



# Refining Business



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# Key messages



# Key messages

# **Highly Competitive**

High Quality assets

Value chain.
Optimization

# **Highly Competitive**

3 different markets

6 Refineries Fully integrated

Deep conversion

capacity

Other business integration

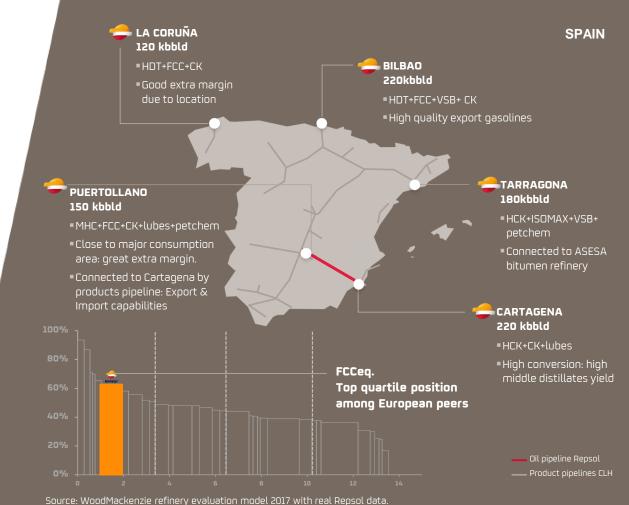
Value chain.
Optimization

Repsol Sites

### PERU



- 117 kbbld 24% FCC eq.
  - FCC + VB
  - Most complex and largest refinery in Peru
  - Upgraded in early 2017 for producing high quality fuels.

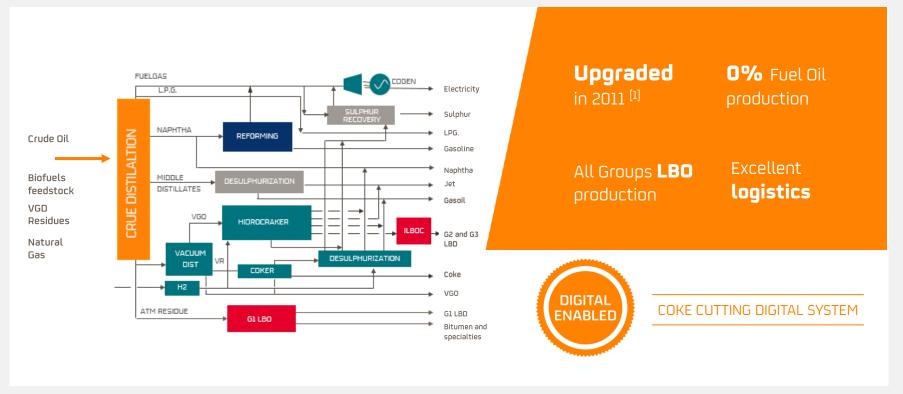


Cartagena Refinery. Best in class

- 220 kbpd76% FCC eq
- Solomon
   Pacesetter [1]
- Leading reference for insurance companies



Cartagena Refinery. Best in class



Main Strengths

5 as 1

5 refineries optimized as a single one

**1**st

coking capacity in Europe

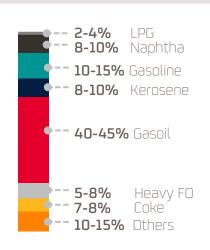
>50%

middle distillates production

2 + 5

2 different markets 5 different schemes





# Highly Competitive

1 Mbbl/d refining capacity

### Market leader:

62% Spain's
distillation capacity
65% Peru's
distillation capacity

Other business integration

Lube base oil units.

**Petrochemicals** 

**Bitumens** 

Value chain.
Optimization

Integration gives all business natural synergies

	Integration with other Business				
	LPG	Fuels	Chemicals	Lubricants(*)	Asphalts
Cartagena	•			•	
A Coruña		•			•
Puertollano	•		•	•	•
Tarragona		•	•		(**)
Bilbao	•				
Pampilla		•			•

# Key messages

# Highly Competitive

6 Refineries

1 Mbbl/d refining capacity

Other business integration

Value chain.
Optimization

# Value chain. Optimization



# Flexible and capturing opportunities



> Spot vs Contracts Optimization



 65% of crude feedstock comes from spot market

> More Challenging > Crudes



 Facilities prepared to process challenging crudes

> Wider Portfolio



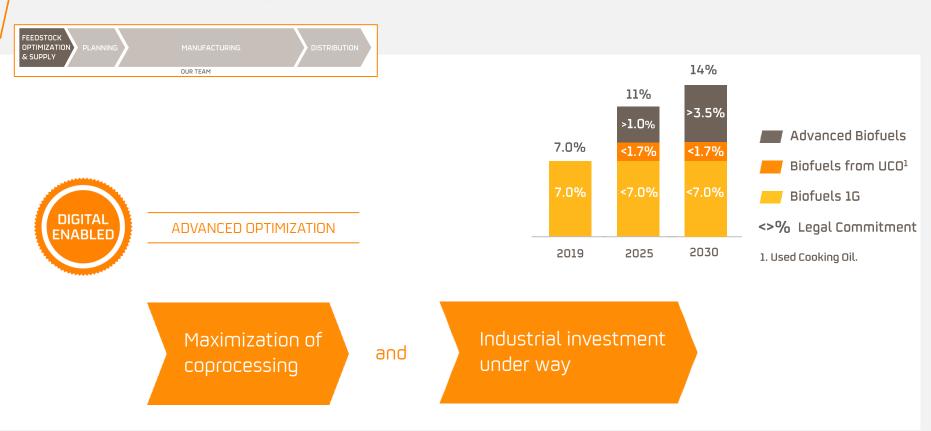
- >200 crudes studied and ready to be processed
- 57 new crudes processed since 2014
- 78 different crudes processed in 2018



**CRUDE BLENDING** 



# Biofuels: Turning a requirement into an opportunity



# Planning: Advanced + Digital = Optimized





Global optimization of crudes distribution



ADVANCED OPTIMIZATION
AND MORE







### GLOBAL

- Major visibility of crude distribution, exchanges among sites and medium term stocks
- Flexibility to adapt to the market

### LOCAL

- Validation of global optimization
- Improved stocks management
- Blending efficiency

# Operational excellence

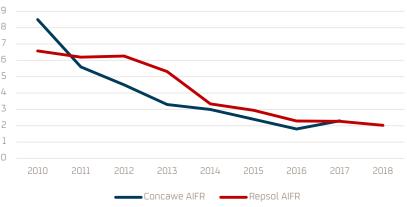




# Continuous focus on safety improvement: our results



### Personal Safety



# 018

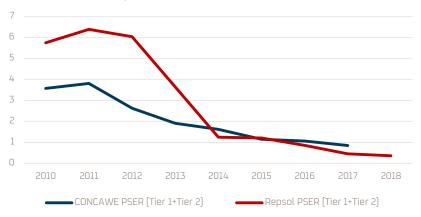
### All Injury Frequency

Note: Concawe

[European Oil Company Organisation for Environment, Health and Safety]

# DIGITAL ENABLED

### Process Safety Event Rates Tier 1&Tier 2



A Tier 1 Process Safety Event is a loss of primary containment (LOPC) with the greatest consequence.

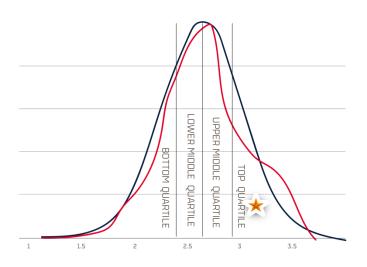
A Tier 2 Process Safety Event is a LOPC with lesser consequence

MOBILITY GESIP

# All 6 refineries in Insurance ratio Top Quartile



### Insurance ratio



"Cartagena, at the top of a worldwide risk management ranking"

- Leading reinsurance companies assess the quality of our refineries every 3 years
- Categories evaluated:
  - Hardware:

Assets risk evaluation

Software:

Process Management

Emergency Control

# Reliability



 $\overline{\mathcal{Q}}$ 

Reliability increase

- Safety
  - Availability
  - Costs
  - Energy efficiency

Utilization

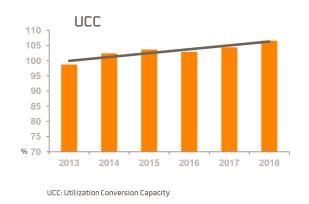
Margin



DIGITAL ZUF

### Failure Reduction Index





# **Economics Management**



### Program Compliance



One single language, one common goal: the organization speaks in \$, horizontally and vertically



# Economics Management. Energy



625 completed actions

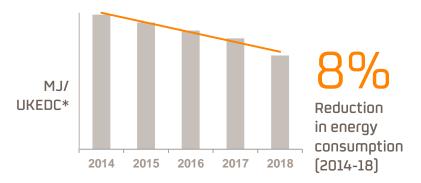
308 million euro invested in energy efficiency

2.2 million tonnes/y

47%

of the achieved reduction made with operational improvements without investment





\*Normalization basis for Solomon's metrics

Period: 2011-2018

# Highly integrated with our customers...





... through optimized logistics





# Creating a solid culture in the organization







# Key messages

# **Highly Competitive**

**6** Refineries

1 Mbbl/d refining capacity

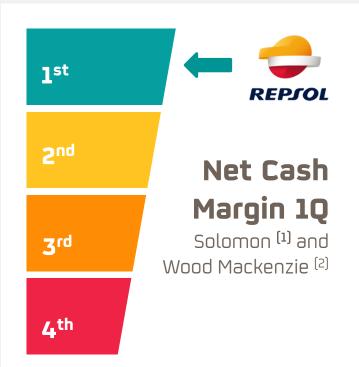
Other business integration

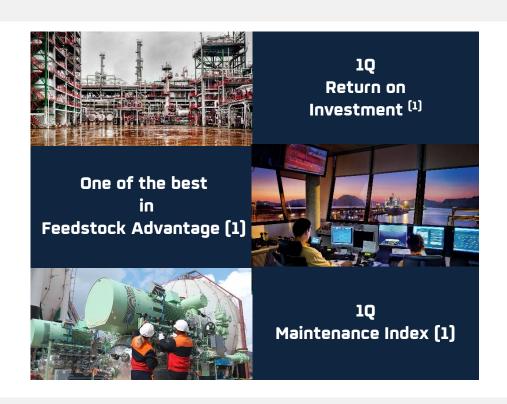
Value chain.

Optimization

# Repsol Refining System

Highly Competitive





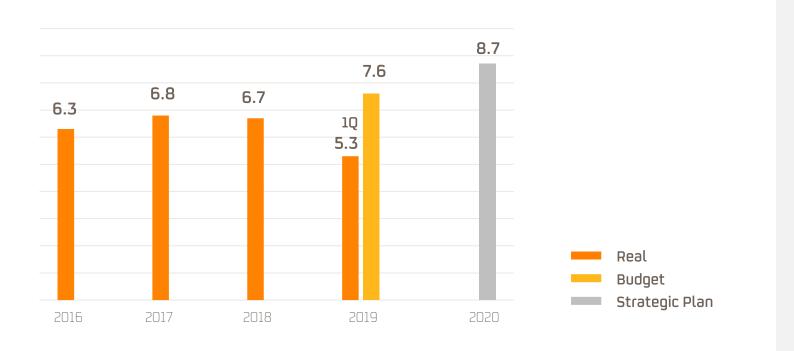
<sup>[1]</sup> Solomon Associates', European Fuels Study 2016, Western Europe Peer Group; [2] WoodMackenzie refinery evaluation model 2017 with real Repsol data

# Key messages

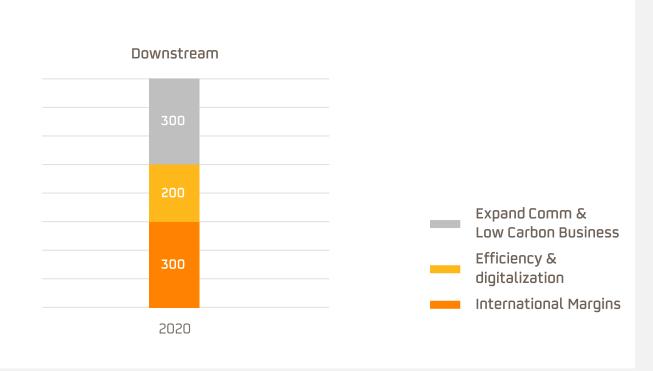


Margin indicator





Downstream ∆ CFFO\* 2017-2020 (M€)



Downstream ∆ CFFO\* 2017-2020 (M€)

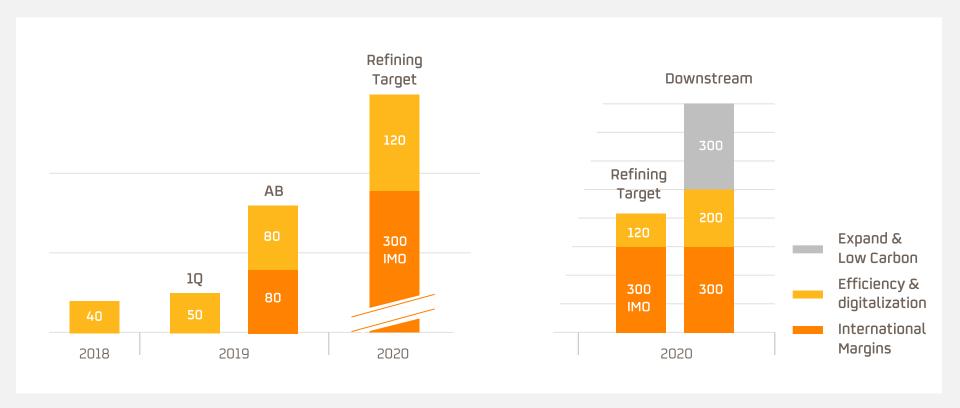


Downstream ∆ CFFO\* 2017-2020 (M€)



(\*) CFFO variation under the same market conditions

Downstream ∆ CFFO\* 2017-2020 (M€)



# Key messages



To continue leveraged in our main strengths to consolidate our competitiveness position



## **DIGITAL TRANSFORMATION**



