Vale in brief
Who we are

Vale is a **global** mining company committed to sustainable practices throughout its business chain.

Present in **five continents** and headquartered in Brazil, Vale is one of the biggest mining companies in the world. It is the world’s largest producer of iron ore, pellets and nickel.
Our History

Created by the Brazilian federal government on June 1st 1942, with its operations restricted to the state of Minas Gerais.

In its first year, it produced 40,000 tons of iron ore, the same amount it now ships out per hour.

Our business areas

Ferrous
• Iron ore and pellets, manganese and ferroalloys

Base metals
• Nickel, copper, cobalt and PGMs

Coal
• Metallurgical coal

Logistics
• Railways, port terminals, coastal navigation and logistical solutions

Fertilizers
• Potash, phosphate, nitrogen and others
Iron ore

Our mines are concentrated in Brazil, where we also operate pelletizing plants. Iron ore and pellets are raw materials essential to the steel manufacturing.

We are investing in technology to extend the lifespan of our iron ore mines, processing low-grade ores, expanding our production capacity and contributing to environmental protection.

We operate in the region of the Iron Quadrangle, in the state of Minas Gerais; in the Carajás Mining Complex, in the state of Pará; and in Corumbá's mines, in the state of Mato Grosso do Sul.
Iron ore production

Million tons

*Estimated production for 2015
Base metals

Nickel

Essential metal for the production of items such as cars and coins. We operate nickel mines in Brazil, Canada, Indonesia, and New Caledonia as well as fully-owned and joint venture refineries in China, South Korea, Japan, U.K. and Taiwan.
Base metals

Copper

Copper is used in electrical applications. We produce copper in Brazil, Canada and Zambia. Our operations in Brazil, located in Carajás, benefit from our pre-existing logistical infrastructure originally built to transport iron ore.

Sossego Mine / PA - Marcelo Coelho/ Vale
Our coal operations and projects are located in Mozambique and Australia. We are also participating in two joint ventures in China for production of metallurgical coal and coke.

Moatize mine, in Mozambique, is our main investment in the coal segment.
Fertilizers

Brazil is the world’s fourth biggest consumer of fertilizers. Global demand for food has been increasing and, to meet this demand, we produce potash, phosphates and nitrogen – three major nutrients for the production of fertilizers.

We currently produce fertilizer nutrients in Brazil and Peru.

Taquari-Vassouras Mine, in Brazil - Dario Zalis / Vale
Some of our main projects

Carajás Serra Sul S11D
Located on the Southern range of Carajás, this project will reach a 90 Mtpy capacity and will allow Vale to keep its position of worldwide leader in iron ore supplying. The ongoing project will save 93% of water and 77% of fuel and reduce 50% of the greenhouse gases emission, when compared to standard operations. Start-up is estimated for 2H16.

CLN S11D
Increasing of the Northern System’s logistics capacity in order to support the S11D Project. It includes the duplication of approximately 570 km of railway, the construction of a 101 km rail spur, the acquisition of wagons and locomotives, and expansions at the Ponta da Madeira maritime terminal.
Some of our main projects

**Itabirites Projects**
In the Brazilian state of Minas Gerais, Vale is developing one of the largest revamp projects in the mining industry: Itabirites. Involving investment of US$ 5.5 billion to construct and adapt processing plants, it will make possible to reuse low-grade iron ore that has been stockpiled over the last four decades. Investment in processing technologies will expand current production volumes and extend the lifespan of three mines: Vargem Grande, in Nova Lima, in the metropolitan region of Belo Horizonte, and Conceição and Cauê, both in Itabira. The work should be completed by the start of next year.

**Moatize II**
Expansion of Moatize coal mine, in Mozambique. The mine’s nominal production capacity will reach 22Mtpy. Start-up estimated for 2H15.

**Nacala Corridor**
The project contemplates the renovation of the existing railway and the construction of two new sections, including the one that will lead to Nacala-à-Velha maritime terminal, in Nacala, Mozambique. The greenfield sections of the project have already started up, but some brownfield section are still under work.
Sustainability is one of the strategic pillars of Vale, based on the concept that there is only sustainable development when the company and the society work together, sharing the value created with its stakeholders.
Social Responsibility

For Vale, **social responsibility** means:

- To build a relationship of trust and mutual respect with communities in the territories where it operates
- To mitigate the negative impacts caused by its enterprises and to maximize the positive impacts
- To contribute to local development and to build a legacy in the territories, acting voluntarily and in line with public policies

In **2014**, we invested **US$ 270 million** in social responsibility initiatives - including activities and projects of Vale Foundation, that acted in 107 Brazilian towns and cities.

Source: 2014 Sustainability Report
Environmental Responsibility

We are committed to using natural resources in a sustainable manner:

• We protect 15,200 km² of natural area through our own initiatives and partnerships.

• Approximately 97% of the Carajás National Forest is protected. Less than 3% is occupied by Vale's operations.

• Target to reduce global emissions and greenhouse gases by 5% in 2020

• We invest in energy efficiency and technological innovation: our energy matrix is composed of 21% of renewable energy

• In 2014, 76% of the water in our operations was reused and we no longer extract 1.13 million m³ from natural resources.

Source: 2014 Sustainability Report
For a world with new values.