Indium facility at the Auby smelter



20 September 2012 **Xavier Constant** Technology Manager, Auby smelter

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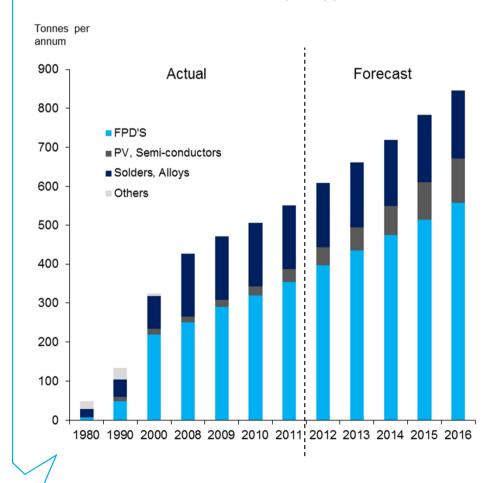
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Indium and its markets Alignment to strategy Project execution Process

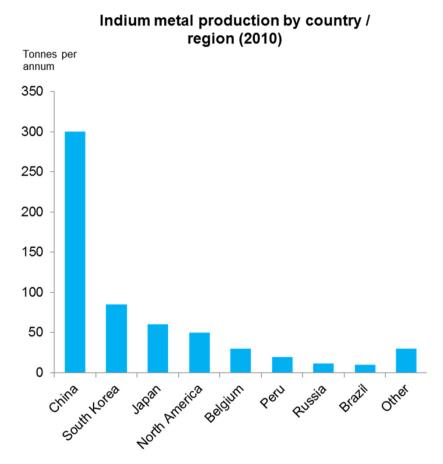
Growing demand for indium and its industrial applications

Indium net demand per application

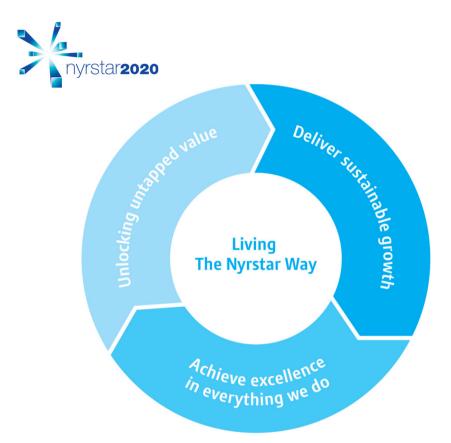


- Indium is a rare, soft, silvery, metallic element
- Global demand for indium has increased substantially in recent years
- Driven by its main application, as indium tin oxide, for use in flat panel displays (FPDs)
- Photovoltaic cells are a growing application of indium, in the form of indium tin oxide (ITO) or CIGS material (copper, indium, gallium, selenide)
- Traditional market for solders and alloys remains stable.
- A substitute for indium in the medium term is not currently foreseen

Sources of indium and indium metal production



- Indium is found in some tin and zinc concentrates
- Typical indium content in indium bearing zinc concentrates is between 100 and 800 parts per million (ppm)
- Some zinc refiners are capturing the value of indium from their raw material feed and historical residues
- Typically, Nyrstar sources indium from two 'groups' of concentrates: South American and North American / European
- China produces approximately 50% of the world's primary indium, from approximately 15 different plants
- Recycling facilities are mostly installed in Asia,
 Japan and South Korea, close to the customers of indium tin oxides



Indium and its markets

Alignment to strategyProject executionProcess

Nyrstar2020 strategy clearly articulated into a vision and mission, with Strategy into Action providing a clear focus on consistently delivering performance

nyrstar2020

Our 2020 vision

What we want to be

To be the leading integrated mining and metals business

Strategy into Action

Disciplined approach to taking the strategy into every part of the business, and engaging the entire workforce to achieve Nyrstar's vision of being the leading integrated mining and metals business

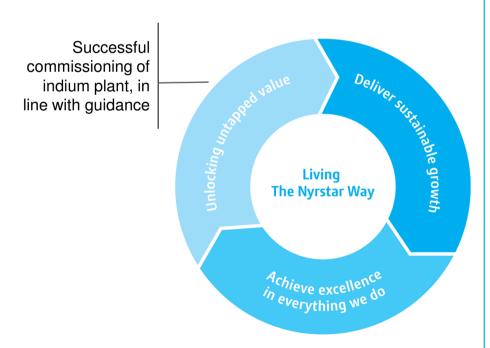
Focus in 2012

Putting our Strategy into Action with a clear focus on delivering performance from our existing assets and pursuing both internal and external growth opportunities

Our mission

What we need to do to get there

To capture the maximum value inherent in mineral resources through deep market insight and unique processing capabilities, generating superior returns for our shareholders



Deliver sustainable growth and unlock untapped value through internal growth opportunities, such as the indium metal project at Auby

 All internal growth opportunities are continually prioritised based on strict criteria as part of Nyrstar's capital allocation process

EBITDA

2012

2013

Nyrstar has made substantial progress in building a growing pipeline of internal growth initiatives Cost reduction Throughput Metal recovery By-product revenue Indium Metal Bubble size indicates capital expenditure

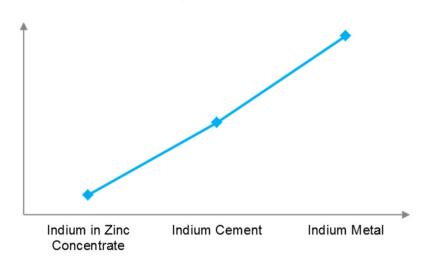
2014

2015

2016

Investment rationale for commissioing an indium metal facility

Indium value captured at the different stages of production

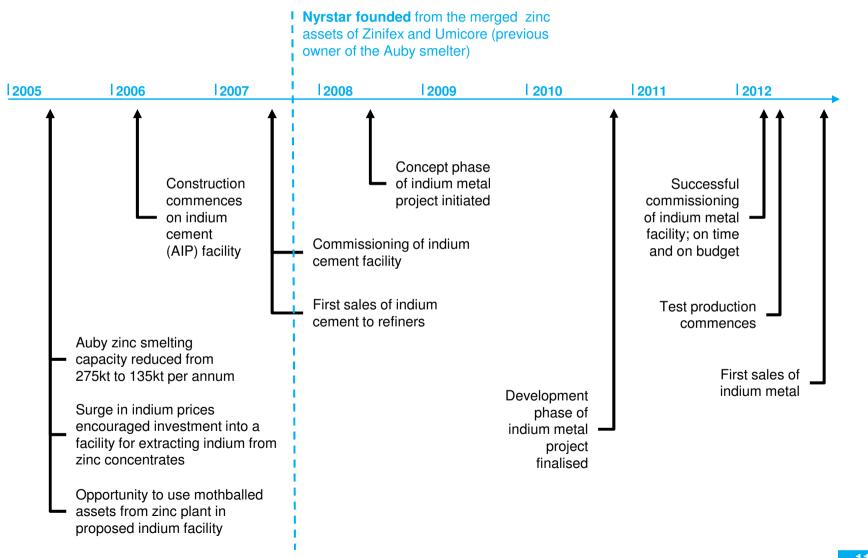


- The indium metal project is an example of unlocking further untapped value from the raw material feed received by Nyrstar's smelters
- Since 2007, the Auby smelter produced an intermediate indium cement product (AIP) which captured some of the value of indium

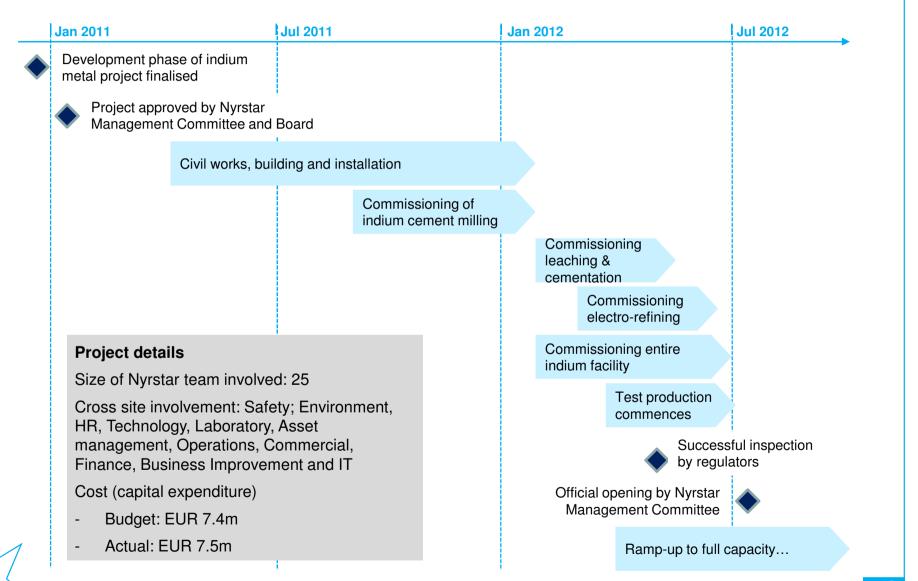
- With the ability to produce refined indium metal, Nyrstar can capture a higher amount of the value of indium
- Given conversion costs (people, energy and other costs) of converting indium in concentrate to indium metal, Nyrstar would expect to make a high margin on indium metal



History of indium production at Auby

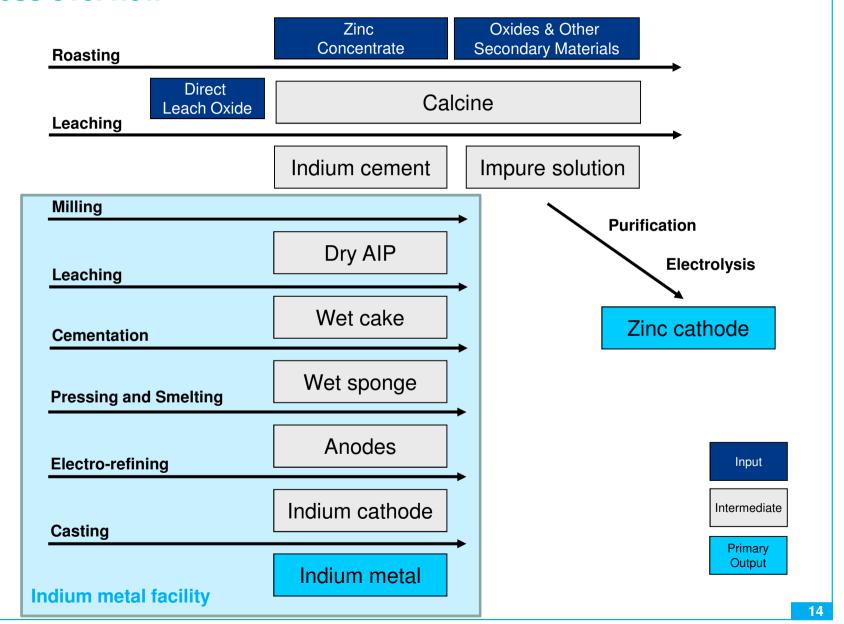


Project implementation of the indium metal facility





Process overview



The product

Pre-casting



Cast ingot



- The indium metal produced at Nyrstar Auby is available in 4N8 grade (99.998% purity)
- ITO grade, can be used in flat panel displays (FPDs)

Chemical specification	Composition (%)
Indium (In)	99.998
Lead (Pb)	0.005
Tin (Sn)	0.005
Copper (Cu)	0.002
Nickel (Ni)	0.005
Iron (Fe)	0.001
Cadmium (Cd)	0.001
Thallium (TI)	0.002
Zinc (Zn)	0.002
Aluminium (Al)	0.002

Physical property	Unit	Value	
Density	kg/dm³	7.310	Solid (at 20°C)
Melting point	°C	156.6	

Shape / package	Normal weight	Value
Ingot 1kg	1.0 ± 0.1	150 x 40 x 25
Ingot 5kg	5.0 ± 0.5	252 x 92 x 32

