



# Ni Use in Stainless Steel

Meeting EEC, Item 6

Lisbon

10 May 2007



# Introduction

First Use Studies:

- Enhance understanding in long term Ni use
- Underpin assumptions made in recycling study

First application:

**Stainless Steel**



# Objectives

- To obtain consistent historical data on Ni use in stainless
- Proportion primary and secondary source
- Factors affecting nickel use in stainless
- Assess impact of stainless production on
  - Current Ni demand and supply
  - Future supply of nickel



# Methodology

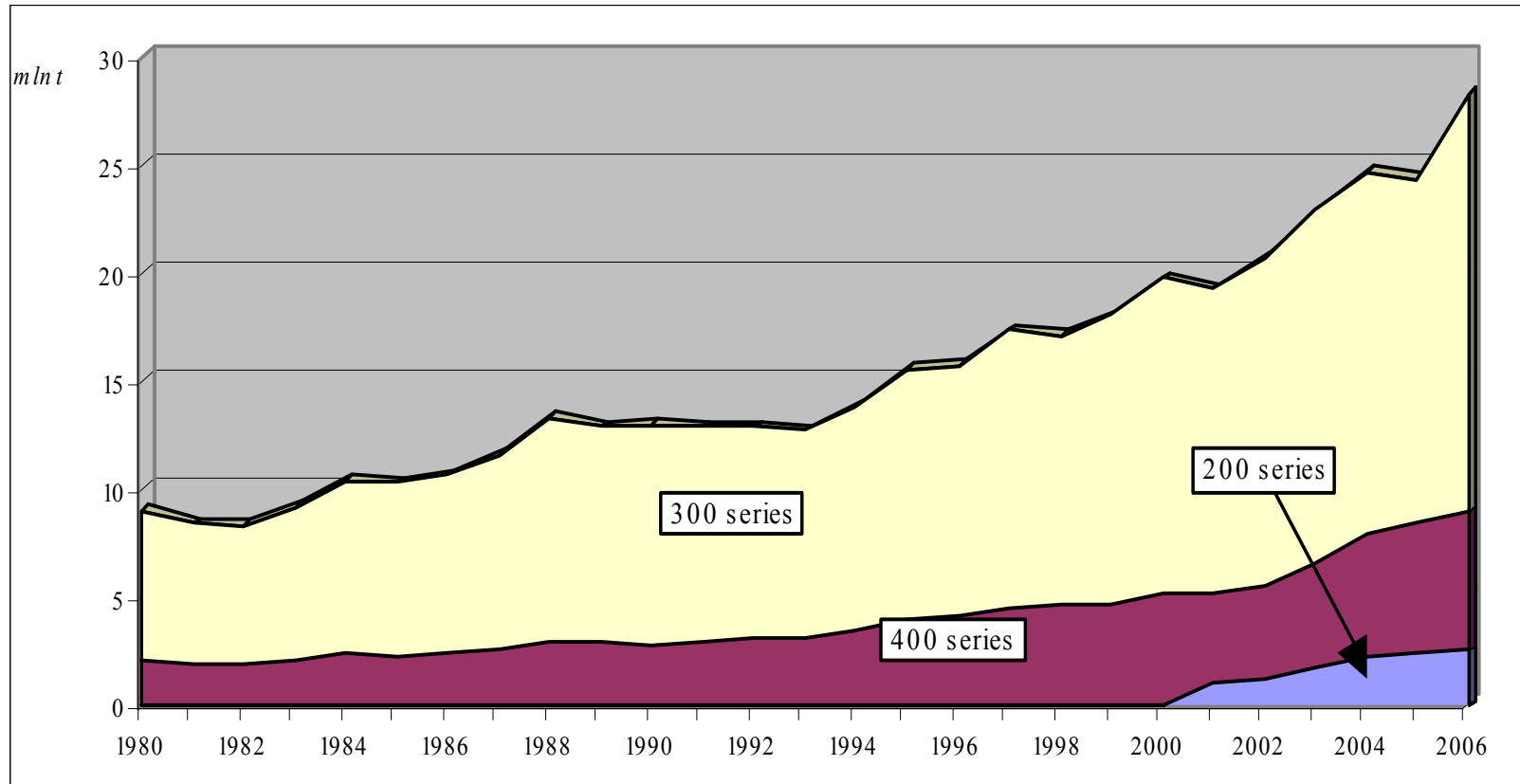
Statistics on Ni use in stainless steel not available: therefore

Stainless steel production: 1980 - current:

- global data: incl. former Eastern World
- estimate % nickel containing
- estimate scrap ratio/primary ratio



# Stainless Steel Production





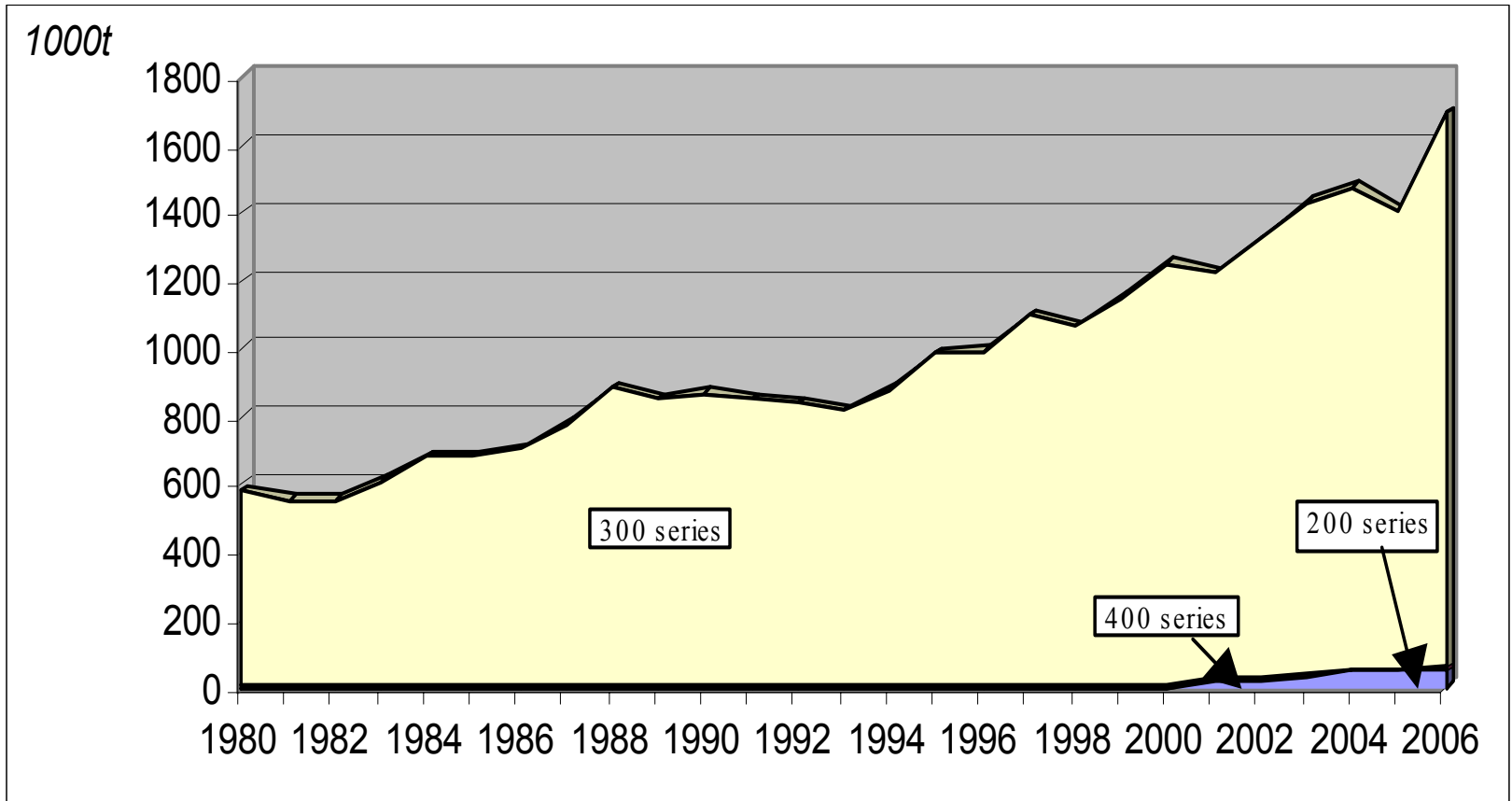
# Ni Content

Assume 3 types of stainless steel:

300 series	8.5%
400 series	0.15%
200 series	2.0%



# Ni use in Stainless





# Growth rates

	<b>St. St. Prod.</b> <i>Ann. Incr. %</i>	<b>Ni Use in St. St.</b> <b>Primary + scrap</b> <i>Ann. Incr. %</i>
1980 - 2006	4.7	4.3
1980 - 1995	4.1	3.9
1995 - 2006	5.5	4.8
2000 - 2006	6.2	5.2



# Next

- primary v. secondary nickel use in stainless
- factors affecting Ni use in stainless
  - ✓ Ni price
  - ✓ EHS issues
- factors affecting Ni supply
  - ✓ supply of secondary Ni units

Finished: end of this year