

Companhia
Vale do Rio Doce

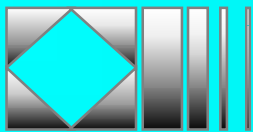
Shift in the Industry

International Manganese Institute

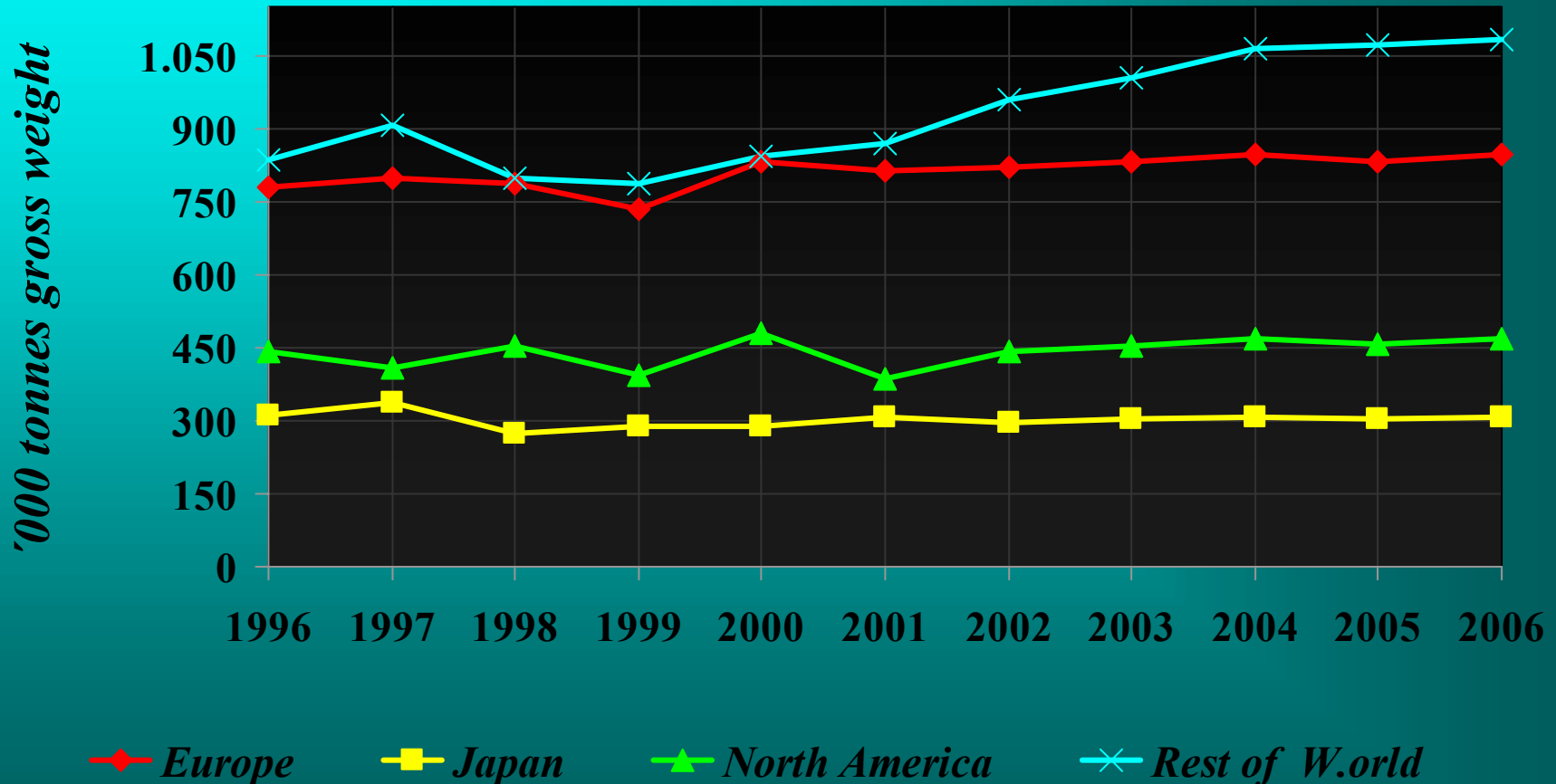
Annual Conference 2002

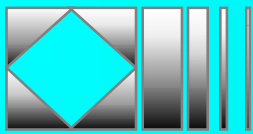
5-6 June 2002, Shanghai, China

Comments by
J.L. Amarante, *General Manager of Sales and Marketing*
Manganese Division - CVRD

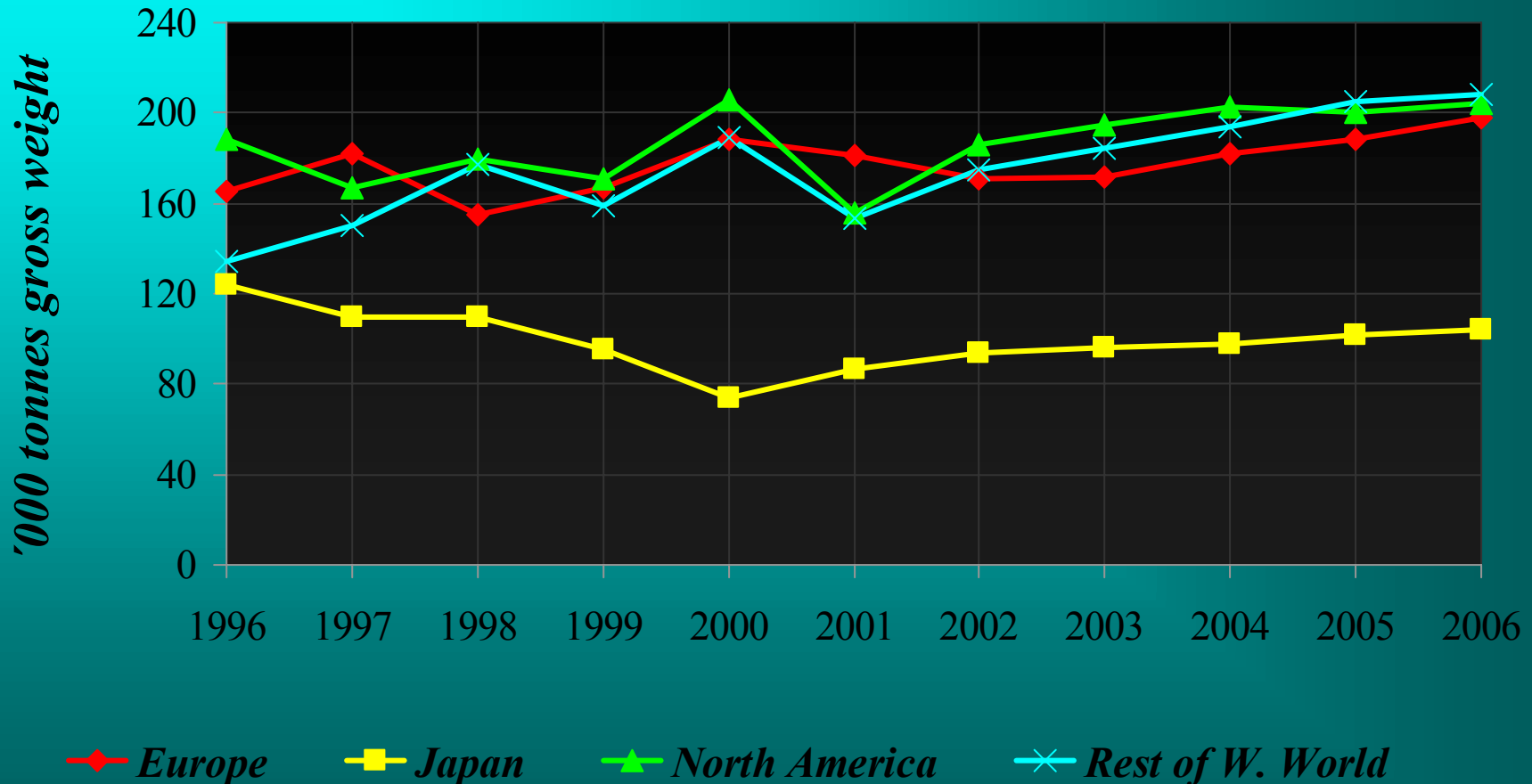


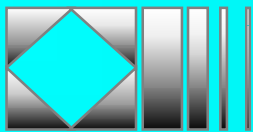
Apparent Consumption of SiMn by Region



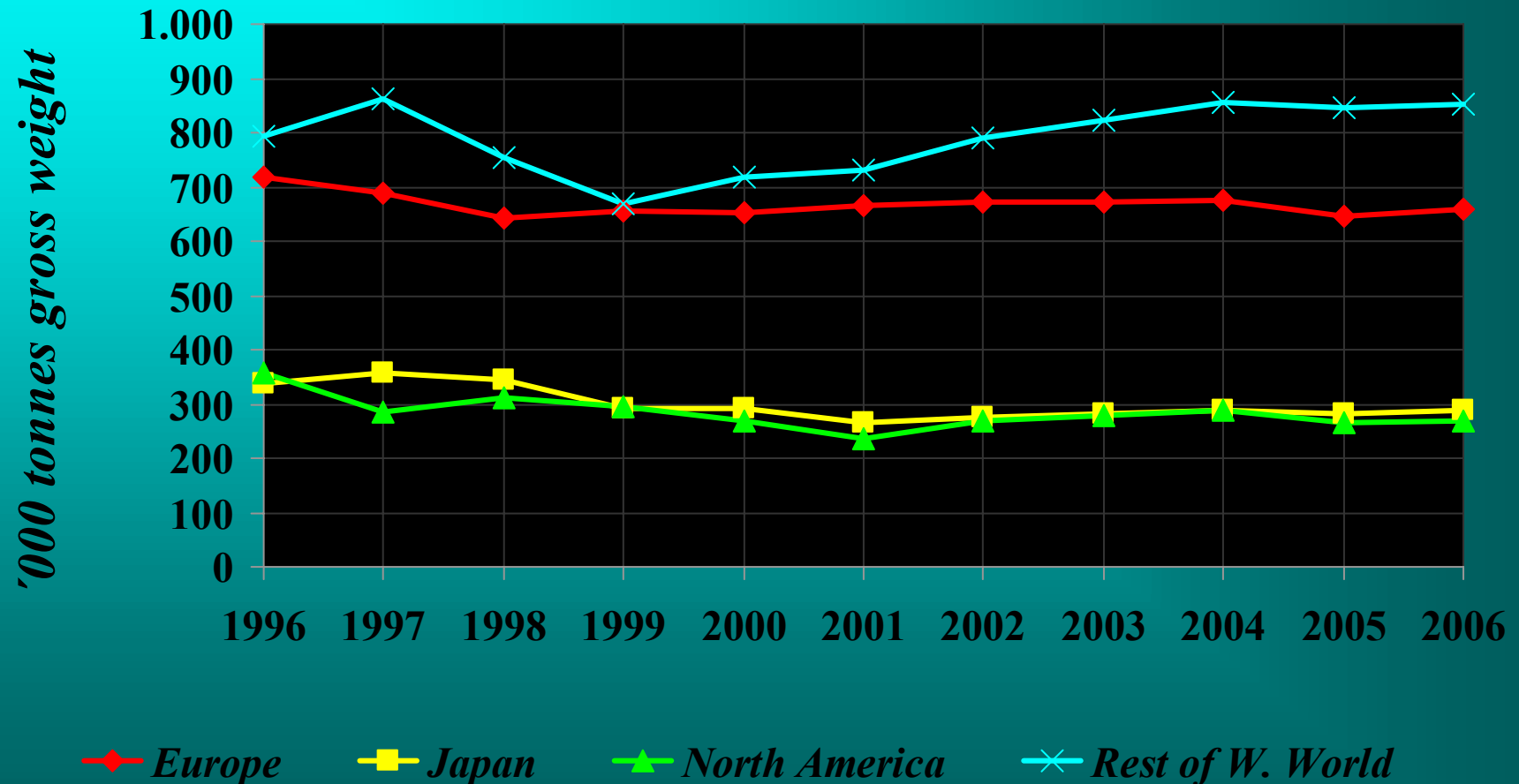


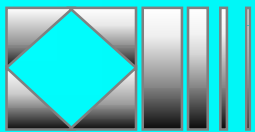
Apparent Consumption of MCFeMn by Region





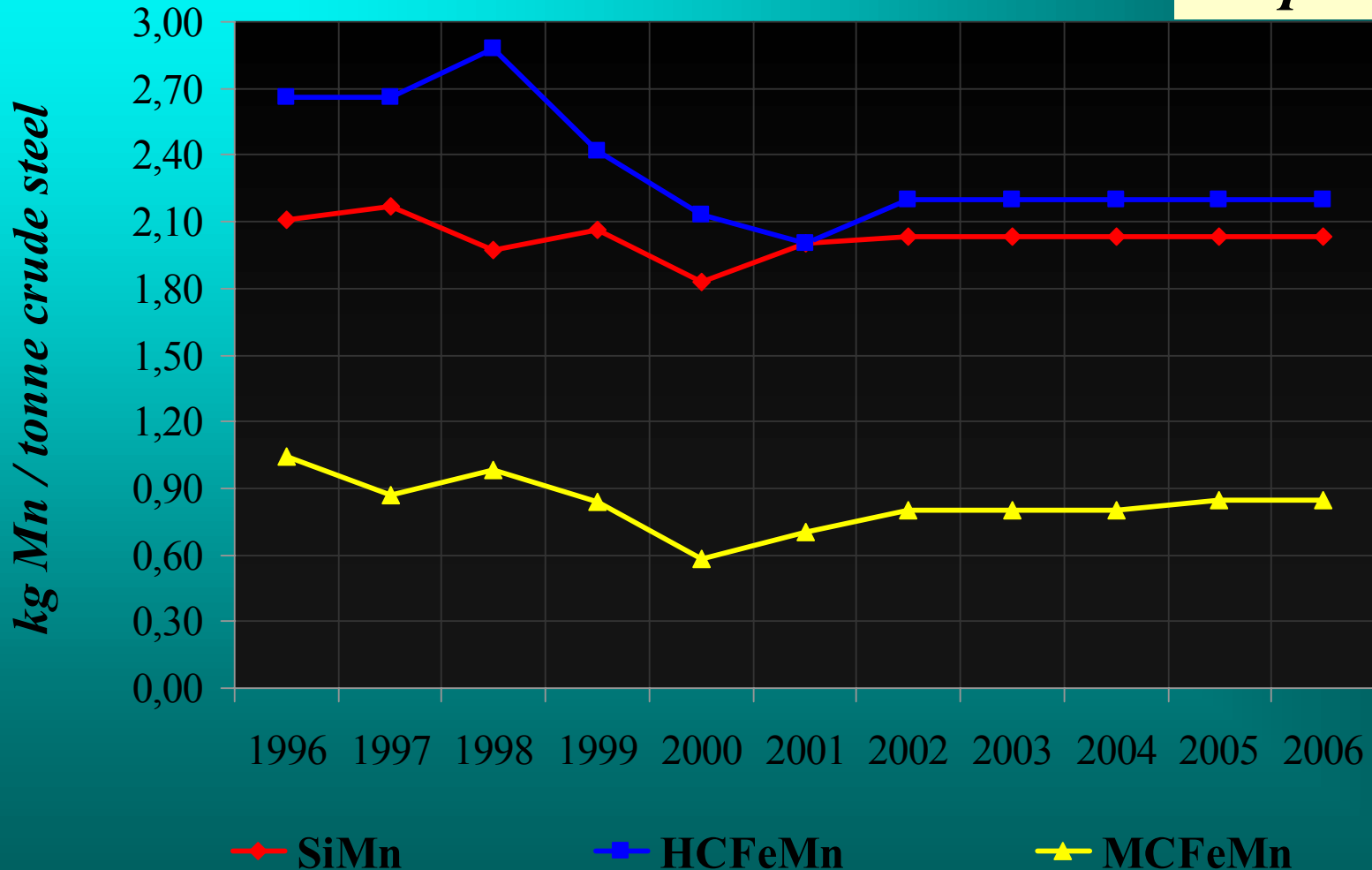
Apparent Consumption of HCFeMn by Region

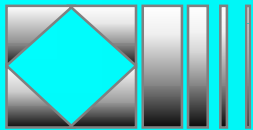




Apparent Unit Consumption

Japan



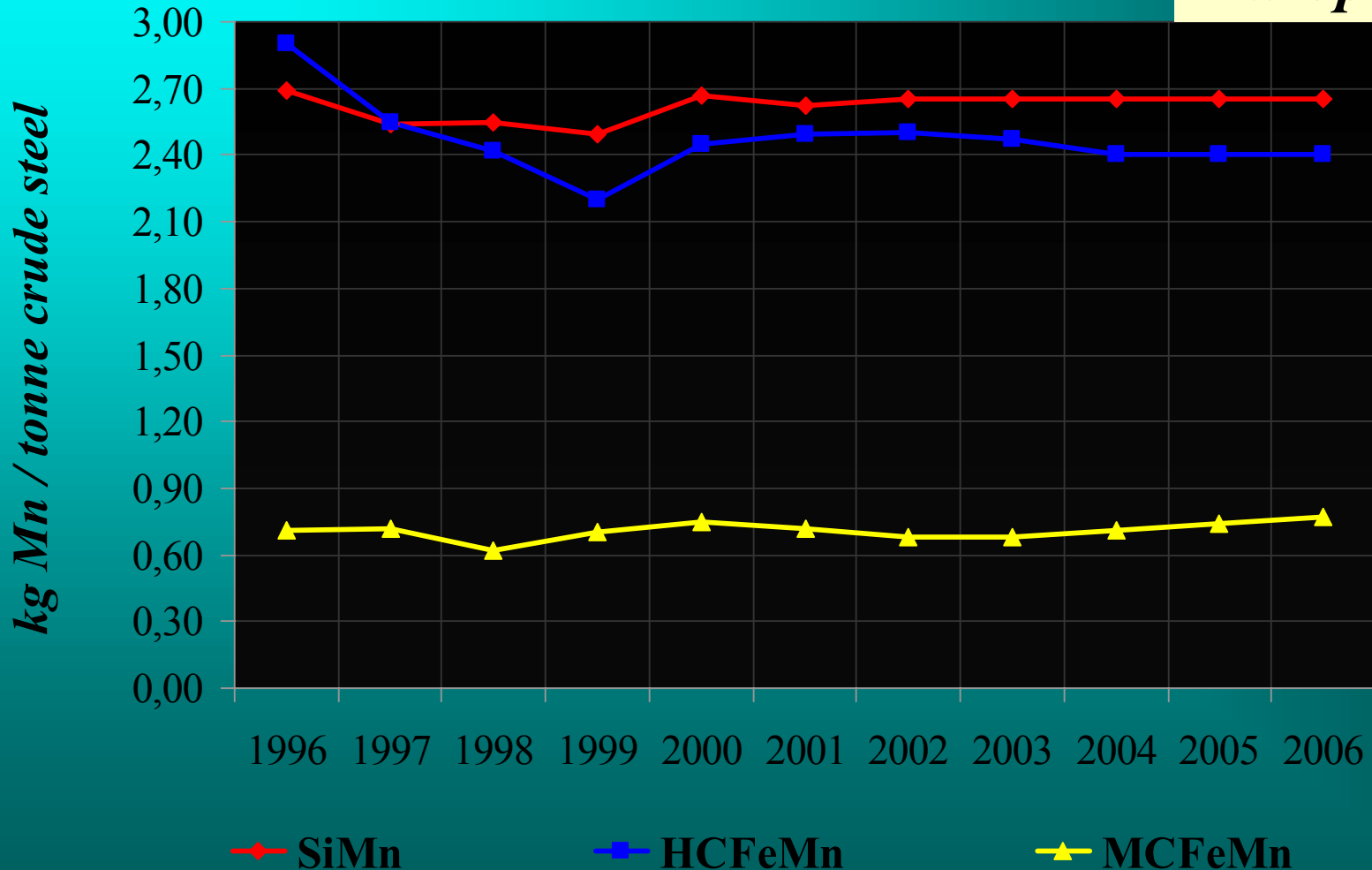


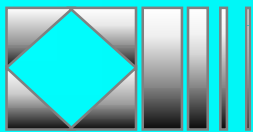
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Manganese Ferro-Alloys

Apparent Unit Consumption

Europe



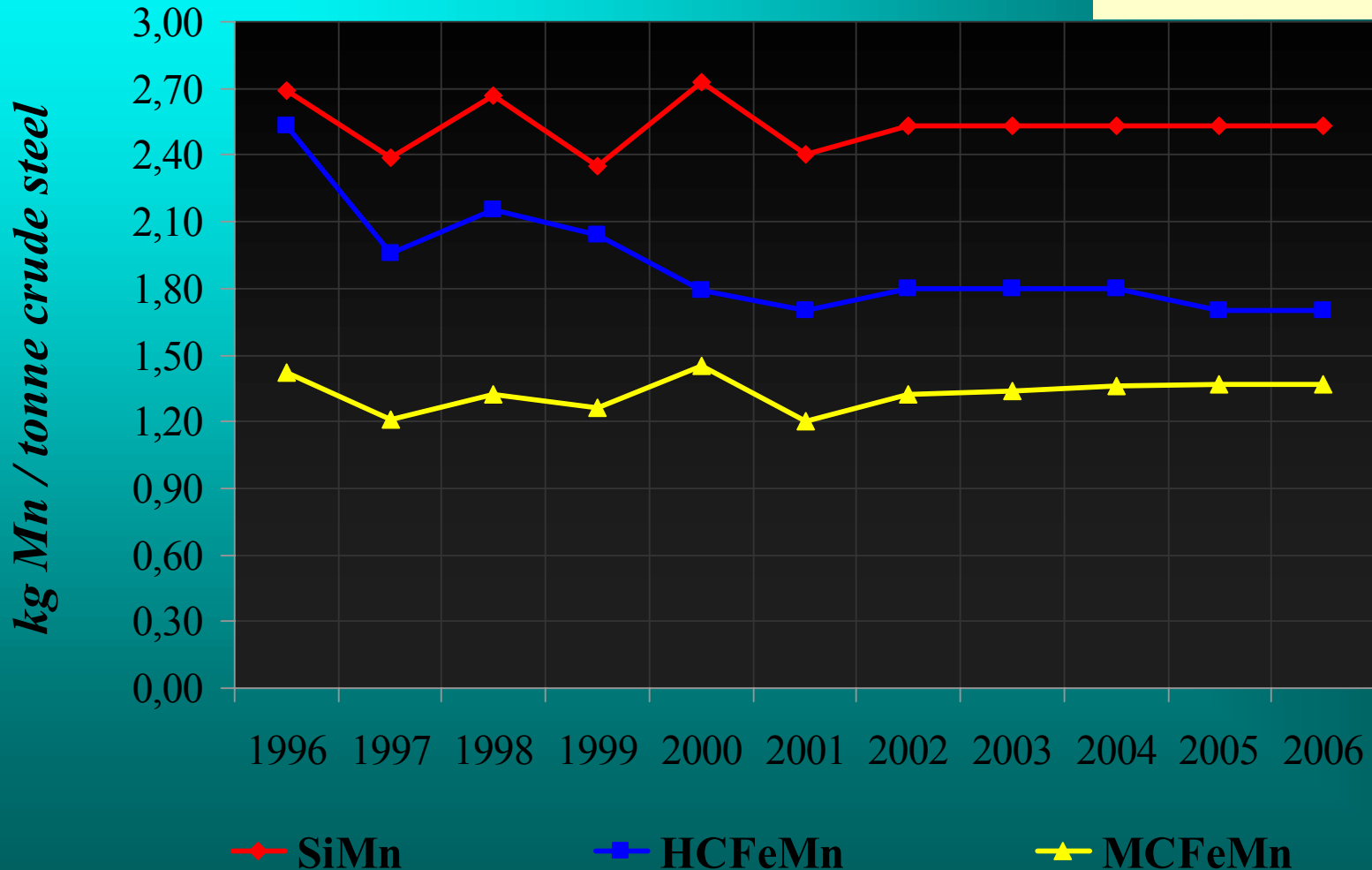


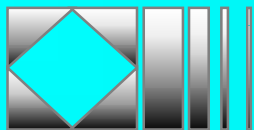
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Vale do Rio Doce

Manganese Ferro-Alloys

Apparent Unit Consumption

North America



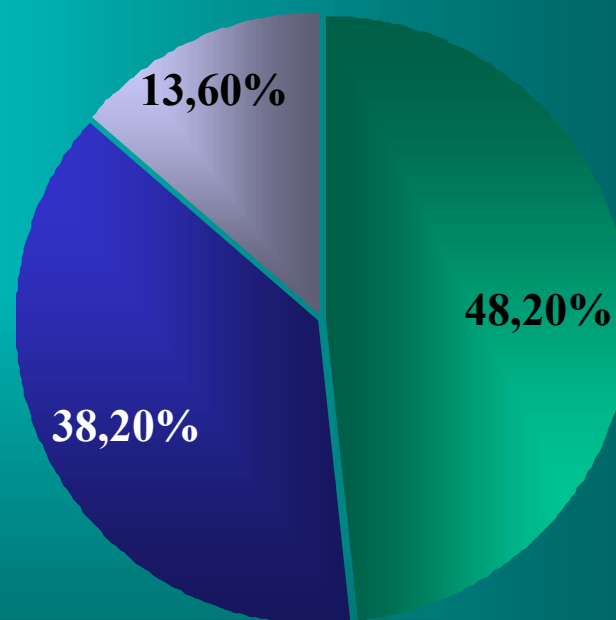
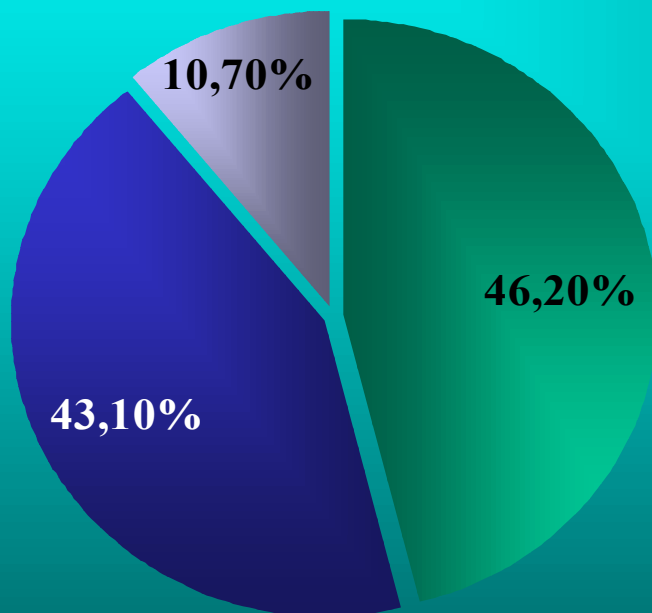


Increasing Market Share Over Time

Western World Mn Ferro-Alloy Share of Consumption

1995

2000



SiMn

HCFeMn

MCFeMn