For a world with new values.



Analyst & Investor Tour 2014

Itabira, August 6th 2014

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1



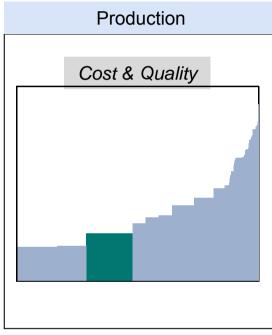


Investor Tour – Strategic Overview José Carlos Martins

Analyst & Investor Tour 2014

VALE'S STRATEGY IN IRON ORE

Extended Enterprise



Example of initiatives

- Itabiritos projects
- Pico Fábrica
- S11D
- Serra Leste



- Malaysia DC
- Valemax berth adaptation
- FTS
- DC's China

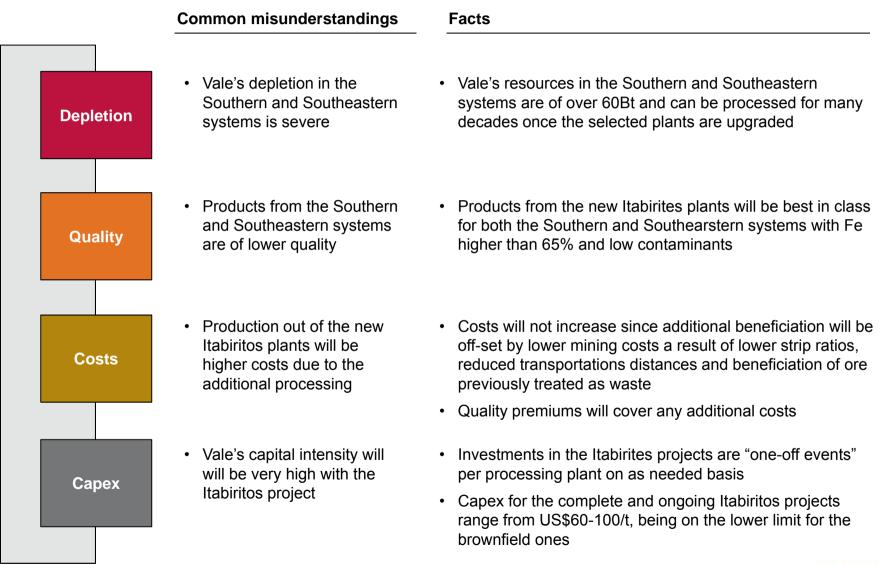
Commercialization							
Tailor to Market							
Types of products	Types of delivery	Lot sizes	Sales ontracts				
IOCJ	CFR	Valemax	Lagged				
Itabirite	FOB BR	Cape	VDP				
Blend	FOB CD	1 lot/ship	Current				

- Green ore
- Single product (TUB)
- Blended products



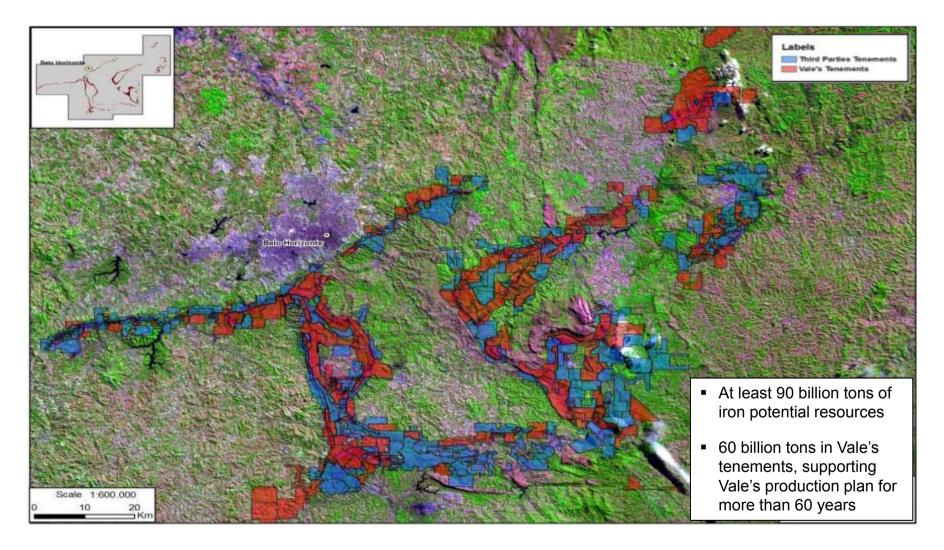
3

COMMON MISUNDERSTANDINGS ON THE ITABIRITOS PROJECT



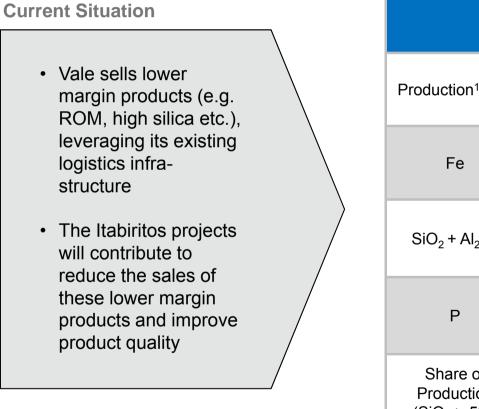


VALE'S IRON ORE RESOURCES IN THE IRON ORE QUADRANGLE





VALE'S CURRENT SALES MIX AND EVOLUTION OF QUALITY

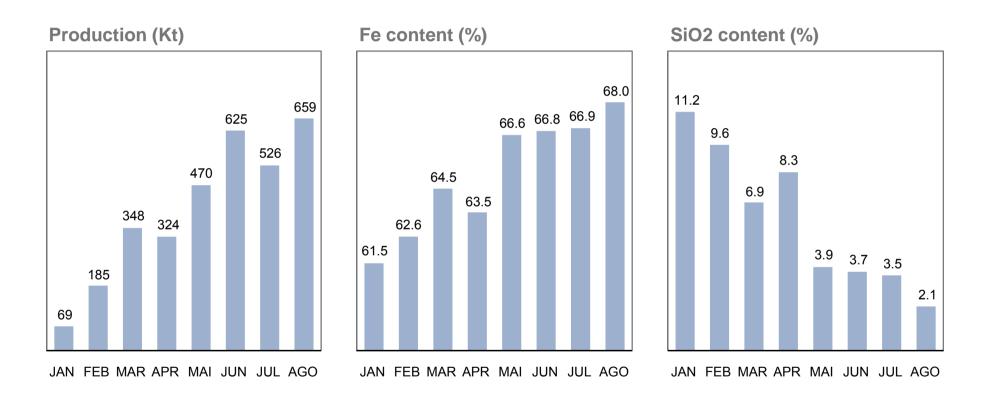


Evolution of product quality

	2014	2018	
Production ¹ (Mt)	321	453	
Fe	63.9	64.9	
$SiO_2 + Al_2O_3$	5.8	4.1	
Р	0.055	5 0.050	
Share of Production (SiO ₂ > 5%)	60%	0%	



CONCEIÇÃO ITABIRITOS 2014 PERFORMANCE





OVERALL BENEFITS OF THE ITABIRITOS PROJECTS



 Stable costs as mining costs decrease with lower strip ratios and short transportation distances while processing costs increase marginally due to lower mass recovery and additional beneficiation phases



• Full utilization of the logistic infra-structure already in place

Logistics Infrastructure



 Improved life of mine in the southern and southeastern systems with additional 60 years of production

Resources



Flexibility to use a range of ores, including ore previously treated as waste

Use of sterile piles

1

Productive Capacity

- Production capacity increased such as in:
 - Itabira Complex from 33Mt in 2014 to 55Mt in 2018
 - Vargem Grande Complex from 24Mt in 2014 to 33Mt in 2018







Iron ore – From Hematite to Itabirite

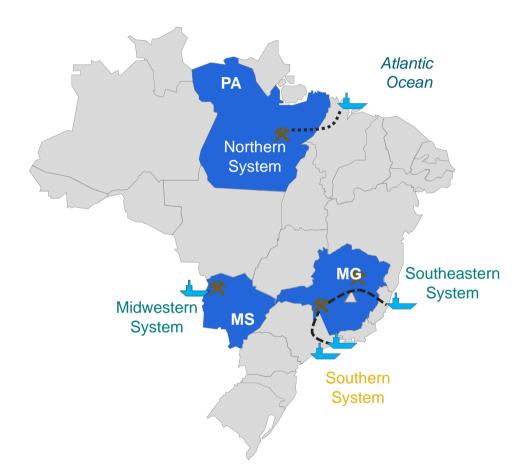
Lucio Cavalli

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- 1. Systems Overview
- 2. Evolution From Hematite to Itabirite
- 3. Production Plan Example of Itabira
- 4. Extension of Itabira in the Future

Systems Overview

VALE'S IRON ORE IN KEY FIGURES



- Four integrated iron ore production systems in Brazil, comprising of mines, railway and port facilities.
 - 22 iron ore mines currently form Vale's production systems¹
 - Production of 300 Mt² in 2013
 - 11 pelletizing plants³ with production of 39 Mt in 2013
- Southeastern system composed of the EFVM railway and the Tubarao port
- Southern system composed of the MRS railway and both TIG and CPBS ports

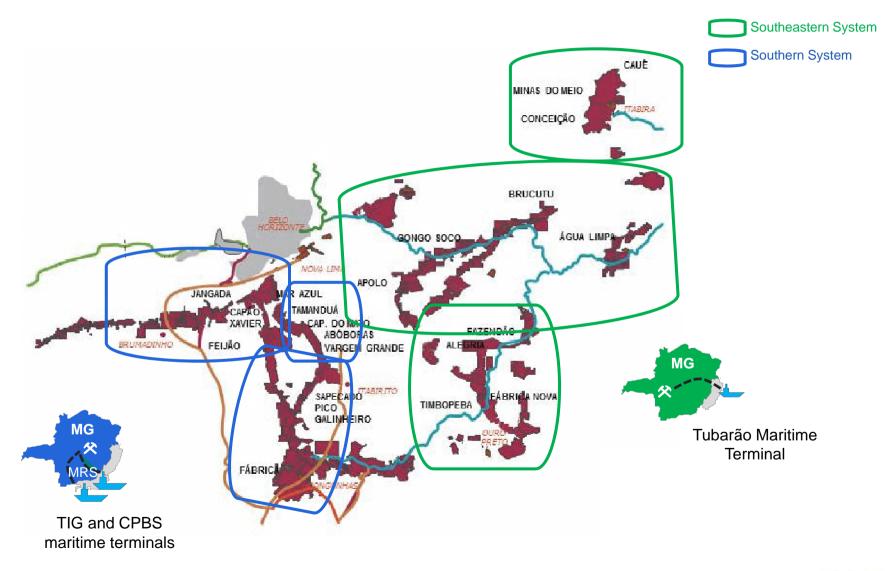
VALE

¹ Excluding manganese mines

² Excluding Samarco

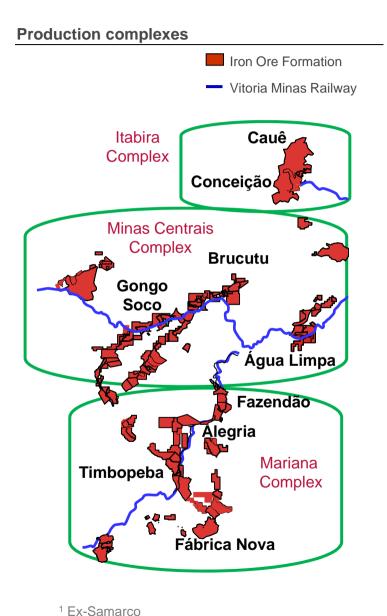
³ Excluding Samarco, Annyang and Zhuhai

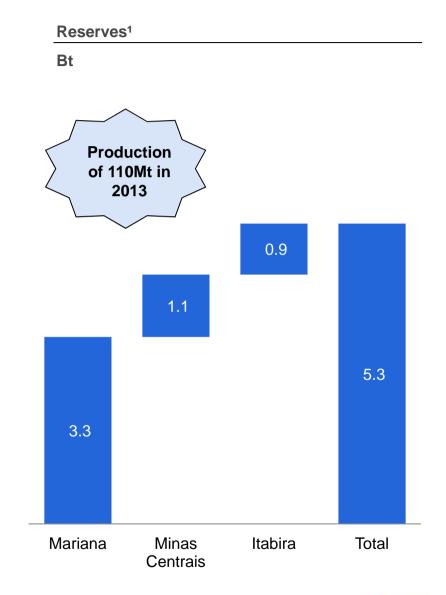
VALE'S SOUTH SYSTEM AND SOUTHEASTERN SYSTEM





VALE'S SOUTHEASTERN SYSTEM – RESERVES AND PRODUCTION





SOUTHEASTERN SYSTEM – EFVM RAILWAY AND TUBARÃO PORT

Vitória-Minas Railway (EFVM)



Tubarão Port



- Extension of 905 km¹
- Transportation of 40% of all railway cargoes in Brazil, carrying 60 products other than iron ore

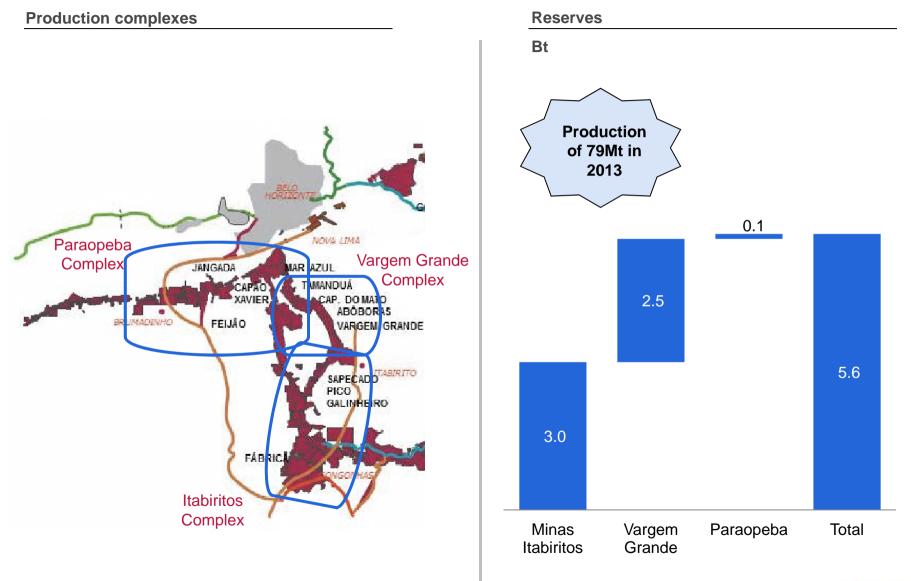
- 18 km² with 3 terminals
- Iron ore
- Praia Mole (mainly coal)
- Other products (General cargo)
- Iron Ore terminal with 20 meters draft, stockyard capacity of 3.4 Mt and 2 piers²

¹ 601 km of double track and 304 km of single track

² Pier I: 2 vessels at a time (170,000 DWT on the southern side and 200,000 DWT on the northern side) and 2 ship loaders; Pier II: one vessel up to 405,000 DWT at a time and 2 ship loaders



VALE'S SOUTHERN SYSTEM – RESERVES AND PRODUCTION





SOUTHERN SYSTEM LOGISTIC – MRS AND GUAÍBA/ITAGUAÍ

MRS Railway



Itaguaí Maritime Terminal



Guaíba Maritime Terminal



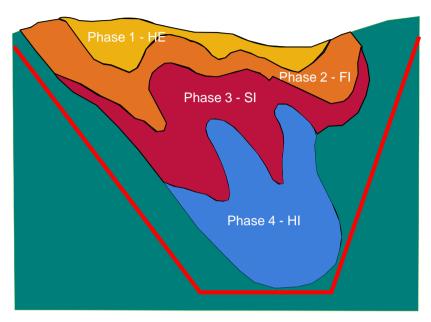
- Extension of 1,643 km
- Controlled by Vale, CSN, Usiminas and Gerdau
 - Vale has a 47.6% controlling stake in MRS

- Cia Portuária Baía de Sepetiba (CPBS) is a whollyowned subsidiary that operates the Itaguaí terminal
- Composed of 1 pier with 1 berth
- Capable of receiving vessels of up to 200,000 DWT (18 meters of draft)
- Composed of 1 pier with 2 berths
- Capable of receiving vessels of up to 350,000 DWT (20 meters of draft)



Evolution – From Hematite to Itabirite

EXPLOTATION PHASES - FROM HEMATITE TO ITABIRITES



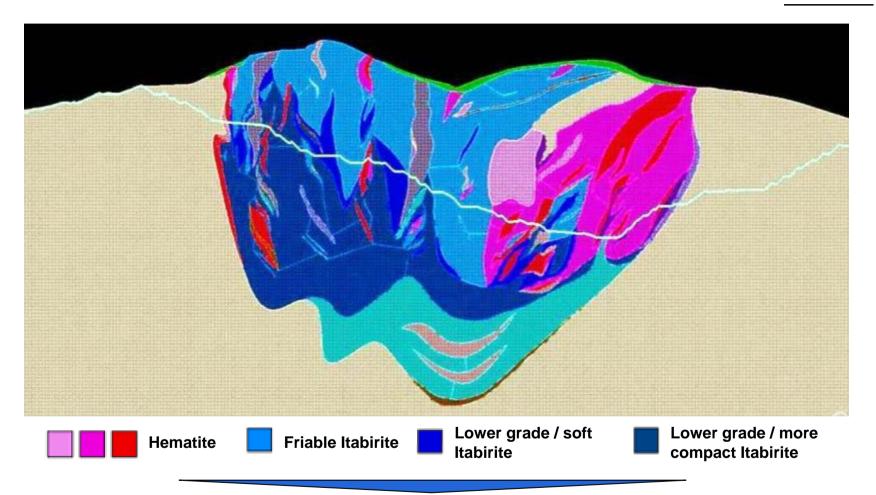
Phase	1	2	3	4
Ore type	Hematite (HE)	Friable Itabirite (FI)	Soft Itabirite (SI)	Hard Itabirite (HI)
Fe grade (%)	> 60 %	50-58%	40-50%	30-40%
Mass recovery (%)	75-100 %	70-75 %	50-60%	40-50 %
Tailings	-	25-30%	40-50%	50-60%
Final product	Lump ore Sinter feed	Sinter feed Pellet feed	Sinter feed Pellet feed	Pellet feed
Time line	1940-1960	1970-2000	2010	2012

Phases & Processes



CROSS SECTION FROM CONCEIÇÃO FINAL PIT 2008

Example

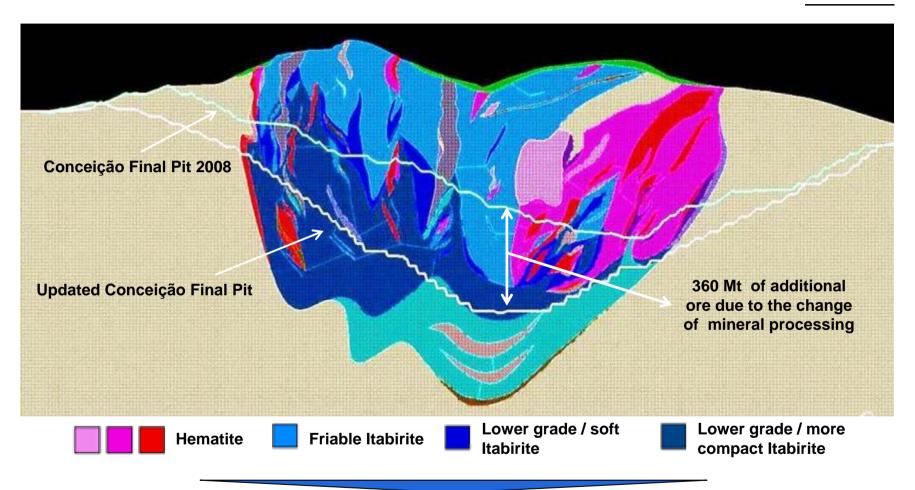


Conceição final pit estimated in 2008 did not optimize the mineral ore body due to the lack of processing capacity of more compact and lower grade itabirites



CROSS SECTION FROM UPDATED CONCEIÇÃO FINAL PIT

Example

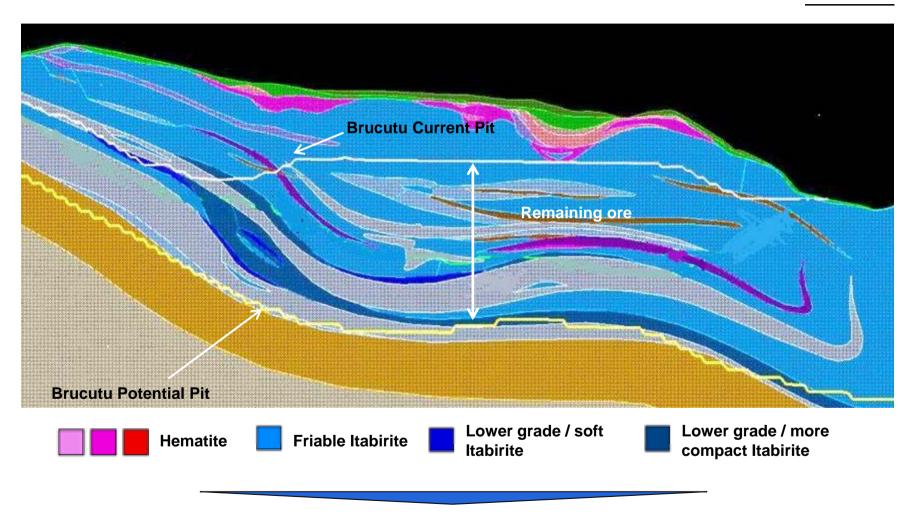


The new Itabiritos plants are able to process ore previously considered waste, increasing the life span of Vale's mineral assets



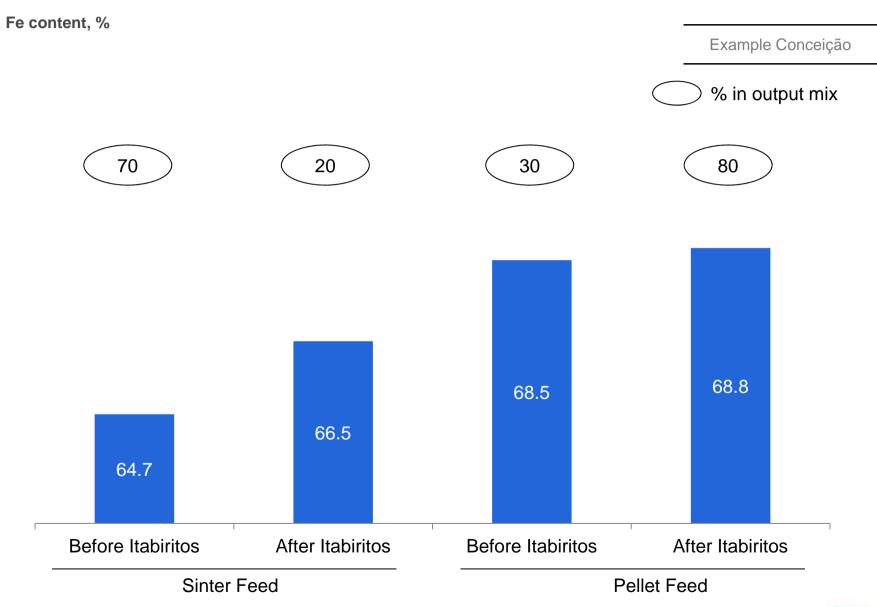
CROSS SECTION - BRUCUTU PIT POTENTIAL

Example



Additional volumes can be exploited in all mines with the Itabiritos projects





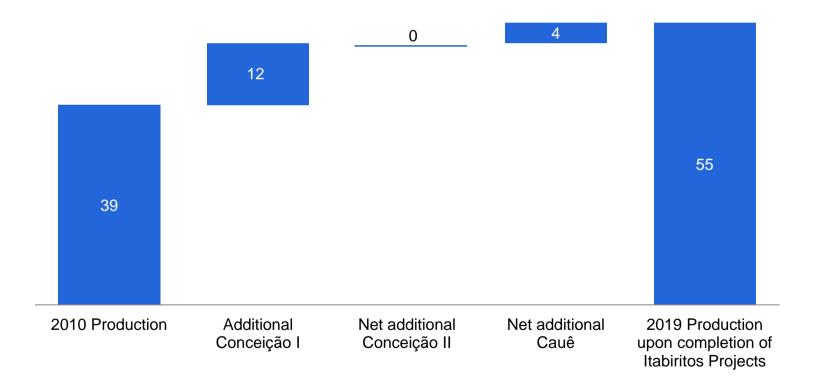
PRODUCT QUALITY IMPACT OF THE ITABIRITOS PROJECTS

VALE

Production Plan -Example of Itabira

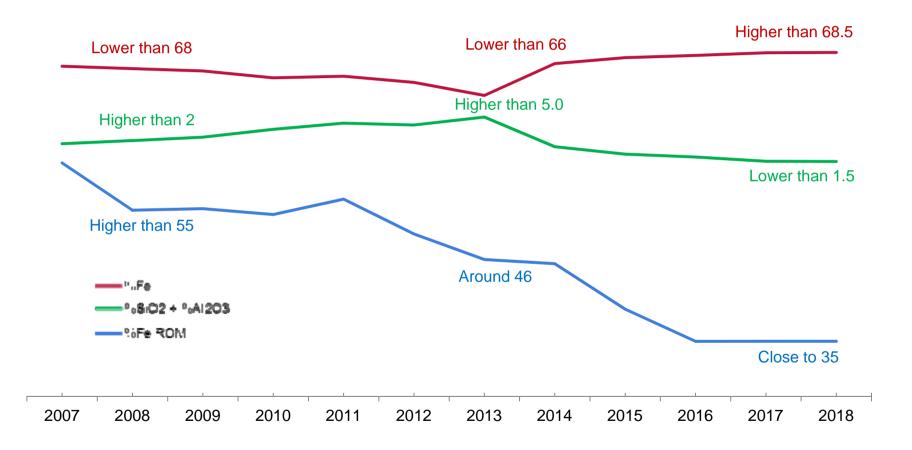
NET CAPACITY INCREASE WITH THE ITABIRITOS PROJECT

Example Itabira Complex

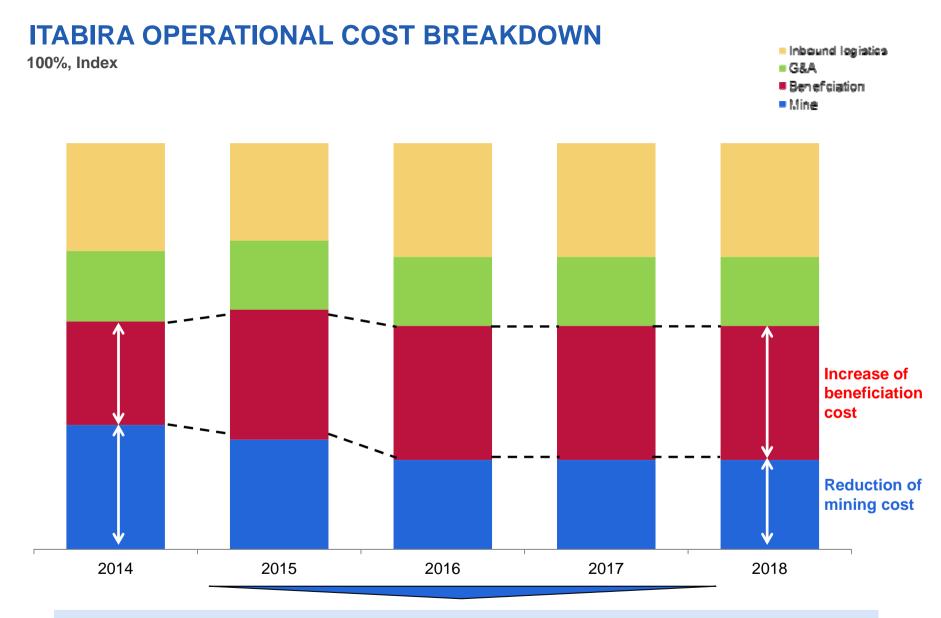




ITABIRA OPERATIONAL QUALITY EVOLUTION





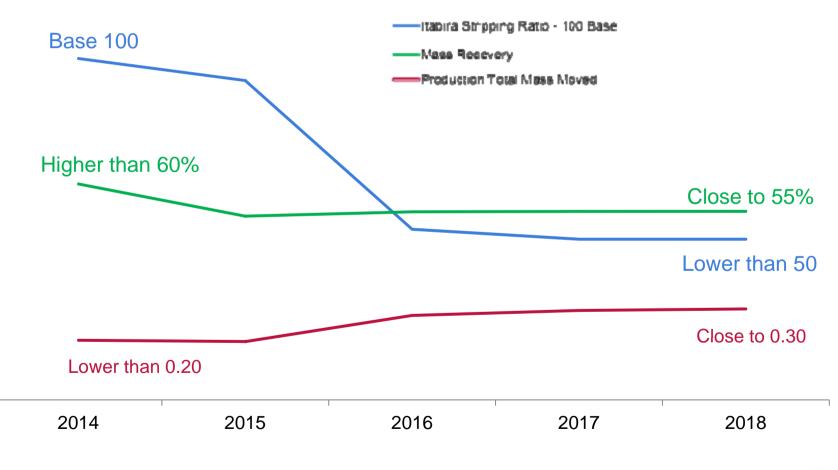


There is no significant impact in the total iron ore costs due to the Itabiritos projects



EVOLUTION OF COST DRIVES - ITABIRA COMPLEX

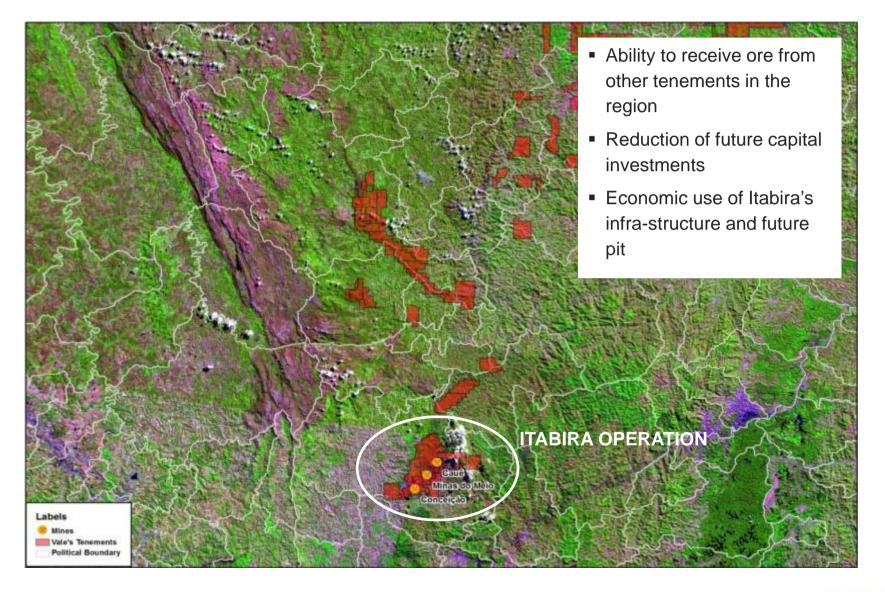
Non-Exhaustive





Extension of Itabira in the Future

HUB ITABIRA – A NEW LONG MINING CYCLE IS JUST STARTING...





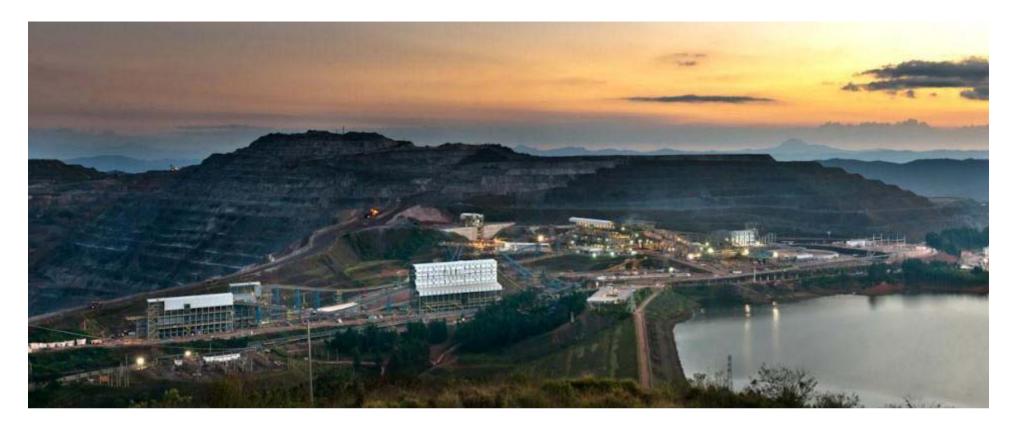




Investor Tour – Itabiritos Projects

Ivan Montenegro

Analyst & Investor Tour 2014



Itabiritos Projects

A total investment of US\$ 5.8 billion aiming at increasing the output capacity of the mines in Itabira and Vargem Grande, as well as improving the life cycle of those mines

Our values

Life matters most



Investing in training and behavior programs that contribute to the awareness of employees



Investing in new methods and technologies focusing on the prevention of risks and accidents



Life matters most



Support facilities



Volunteer actions



Improving together



In total, about **34,000 people** have already worked in the projects, **26,000** from Minas Gerais



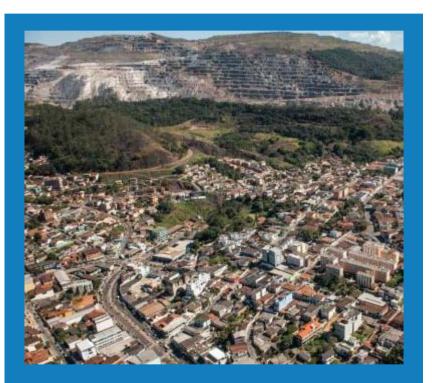
6,050 people were trained for first employment with the partnership of SENAI



Improving together



About **R\$ 750 million** already contracted from local suppliers



About **R\$ 72 million** already paid in local taxes



Prize our planet



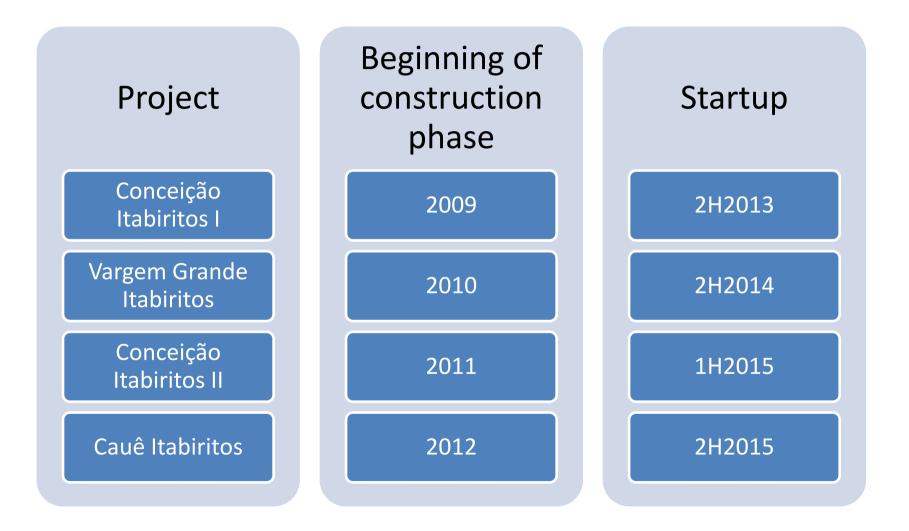
New plants provide for recirculation of approximately 80% of the water used during the operation



Reuse of waste from construction and demolished structures



Timeline



Conceição Itabiritos I

Construction of a new compact itabirite processing plant with low content of iron



✓ Capacity : 12 Mtpy

- ✓ Product Quality: 68.8% PF
- ✓ Capex: US\$ 1.173 billion
- ✓ Start-up: 2H/13
- ✓ Physical Progress: 100%
- ✓ Financial Progress: US\$ 1.061 billion



Product Pile





General View – Dry Process





General View – Wet Process





Grinding Stockyard





Grinding





High Frequency Screening





Product Thickener





Tailings Thickener





Filtering





Product Stockyard



Conceição Itabiritos II

Construction of new facilities and revamp of the existing plant in Conceição for the processing of compact itabirite

 Capacity: 19 Mtpy (13 Mtpy PF / 6 Mtpy SF)

Southern States of the Party of

- Product Quality: 68.9% PF and 66.3% SF
- Capex: US\$ 1.188 billion
- Mechanical Completion: 2H/14
- Startup: 1H/15
- Physical Progress: 90%
- Financial Progress: US\$ 780 million



Conceição Itabiritos II Project Macro Schedule

PROJECT PHASE	Phys. Prog. June/14	2010		2011		2012		2013		2014		2015	
		1H	2H	1H	2H	1H	2H	1H	2H	1H	2H	1H	2H
Project Approval in DCA	-			\diamond									
Detailed Engineering	100,0%			•						•			
Procurement	97,1%		•									-•	
Construction	70,2%				•							•	
Commissioning	0,9%						•						
Start-up	-											\diamond	









General View – Conceição Itabiritos II





Grinding





Product Thickener





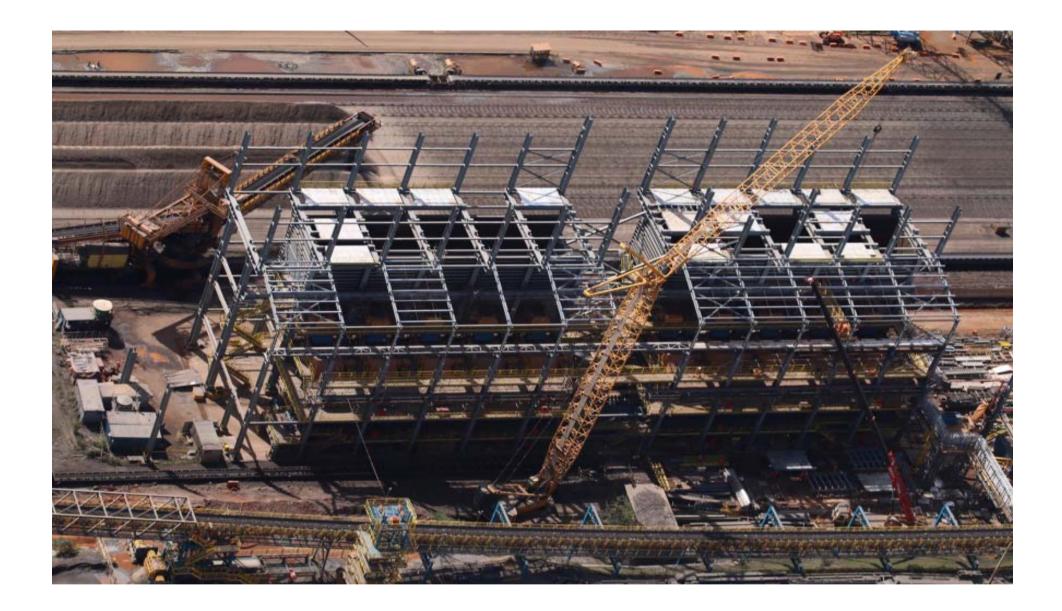
Tailings Thickener





Flotation



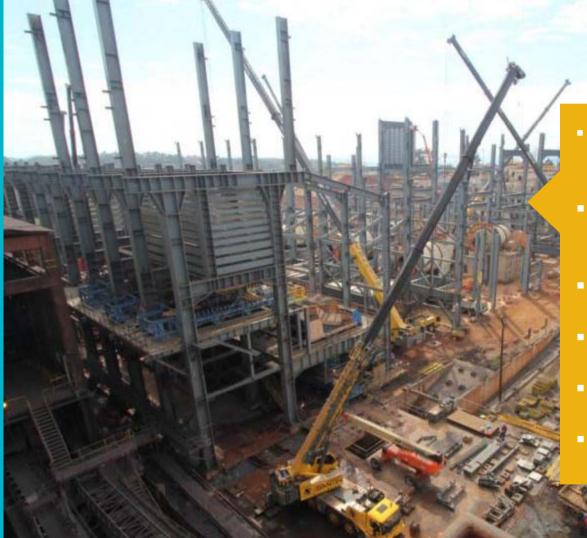


Screening



Cauê Itabiritos

Construction of new facilities and revamp of the existing plant in Cauê for the processing of compact Itabirite



- Capacity: 24 Mtpy (17 Mtpy PF and 7 Mtpy SF)
- Product Quality: 68.6% PF and 65.3% SF
- Capex: US\$ 1.504 billion
- Startup: 2H/15
- Physical Progress: 63%
- Financial Progress: US\$ 494 million

* Date from June 30/14

Cauê Itabiritos Project Macro Schedule

PROJECT PHASE	Phys. Prog. June/14	2011		2012		2013		2014		2015		2016	
		1H	2H	1H	2H	1H	2H	1H	2H	1H	2H	1H	2H
Project Approval in DCA	-			\diamond									
Detailed Engineering	99,9%		•					•					
Procurement	85,7%			•							•		
Construction	43,2%				•								
Commissioning	0,0%						•						
Startup	-										\diamond		





Project Plant 3D - Cauê Itabiritos



Project Plant 3D -Cauê Itabiritos





Crushing





Screening





Grinding





Main Substation





Flotation





Tailings Thickener



Vargem Grande Itabiritos

Construction of a processing plant composed by grinding, concentration plant and stockyard, interconnected with the Vargem Grande Pelletizing Plant



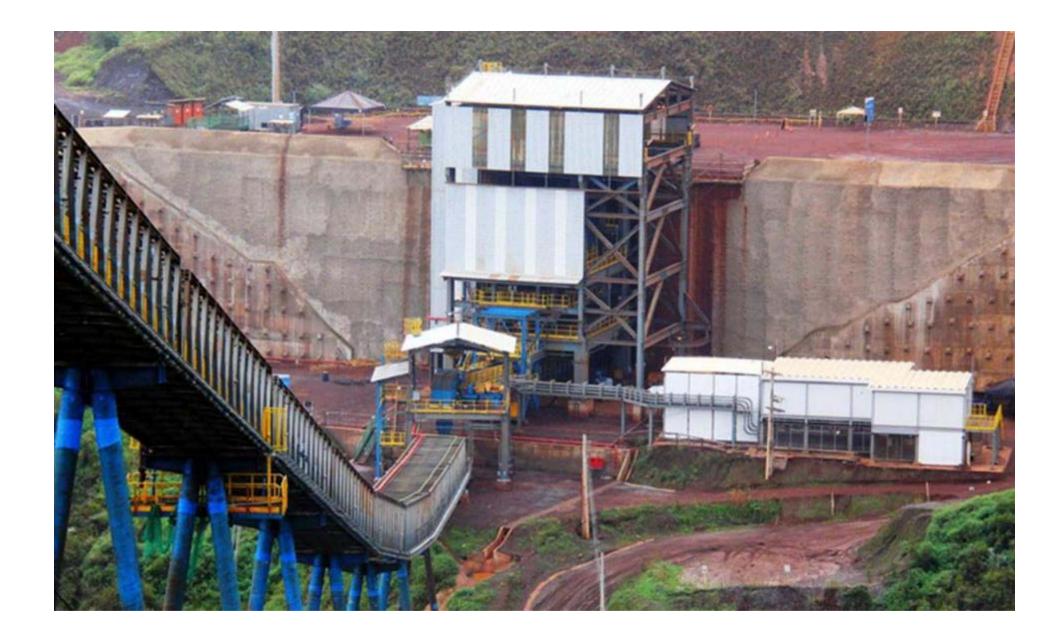
- Capacity: 10 Mtpy
- Product Quality: 68% PF
- Capex: US\$ 1.621 billion (ITM)
- Capex US\$ 289 million (TFA)
- Start-up: 2H/14
- Physical Progress: 92%
- Financial Progress: US\$ 1.506 billion

* Date from June 30/14

Vargem Grande Itabiritos Project Macro Schedule

PROJECT PHASE	Phys. Prog. June/14	2010		2011		2012		2013		2014		2015	
		1H	2H	1H	2H	1H	2H	1H	2H	1H	2H	1H	2H
Project Approval in DCA	-	\diamond											
Detailed Engineering	100%	•							-				
Procurement	97,2%	•											
Construction	90,3%		•										
Commissioning	15,2%									•	•		
Startup TCLD											\diamond		
Startup ITM	-										\diamond		





Primary Crushing





Primary Crushing Product





Screening





Crushing





Grinding





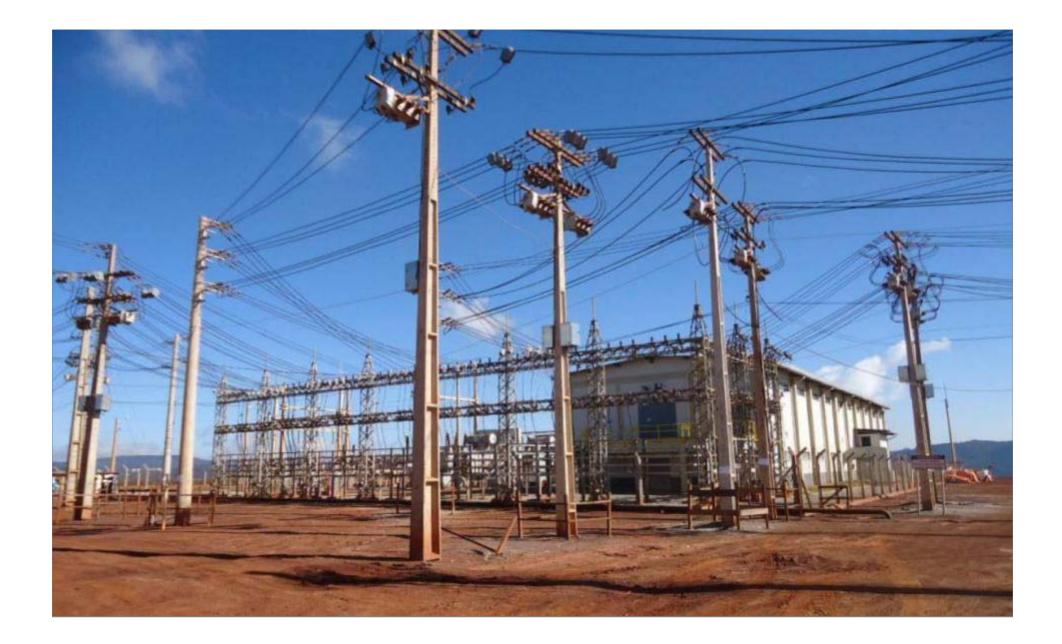






Long Distance Conveyor





Main Substation





General View - Vargem Grande Itabiritos





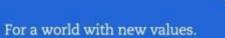
Product Reclaimer





Product Pile





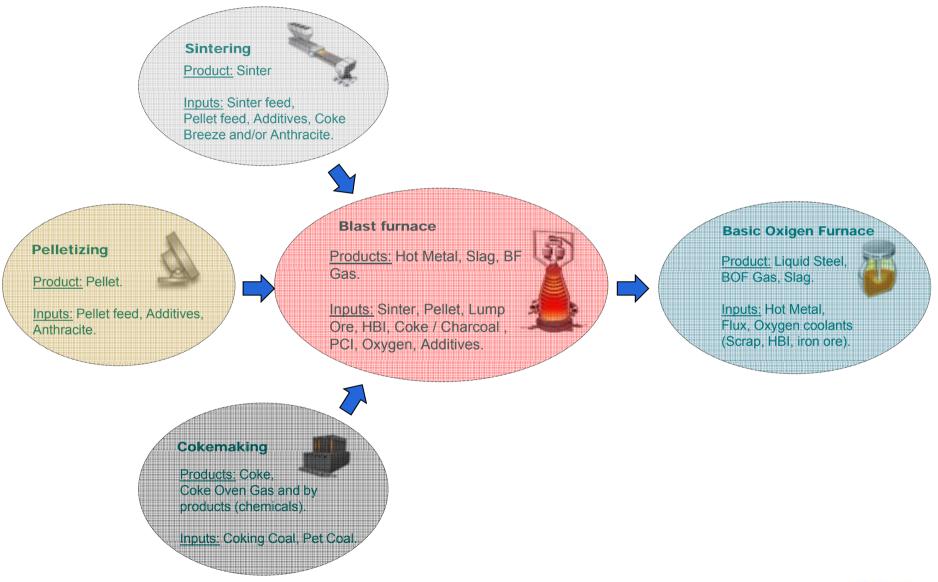


The impact of iron ore quality in the steelmaking process

Paulo Freitas Nogueira

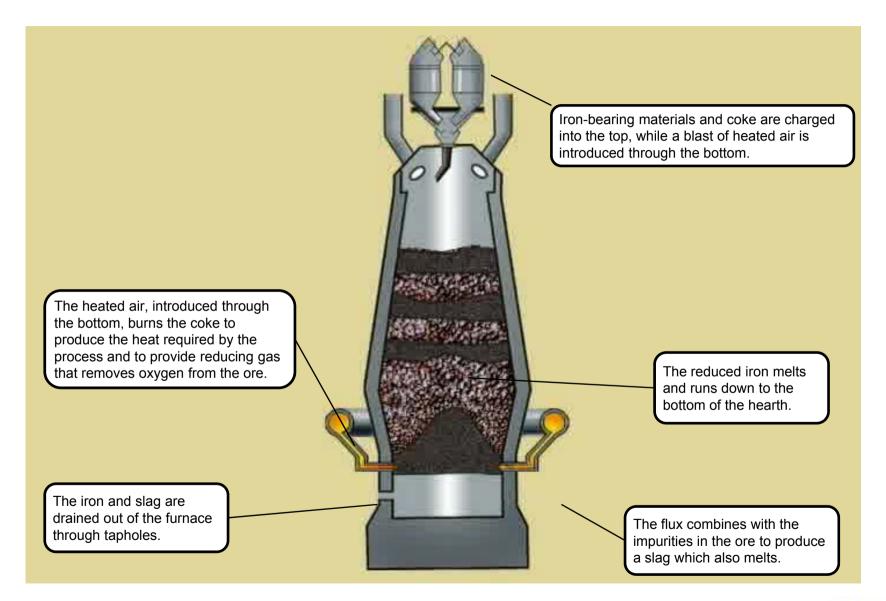
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THE BLAST FURNACE ROUTE FOR STEEL MAKING



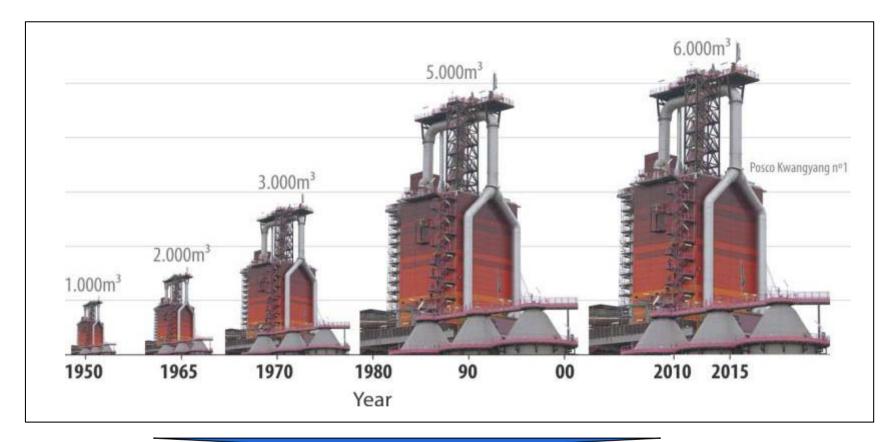


OVERVIEW OF A BLAST FURNACE PRODUCTION PROCESS





THE EVOLUTION OF THE BLAST FURNACE

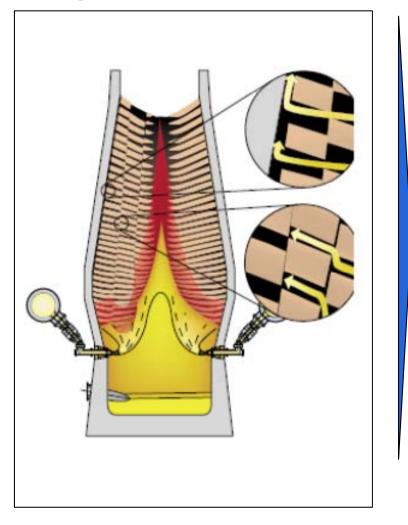


- Blast furnace efficiency improved due to the development in sintering, pelletizing and cokemaking
- Coke and metallic burden improvement allowed blast furnace volume to increase
 and Opex to decrease



COKING COAL IN THE BLAST FURNACE

Coking coal in the blast furnace



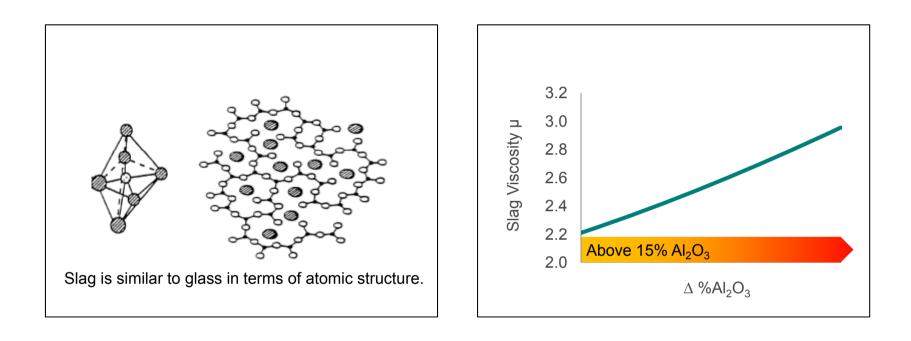
The role of coking coal

Reduction of ore

- Carbon removes oxygen from iron ore, producing metallic iron
- Provision of structural support
 - Coke retains its strength at temperatures above the melting point of pig iron and slag, providing the structural support that keeps the solid burden materials from falling into the hearth
 - Coke creates a lattice through which gas flows
- Generation of heat
 - Carbon in coke (and PCI) is burnt at the tuyeres with oxygen from the blast to generate the heat required by the blast furnace and subsequent processes



THE IMPACT OF ALUMINA AL₂O₃ (1/2)

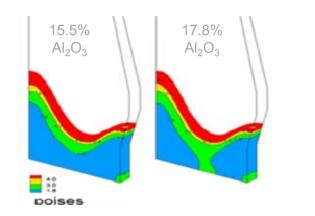


The higher the AI_2O_3 content in the iron ore, the higher the blast furnace slag viscosity restricting gas flow and demanding more coke to preserve process stability.



THE IMPACT OF ALUMINA AL₂O₃ (2/2)

Blast furnace slag viscosity

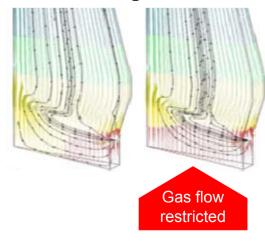


Higher Hot Metal Cost

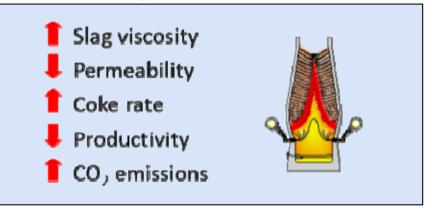
	Base case	Higher Al ₂ O ₃ after coke rate adjust
Sinter % Al ₂ O ₃	1.5%	2.1%
BF Slag % Al ₂ O ₃	15.5%	17.8%
Temperature	1617 °C	1622 °C
Coke rate (kg / t hot metal)	342	344

+ 2 kg coke / t hot metal

Blast furnace gas flow

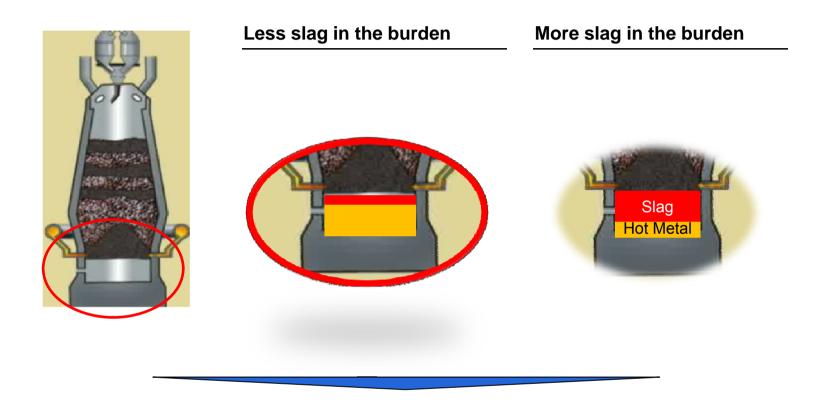


Impact of Al₂O₃ in Blast Furnace





THE IMPACT OF SILICA SiO₂ (1/2)



- The higher the SiO2 content, the higher the blast furnace slag rate
- Slag occupies hot metal's volume in the furnace, therefore, the more silica charged, the less hot metal is produced



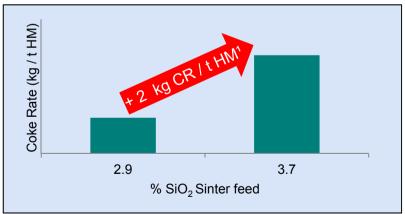
THE IMPACT OF SILICA SiO₂ (2/2)

Hypothetical case

Hypothetical Comparison

	Sinter feed 65	Sinter feed 62
Sinter feed (% SiO ₂)	2.9	3.7
Additives	175 kg / t	202 kg / t
Sinter (% Fe)	55.9	54.9

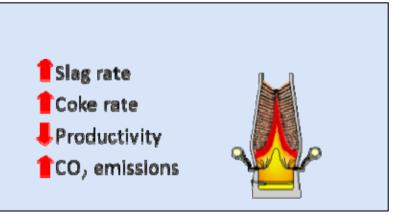
Coke Rate



Messages

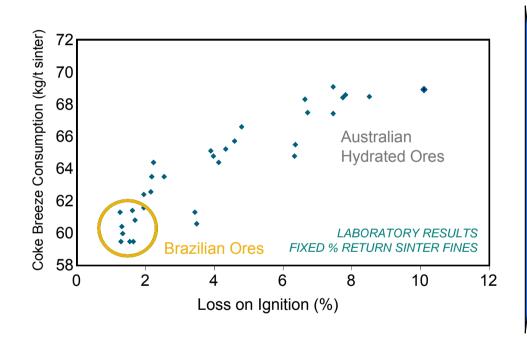
- As silica content increases, demand for additives in sintering increases to keep basicity constant, increasing consumption of fuel
- Vale's iron ores have the lowest average SiO2 content among the main global producers

Impact of silica in the blast furnace



THE IMPACT OF "LOSS ON IGNITION" (LOI)

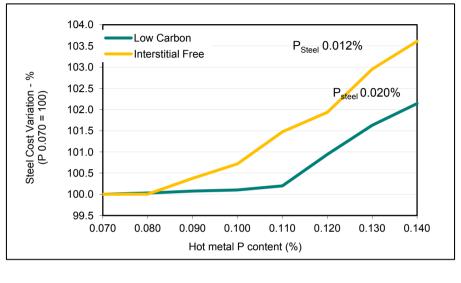
Coke Breeze Consumption

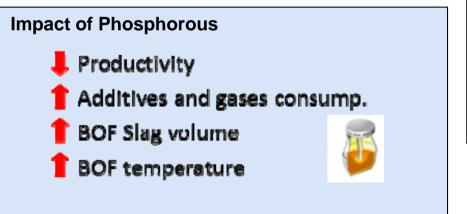


- Vale ores have lower "loss on ignition (LOI)", which decreases sinter plant fuel consumption and emissions
- Loss on ignition is related to the iron ore hydration degree
- The higher hydrated the ore, the higher the combined water content
- Increase in LOI leads to more coke breeze / anthracite demand



THE IMPACT OF PHOSPHOROUS (P)

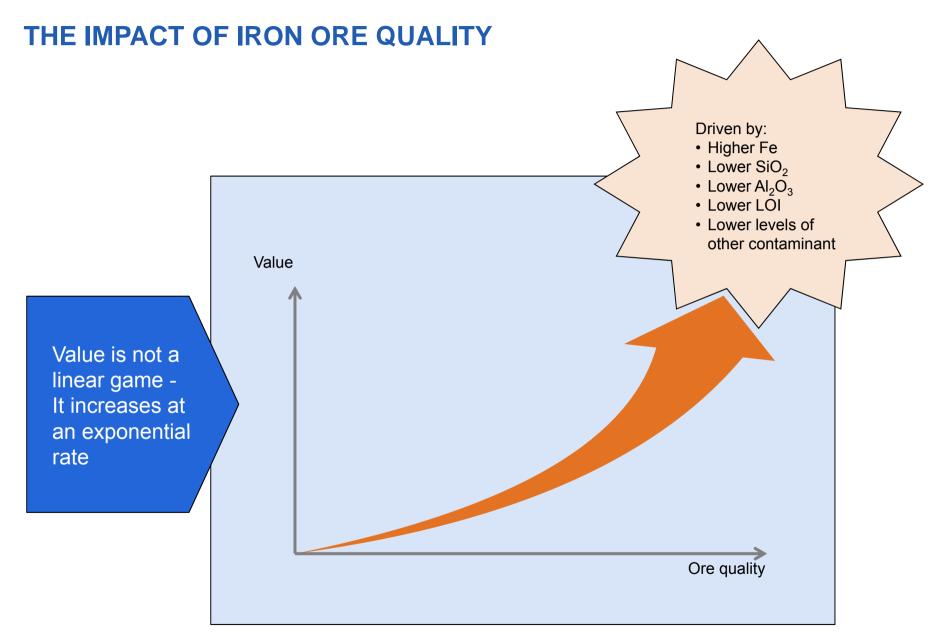




- Vale's Iron Ores have the lowest phosphorous (P) content among the main global producers
- Higher Hot Metal P content demands:
 - Higher additions of fluxing agents, resulting in a highly basic and fluid liquid slag
 - Higher consumption of oxygen – as consequence, productivity decreases



10









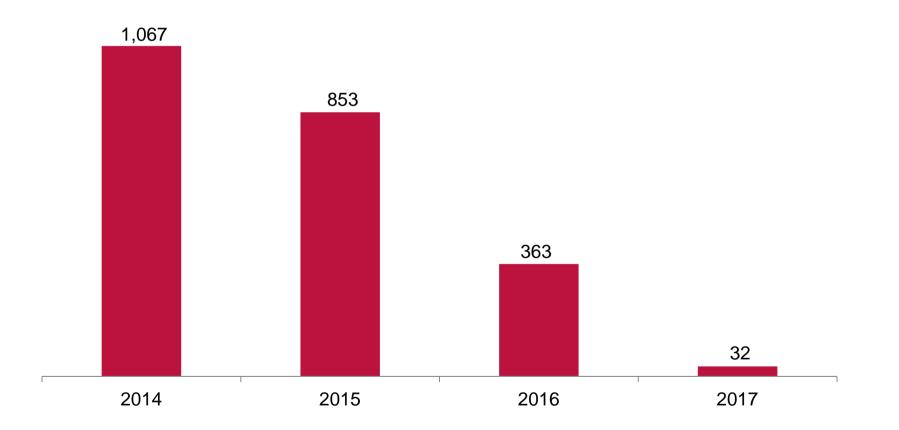
Investor Tour – Closing Remarks

Luciano Siani

Analyst & Investor Tour 2014

CAPEX PROFILE OF THE APPROVED ITABIRITOS PROJECTS US\$ million

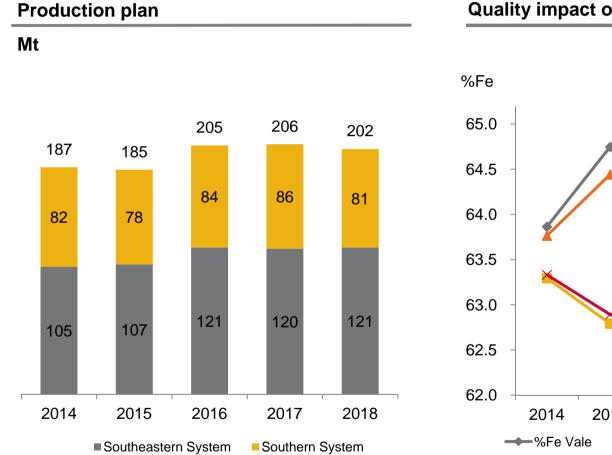
Approved projects only



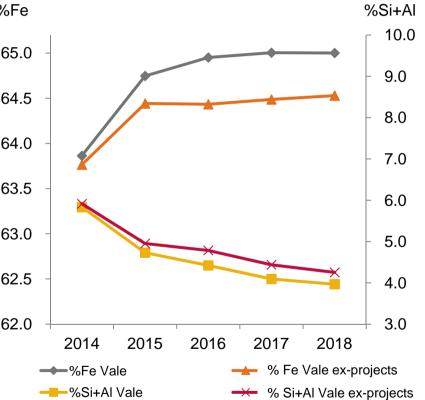


PRODUCTION AND QUALITY AFTER THE ITABIRITOS PROJECTS

Southern and Southeastern Systems



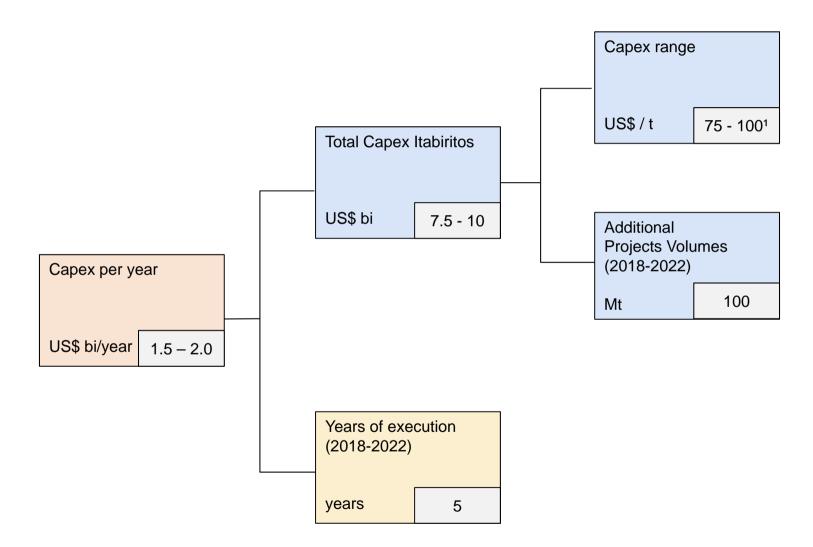
Quality impact of the Itabiritos projects





CAPEX PER YEAR – ITABIRITOS PROJECTS

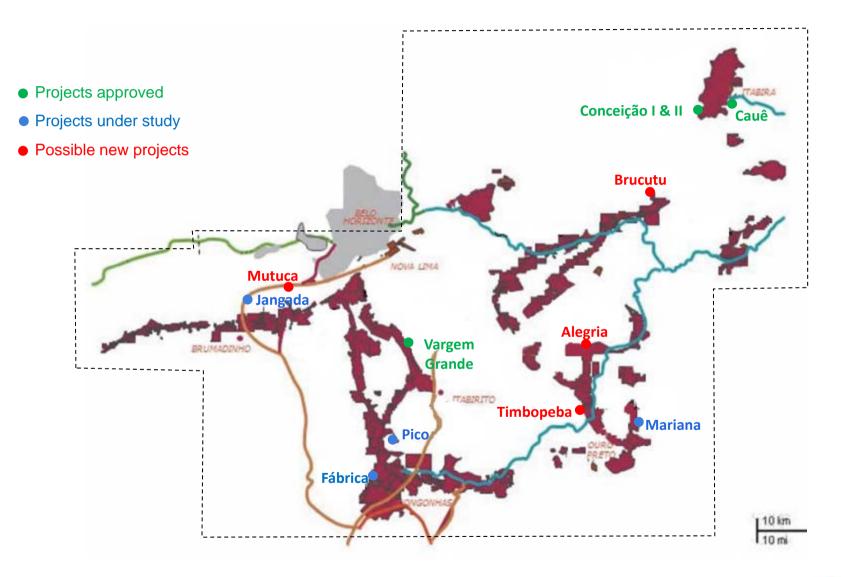
Rough Estimate



¹ Ongoing projects have capex of US\$ 63/t for both Conceição Itabiritos II and Cauê brownfield projects, and of US\$ 98/t for the Conceição Itabiritos I greenfield project.



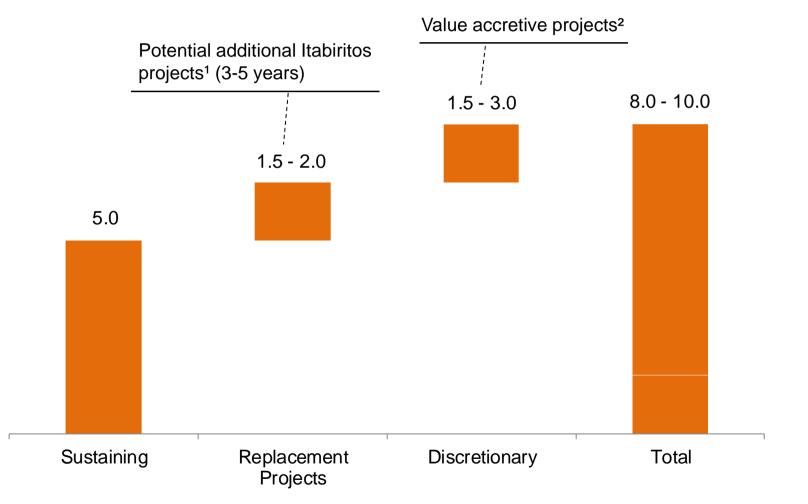
ITABIRITOS PROJECTS OPTIONS





PERSPECTIVE ON FUTURE CAPEX (POST-2018)

US\$ bi



¹ Fábrica (26 Mtpy), Jangada (15 Mtpy), Mariana (27 Mtpy) and ITM S Pico (27 Mtpy)

² Additional cash flow generation should be considered alongside the above referred capex





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Analyst & Investor Tour 2014