



Production of aluminium surface treatment (year 2005)

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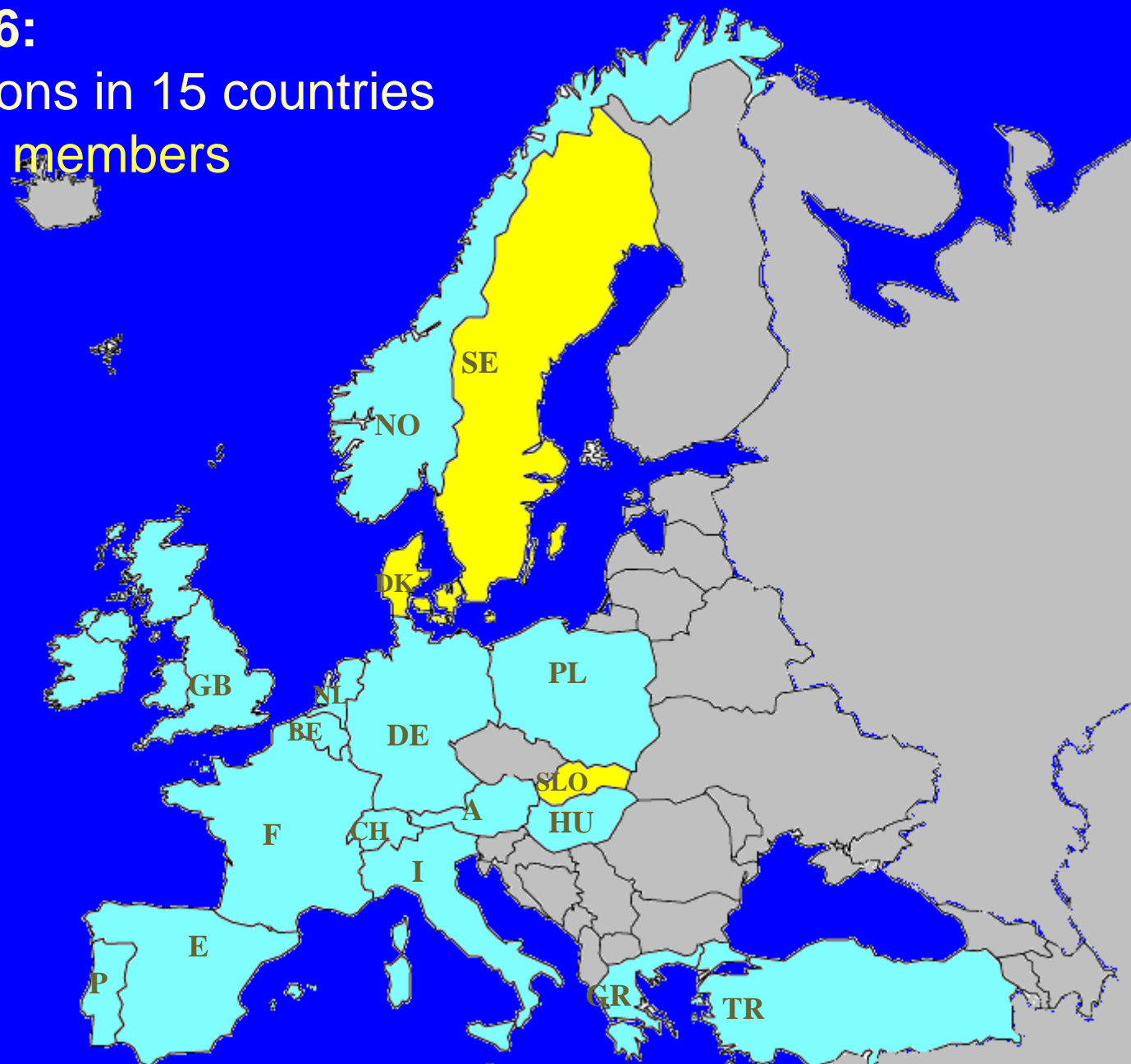
ESTAL

September 2006

ESTAL 2006:

16 associations in 15 countries

5 associate members



Secretariat

in Zurich / CH



ESTAL in Europe

- **1.1.2006 = 452 plants**
 - 159 anodisers
 - 203 coaters
 - 85 anodisers + coaters
 - 5 associate members
- approx. **15 000 employees in Europe**
- **Small & medium-sized enterprises**

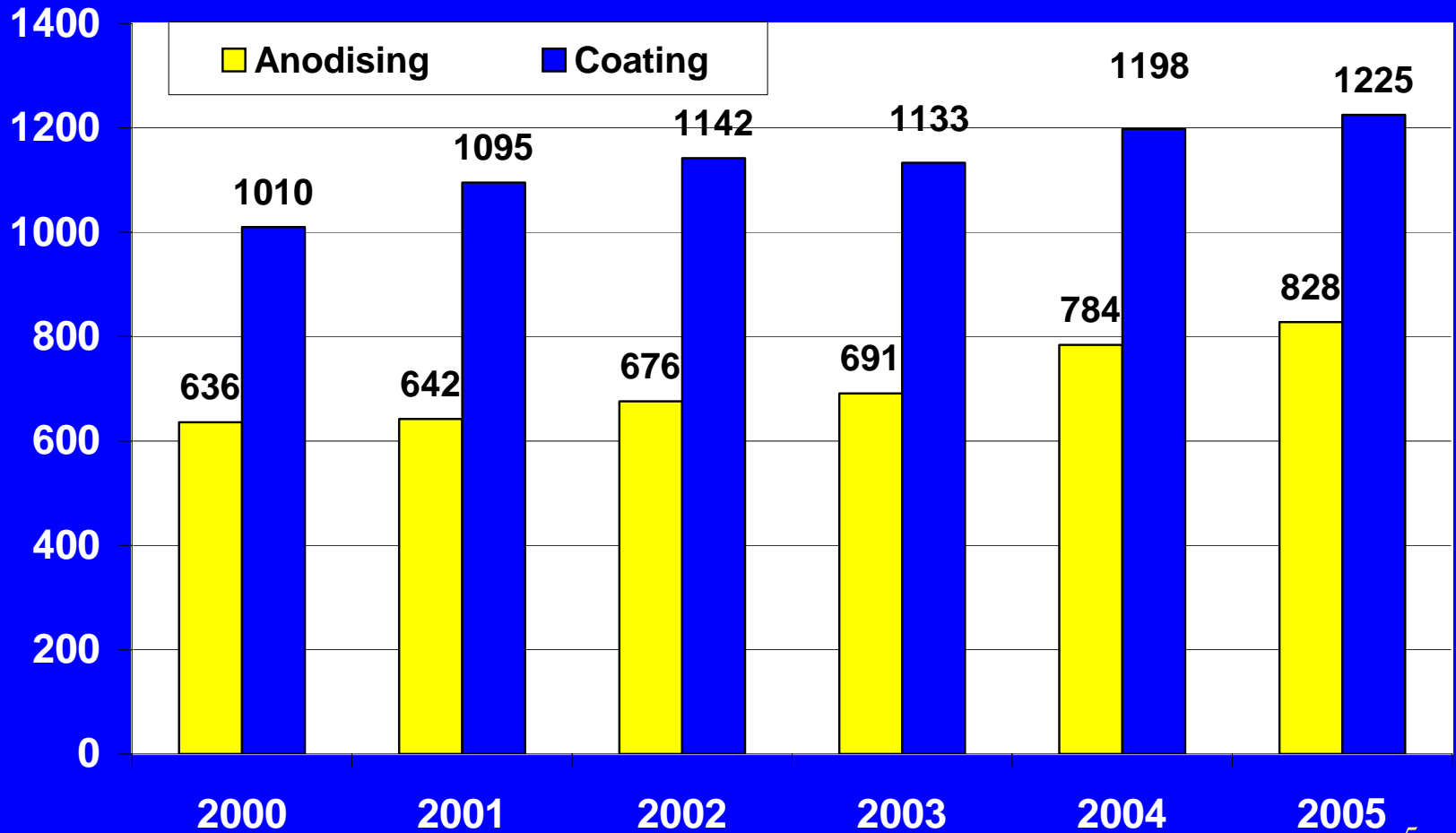


European Production 2005

- **Anodised aluminium**
 - 279 mio m² - 828 000 tonnes
 - ESTAL anodisers \cong 67%
- **Coated aluminium**
 - 441 mio m² - 1.22 mio tonnes
 - **ESTAL coaters** \cong 64%.

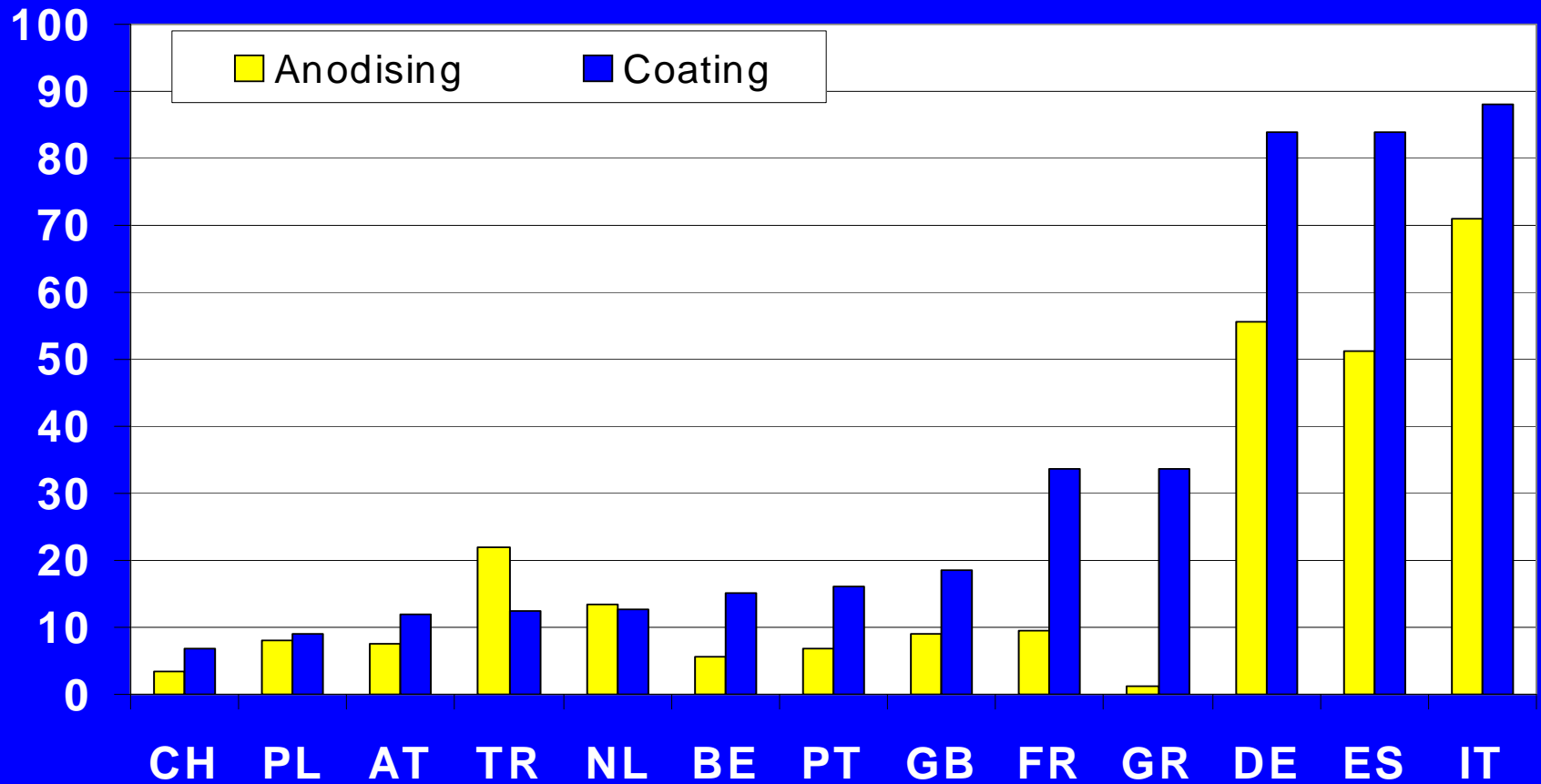


European Production (000 tonnes)



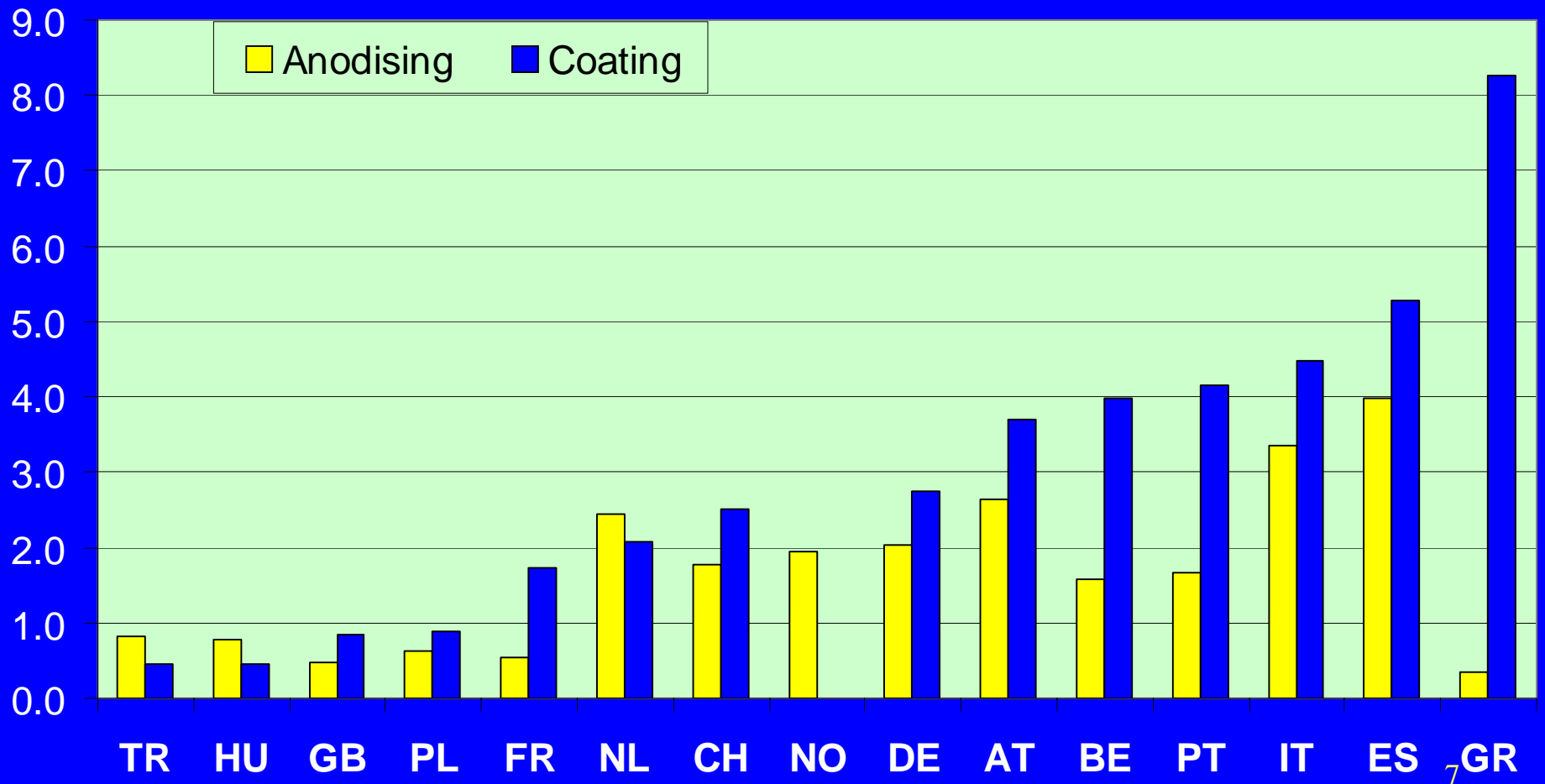


European Production per country 2005 (Mio m²)





Production 2005 per capita per country





Colours and applications

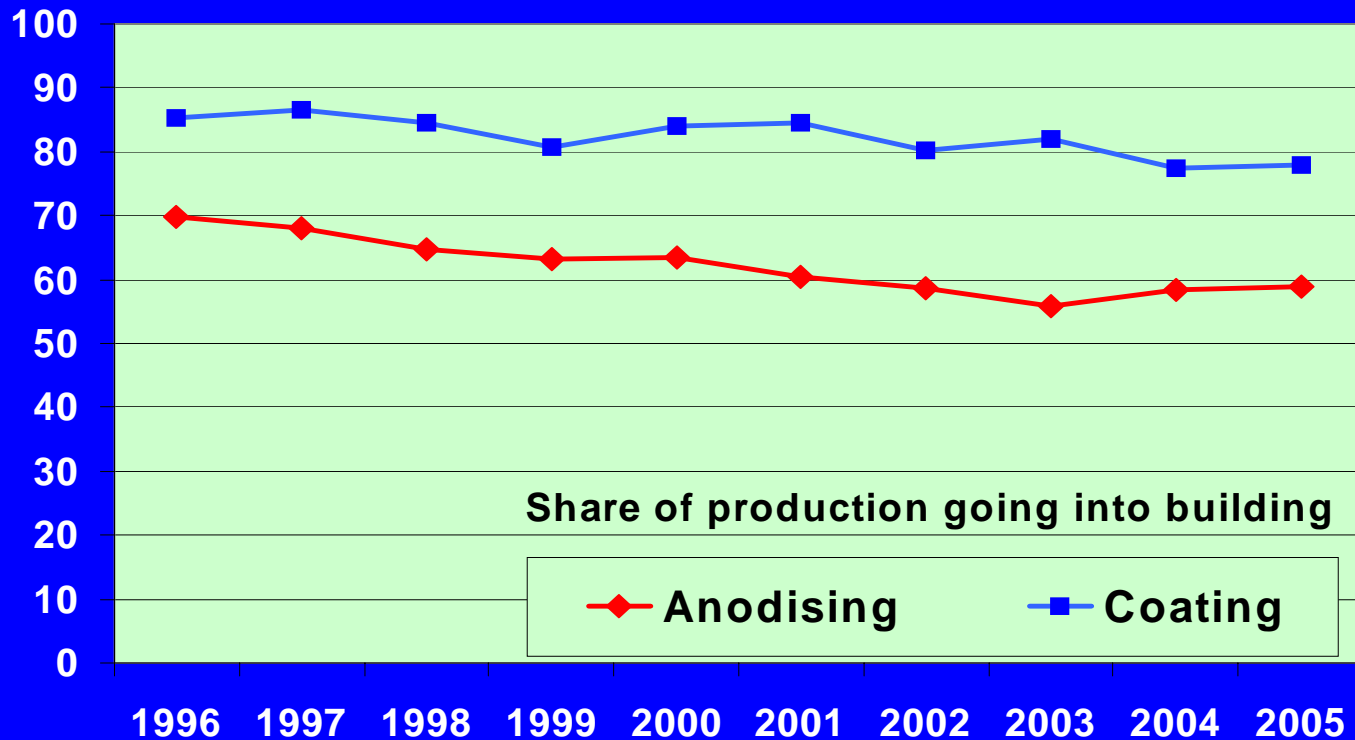
- **COLOURS**
- **Anodised aluminium**
 - 50- 80% anodised in colourless aluminium
 - Colours: high share of electrolytic colours
- **Coated aluminium**
 - Colour white 45- 60% of coating
 - Metallic coating 10-25%



Which applications ?

1. Building

- Anodising: 59% of production
- Coating: 78 % of production





2. Other applications (a)

- **Automotive and transportation**
- **Aerospace**
- **Industrial products – Mechanical construction**
- **Electronic equipment**
- **Furniture**



2. Other applications (b)

- Household appliances + decorative design
- Sports and leisure industry
- Packaging
- Jewelry and cosmetic packaging



European Aluminium Surface Treatment



ESTAL

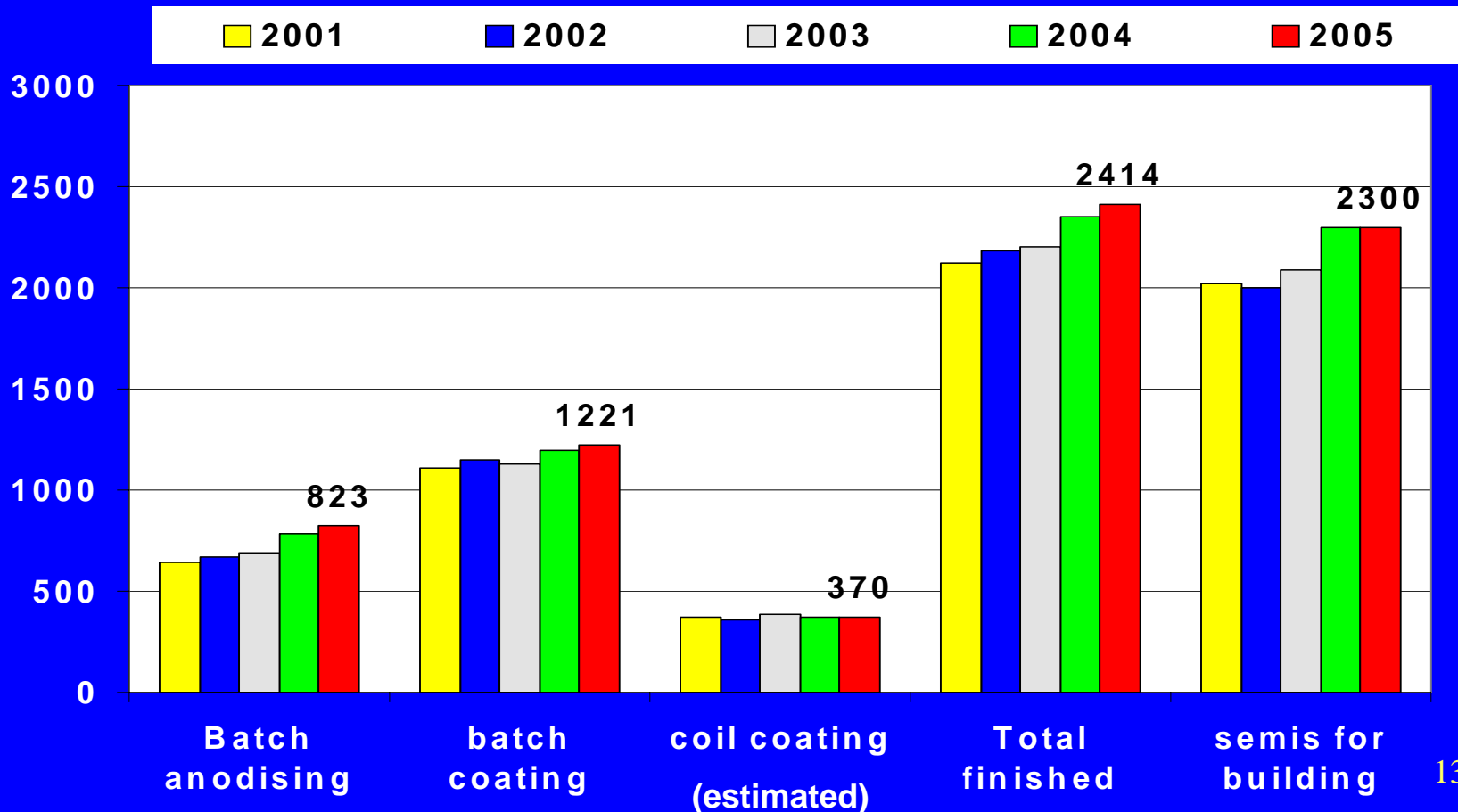
ECCA



EAA Semis for building
(rolled and extruded)



European aluminium surface finishing + Semis for building (EAA) in tonnes





Anodising capacities

1.1.2006 (compared with 2004)

- Number of plants
 - ESTAL: 236 (226) - Europe: 533 (460)
- Ampere Capacities:
 - ESTAL: 6.9 millions (6.0) Europe: 9.9 (8.8)
- Capacity utilization 2005
 - ESTAL: 71.1% (68.2%)
- Average plant capacity: 29'289 Amperes (26'865)



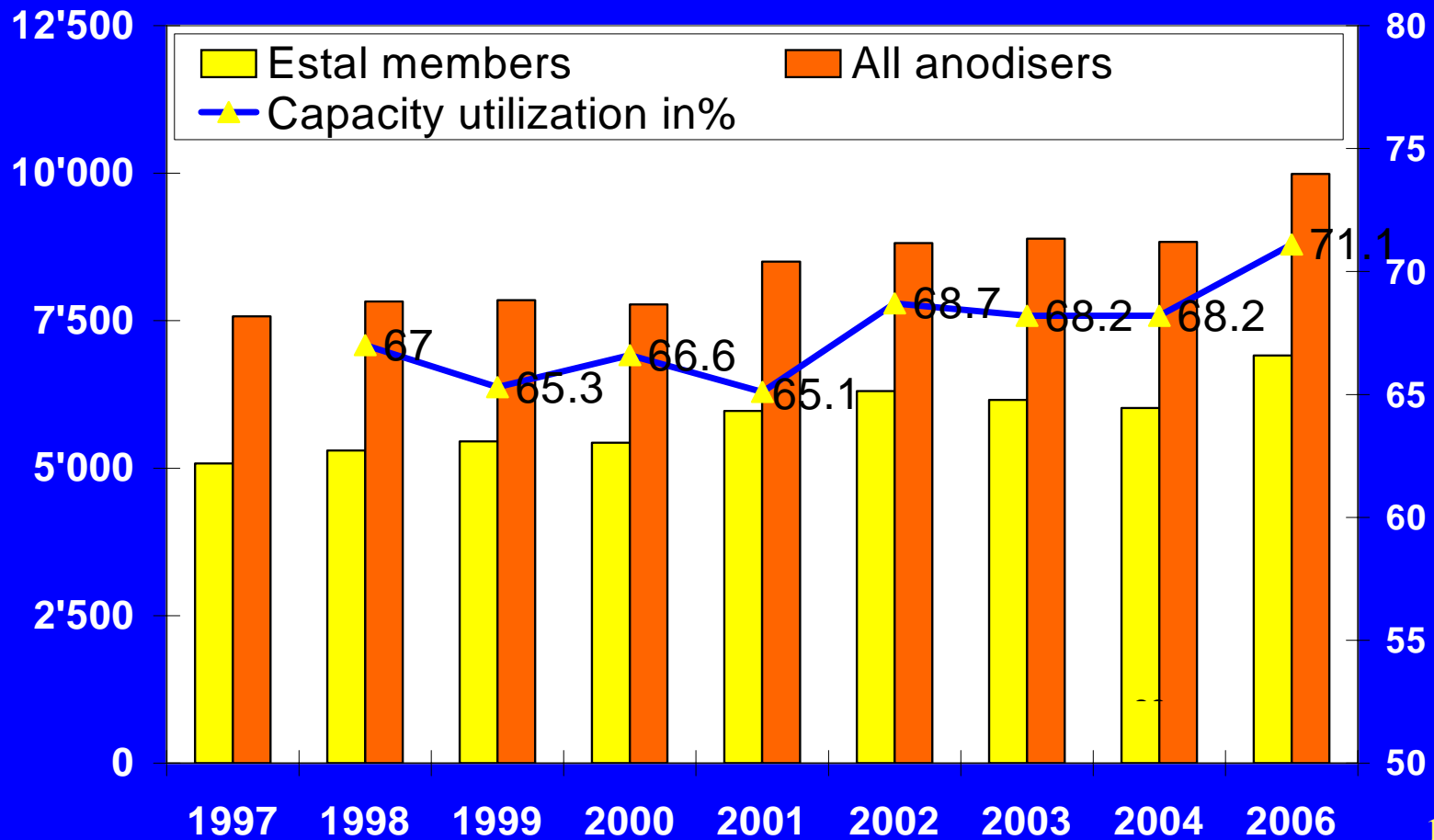
Coating capacities

1.1.2006 (compared with 1.1.2004)

- Number of plants:
 - ESTAL: 265 (275) Europe:677 (632)
- Capacity:
 - ESTAL: 372 mio m², 1'024 K to (942.7)
 - Europe: 556 mio m², 1.52 mio to (1.41)
- Capacity utilization 2005: 67% (66%)
- Estimated Average plant :
1.40 mio m², 3'864 To (1.26 - 3'428 To)



Anodising capacity (000 Amperes) + Capacity utilization





Coating capacity

(000 tonnes)

Capacity utilization

