

“RDMN - Rio Doce Manganese Norway”



Companhia
Vale do Rio Doce

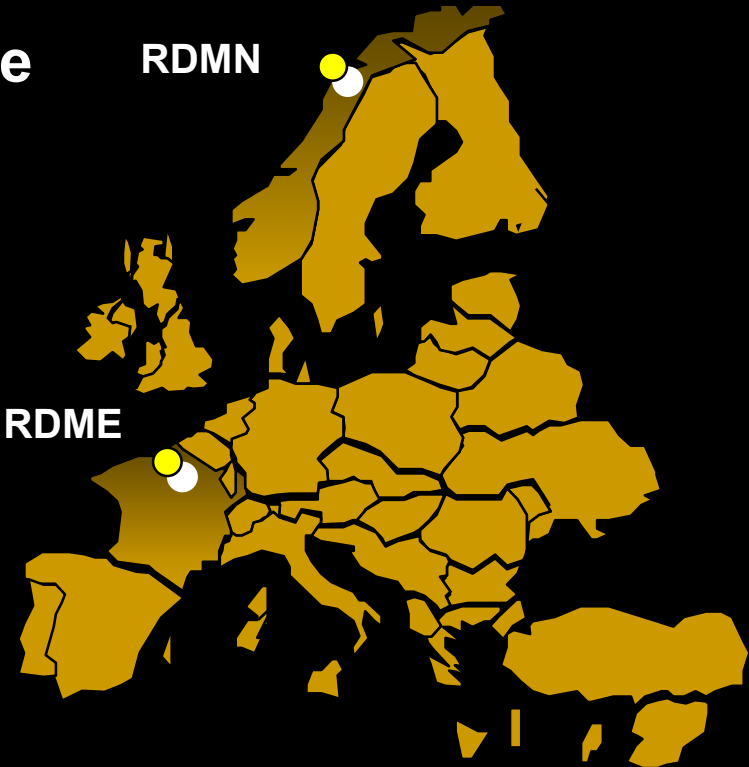
William Brown

IMnI Annual Conference 2003

Copacabana Palace Hotel, Rio de Janeiro

June 5 - June 6

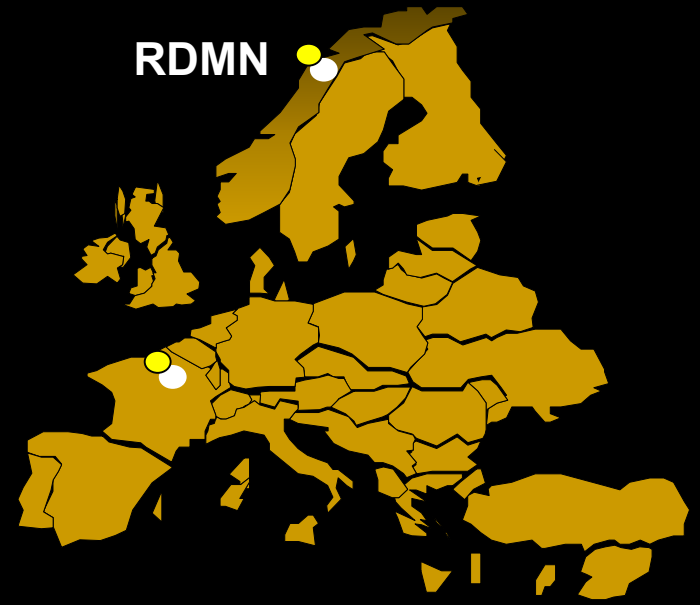
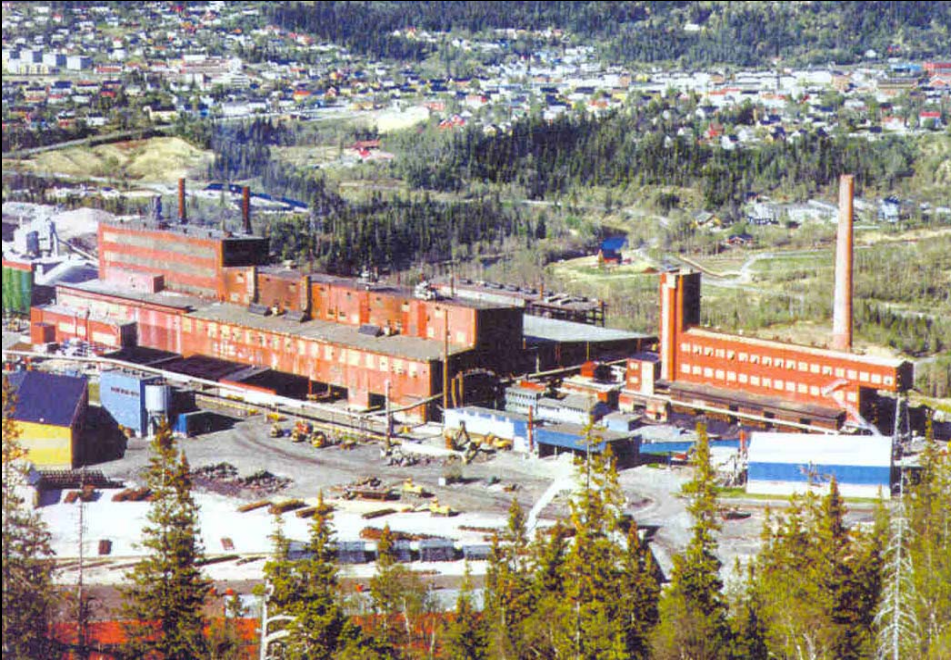
CVRD - Mines and Plants Worldwide



*Expansions:
RDMN - Acquisition
RDME - Cored Wire*

	Plants
	Mines

RDMN - Norway



Location: Mo-i-Rana Industrial Complex - Norway

Installed Capacity : 2 electric arc furnaces - 108MVA

Product: SiMn mainly

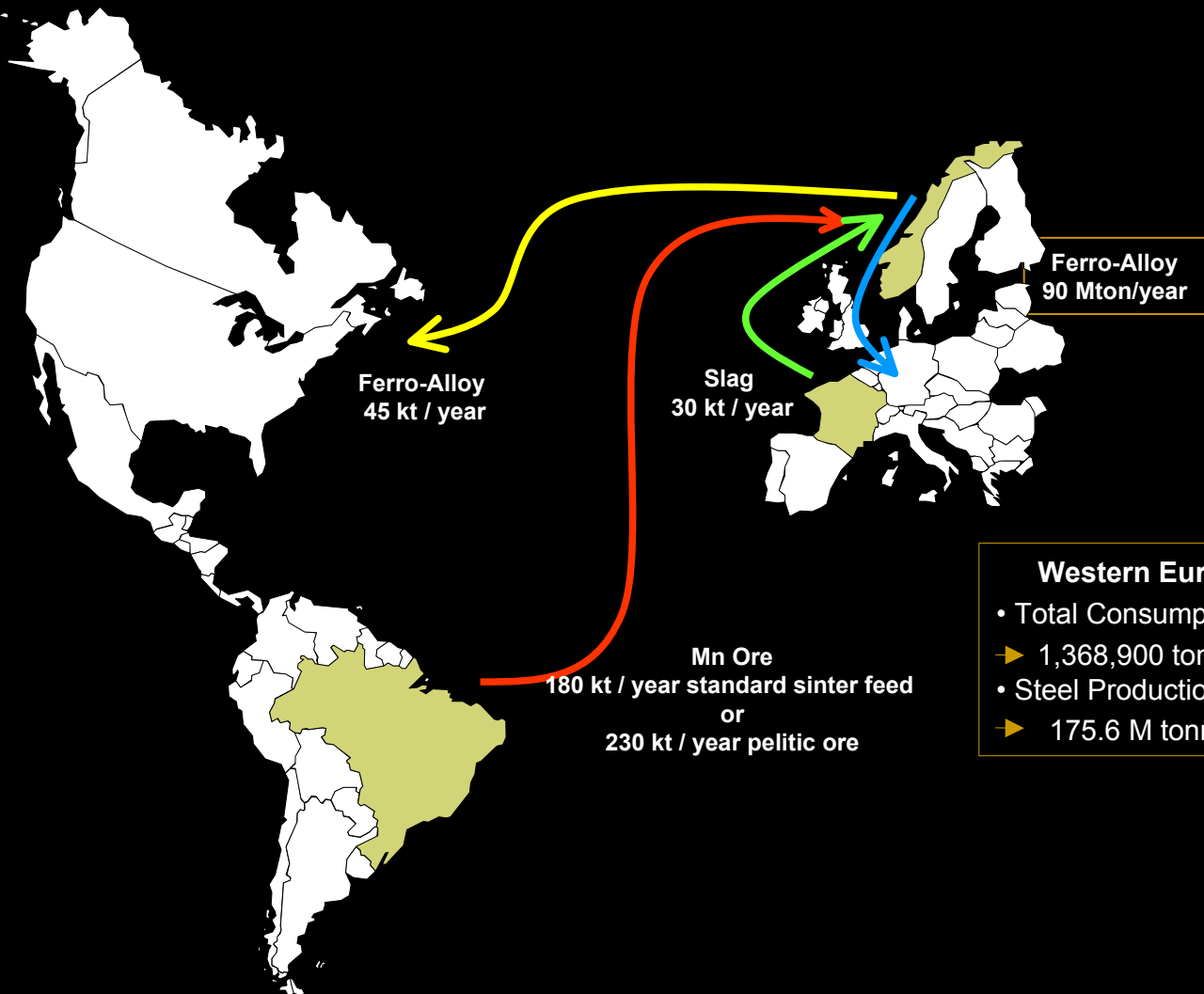
Production: 90.000 ton/year

Sintering plant: 250.000 ton/year - own consumption

Mn Ore and Ferro-Alloy Flow

USA + Canada

- Total Consumption*
 - 897.300 tonnes
- Steel Production 2002
 - 113.9 M tonnes



Western Europe

- Total Consumption*
 - 1,368,900 tonnes
- Steel Production 2002
 - 175.6 M tonnes

CVRD European alloys business strategy

- **To become a wide range products supplier**
- **Several products at same port (Dunkirk)**
- **Short term deliveries**
- **Focused on long term relationship**
- **In line with CVRD Full Steel Supplier strategy**



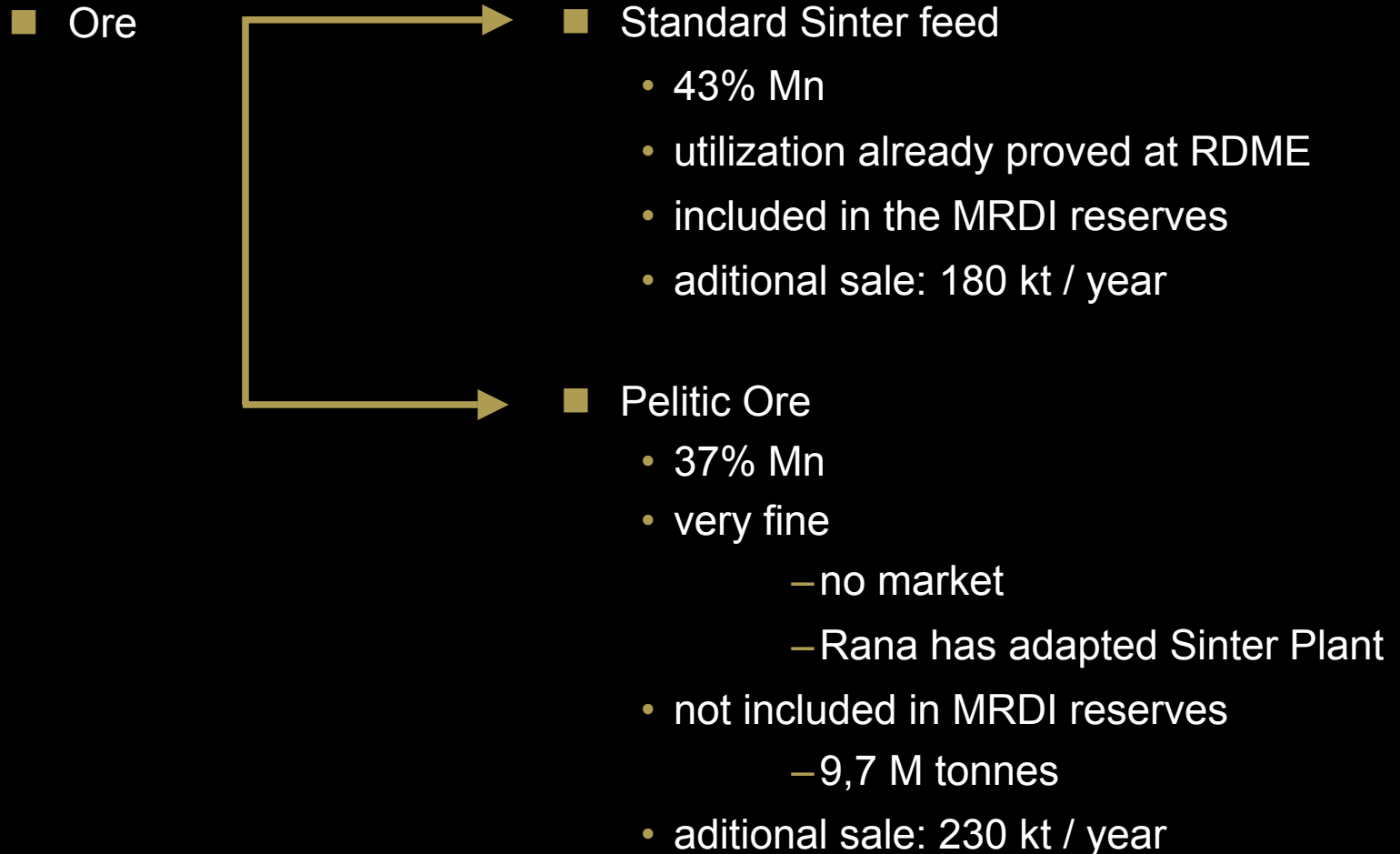
- **SiMn production: Sales to EU and to USA / Canada / Mexico**
- **Sintering Plant : Use of CVRD Mn fine ore**
- **Location: Installed capacity at an industrial complex**
- **Complement to European products portfolio**
- **High quality level of assets and labour force**



Mo Industripark

Rana Industriterminal

Two technical possibilities of Mn ore utilization were identified





Thanks !