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Exploration in LatAm: Current context and drivers for future investments Global E&P Summit 2020

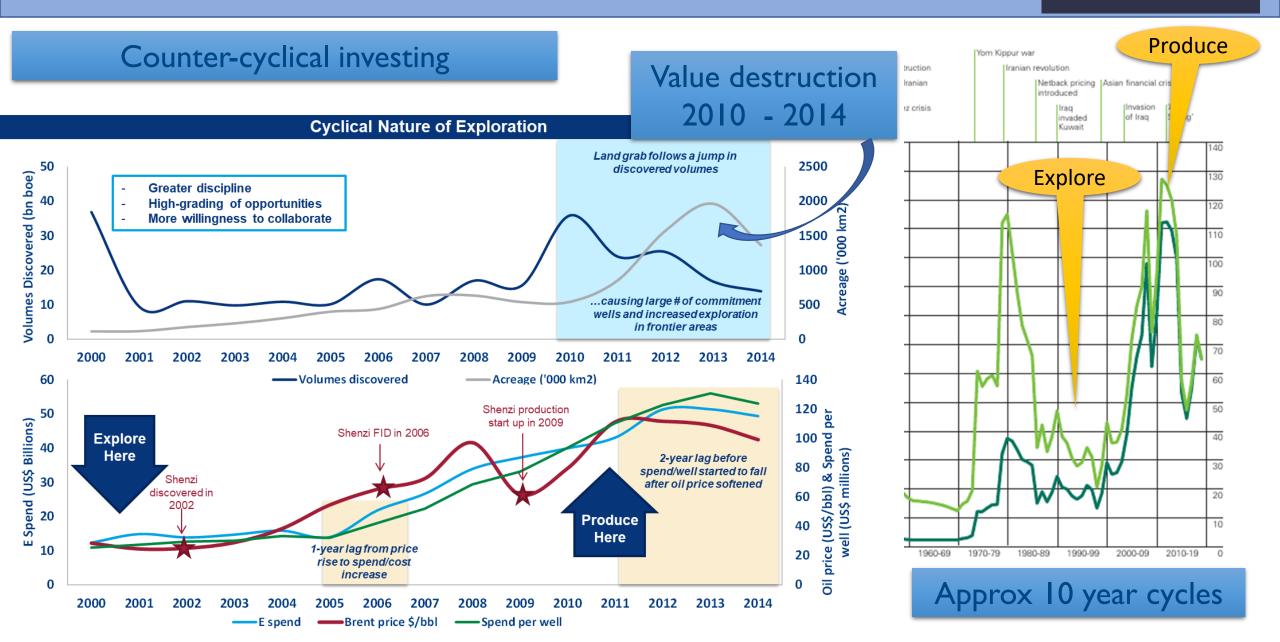
Max Torres Managing Partner, Plata Energy

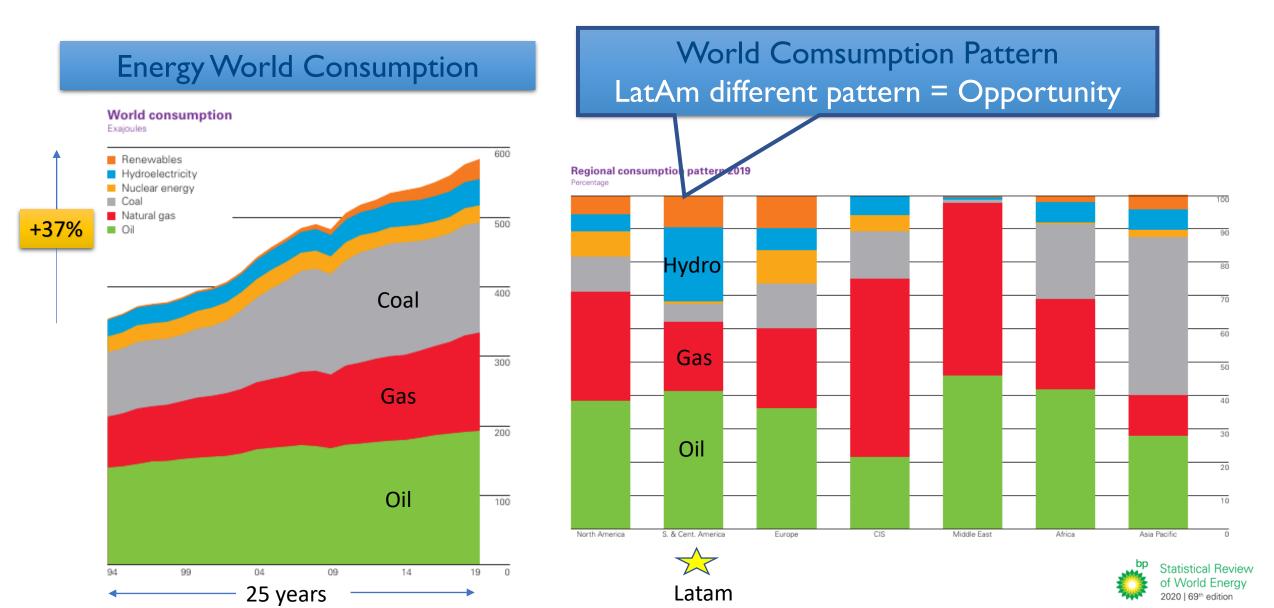
uly 2nd, 2020

- Exploration investments and activity are coming to a worldwide historical low
- Investors should consider a counter cyclical positioning to harvest the benefits in the next high price cycle
- Latin America has distinctive benefits when considering building a position for the next cycle, compared to other regions
- Positives : Large resources, undeveloped markets and low breakeven prices
- Negatives: Political instability and high Government Takes
- Latin America could be transformed into a dominant player in the next cycle

LatAm exploration investments: Cyclical nature of E&P

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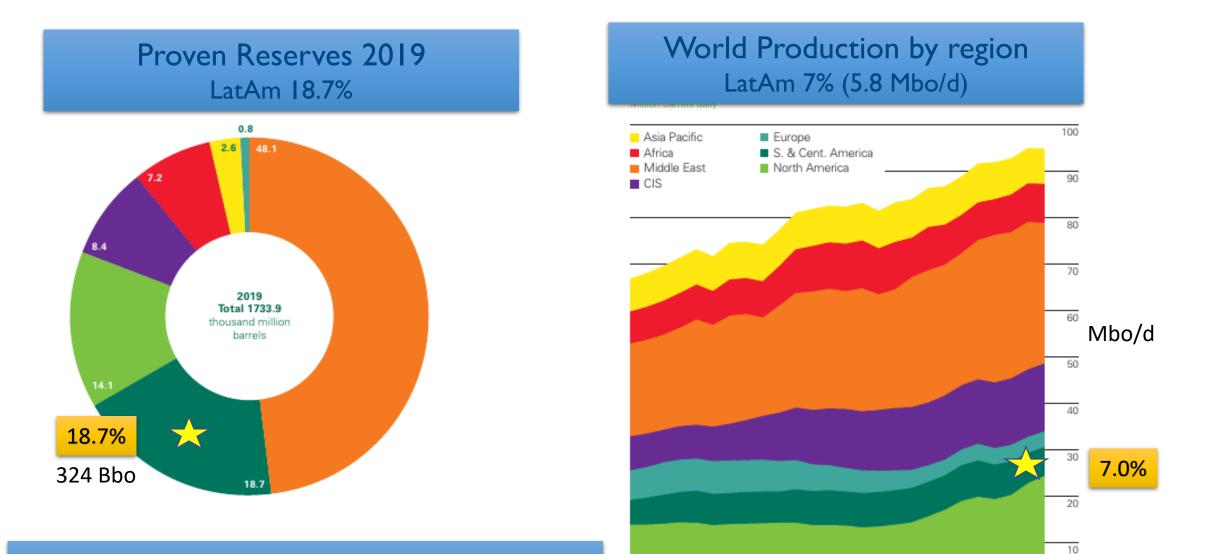




LatAm exploration investments: Why LatAm? Oil story

Statistical Review of World Energy

2020 | 69th edition



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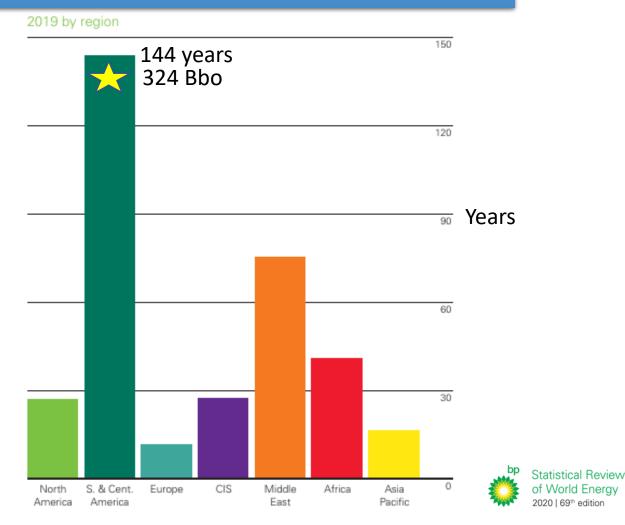
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18.7% Reserves with only 7% Production

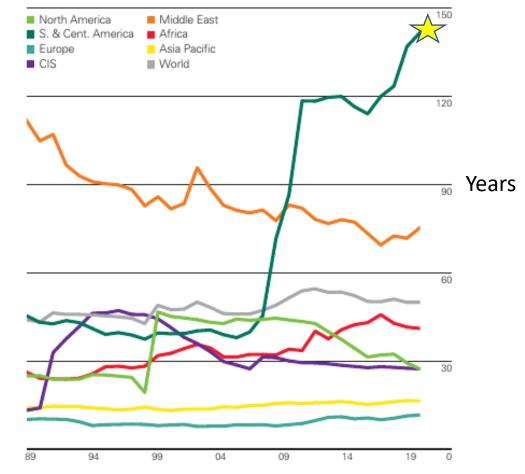
LatAm exploration investments: Why Latam? Oil story

Ratio Reserves/Production by Region Latam 18.7% of world total 1734 Bbo



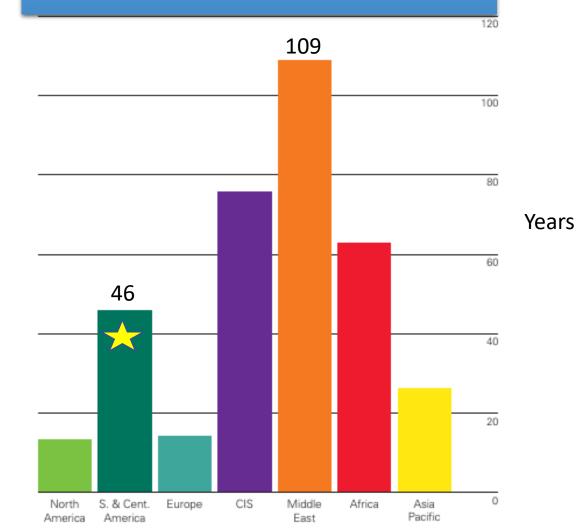
R/P Historical Venezuela (17.5%) and Brazil PSalt

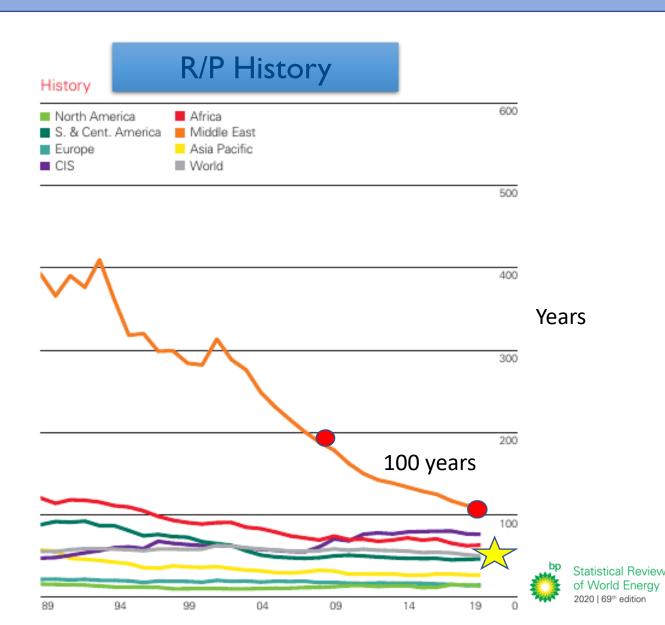
History



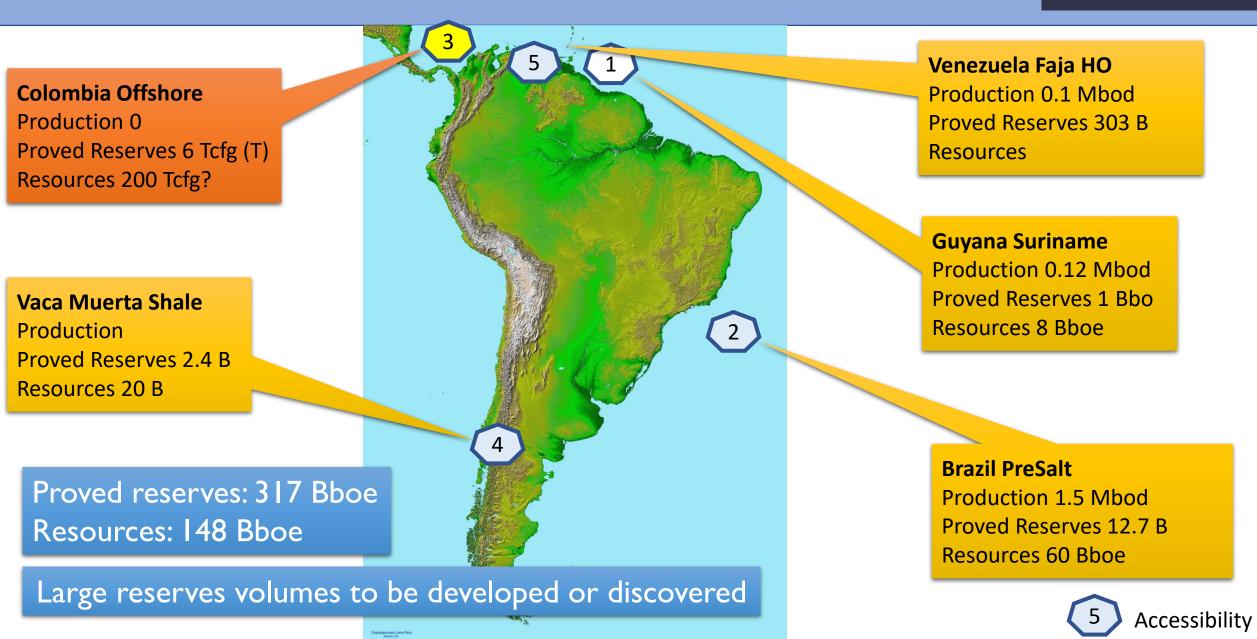
LatAm exploration investments: Why LatAm? Gas story

Ratio Reserves/Production Gas LatAm 282 Tcfg (World 7019 Tcfg)





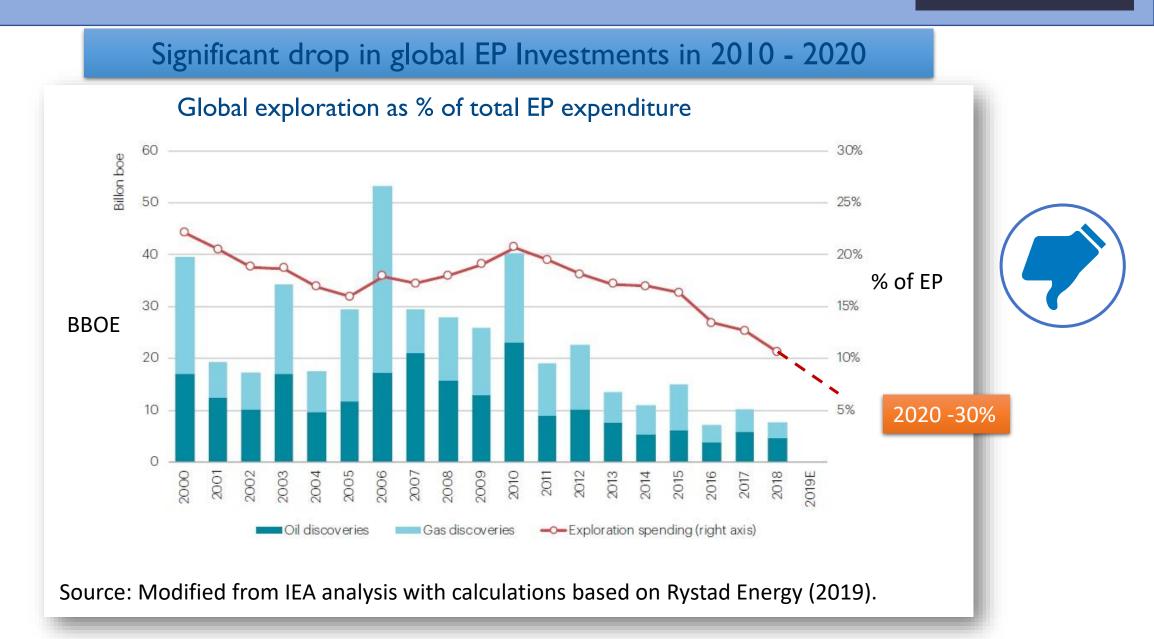
LatAm exploration: World class E&P plays in LatAm



- Largest R/P ratio (144 years) showing large undeveloped reserves volumes (Oil reserves proven 324 Bbo vs 1734 Bbo world)
- Large untapped resources opportunity (Venezuela, Brazil, Argentina, Guyana and Colombia)
- Gas consumption share much lower than world. Opportunity to develop gas markets
- LatAm offers potentially large gas resources in new gas plays (Offshore Colombia, Venezuela ..)
- Unique resource and market conditions to develop a significant position if region places right terms and use them intelligently in the next cycle

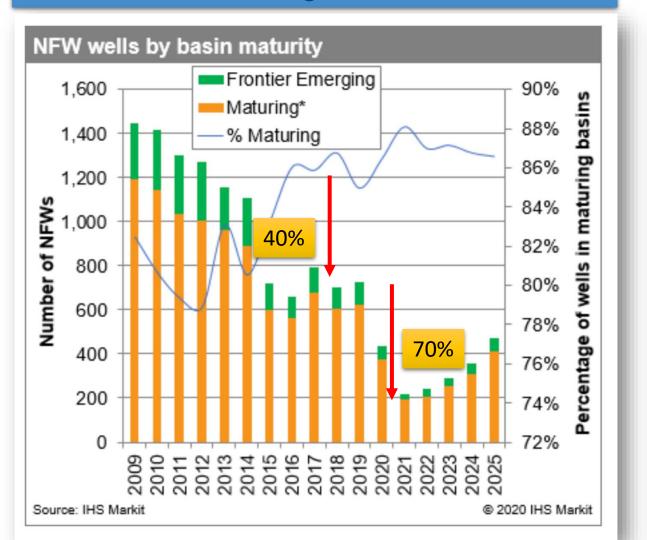
LatAm exploration investments: Exploration activity (I)



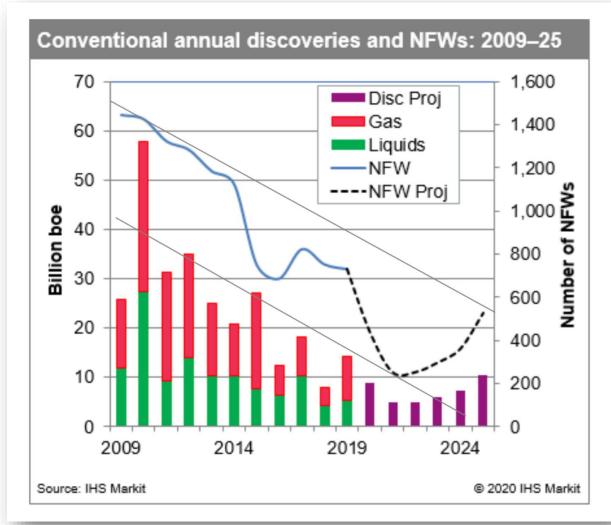


LatAm exploration investments: Exploration activity (II)

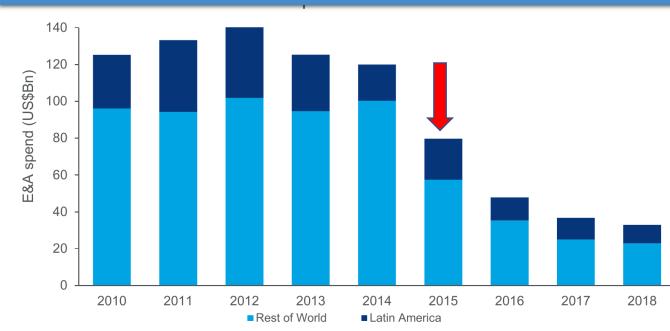
Significant drop in exploration drilling. Focus in maturing basins vs frontier



Decreasing discovered volumes



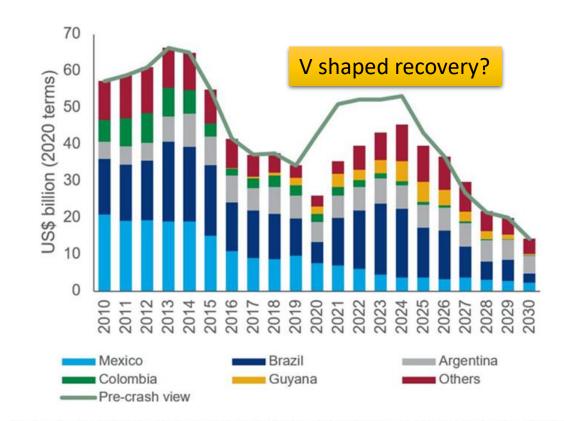
LatAm not an exception. Huge drop in Exploration investments



Source: Wood Mackenzie Exploration Service Tool



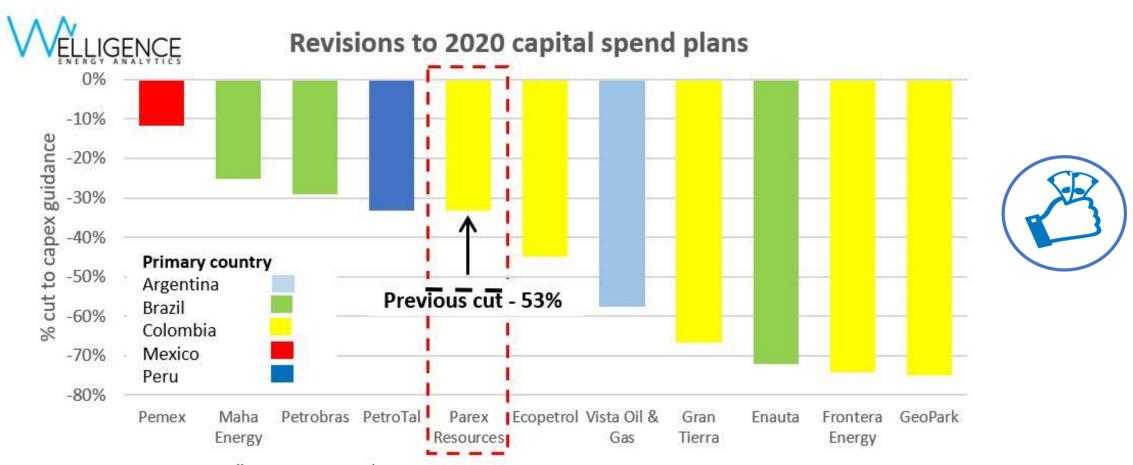
E&P Capex down 39% in 2020



Source: Wood Mackenzie Lens Upstream. Development capital expenditure excludes exploration, abandon

LatAm exploration investments: Capex 2020 by company

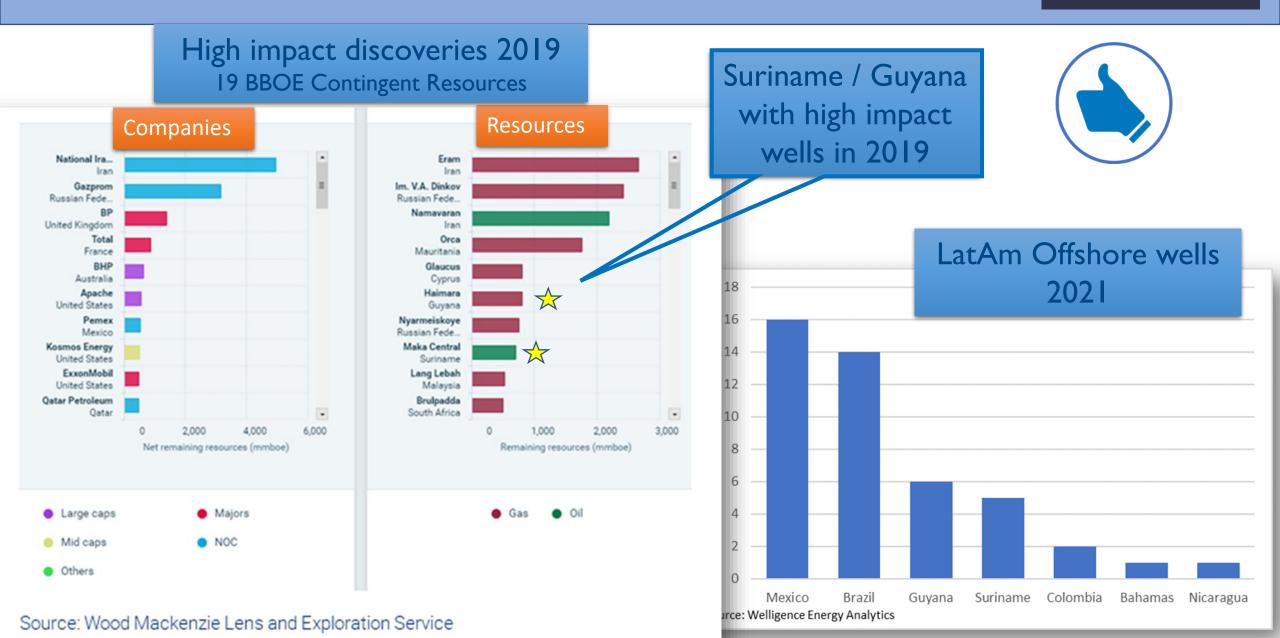
LatAm Capex revisión 2020 by company



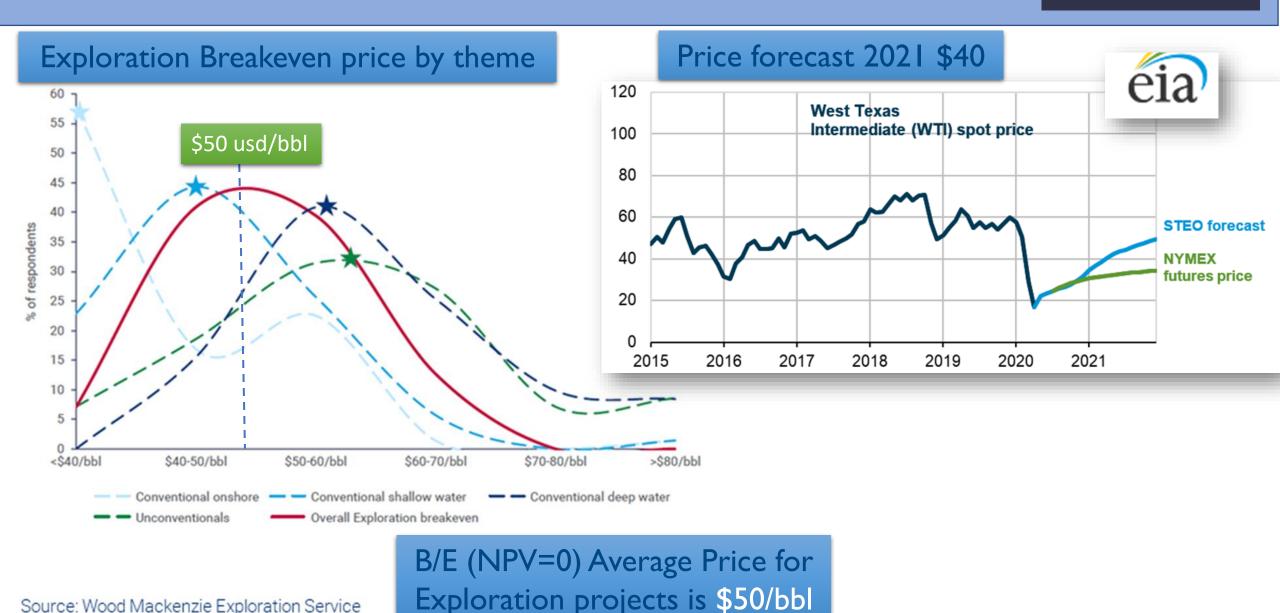
Source: Company reports, Welligence Energy Analytics

LatAm exploration activity: High impact wells 2019

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LatAm exploration investments: Price and breakevens

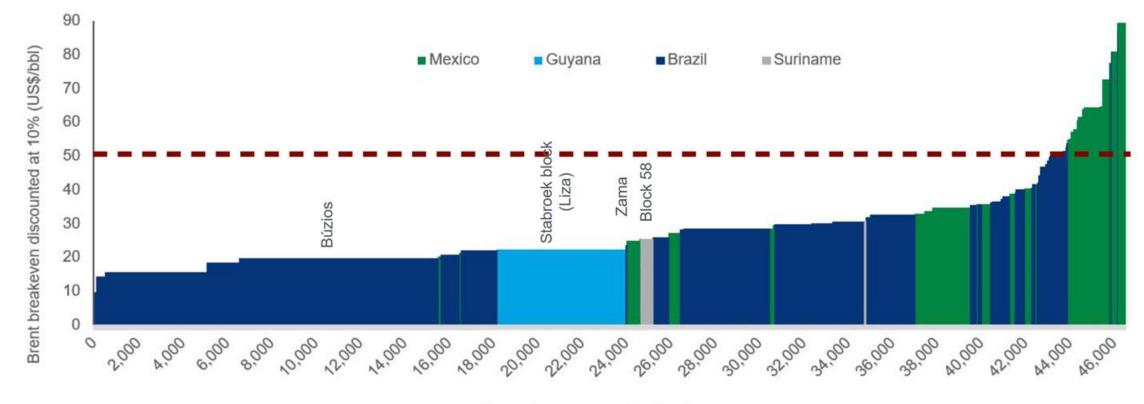


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Source: Wood Mackenzie Exploration Service

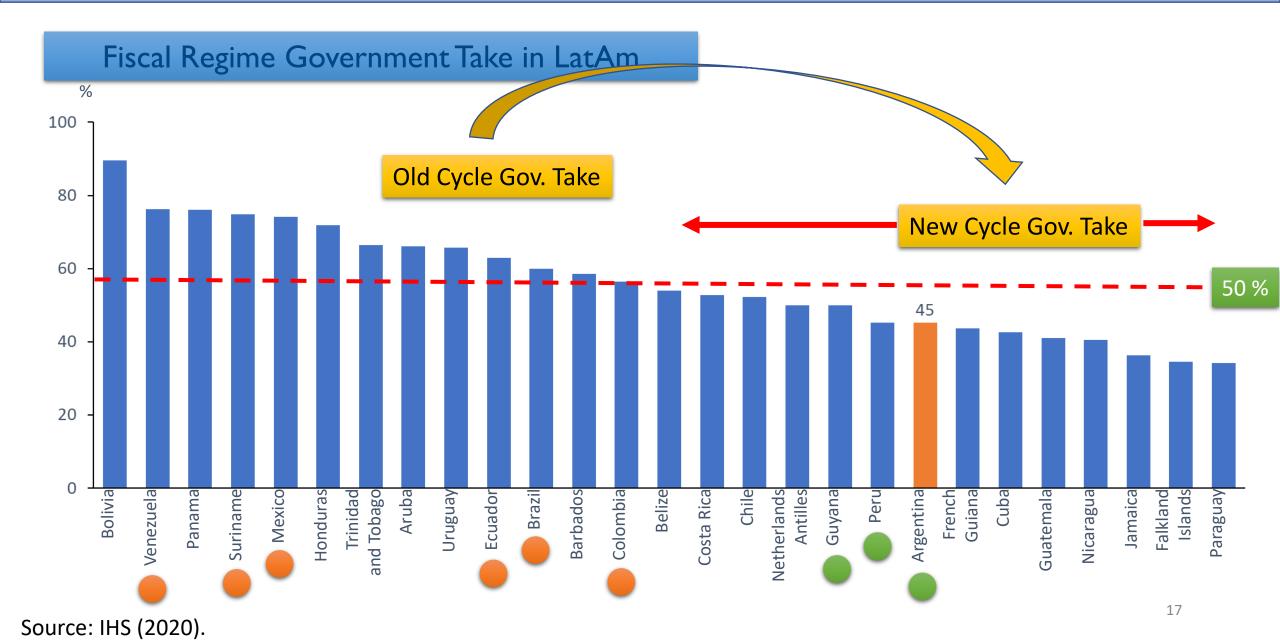
43 Bboe in FID priority list with breakevens below \$50/bbl

Point-forward breakeven and remaining reserves for Brazil, Guyana, Mexico and Suriname



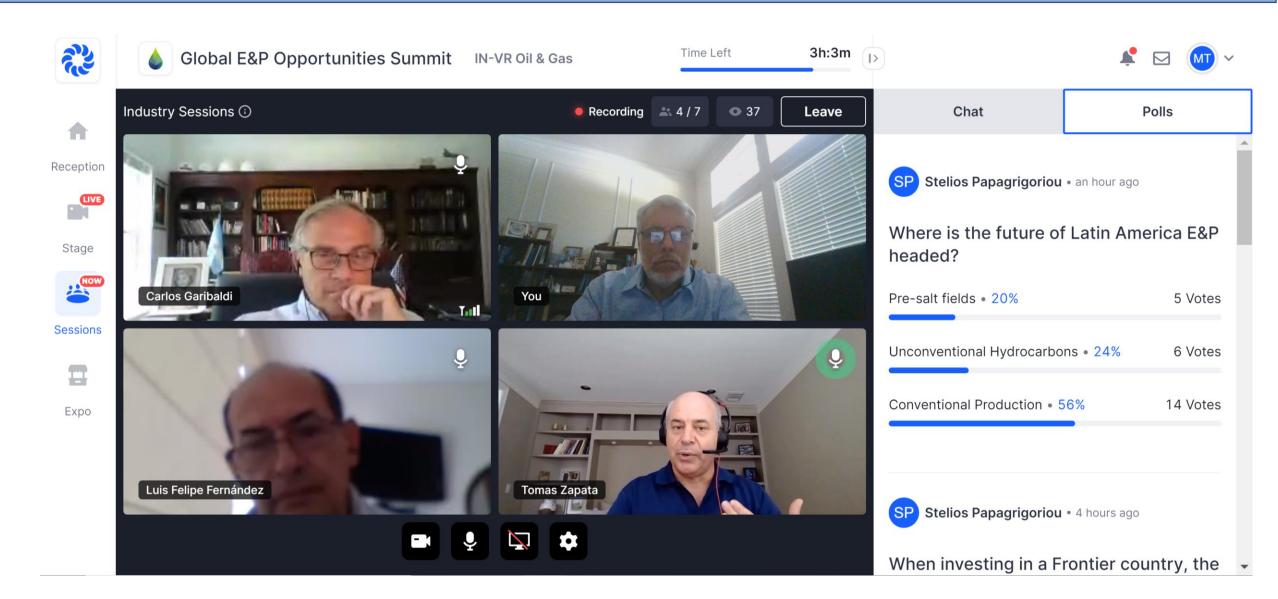
Remaining reserves (mmboe)

LatAm exploration investments: Regional Government take



- Industry perception that existing resources are enough to satisfy future
- demand. Possibly not a correct assumption
- Investments in exploration dropped from 45% to 5% as % of EP in 20 years. NFW wells from 1400 to less that 200 in 10 years
- Resources discovered volumes dropped from 30 to 5 BBO/year
- World average Breakeven prices for Exploration Portfolios are near \$50/bbl
- □ LatAm has large offshore projects (43 Bboe) with B/E below \$50
- LatAm needs to restructure Government Takes to below 50% to attract the next wave of investments
- With large untapped resources and undeveloped markets, LatAm could become a major player in next cycle. New favorable Gov. Takes and political stability are key to the success of the region

LatAm exploration investment:



LatAm exploration investment:

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Main Contacts:

Carlos Garibaldi Managing Partner Carlos.Garibaldi@PlataEnergy.com +1. 832.878.3695

Max Torres Managing Partner Max.Torres@PlataEnergy.com +1. 346.351.5755

https://plataenergy.com