



Advanced Metallurgical Group N.V.



Alternative Energies Conference

February 7, 2008 – Paris, France

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Our Two Frontiers Of Solar Innovations



New Becancour Solar Plant



**SCU 400 – Solar Silicon Crystallization
and Melting Furnace**

Our Link To Four Big Growth Trends

- **Solar**
 - Upgraded metallurgical silicon (UMSi)
 - Vacuum furnace technology leadership
- **Fuel economy**

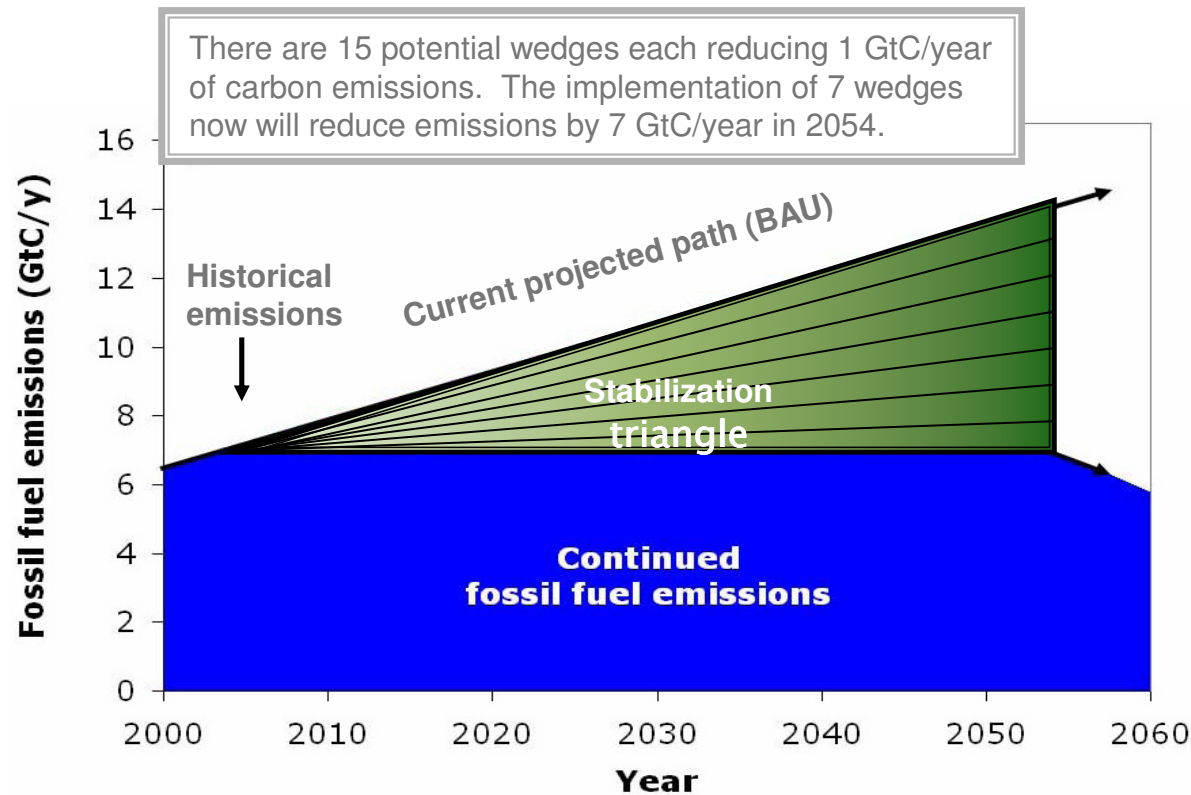
Advanced materials and coatings
- **Nuclear**

Sintering furnaces for nuclear fuel, growing patent family
- **Recycling**

Specialty metals from waste streams (Alberta)

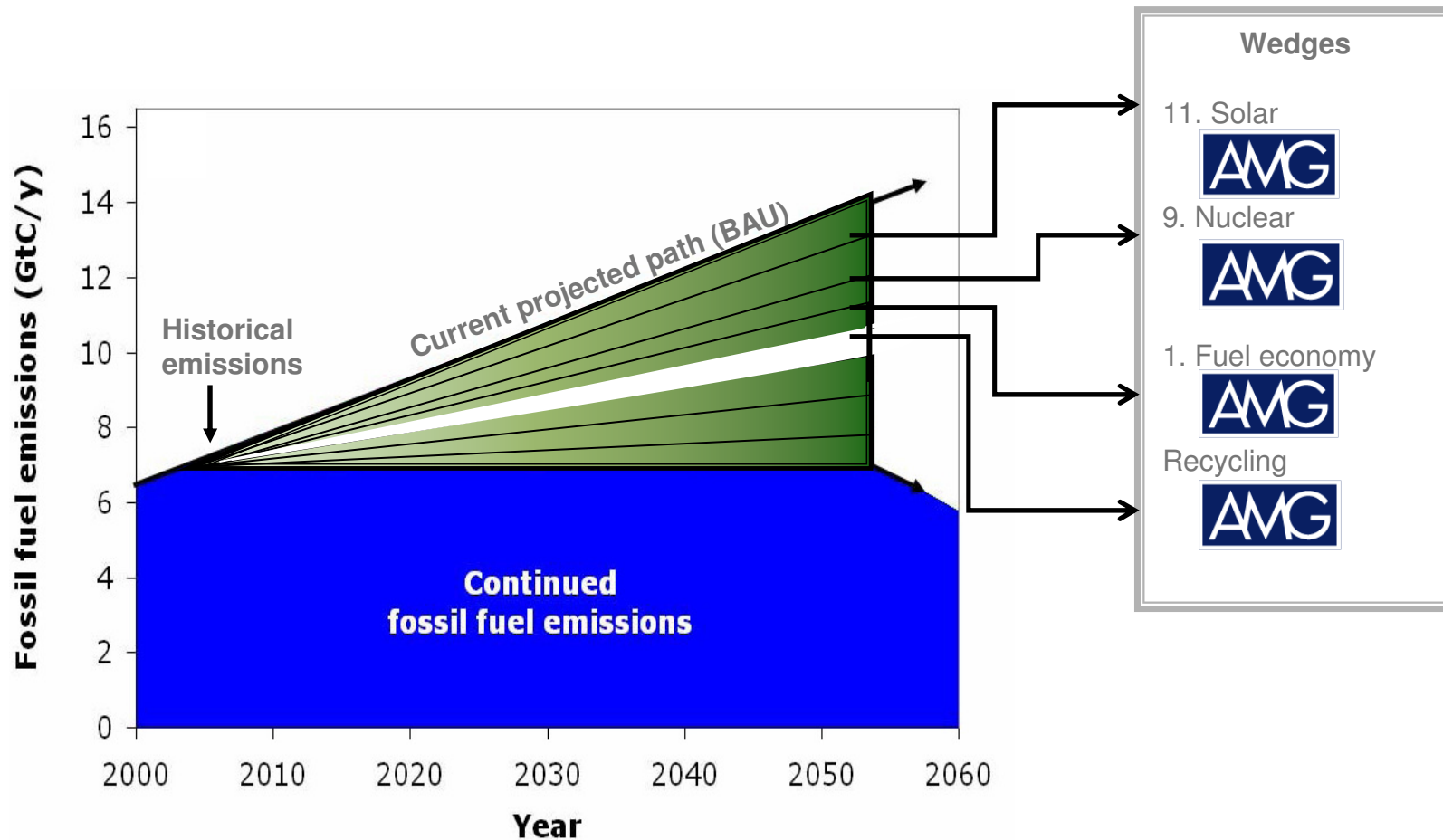
Stabilization Wedges

Based on the paper by Stephen Pacala & Robert Socolow



* The CO₂ emissions reductions necessary to achieve any such target depend on the emissions judged likely to occur in the absence of a focus on carbon [called a business-as-usual (BAU) trajectory], the quantitative details of the stabilization target, and the future behavior of natural sinks for atmospheric CO₂ (i.e., the oceans and terrestrial biosphere).

Stabilization Wedges as They Relate to AMG



Stabilization Wedges

Based on the paper by Stephen Pacala & Robert Socolow

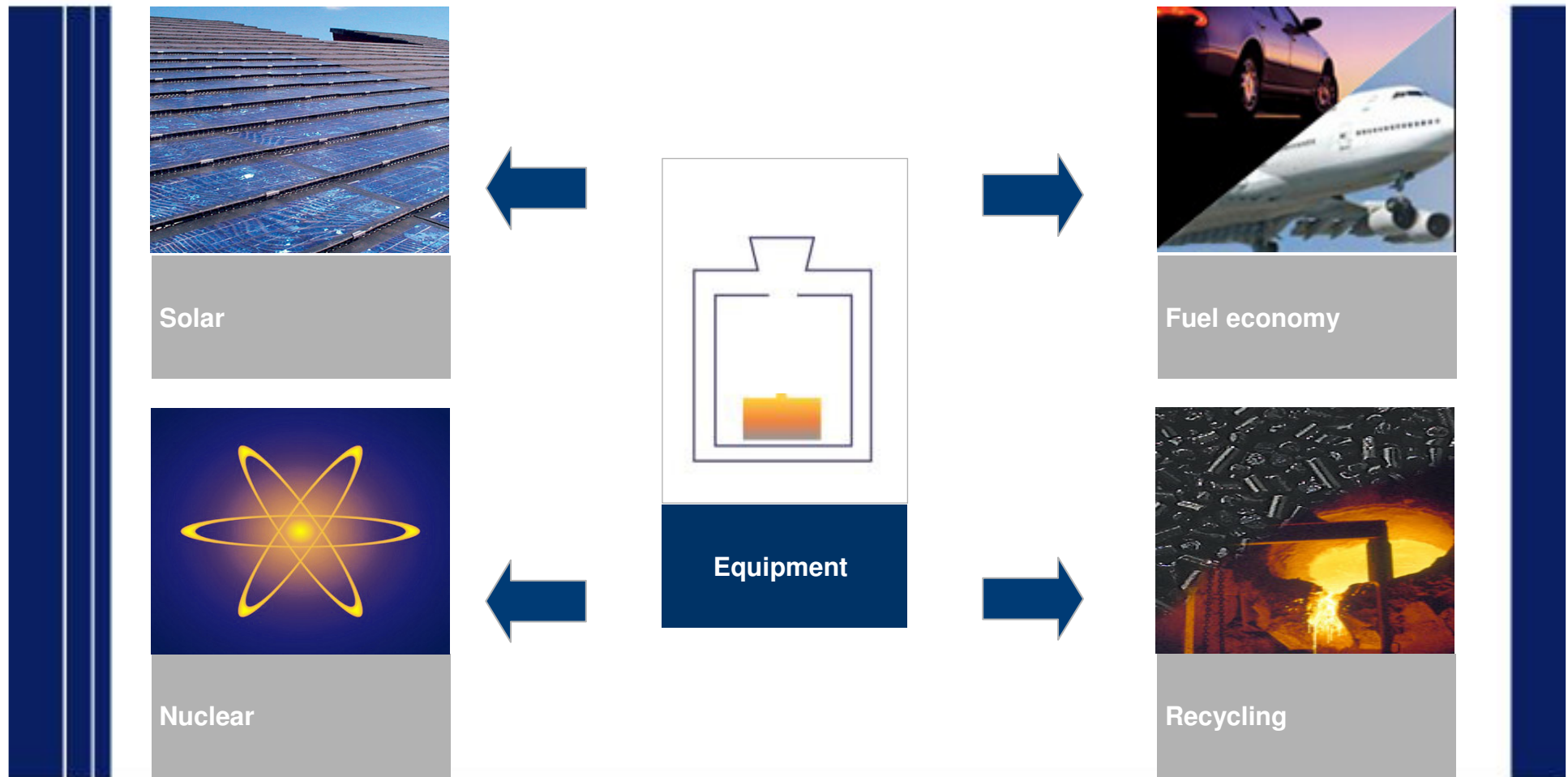
1. Efficient vehicles
2. Reduced use of vehicles
3. Efficient buildings
4. Efficient baseload coal plants (Advanced high-temperature materials)
5. Efficient baseload coal plants (Replacement of coal plants by gas plants)
6. Capture CO₂ at baseload power plant
7. Capture CO₂ at H₂ plant
8. Capture CO₂ at coal-to-synfuels plant
9. Nuclear power for coal power
10. Wind power for coal power
11. PV power for coal power
12. Wind H₂ in fuel-cell car for gasoline in hybrid car
13. Biomass fuel for fossil fuel
14. Reduced deforestation, plus reforestation, afforestation, and new plantations
15. Conservation tillage

▶ AMG

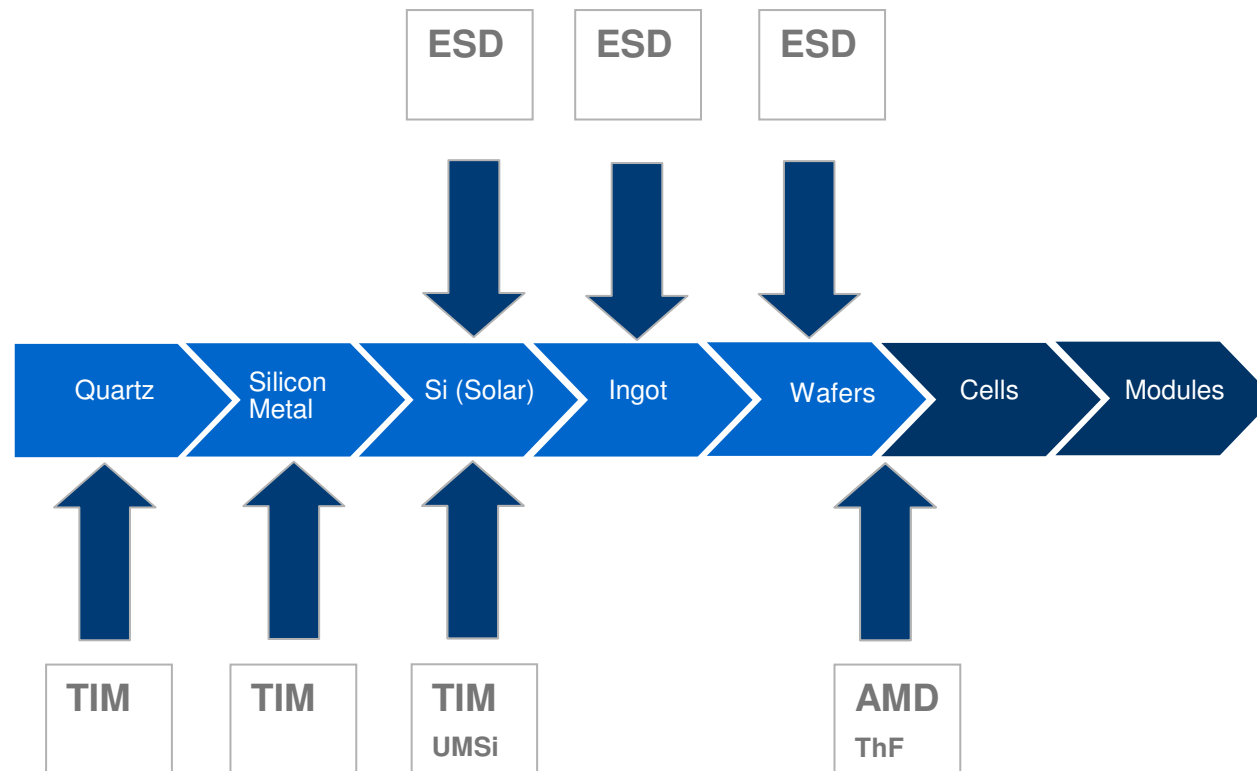
▶ AMG

▶ AMG

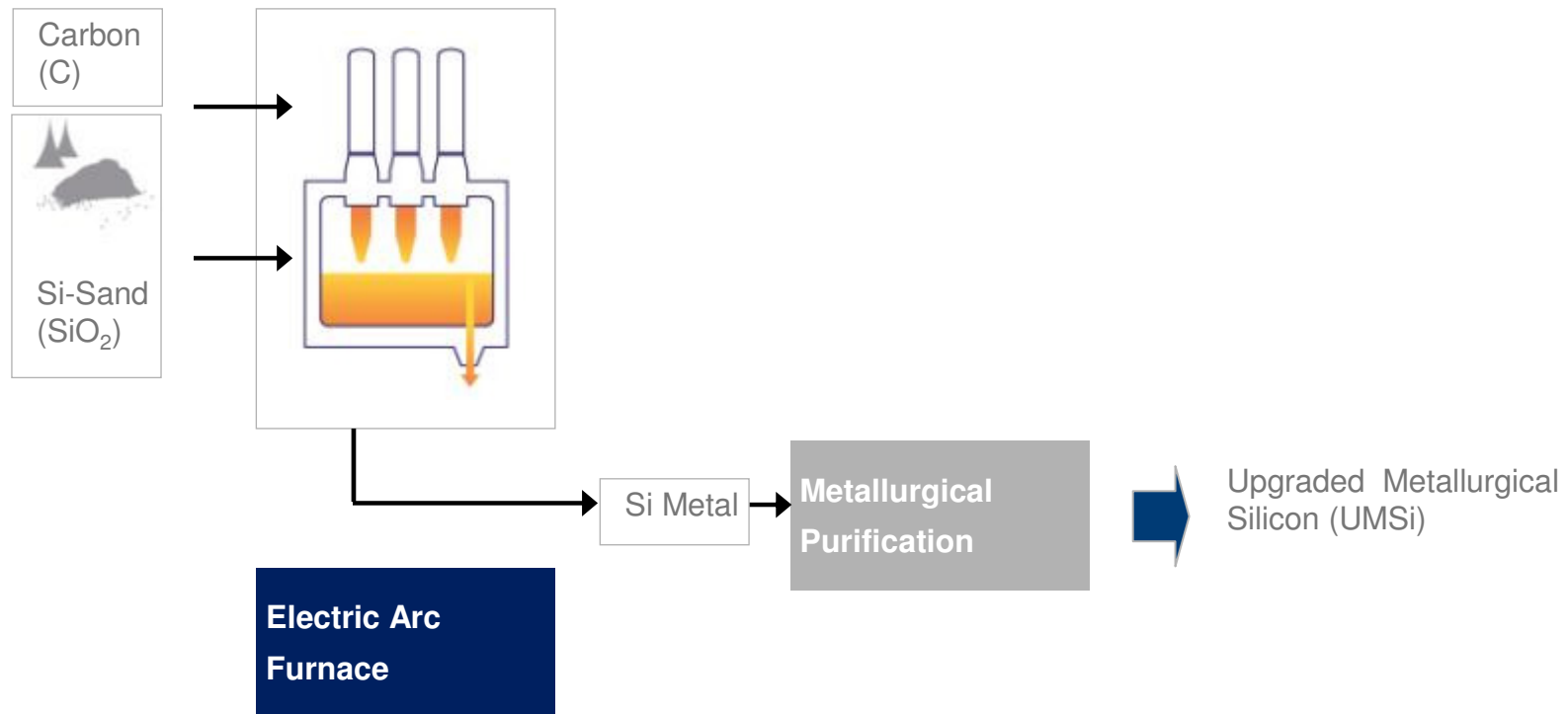
AMG Technologies



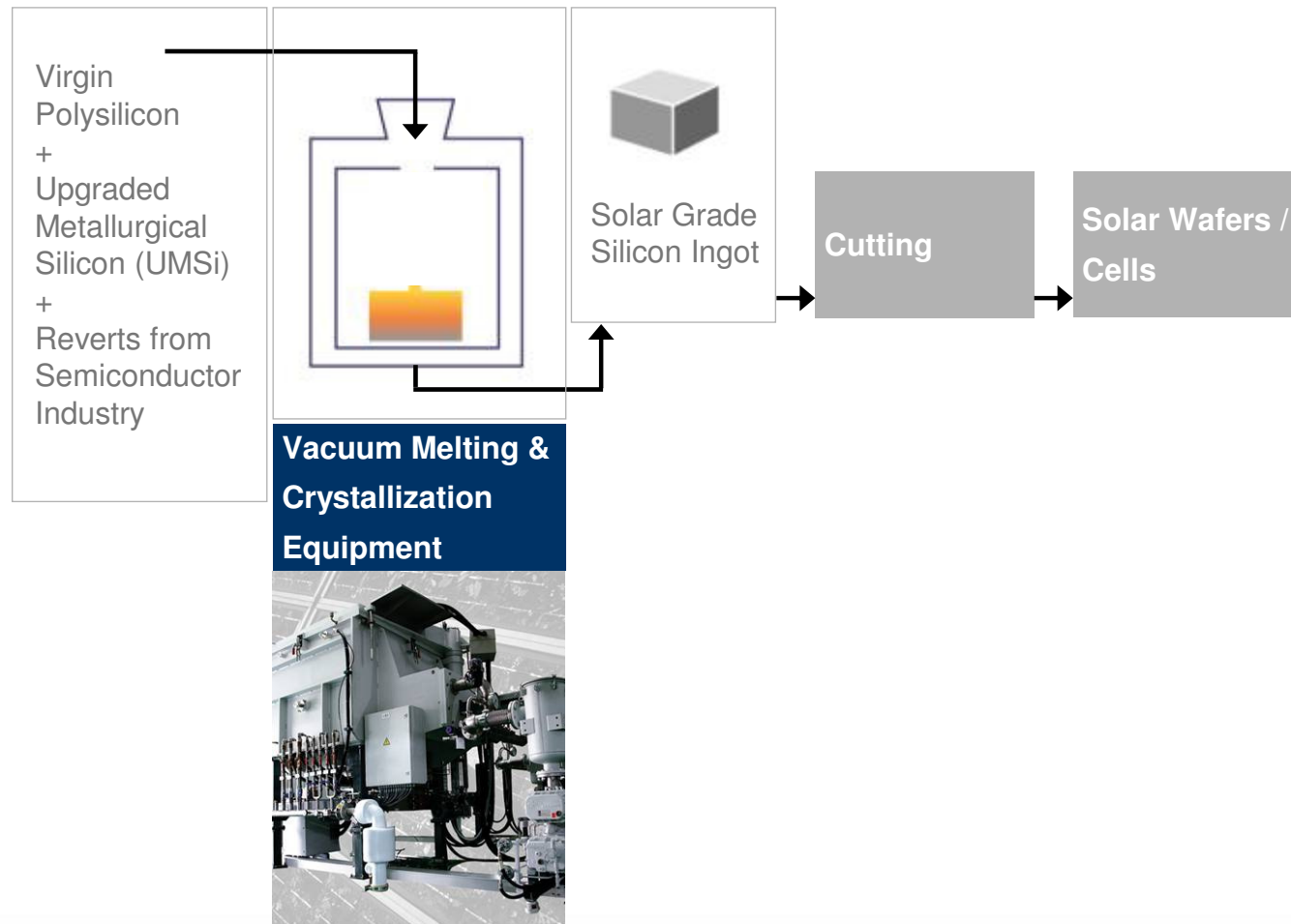
Servicing the Solar Industry



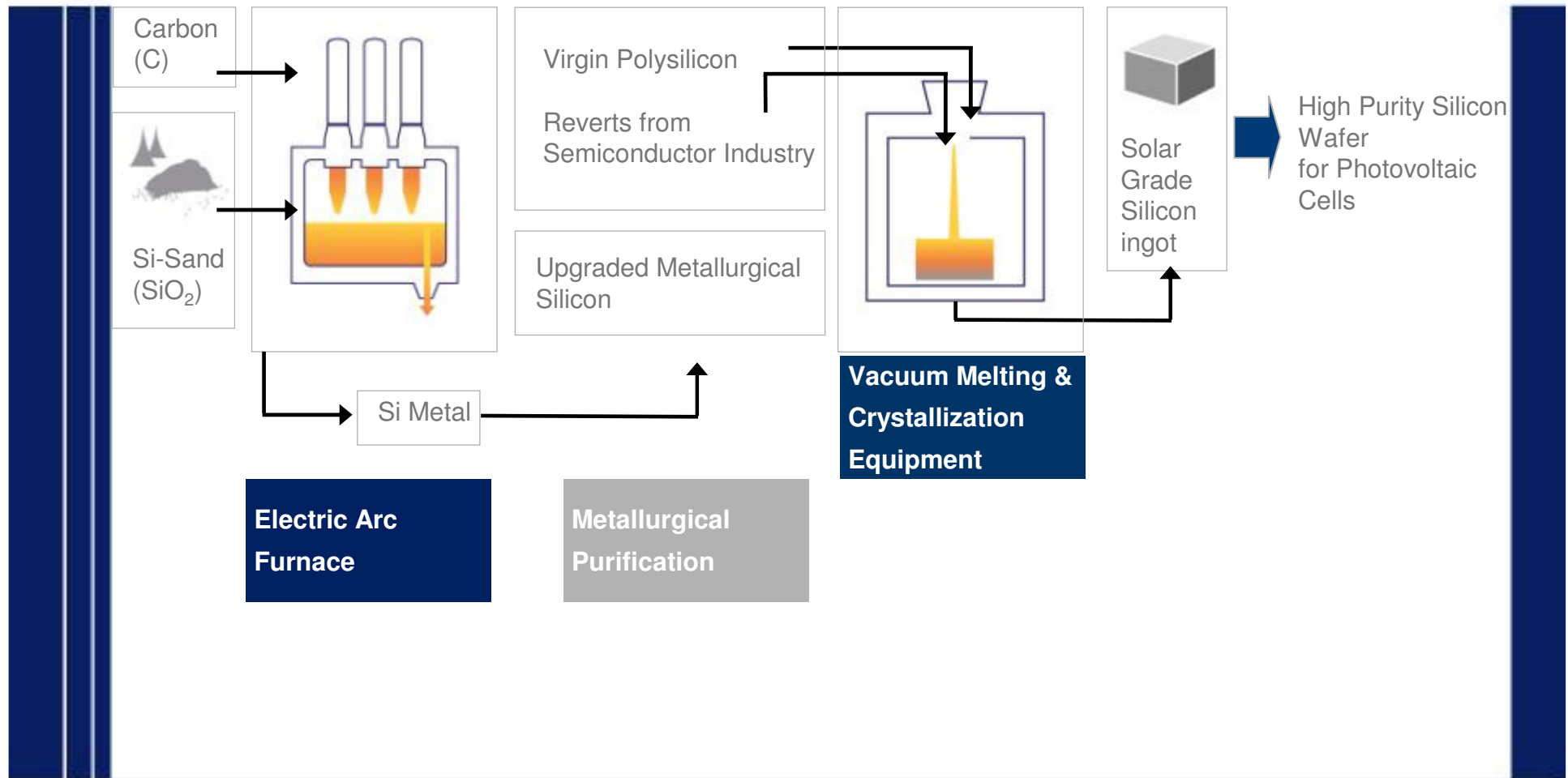
Production Equipment for Feedstock for the Solar Industry



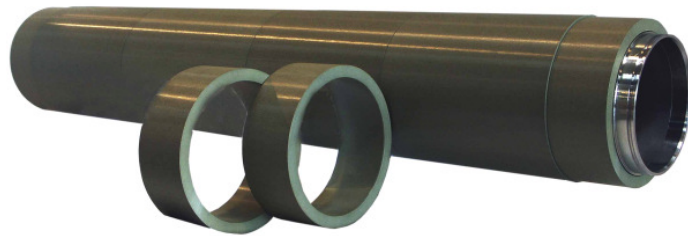
Production Equipment for High Grade Silicon Blocks for the Solar Industry



Production Equipment for High Grade Silicon Blocks for the Solar Industry

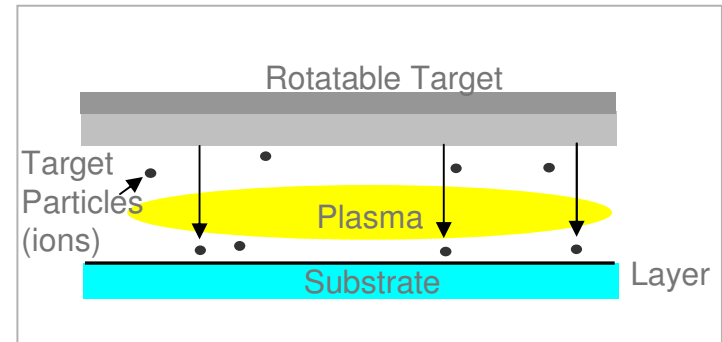


PVD-Coating Materials for Thin Film Photovoltaic



AZOY, Si, Mo, Cr, iZnO-CIG,
GIGS-rotatable targets (GfE)

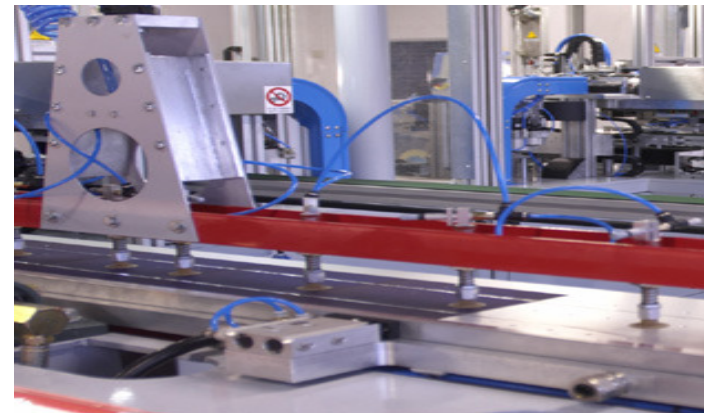
Vacuum Chamber



A 1500 V-7
Vertikales In-Line
Sputtersystem

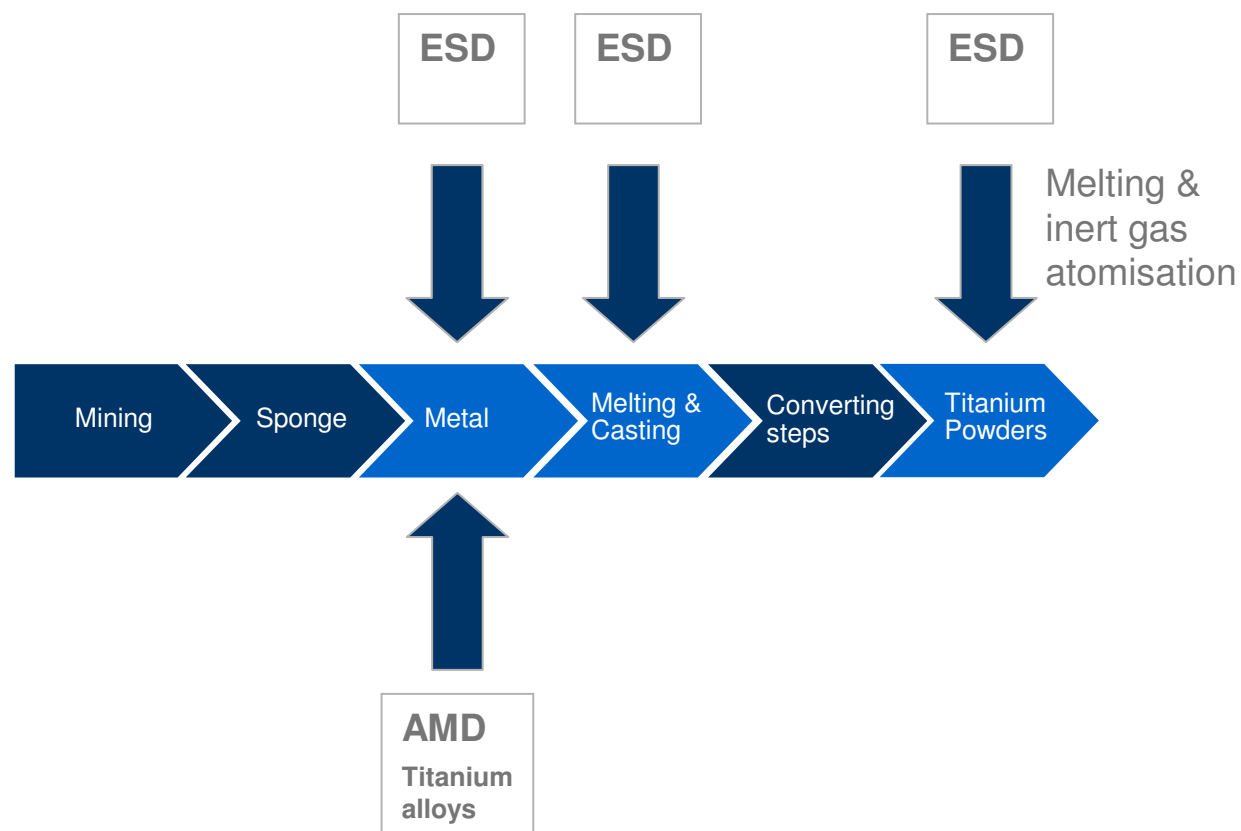


Vertical In-Line Sputter System,
Source: Leybold Optics

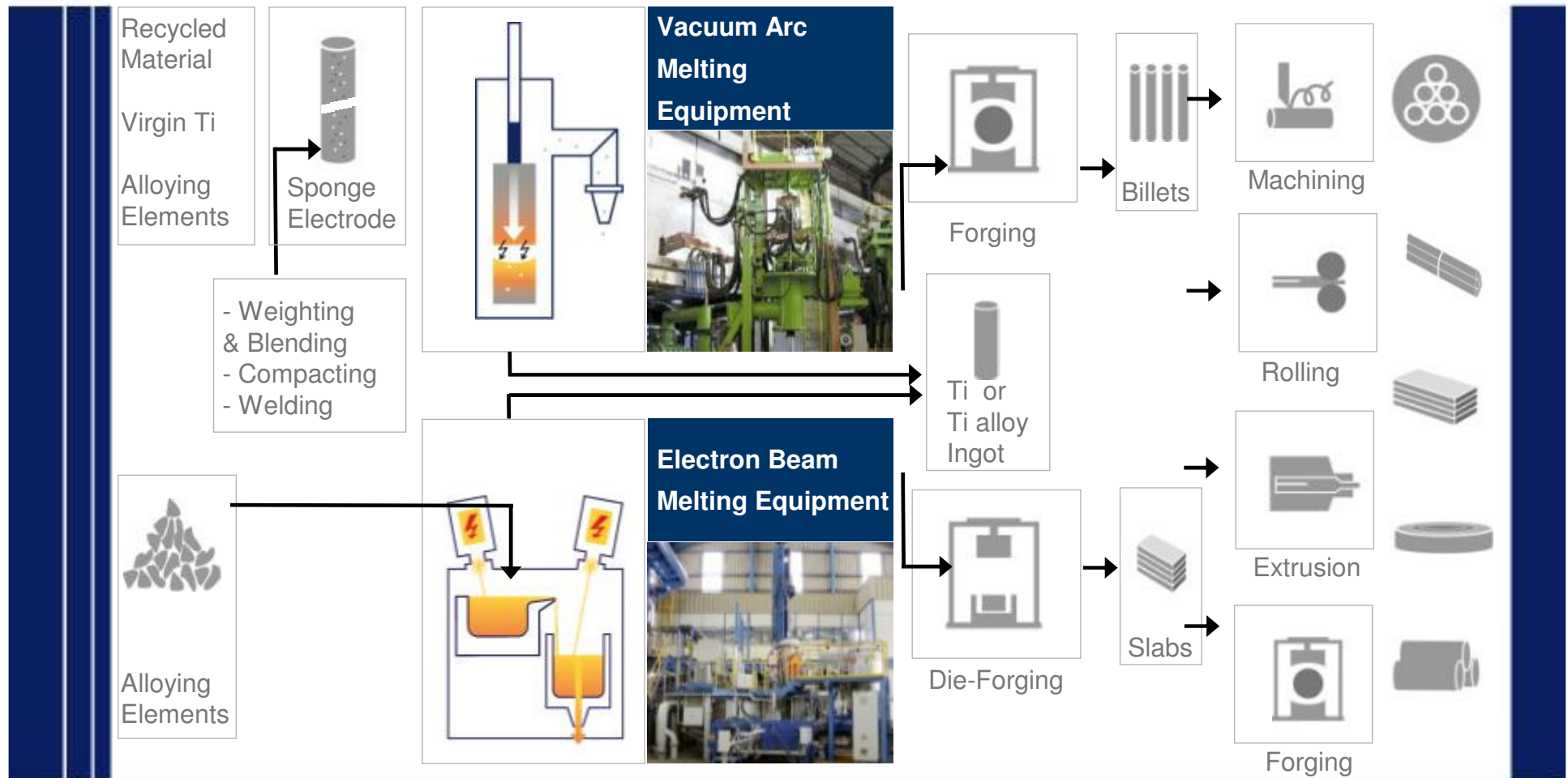


Quality Control of CIS Modules During Production,
Source: Centrosolar Group AG

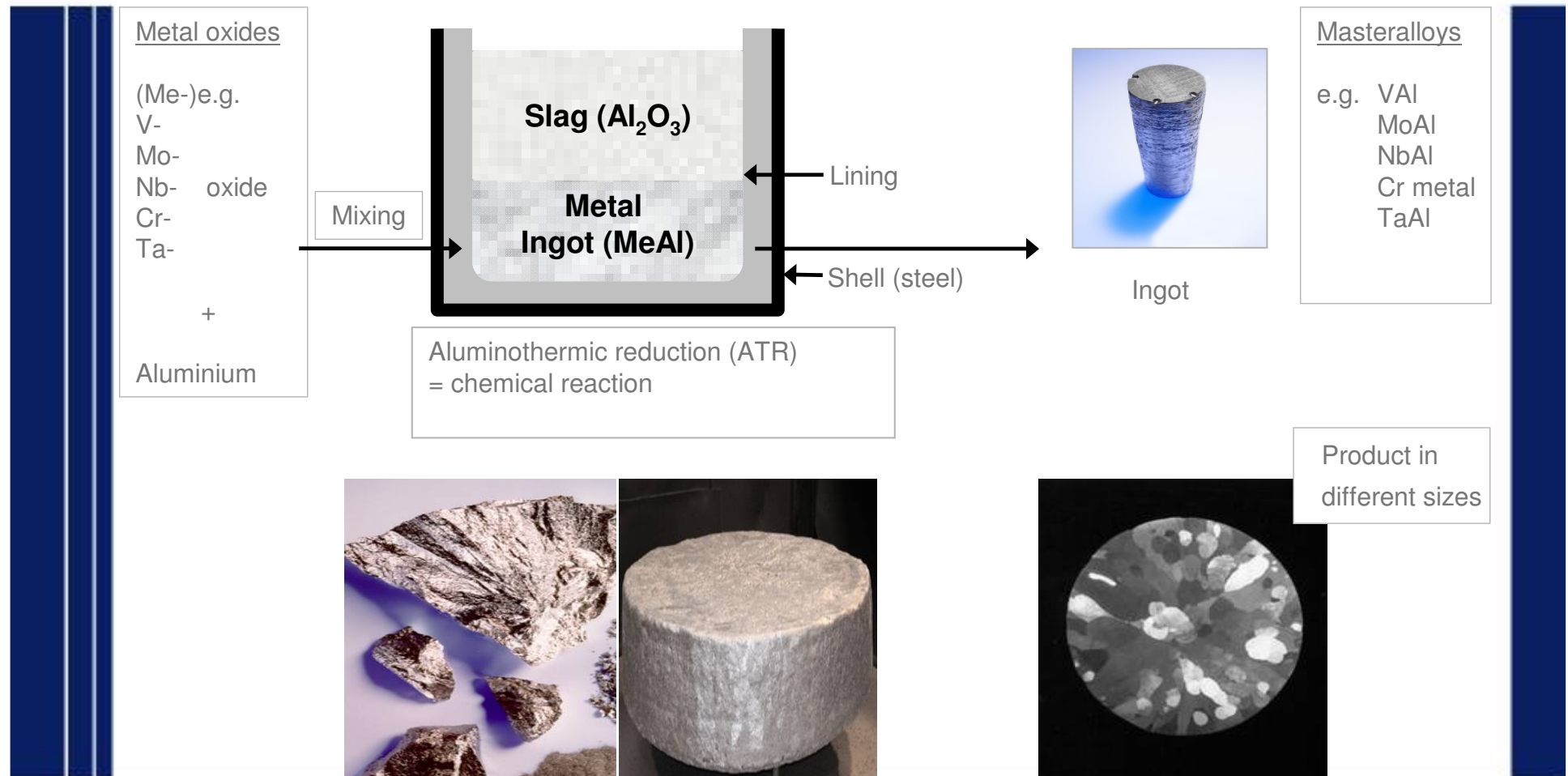
Servicing the Titanium Industry



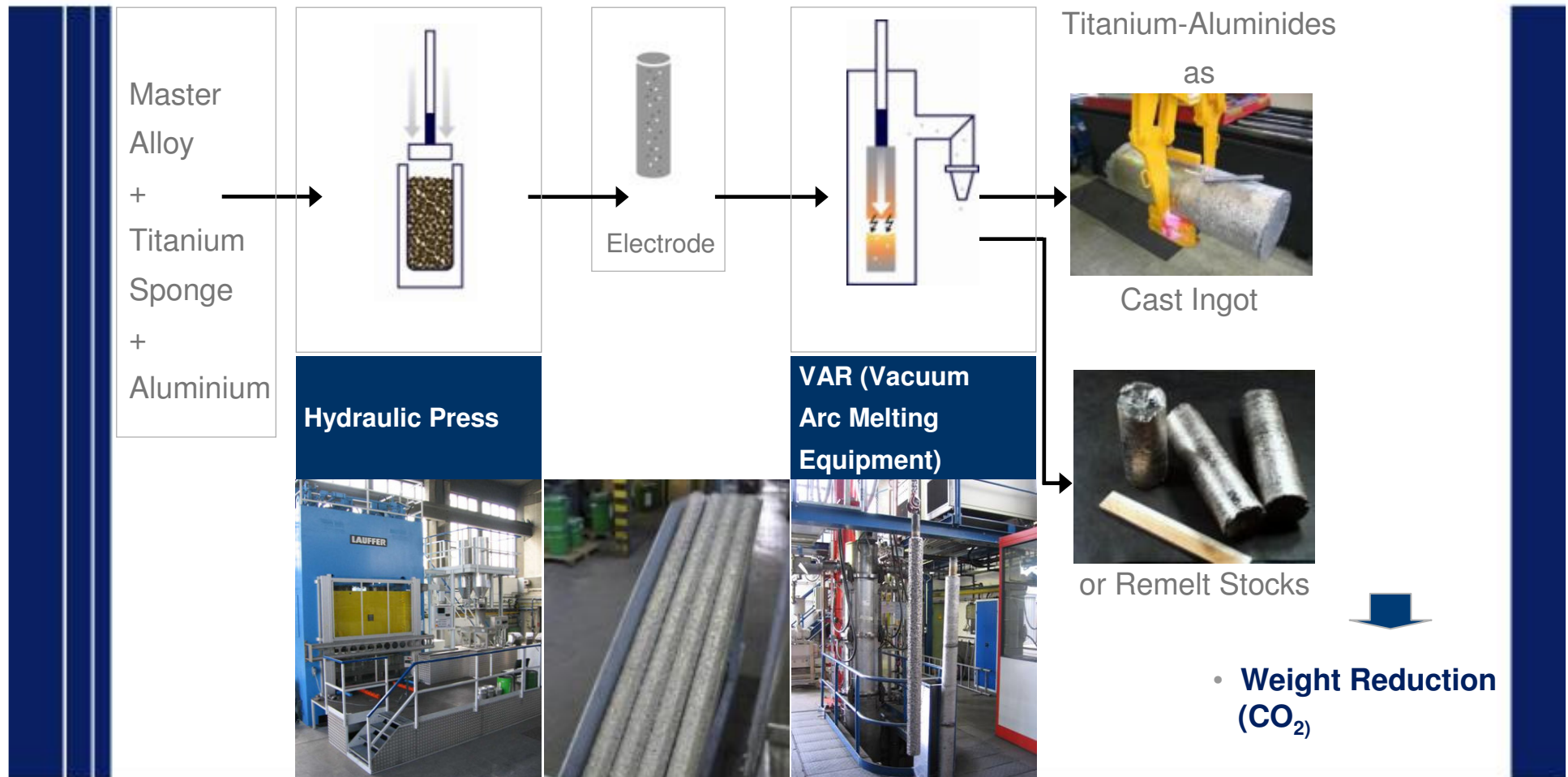
Processing of Titanium



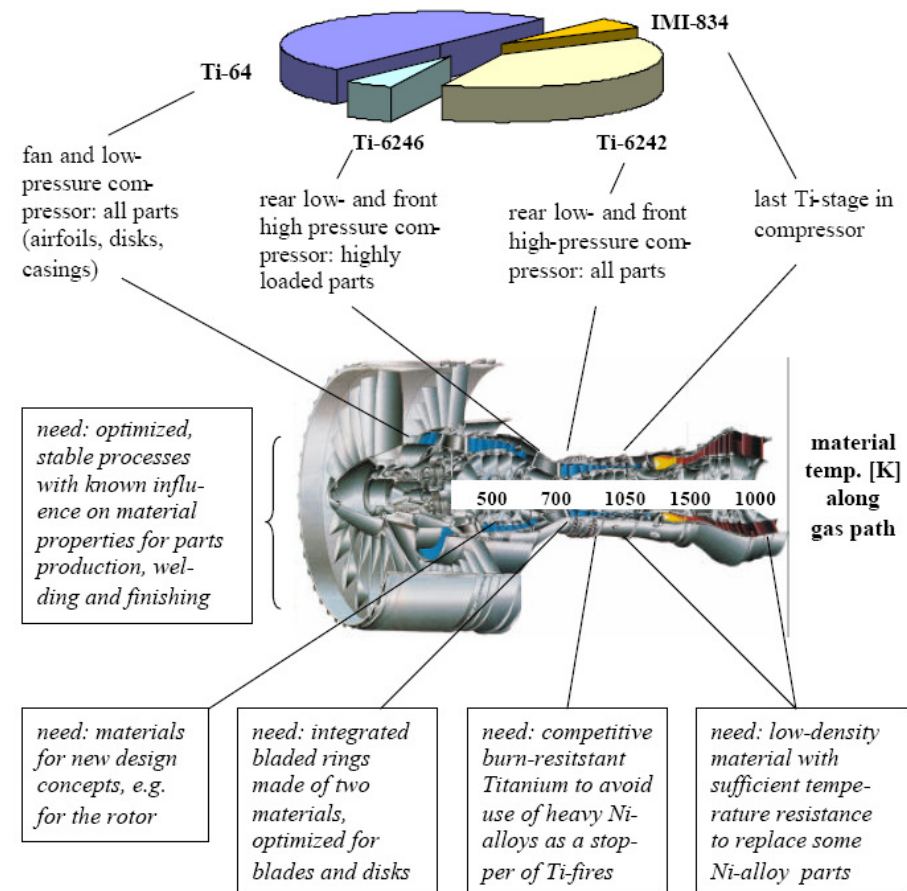
Production of Master Alloys for the Titanium and Superalloy Industry



Leadership in Production of Titanium-Aluminides



Titanium in Engines



Titanium in Aerospace Structures

Most commonly used Ti alloys in aerospace structures

Ti CP (a)	different grades	tubings for de-icing kitchen, toilet
Ti 6-4 (a/b)	Ti -6Al -4V	stabilizers, pylons, general structures
Ti gr. 9 (a/b)	Ti -3Al -2,5V	hydraulic tubings
Ti 21S (n.b)	Ti -15Mo -3Nb -3Al -0,2Si	environmental control system, ducting, hydraulic tubing
Ti 15-3-3-3 (n.b)	Ti -15V -3Cr -3Sn -3Al	environmental control system, ducting
Ti 10-2-3 (b)	Ti 10V -2Fe -3Al	landing gears
Ti 6-2-4-2 (b)	Ti -6Al -2Sn -4Zr -2Mo	engine mounts
Ti 6-2-4-6 (b)	Ti -6Al -2Sn -4Zr -6Mo	aft heat shields

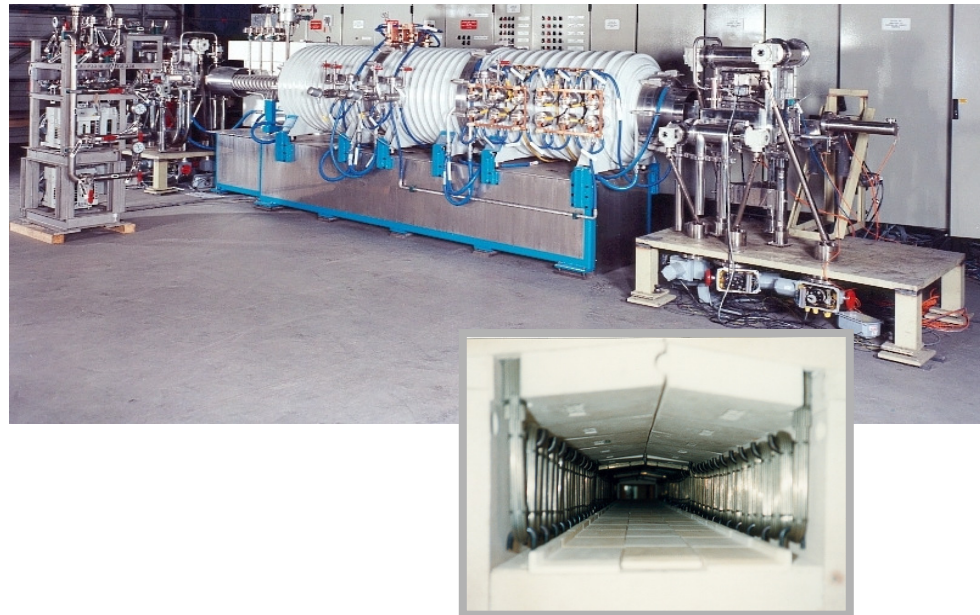
AMG's Nuclear Activities

- AMG's current involvement in nuclear industry includes:
 - Sintering of nuclear fuel pellets made of uranium and plutonium oxide
 - AMG designs and builds sintering furnace systems and other related equipment
 - Nuclear fuel production for pebble bed reactors
 - AMG develops process technology and builds furnaces for the production of fuel spheres
- AMG continues to invest in R&D to further expand its nuclear capabilities to capitalize on the re-emergence of the nuclear industry

Mixed Oxide Fuel Elements

Mixed oxide (MOX) fuel elements:

- Closing of the fuel cycle
- Long term availability of fissible material
- Safety against proliferation



**PWR
Fuel Element**



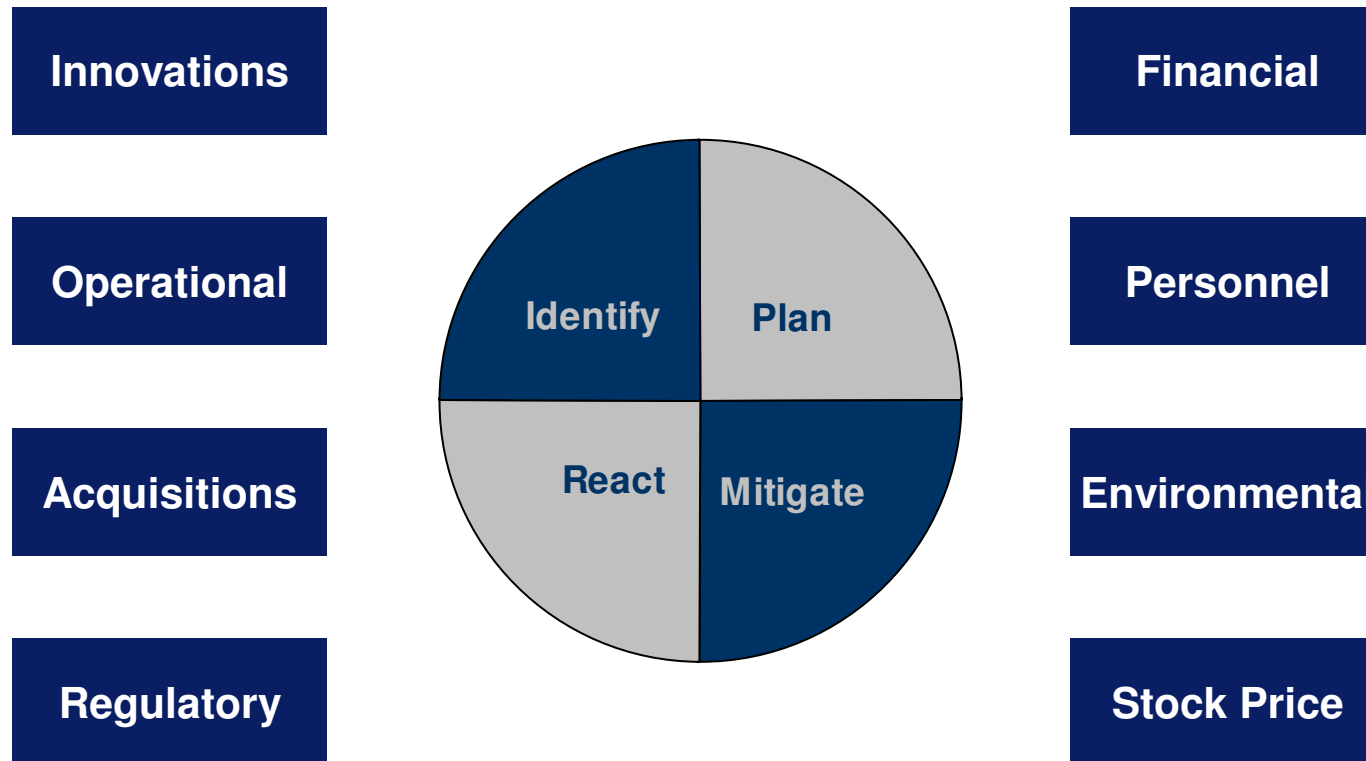
The Innovation Process

- New technology for extracting specialty metals from Alberta oil sands waste streams (vanadium, molybdenum, nickel)
- UMSi
- New product line for solar grade silicon ingots
- New vacuum technology product line for titanium metal plants
- Leadership position in China for solar and titanium
- Developed a radically new heat treatment technology for automotive engine parts; also offered in a build-own-operate model

In Progress

- Capacity expansion for recycling operations
- UMSi capacity expansion
- UMSi quality enhancement (less blending)
- Productivity improvement of our solar silicon ingot furnaces
- New gamma Ti Al alloys for turbine and aircraft applications
- Expand the capacity of our oil-sands-waste stream recycling operations
- A new family of plasma coating materials and coating services
- Significant expansion our nuclear engineering activities including a technology to address the spent-fuel-storage problem
- Development of lithium vanadate for lithium polymer batteries for the wind turbine industry
- Development of new CIG (copper indium gallium) materials for solar applications

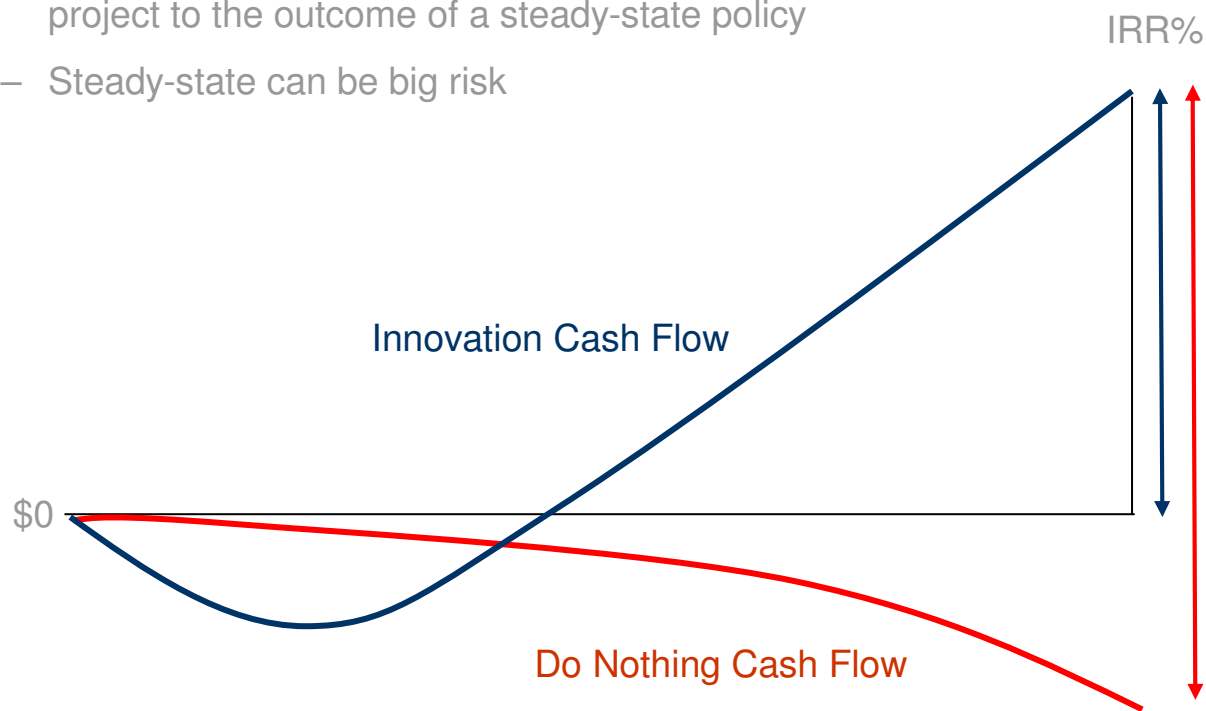
Risk Management Approach



- Traditional bottom-up and top-down approach to risk management
- Supplemented by focus on risk of innovation (or failure to innovate)

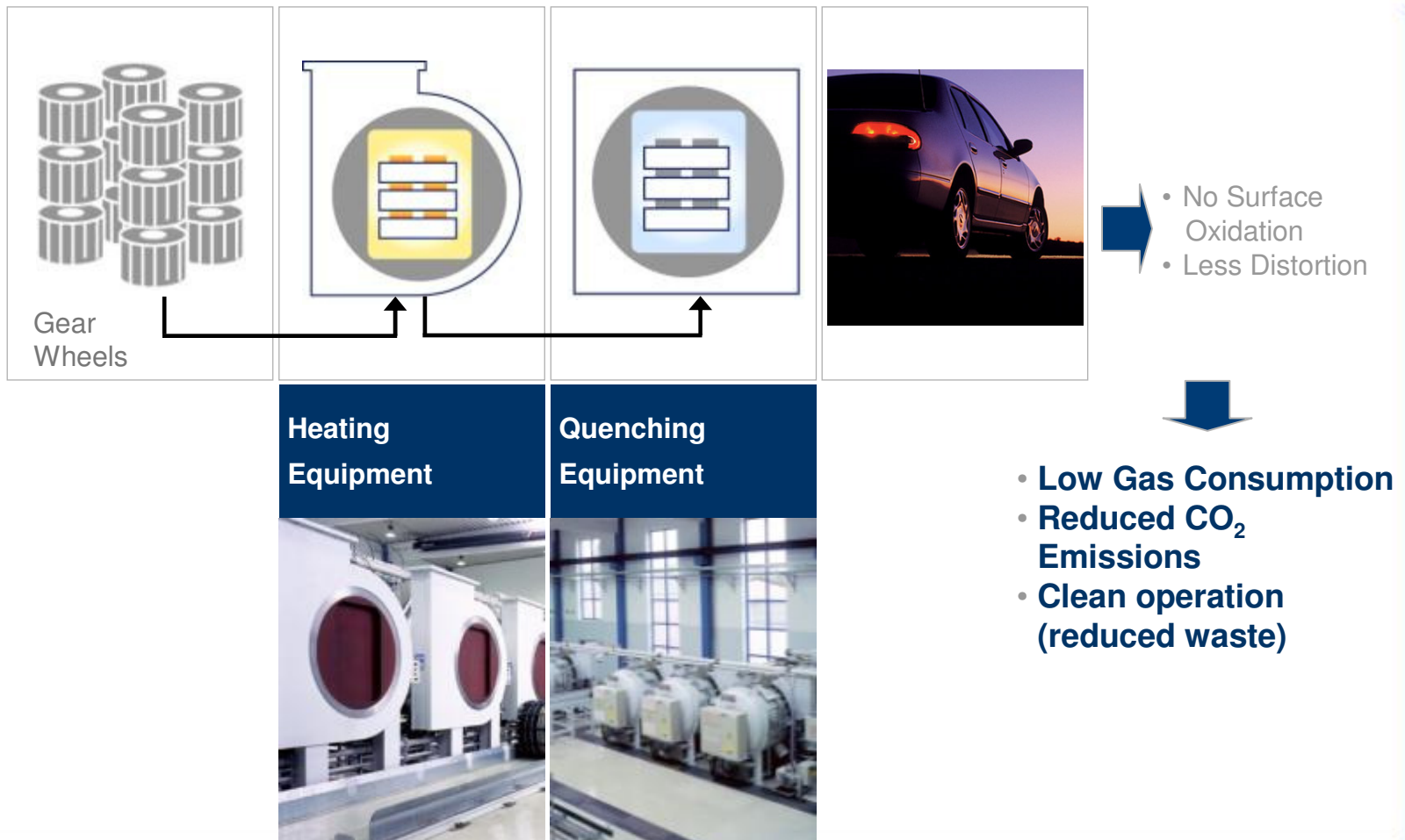
Innovation Risk Management

- Focused on comparison of the benefits from a new project to the outcome of a steady-state policy
- Steady-state can be big risk

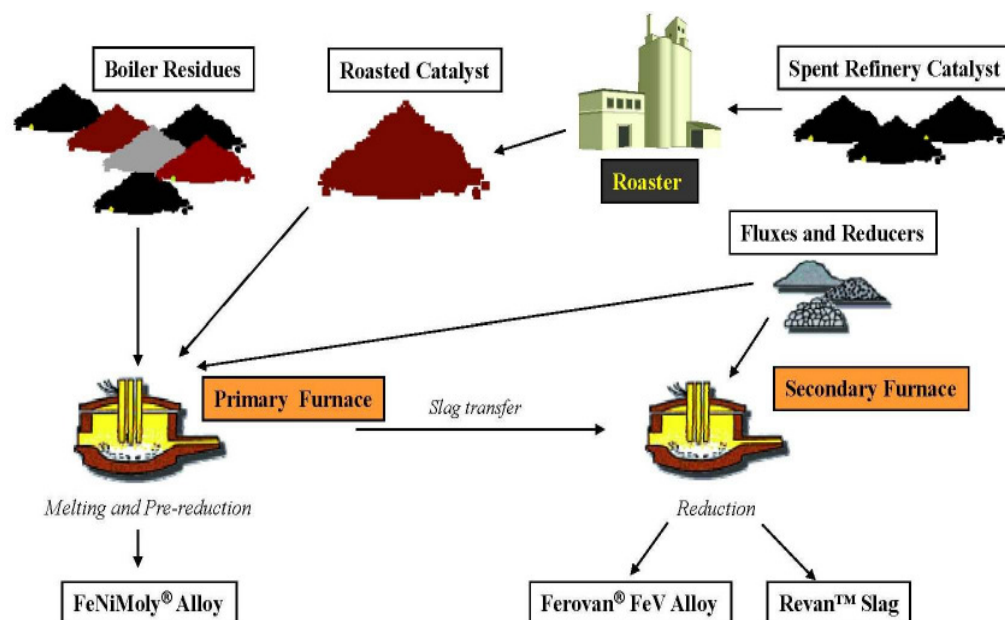


Source: HBR January 2008

Vacuum Heat Treatment with High Pressure Gas Quenching for Less Fuel Consumption



Waste Stream Processing

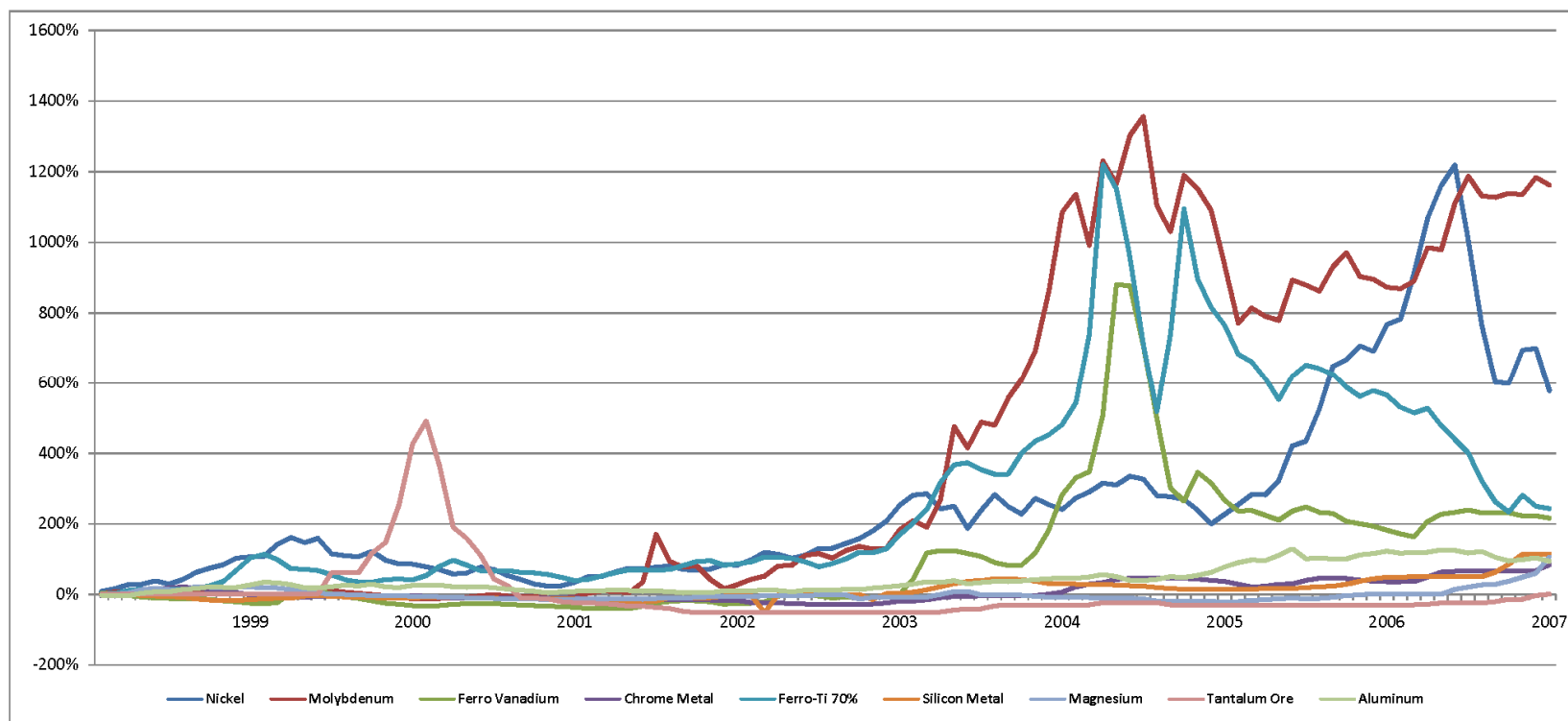


AMG has a unique process utilizing secondary raw materials – recycling of spent oil refinery catalysts and power plant residues



Portfolio of Metal Prices

Percentage Price Change from December 2008



AMG Investor Summary

Listing at Euronext

Listing at Euronext Amsterdam

AMG share price through 03.02.2008

ISIN	NL0000888691
IPO	July 11th, 2007 at EUR 24.00
Shares outstanding	26,799,504
Market capitalization (EUR 39,79)	EUR 1,066,352,264
Average liquidity	149,122 shares

Major Shareholders

Safeguard International Fund LP	26,56%
Luxor Management LLC	5,45%
Citadel Investment Group Ltd	5,18%
Fidelity Fund	5,08%
Capital Research and Management Company	5,01%

