Began drilling in Q1 20. Pending completion of entry procedures for ECP in the project

## **Focus on profitable production**



#### **Efficiency of Fields**

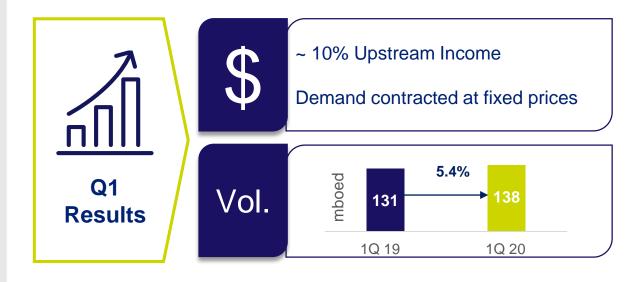


#### **MEASURES**

- Review of transportation schemes
- Cost efficiency

Reallocation of crude to refineries

## Gas continues as strategic priority





Lower self-consumption: due to lower throughput in refineries and closing of fields Force Majeure



Demand Protection: sector measures to mitigate impact on customers Materialize Upsides: commercial strategy to meet thermal power sector demand with surpluses



## surpluses

#### Strategic progress in gas agenda

#### Portfolio

Hocol receives from Chevron Chuchupa and Ballena fields in La Guajira



**Total production potential** 

#### **Integrated vision**

Operational continuity assured in Invercolsa's integration process



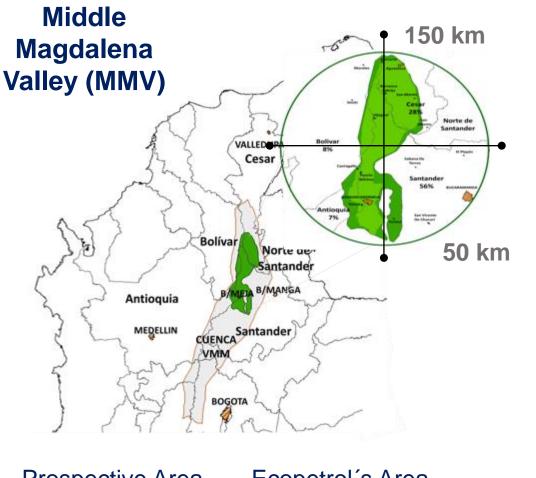
#### Investments

Gas investment plan is maintained



#### The energy of the transition

## **Unconventional potential in the Middle Magdalena**



Prospective AreaEcopetrol's Area**1.3 m acres**~730 k acres

2019 2020 2021 2022 State Council Regulatory Preparation, planning and execution of Clarification Framework PPIR MME Unconventional Colombia **Unconventional MMV** Basin 7 - 12 bboe **Potential** 4 - 7.4 bboe 8 - 100 TCF All horizons 1.1 - 1.3 bboe Anchor Play 0.4 - 0.5 bboe Production in the MMV basin could be

estimated at ~ 330 mboed in 2030

#### **Ecopetrol prepares for PPIR**

## Midstream

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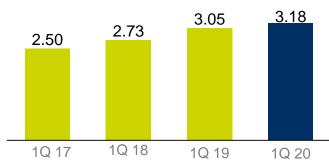
## Stability and flexibility amid a challenging environment



Group 's EBITDA

in 1Q 20

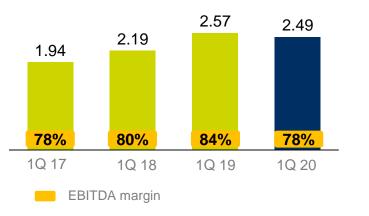
#### Revenue (COP Tn)



upon provide liquidity

to oil producers

#### **EBITDA (COP Tn)**



2020 Milestones 47% share of Relief measures agreed

Support demand growth

Growth Opportunities Refined Products

> Protect market share and increase reliability through strategic investments

Maximize synergies between segment companies

Figures calculated with the average exchange rate of each guarter.

Strategic storage in the

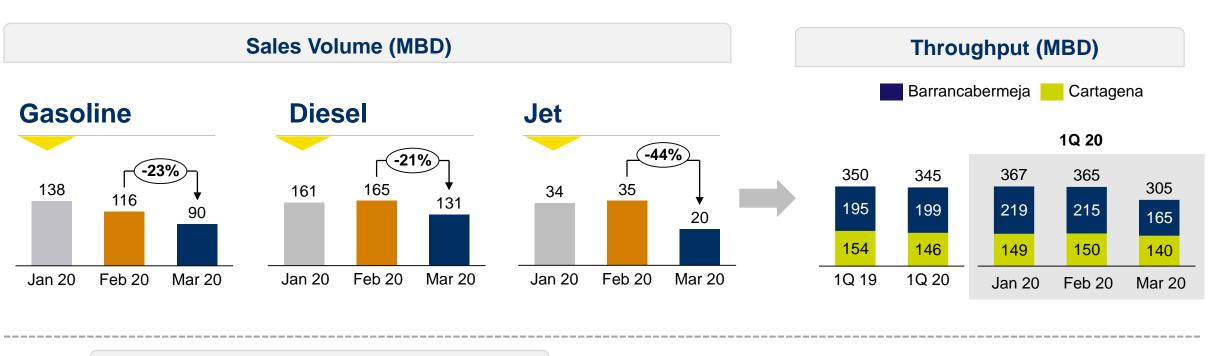
transport network supports the

continuity of E&P operations

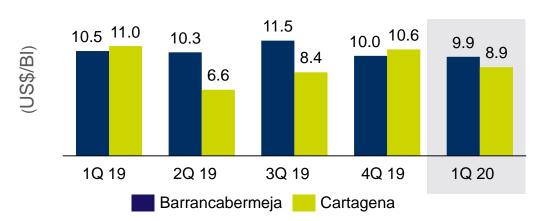
# Downstream

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## Adapting operations to demand



## Gross Refining Margin



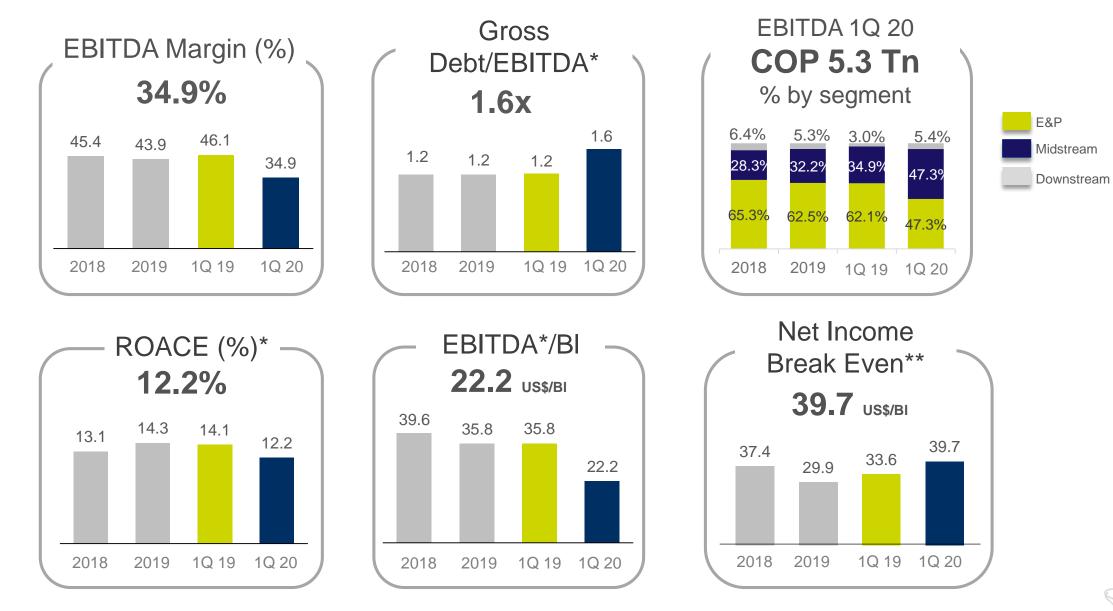
#### **Growth Opportunities**



Maximize synergies between refineries



## 1Q20 KPI's reflect changing market conditions



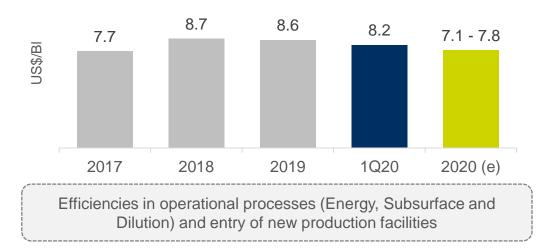
\*Last 12 months \*\* Without impairments effect.

## Robust cash position to face volatility



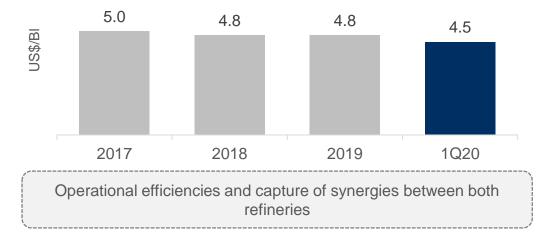
\*Includes: Cash and Cash Equivalents and Other Current and Non-Current Financial Assets. \*\* Includes variation between periods of Other Current and Non-Current Financial Assets

## **Continued focus on cost efficiency**

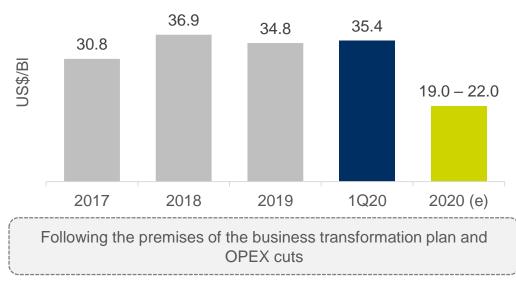


#### Lifting Cost

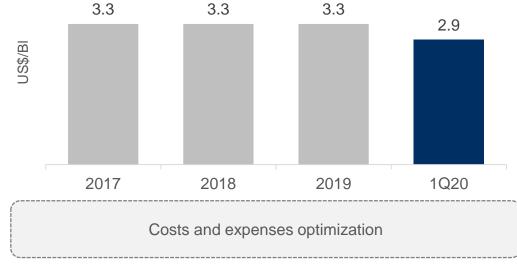




**Total Cost\*** 

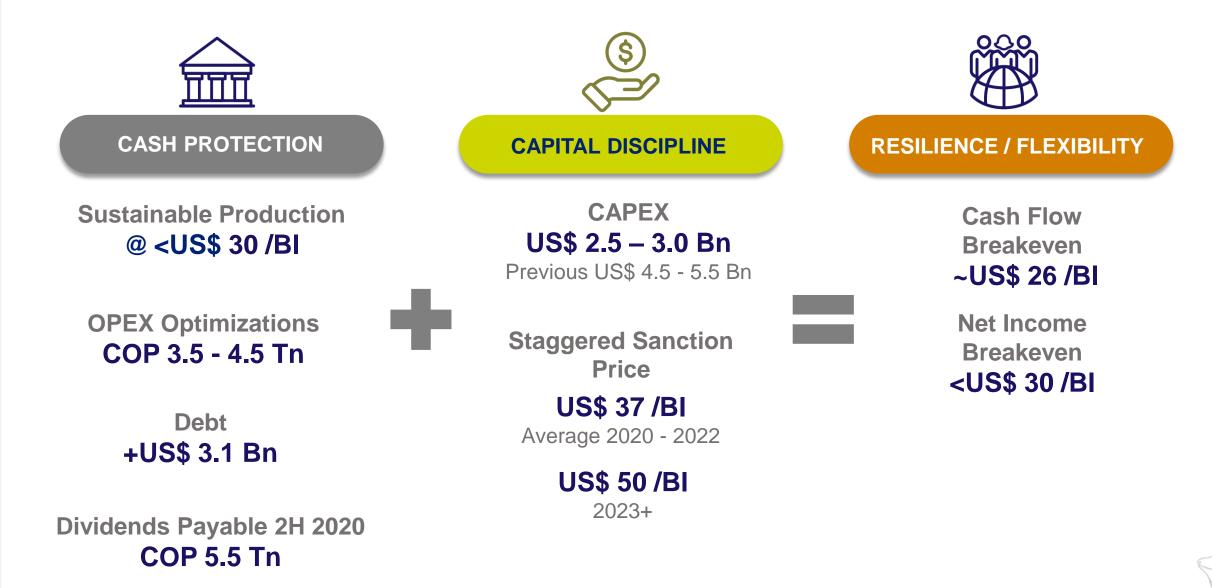


**Transported Barrel Cost** 



\* Includes: Cost of Transport, Operational Expenses, Operational Costs. Calculated over Barrels Sold.

## Short-term financial framework @ 30 - 40 US\$/BI



### 2020 Perspectives @ 30 - 40 US\$/BI

	2Q 2020 (e)	2020 (e)
Production (mboed)	660 - 680	664 - 710
Transported Volume (mbd)	800 - 1,000	850 - 1,100
Crude Differential (US\$/BI)	- 9.0 / - 13.0	- 9.0 / - 11.0
Throughput (mbd)	215 - 240	285 - 320

#### **Our priorities:**

- Commitment to life
- Adapting to a new reality
- Cash protection and capital discipline
- Strategic imperatives remain







Social & Environmental COP 300 Bn in 2020

De-carbonization 1.8- 2.0 MtCO2e by 2022

Innovation and Technology US\$92 Mn in 2020

Head of Capital Markets:

**Investor Relations Officer:** 

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## **Definitions**

Acronym	Definition
bboe	Billion barrels of oil equivalent
BI	Barrel
boed	Barrels of oil equivalent per day
CAGR	Compound Annual Growth Rate
CEOR	Chemical Enhanced Oil Recovery
CFFO	Cash Flow From Operations
EOR	Enhanced Oil Recovery
ESG	Environmental, Social and Governance
Gbtud	Giga BTU per day
GHG	Greenhouse Gas
HCIIP	Hydrocarbons Initially In Place
JV	Joint Venture
KtCO2e	Thousand Metric Tons of Carbon Dioxide equivalent
mbd	Thousand barrels per day
mboe	Thousand barrels of oil equivalent
mboed	Thousand barrels of oil equivalent per day
Mbtu	Million BTU
Mmboe	Million barrels of oil equivalent
mm3	Million Cubic Meters
MtCO2e	Million Metric Tons of Carbon Dioxide equivalent
MW	Megawatts
NFE	Near Field Exploration
PPIR	Pilot Projects for Integral Research
PPM	Parts Per Million
ROACE	Return on Average Capital Employed
RRR	Reserves Replacement Ratio
SOGI	Sexual Orientation and Gender Identity
TCF	Trillion Cubic Feet
TRIF	Total Recordable Case Frequency
US\$ B	Billion dollars
US\$ M	Million dollars