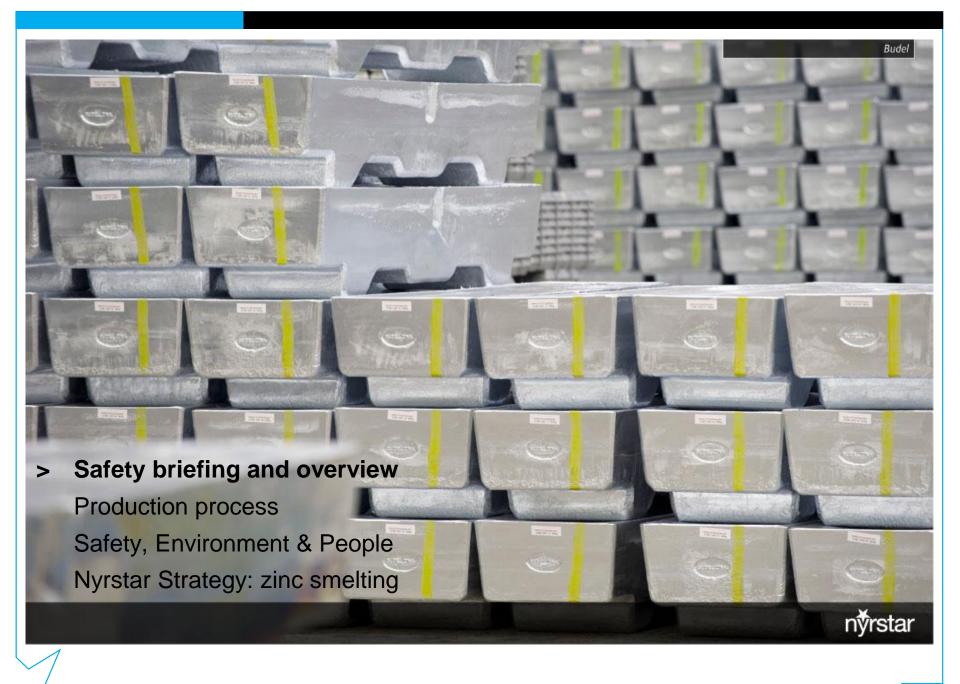






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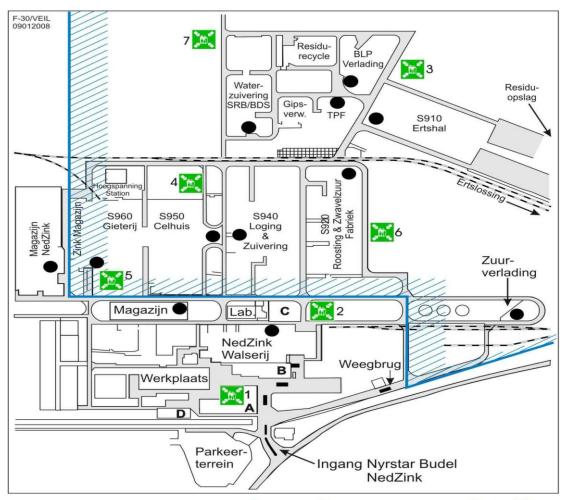


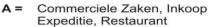
Safety Briefing

 You are required to wear the visitor's pass so that it is visible to others and to hand it in when you leave.

Conditions of entry:

- When you visit the production location or workplace, your host will ensure that you receive additional safety information and safety equipment beforehand.
- Evacuation alarm.
- If, during your visit, you witness an incident, near incident, or hazardous situation, please report it to your host.
- The same is true if you suffer any injury during your visit.





























Verzamelplaats bij Ontruiming



Nyrstar at a glance

Nyrstar is an integrated mining and metals business, with market leading positions in zinc and lead, and growing positions in other base and precious metals; essential resources that are fuelling the rapid urbanisation and industrialisation of our changing world. Nyrstar has its corporate office in Switzerland and is listed on NYSE Euronext Brussels under the symbol NYR.

Campo Morado, Mexico

El Mochito, Honduras

Contonga, Peru

Coricancha, Peru

Langlois, Canada

- One of the world's largest integrated zinc producers
 - 1.1 million tpa zinc metal
 - 475,000 tpa zinc in concentrate¹
- Market leading position in lead
- Expanding multi-metals footprint
 - Copper, gold, silver and lead
- Nine mining operations
- Five zinc smelters, one lead smelter
- Employing over 7,000 people across five continents

Geographically diverse multi-asset footprint

Simstar Allovs (Interest 50%), Australia

Clarksville, USA

Port Pirie, Australia

Ironbark Zinc Ltd. (Interest 26.5%), Greenland

Genesis (Interest 50%), China

Herencia (Interest 10.03%), Chile

Talvivaara (Streaming Agreement), Finland

Tennessee Mines, USA Pucarrajo, Peru

Myra Falls, Canada

Pucarrajo, Peru

Aubv. France

Balen/Overpelt, Belgium

Fast facts

Location

- Budel, south-east of the Netherlands near the Belgian border
- Important link in the Dutch and EU supply chain
- Strategically located close to major customers

Technology

 Roast, leach, electrolysis (RLE) smelting, and a unique biological waste water treatment plant

Main products

- Special high grade (SHG) zinc, zinc alloys and sulphuric acid
- (other products include cadmium, copper, cobalt cake and Budel Leach Product)

Employees

449 (at end of 2012)

2012 production

- 257,000 tonnes zinc metal



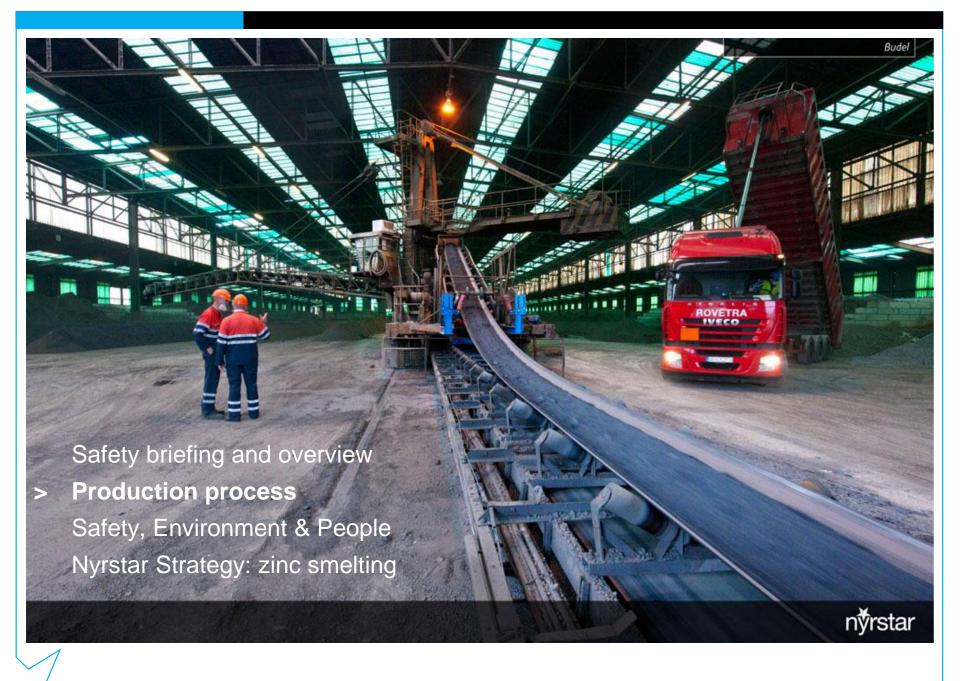


Introduction – Site history

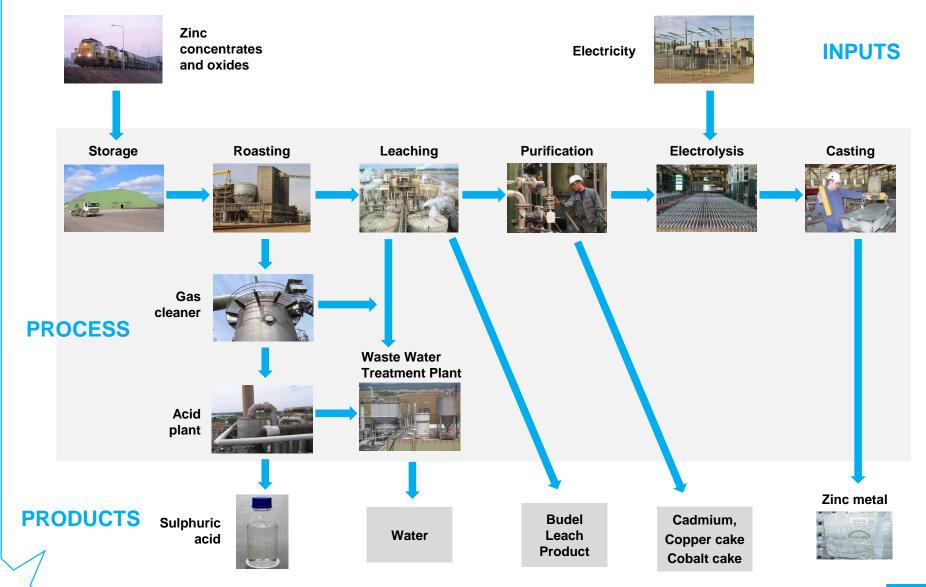
1892–1973	Pyro-metallurgical zinc production in Budel – KZM
1973	Start hydro-metallurgical zinc production
	Budelco joint venture: 50% Billiton (Shell) / 50% AMSE (CRA)
1988	Establishment of Pasminco
1992	Start-up biological groundwater treatment plant
1993	Comprehensive environmental agreement with Province Noord-Brabant
	and Dutch State
1995	Pasminco takes 100% ownership of Budel smelter
1997	Commencement of change-over modifications
1999	Termination of production / storage of residues
2000	Supply of first Century Zinc concentrate
2004	Increase rectifier capacity to allow 230,000 tonnes zinc metal per annum
2006	Production capacity expanded to 260,000 tonnes zinc metal per annum
2007	Nyrstar created







Budel smelter process flow



Budel production process

Feed mix to Roasting

25% Oxide, 75% low iron concentrates

Calcine Production

- 95% Roaster On-Stream Factor, Intensity 32.0 dry metric tonnes/hr feed
- Balanced to Cathode Production + Supplemented by Direct Leach Oxides

Acid production

93% sulphur recovery, 1.2 – 1.4 tonnes H2SO4 for every 1 tonne market metal

Leach / Purification

- ≈ 98.5% zinc recovery
- Budel Leach Product contains all Pb and Ag payable in feed, Fe and SiO2
- Cadmium, Copper Cake and Ni-Co cakes produced as payable by-products

Electrolysis

- 91-93% Current Efficiency
- Recycle 4% of cathode for production of zinc dust used in purification
- Approximately 4,000 tonnes zinc contained in liquor sold per annum

Casting

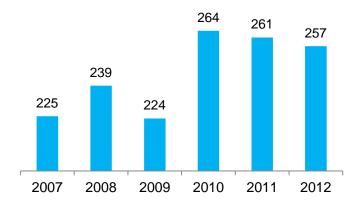
- 1% dross make (all recycled)
- SHG liquid, slab + jumbo capacity
- CGG capacity up to 50% of total market metal volume
- Specialty alloys up to 20% of total market metal volume

Energy consumption

- Electrolytic zinc production is an energy-intensive activity
- Industry average energy-intensity per tonne of zinc metal:
 - ≈ 4,100 kWh electricity
 - ≈ 85% is non-energetic energy consumption for electrolysis
 - ~ 15% is energetic energy consumption for cathode melting and rotating equipment
 - ≈ 170 kWh other energy sources (gas, oil)
- Budel is one of the most (top 10) energy efficient zinc smelters worldwide
 - Participant of Energy Benchmarking Covenant
 - Participant MEE (successor program to the Benchmarking Covenant)
 - Actively assessing a range of "Green Energy" projects
- Applying for CO₂ emission credits in line with EU and NL regulations

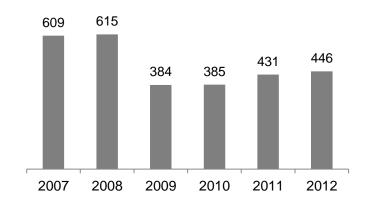
Operational and Cost Performance

Annual zinc metal production (tonnes)

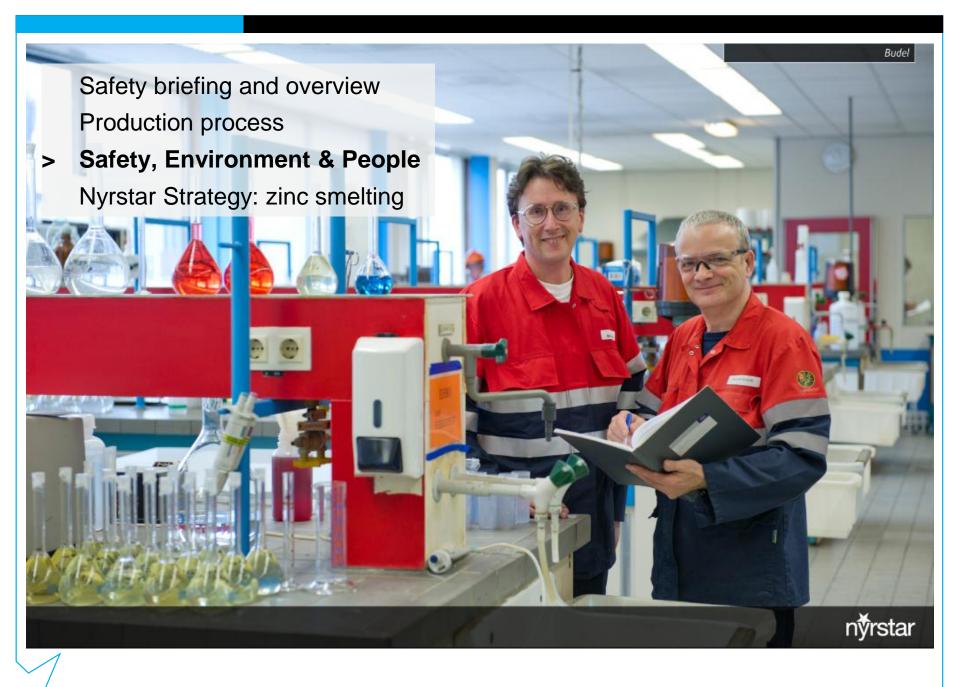


- Zinc production capacity approximately 260,000 tonnes per annum
- To address supply-demand balance during global financial crisis operated at reduced capacity in H2 2008 and H1 2009
- Delivered consistently solid performance over last three years

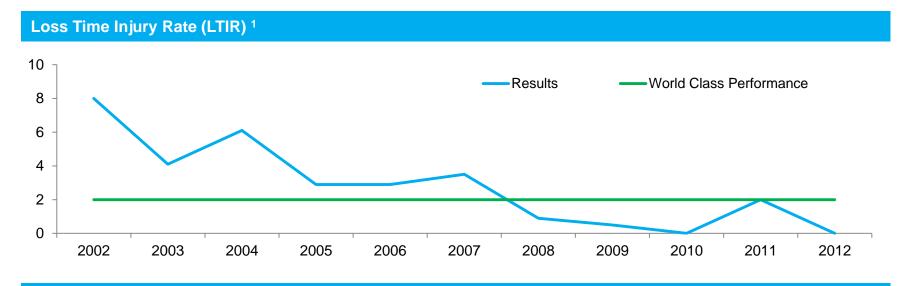
Operating cost per tonne (EUR/tonne zinc)



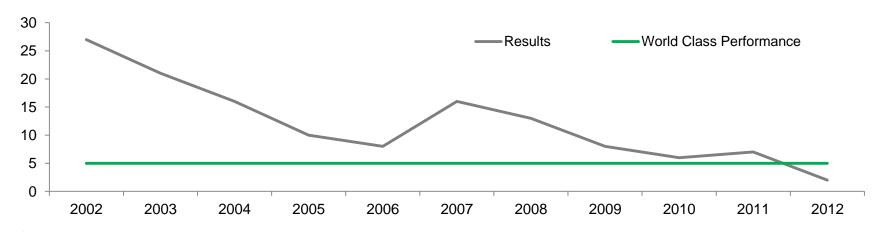
- Following group-wide restructuring in 2008, operating costs (EUR/tonne) have been at low and stable levels since 2009
- Cost per tonne performance is one of the best amongst Nyrstar's smelters
- Operational excellence and Project Lean will support our ability to make further improvements



Safety: Budel is a "World Class" zinc smelter



Recordable Injury Rate (RIR) 1



1 Lost Time Injury Rate (LTIR) and Recordable Injury Rate (RIR) are 12 month rolling averages of the number of lost time injuries and recordable injuries (respectively) per million hours worked, and include all employees and contractors at all operations. Prior period data can change to account for the reclassification of incidents following the period end date.

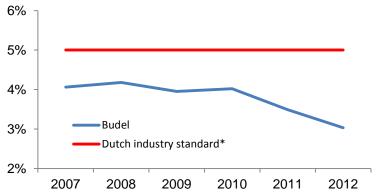
2 World class performance based on international oil and gas industry health and safety data

Environment: Budel is among world's cleanest zinc smelters, with a very low environmental footprint

- Waste free production process with historical issues managed
- Bacteriological water purification based on sulphide chemistry
- Best in class waste water quality
- Further increases metal recovery
- Minimal emissions SO2, NOx
- Remediated site, ≈ 2 million metres³ material excavated
- Historical ground water contamination, controlled since 1992
- Residue ponds covered 1996 2008
- Significant contributor to the reduction of CO₂ in the EU by supplying zinc for corrosion protection of steel

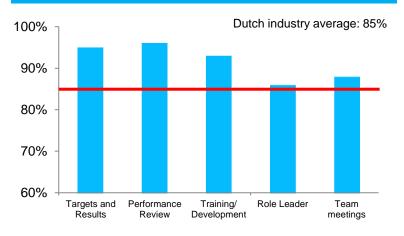
People

Absenteeism





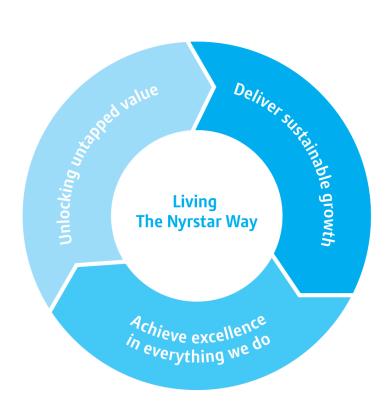
Employee survey on working satisfaction**





- Well trained and flexible workforce (449 employees at end of 2012)
- Operational Excellence teams

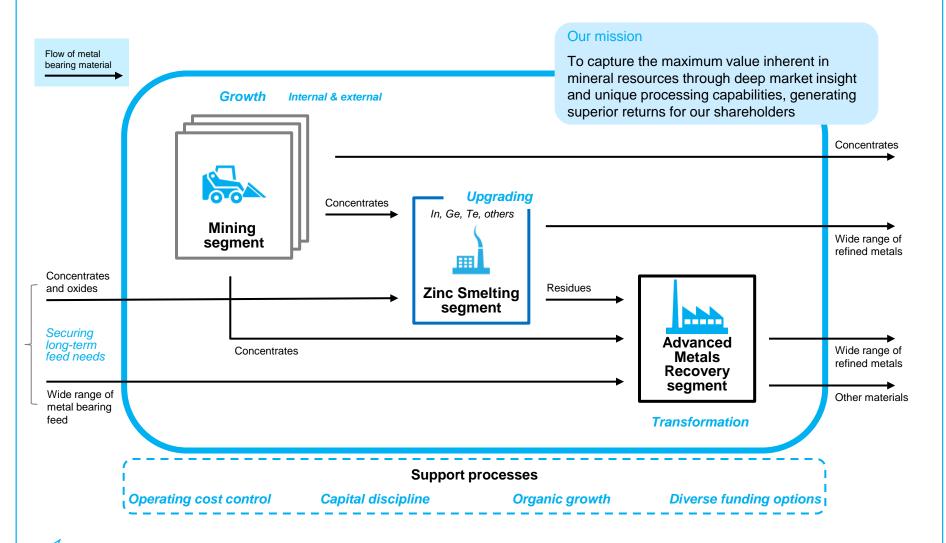




Safety briefing and overview
Production process
Safety, Environment & People

> Nyrstar Strategy: zinc smelting

Building integrated industrial system (operational and commercial) to capture maximum metal value, driven by a strong industrial mind-set



Commenced Smelting Strategic Review aimed at identifying opportunities to sustainably improve profitability of zinc smelting business

Range of metals extracted

Nyrstar today

Smelter feed-book optimisation in progress

'New world' smelting strategy

- Focus on increasing value captured from all metals in flow
- Build feed-book around highest value concentrates
- Develop feed-book and technical solutions in parallel
- Globally optimise the system to maximise value, even if it involves a reduction in capacity



- Focus on increasing zinc volume to reduce costs per tonne
- Build feed-book with only benchmark concentrates
- Provide static feed to sites aligned with technical process

Value

Summary

- Important link in Dutch and EU supply chain
- Strategically located close to major customers
- 120 years of industrial heritage
- 25% of raw materials input from recycled material
- Top 10 most energy efficient smelters in the world
- Among world's cleanest zinc smelters
- Well trained and flexible work force
- Strong ties with local community

Questions

