

■ Eksisterende bygg og anlegg

■ Nye bygg og anlegg



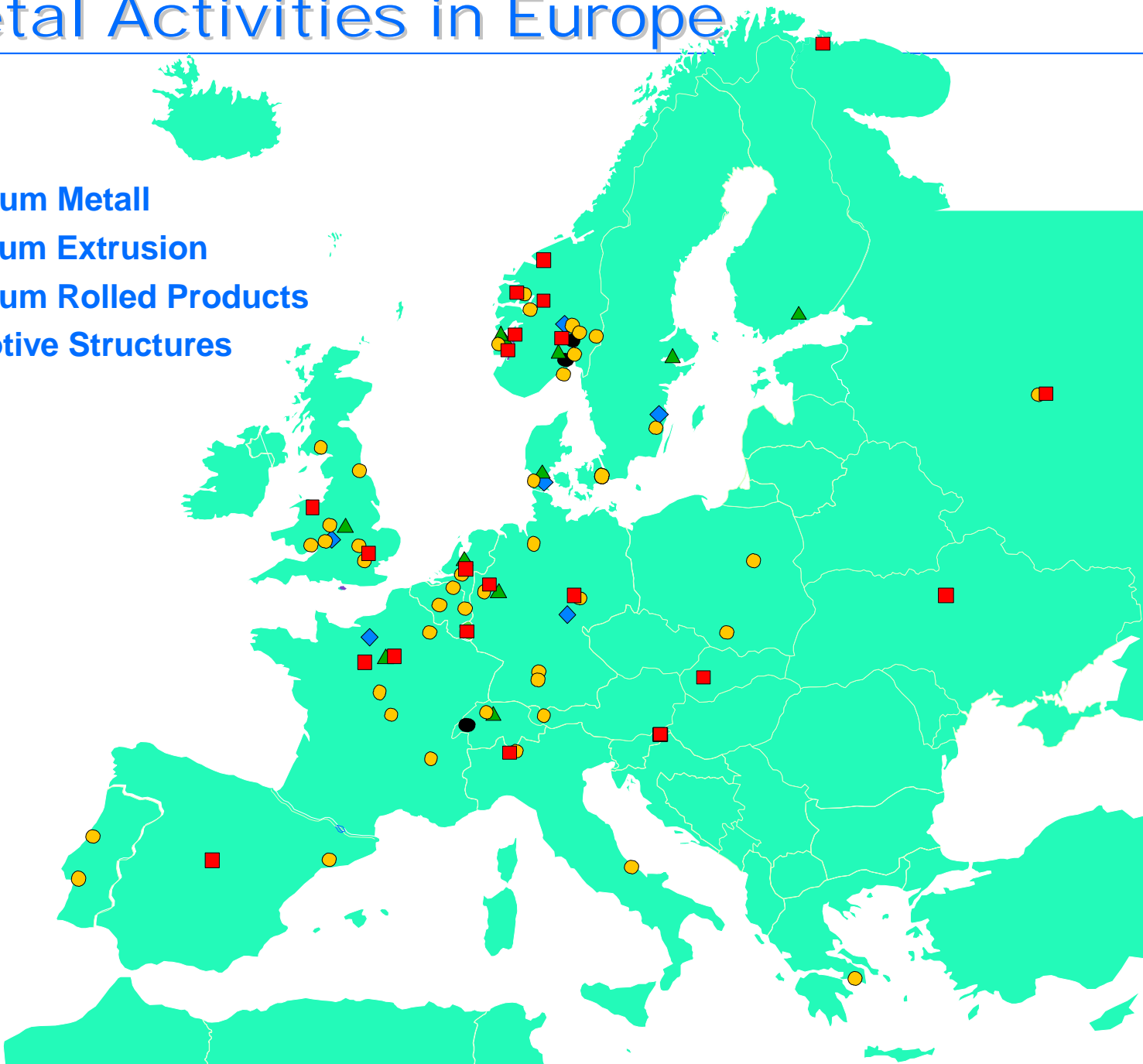
Hydro Light Metals 2001

- ✓ A major aluminium supplier in Europe
- ✓ Integrated from raw materials to semi-fabricating
- ✓ Stepping up activities outside Europe
- ✓ The world's largest producer of magnesium

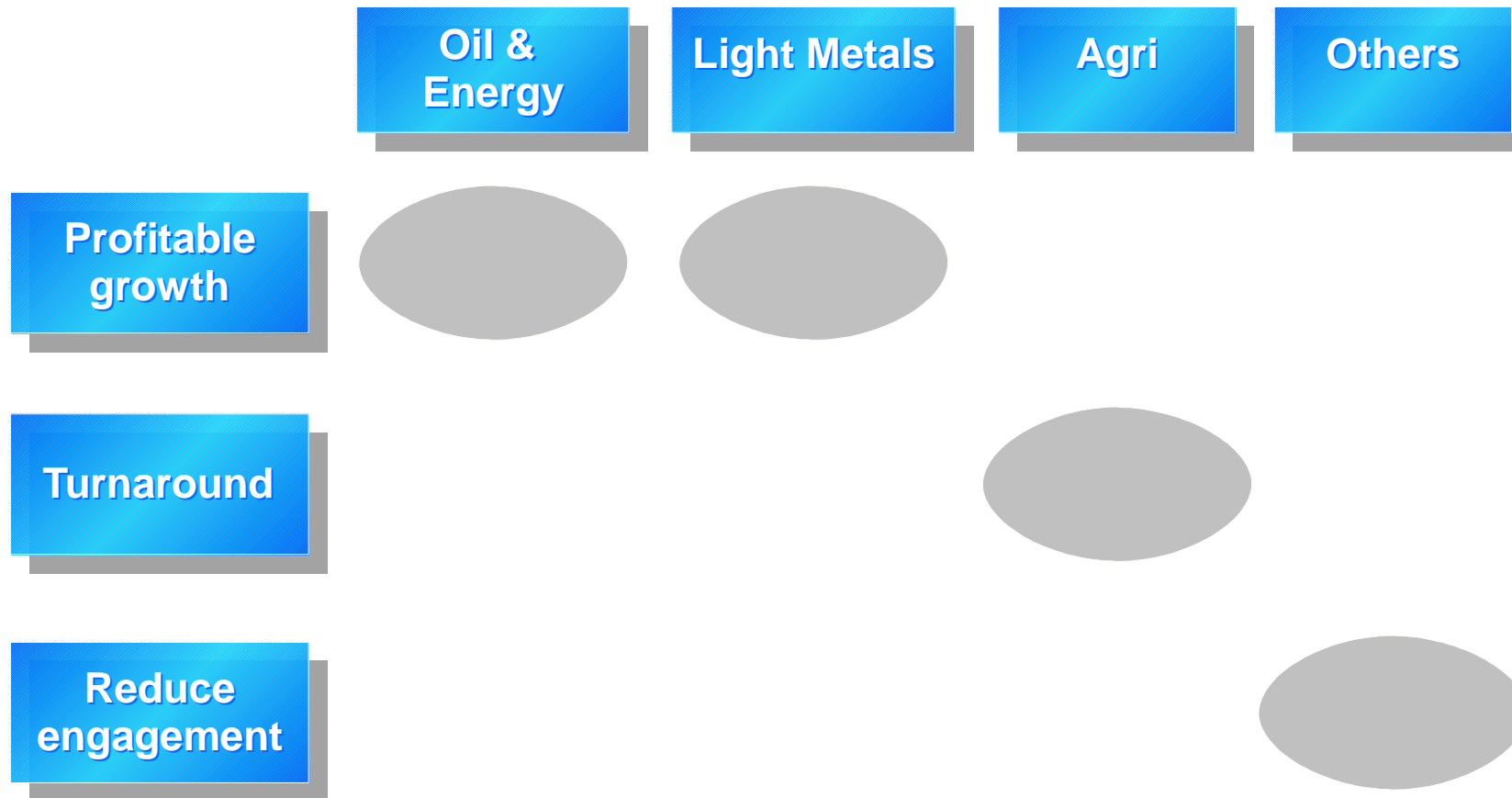


Light Metal Activities in Europe

- Hydro Aluminium Metall
- Hydro Aluminium Extrusion
- ▲ Hydro Aluminium Rolled Products
- ◆ Hydro Automotive Structures
- Head quarters

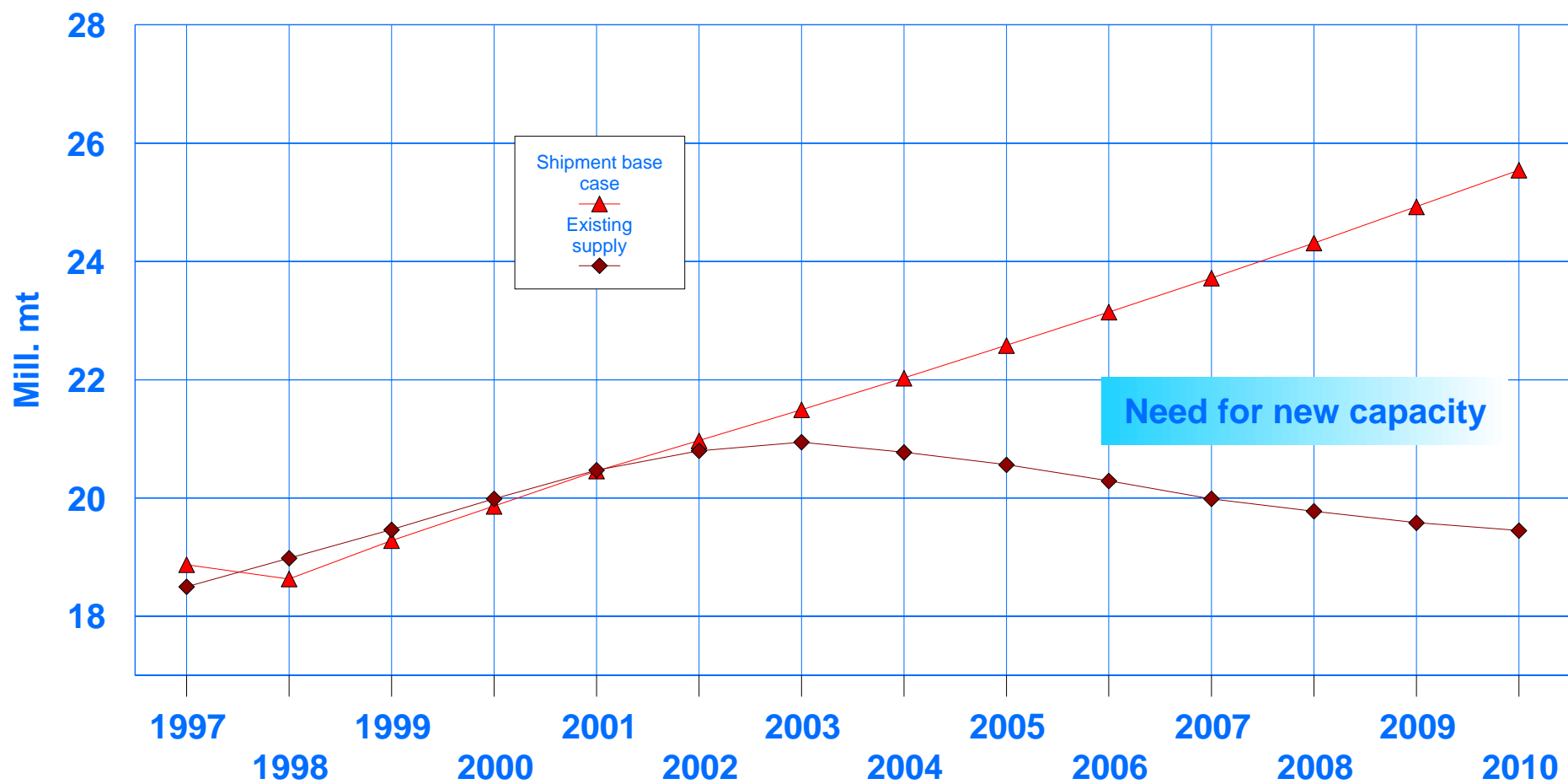


Hydro's portfolio - strategic modes

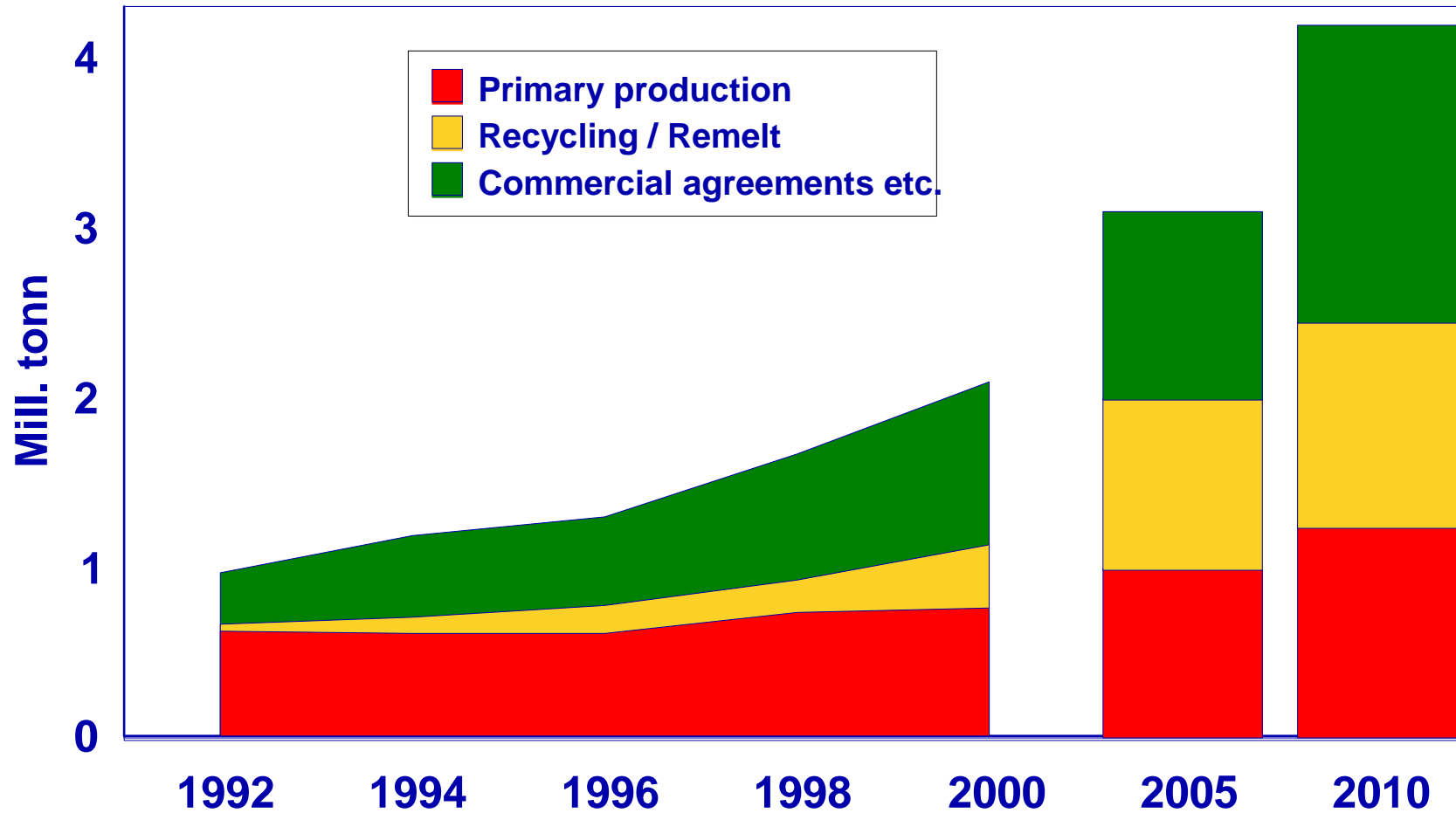


Primary aluminium balance

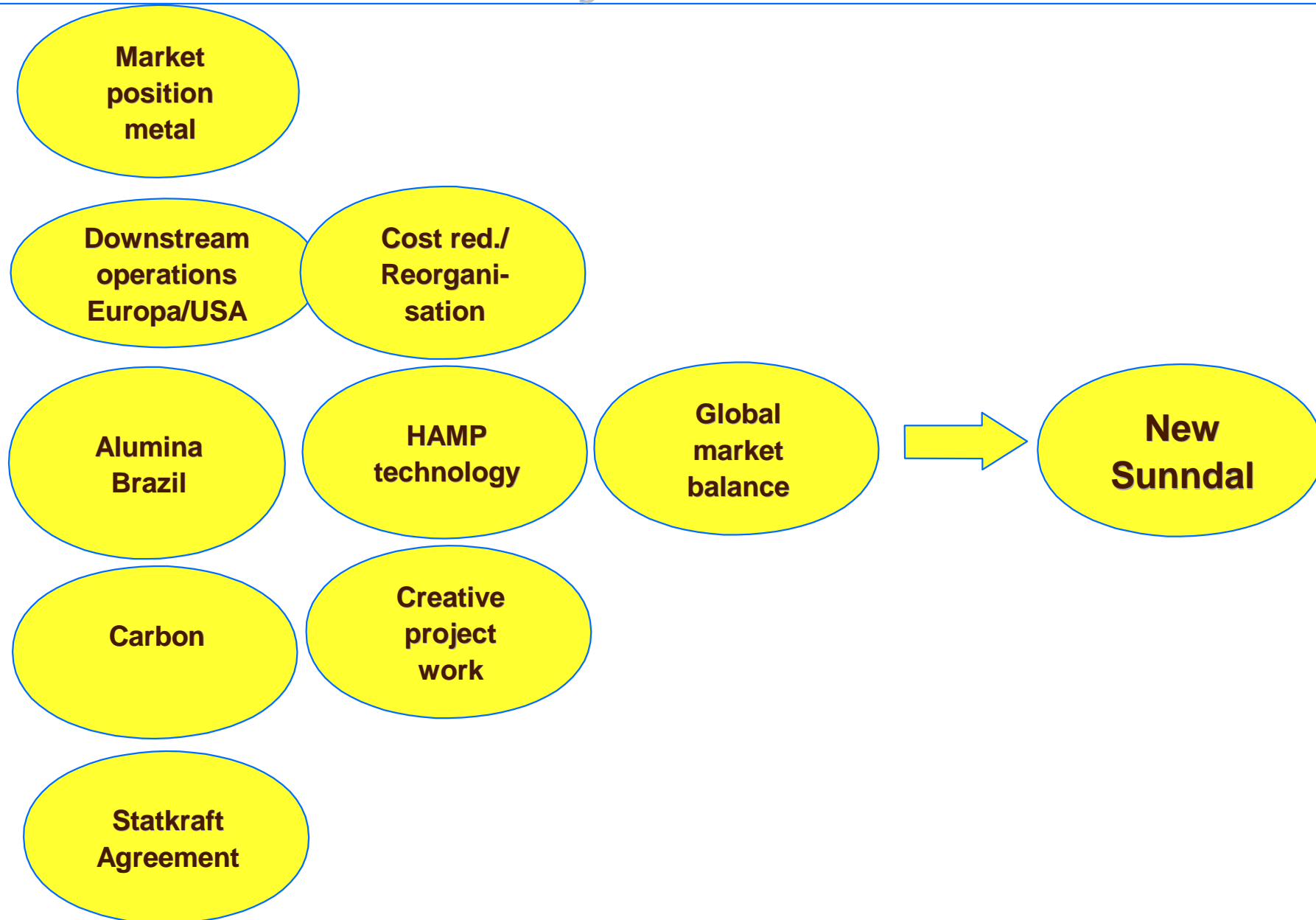
Western world



Hydro as a metal supplier



Modernisation of Hydro Aluminium - Sunndal



Facts on New Sunndal

- ✓ **Total capacity of New Sunndal: 328,800 mt per year**
 - Expansion to 350,000 mt. at 275 kA
- ✓ **New potline capacity 238,800 mt per year**
- ✓ **Full capacity reached late 2004**
- ✓ **Total investment 5.6 bn NOK**
- ✓ **Productivity doubled, workforce reduced by 80 man-years**
- ✓ **Internal Rate of Return after tax exceeds 15 %**
- ✓ **Competitive investment - cost per installed tonne**

The HAL250 technology

- ✓ **Successful HAL 250 technology. Proven and verified for industrial use at 250 kA**
- ✓ **Fully competitive with commercially available technologies**
- ✓ **HAL250 requires less space because of unique busbar design and compensation of the magnetic fields**
- ✓ **Emissions from HAL250 are low, probably the lowest from any available technology**
 - **Increased forced suction**
 - **Low anode effect frequency**
- ✓ **Single technology - HAL250 use the same anodes as existing prebake cells at Sunndal**
- ✓ **Proprietary technology - no fees**

New Sunndal and the environment

- ✓ **Reduced emissions of fluorides**
- ✓ **S02 well below emission regulation**
- ✓ **Emissions of dust significantly reduced**
- ✓ **Lower specific emissions of greenhouse gases**
- ✓ **Specific emissions well below the long-term international requirements**

Unique Environmental Features

- ✓ **Increased forced suction from the cells to minimize emission into the potroom and working atmosphere**
- ✓ **Single operator anode changing cranes**
- ✓ **Cooling boxes with suction to collect fluoride emissions from hot bath and anodes taken out of the cells**
- ✓ **Less vehicle traffic in the potroom**
- ✓ **Natural ventilation**
- ✓ **Suction unloading system to reduce dusting from unloading**
- ✓ **Large quantity energy reclamation from gas scrubbers available**
- ✓ **Noise reducing insulation covering ventilators and collection ducts**

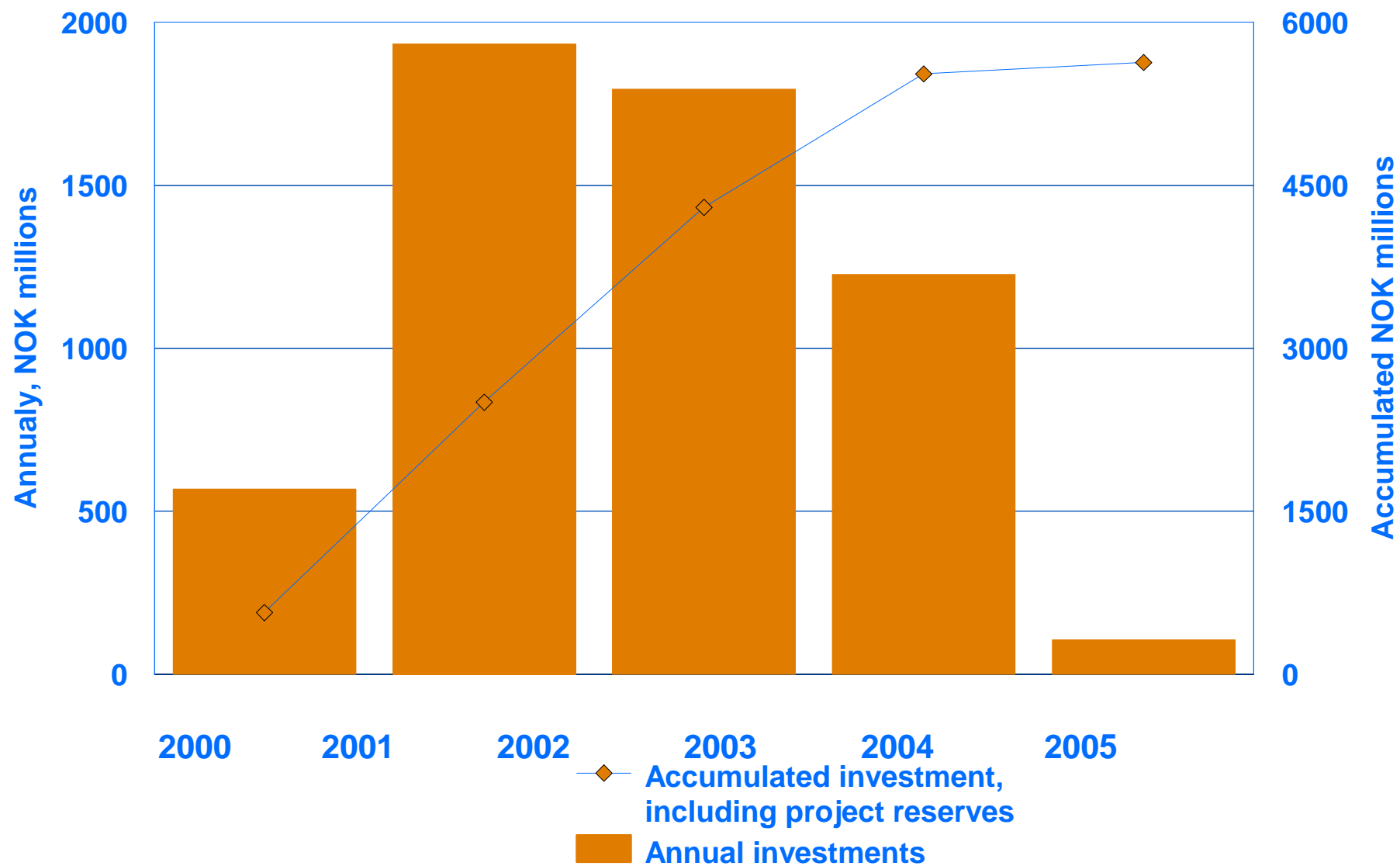
Profitability and assumptions

- ✓ **Internal rate of return exceeds 15 percent**
- ✓ **Assumptions**
 - **Electricity price marginally above of 18 øre per KWh**
 - **Dollar exchange rate 7.50 NOK/ USD**
 - **Average three month LME-price 1,550 USD/Mt**

Changes through the Main Study

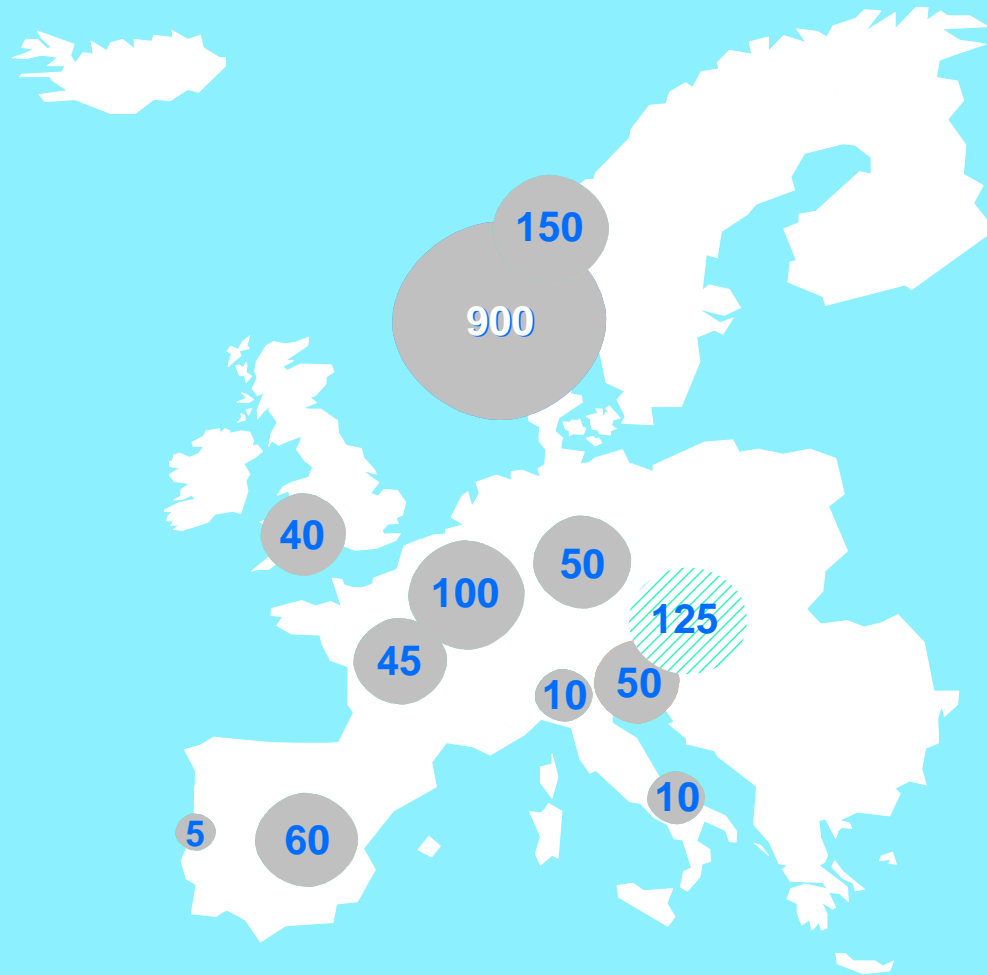
- ✓ **Number of celled increased from 336 to 340**
- ✓ **Rectifier configuration and cell lining prepared for 275 kA**
- ✓ **Simplified alumina and crushed bath transportation systems**
- ✓ **Power supply changed to overhead transmission lines instead of cables**
- ✓ **Adjusted layout to fit with new gas-scrubbers for existing prebake line (Su III)**

Investments



Building multisourcing network ...

Thousand tonnes, Hydro Aluminium European capacity 2001



100%
Equity

Equity
share

Strategic
alliance

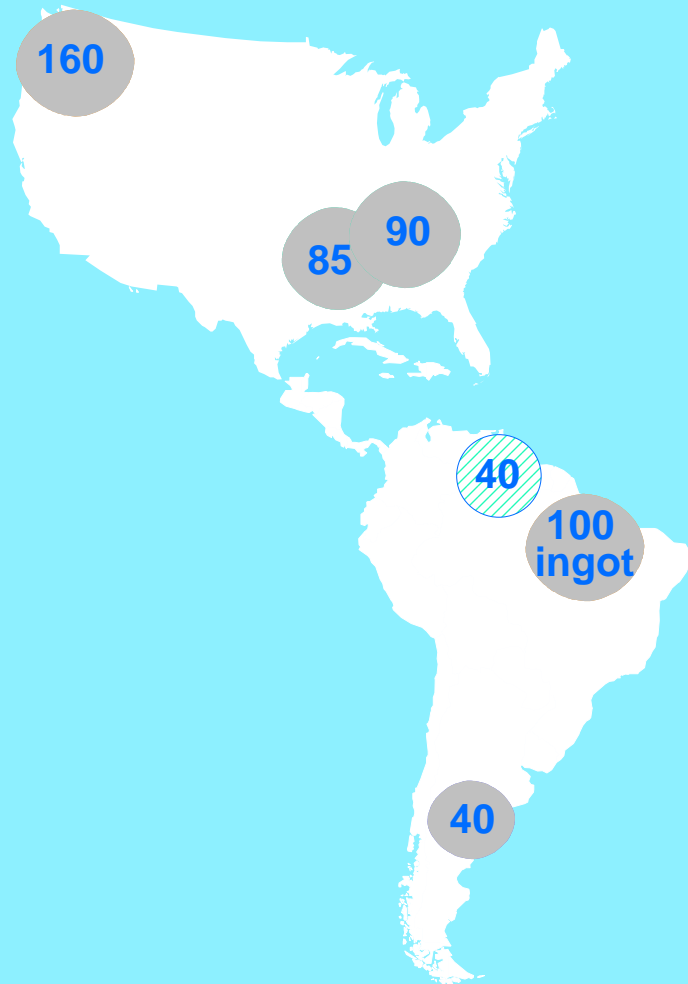
Virgin
metal

Remelt

	Virgin metal	Remelt
100% Equity	●	●
Equity share	◌	
Strategic alliance	●	

Building multisourcing network

Thousand tonnes, Hydro Aluminium American capacity 2001



100% Equity

Equity share

Strategic alliance

Commercial agreement

Virgin metal

Remelt/
casthouse

	Virgin metal	Remelt/ casthouse
100% Equity		●
Equity share		▨
Strategic alliance	●	
Commercial agreement	●	

Safe harbour statement

Certain statements in this presentation, including statements are or may constitute “forward-looking” statements within the meaning of the Private Securities Litigation Reform Act of 1995. Statements that are not in the nature of historical facts may be deemed to be forward-looking statements and may contain identifying words such as “believes,” “anticipates,” “plans,” “expects” and similar expressions. These forward looking statements are based on Hydro’s current expectations, assumptions, estimates and projections about the company and the industries in which it engages in business. All forward-looking statements involve risks and uncertainties. For a detailed description of factors that could cause Hydro’s actual results to differ materially from those expressed in or implied by such statements, please refer to its annual report on Form 20-F for the year-ended December 31, 1999 and subsequent filings on Form 6-K with the U.S. Securities and Exchange Commission.

