

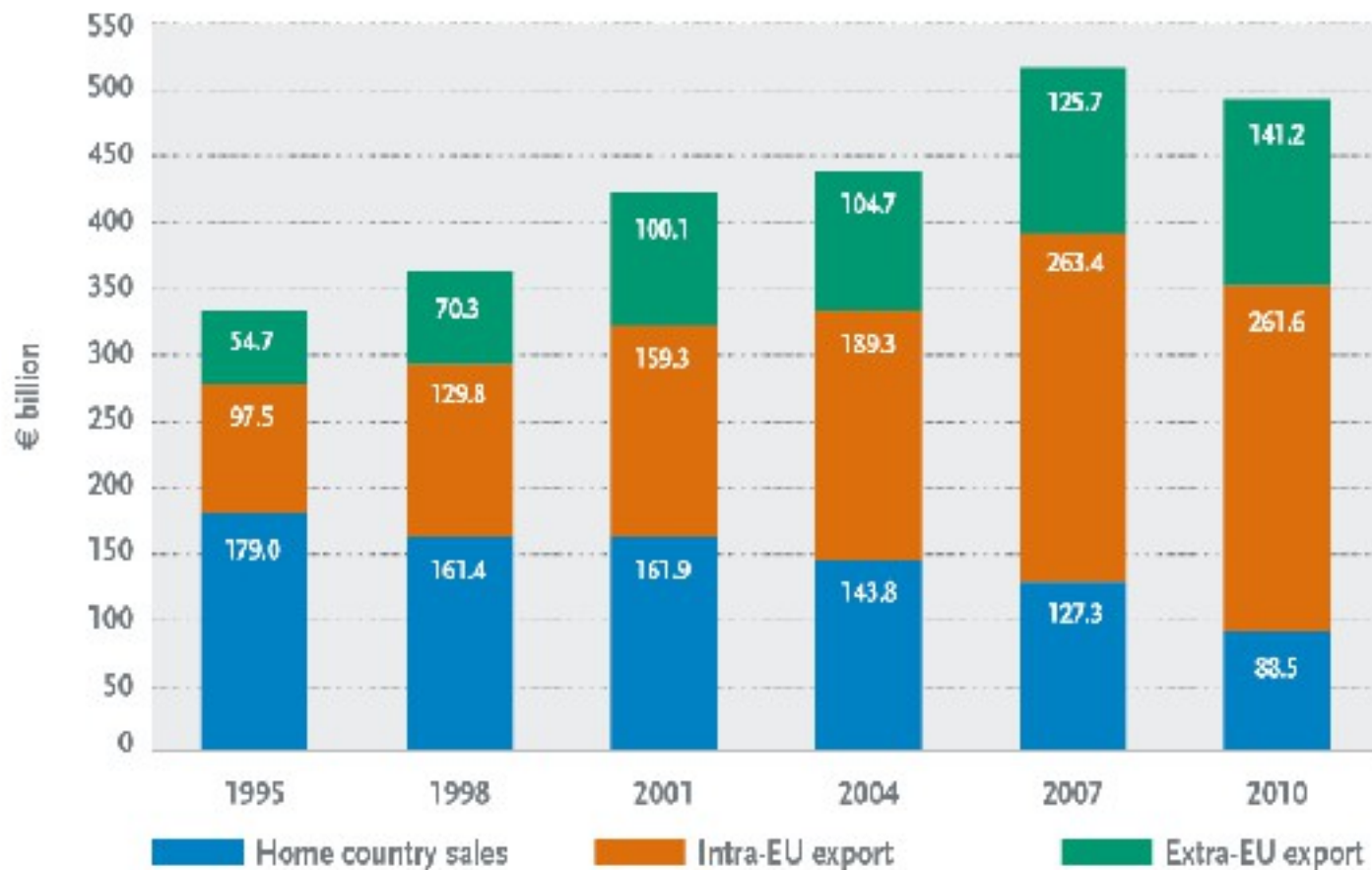


A sustainable vision for the chemical industry in Europe

J.C. Lahaut – 15 May 2012



Intra-EU trade has increased significantly due to the success of the internal market

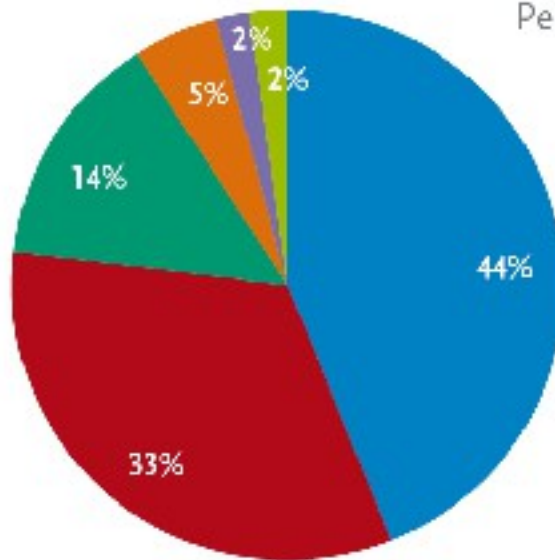


Sources: Eurostat and Cefic Chemdata International

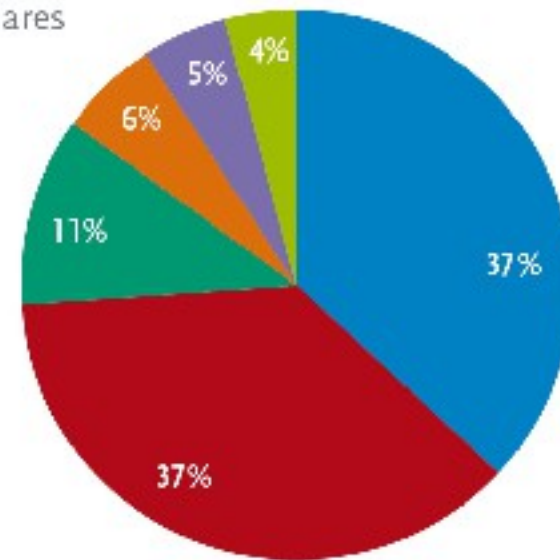
The European Union is the world's top exporter and importer of chemicals



World exports of chemical*
2010

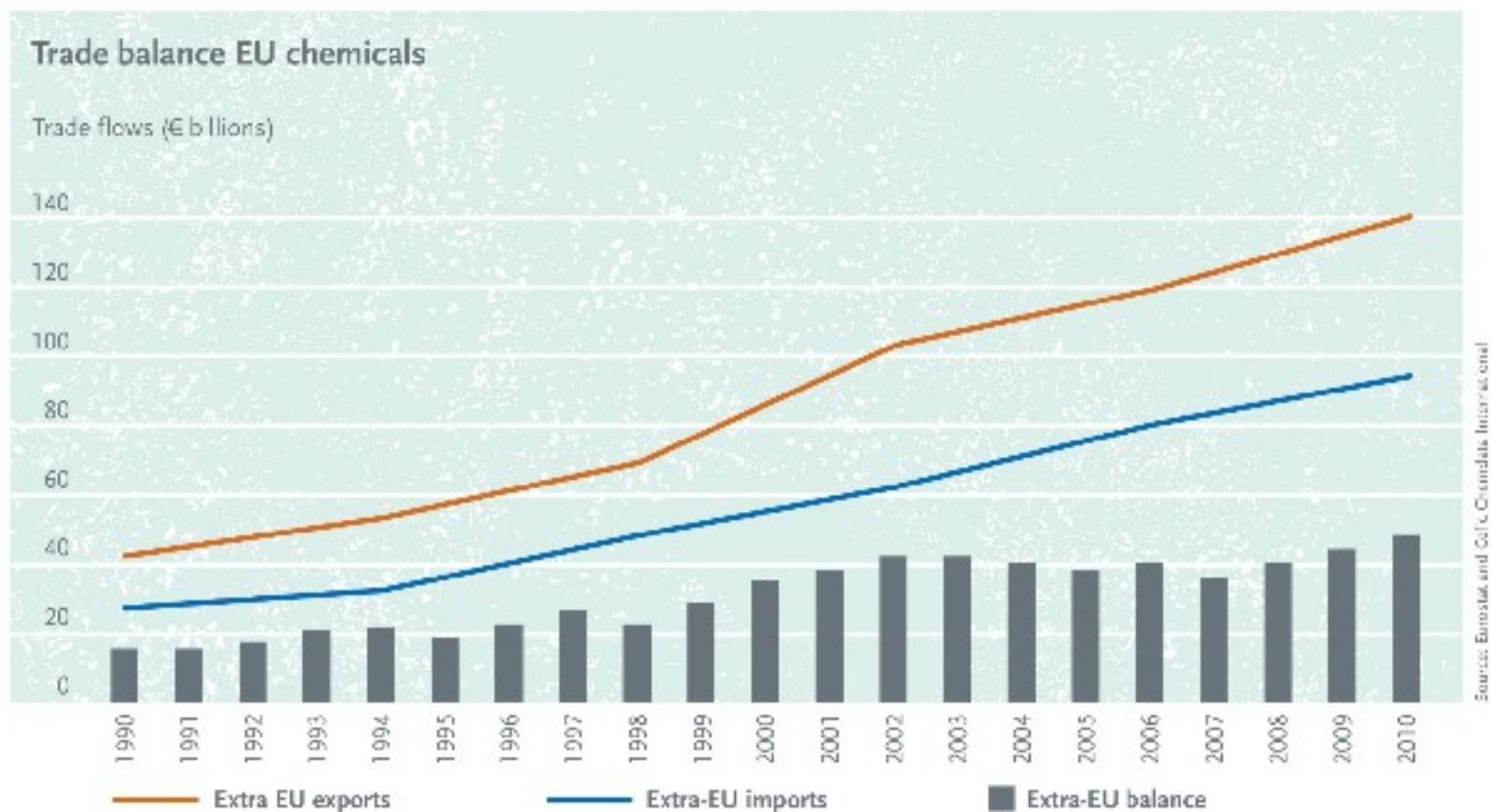


World imports of chemical*
2010

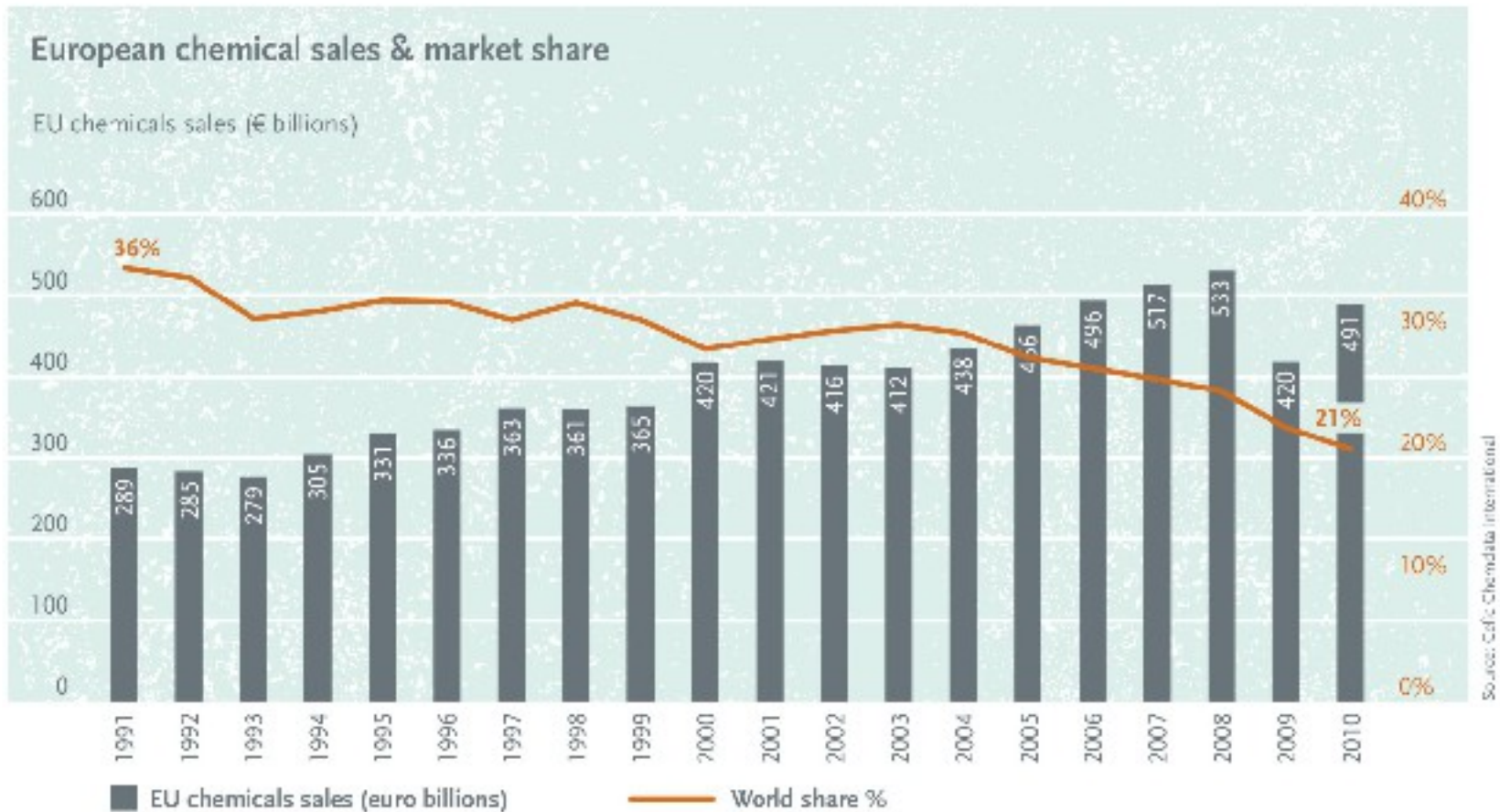


Sources: Eurostat and Cefic Chemdata International
* Including intra EU trade

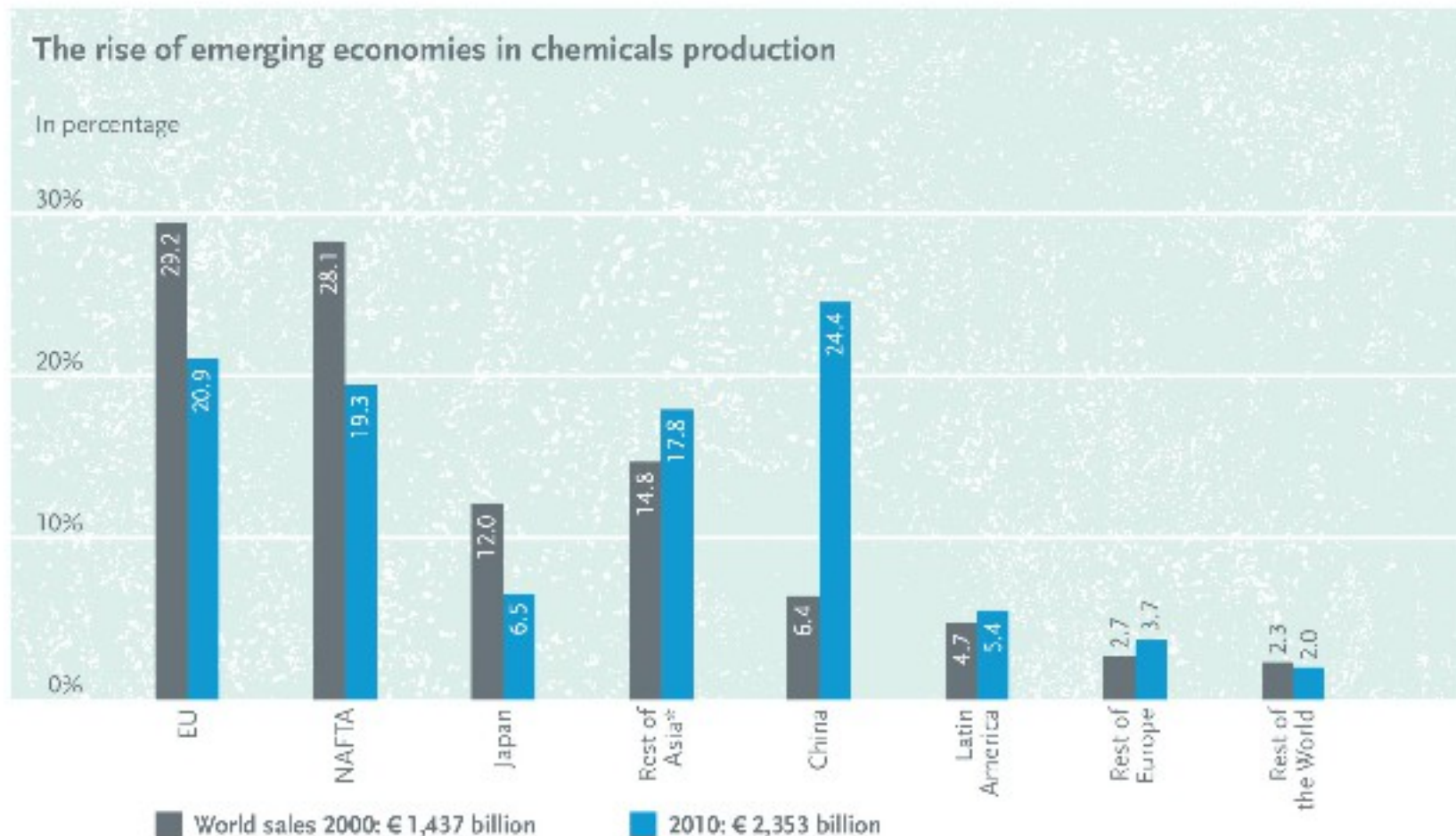
A leading European sector



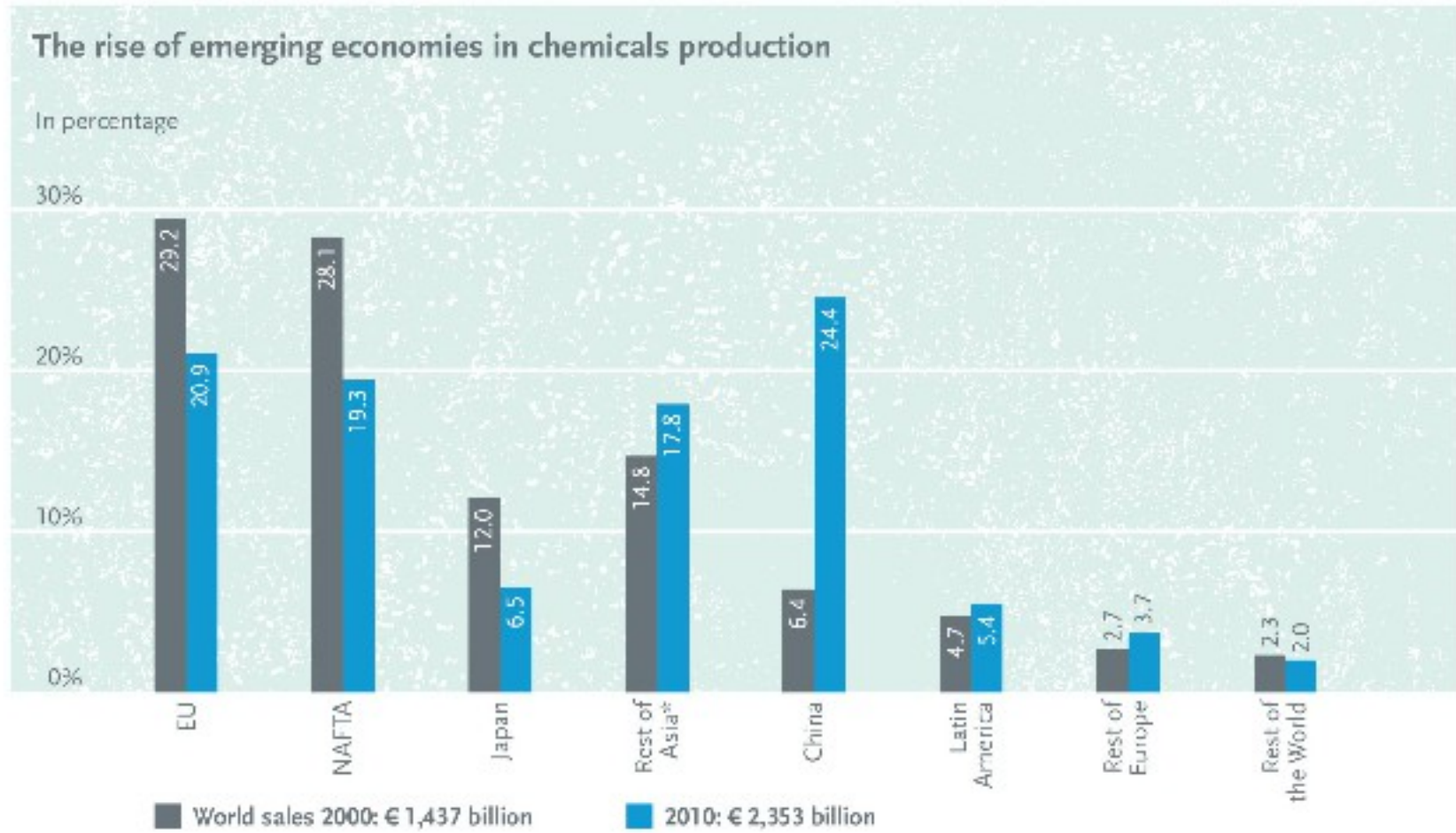
A resilient business



Emerging economies outpace industrial countries in chemicals production



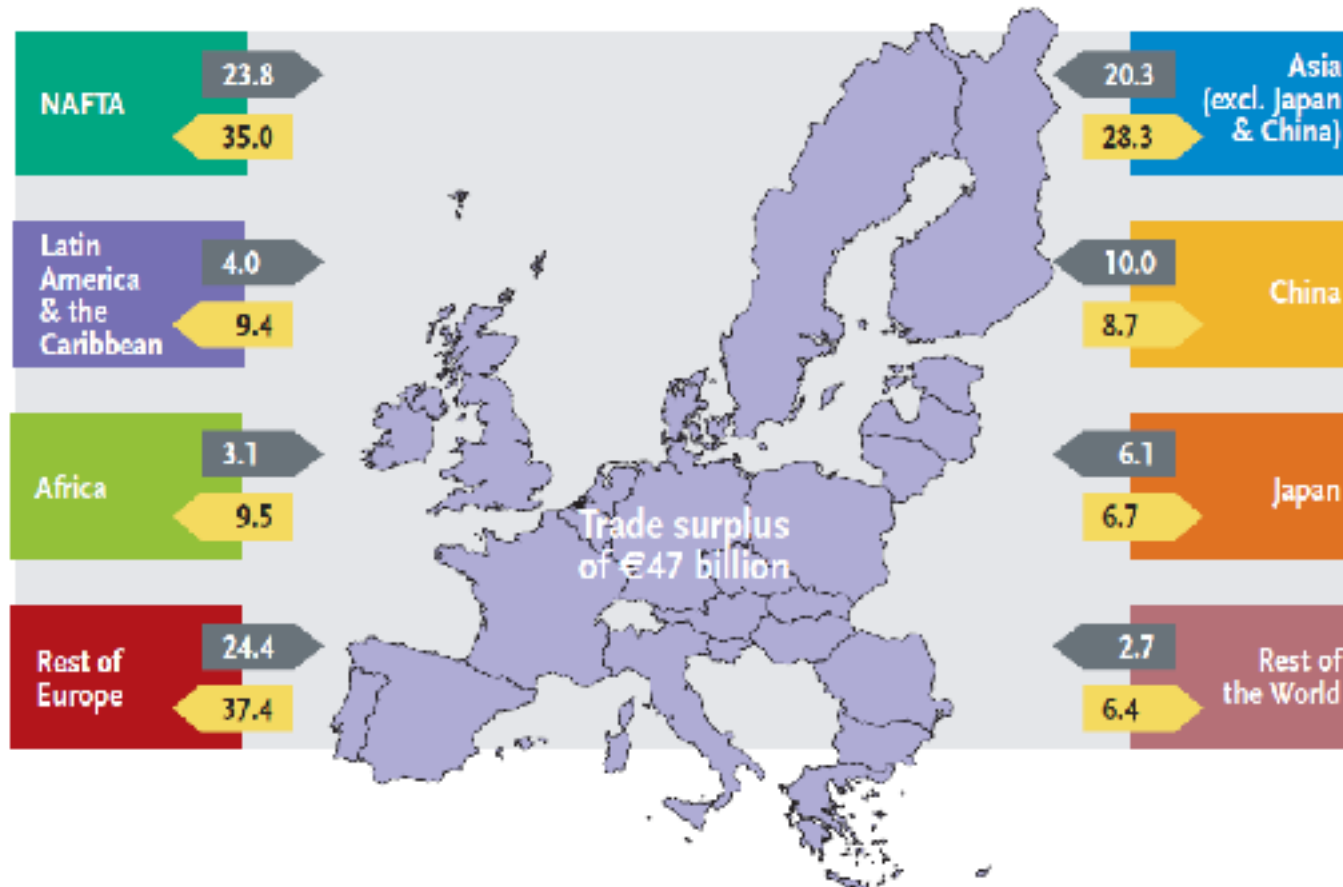
Emerging economies outpace industrial countries in chemicals production



EU has a significant trade surplus with the main competing areas in the world in 2010

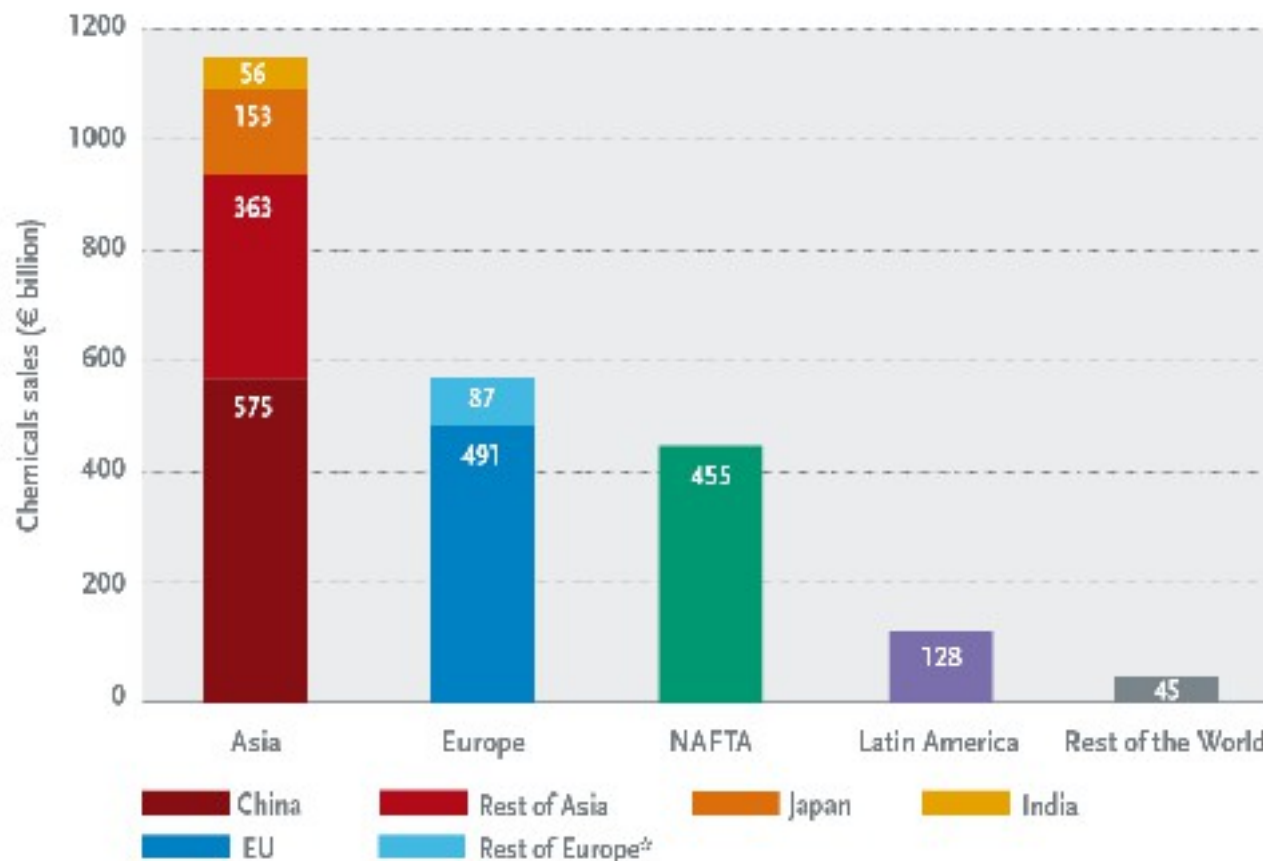


EU chemicals trade flows in € billion (2010)



Source: Cefic Chemdata International

Asian chemical production equals that of Europe plus America



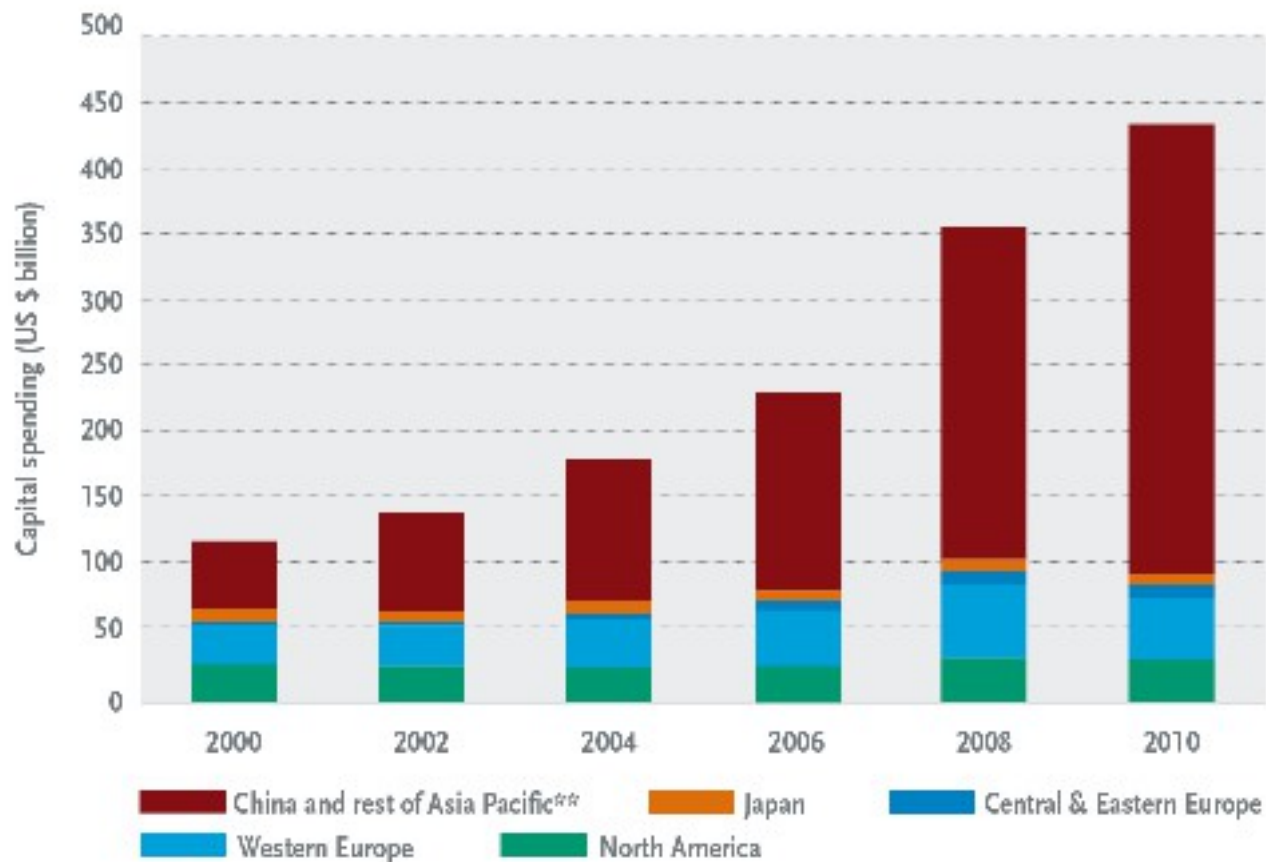
World chemical sales in 2010 are valued at € 2353 billion.

The EU accounts for 21% of the total.

Source: Cefic Chemdata International

* Rest of Europe = Switzerland, Norway and other Central & Eastern Europe (excluding the new EU 12 countries)

China and the rest of Asia-Pacific attract the bulk of chemicals investment

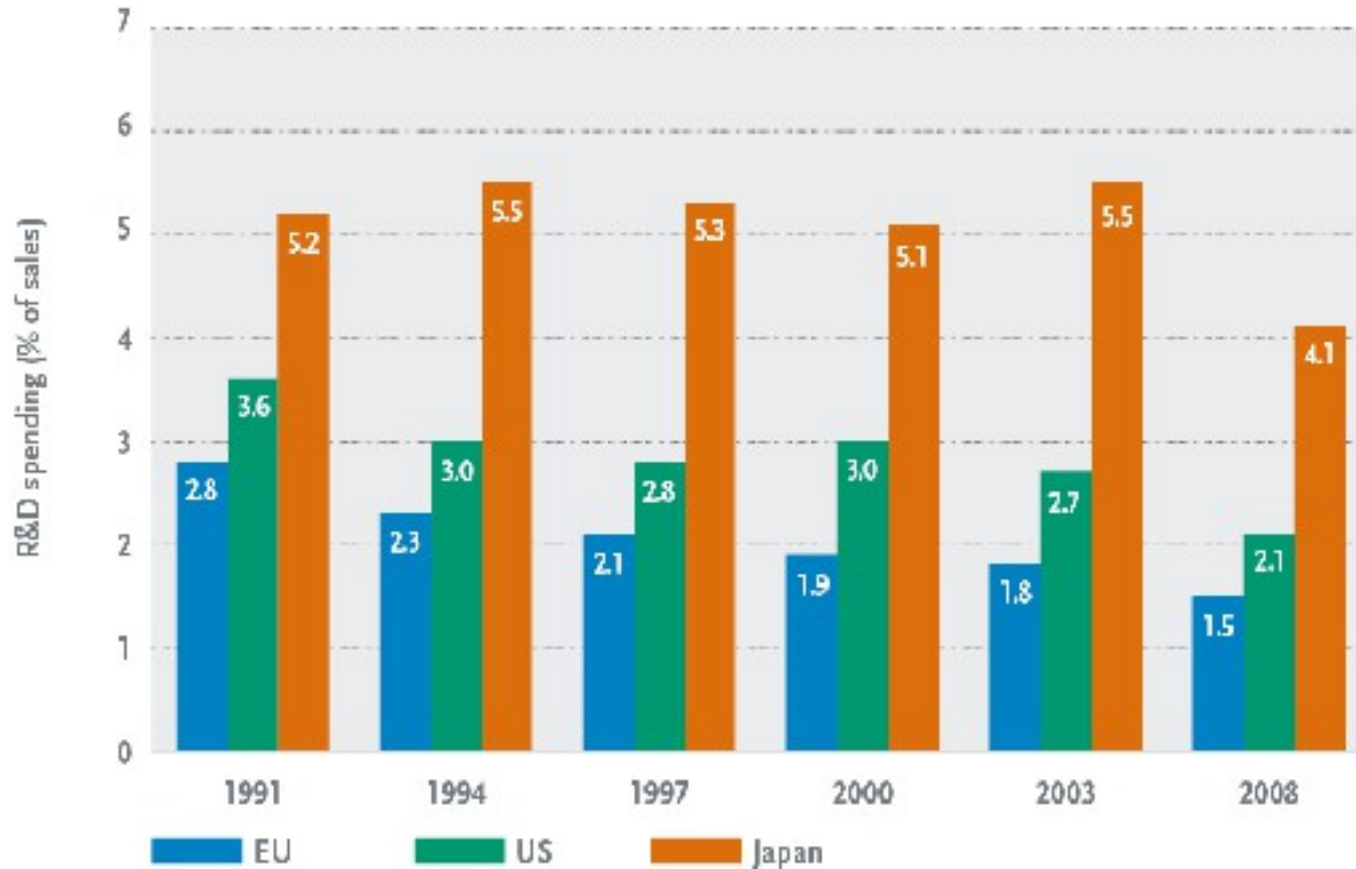


Source: American Chemistry Council (ACC)

* Including pharmaceuticals

** Excluding Japan

European R&D intensity is below US and Japanese levels

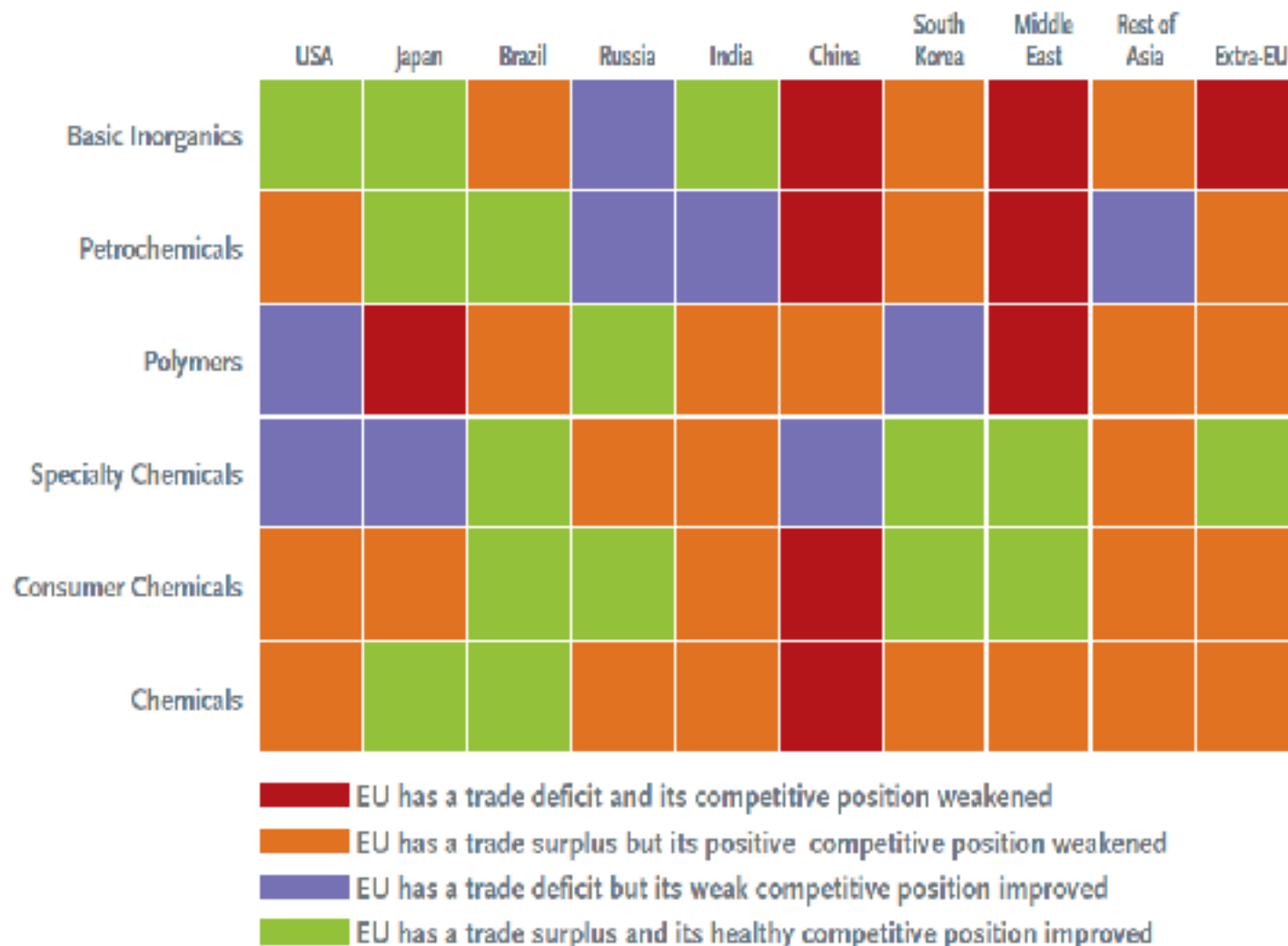


Source: Cefic Chemdata International

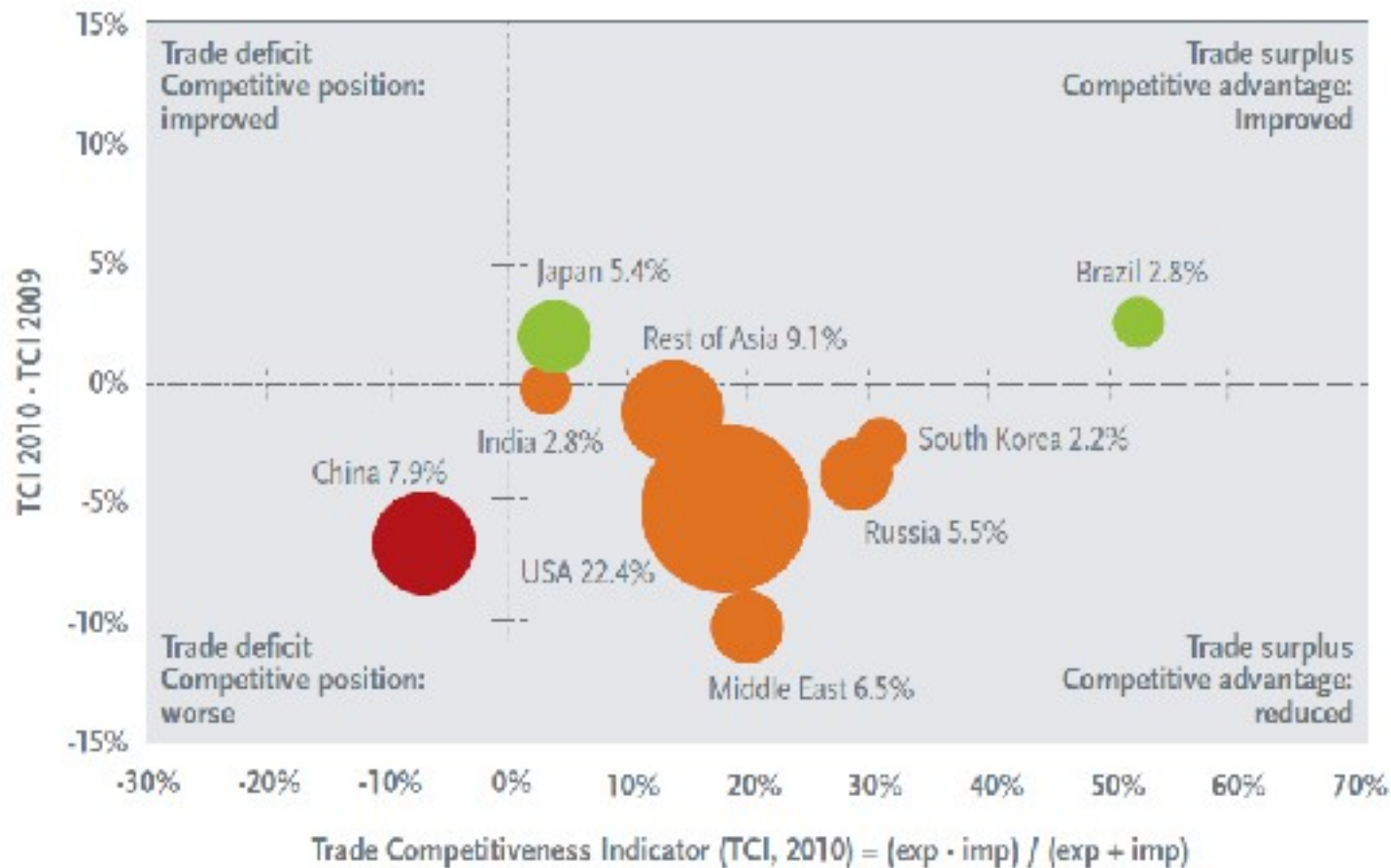
EU trade position is deteriorating with key countries in Asia for almost all sub-sectors



Trade analysis 2010 versus 2009



Global trade competitiveness of the EU chemicals industry is at risk



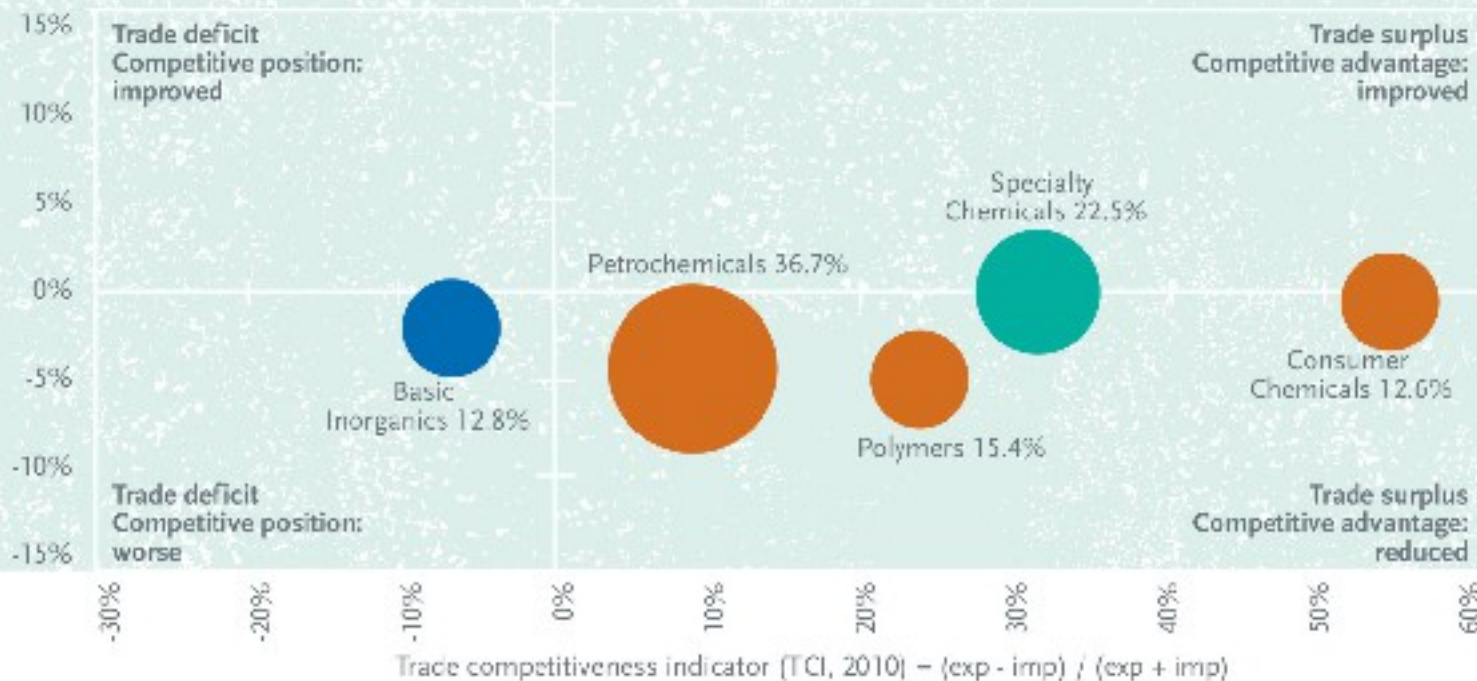
Source: Eurostat and Cefic Chemdata International

The trade competitiveness analysis of certain subsectors shows signs of erosion



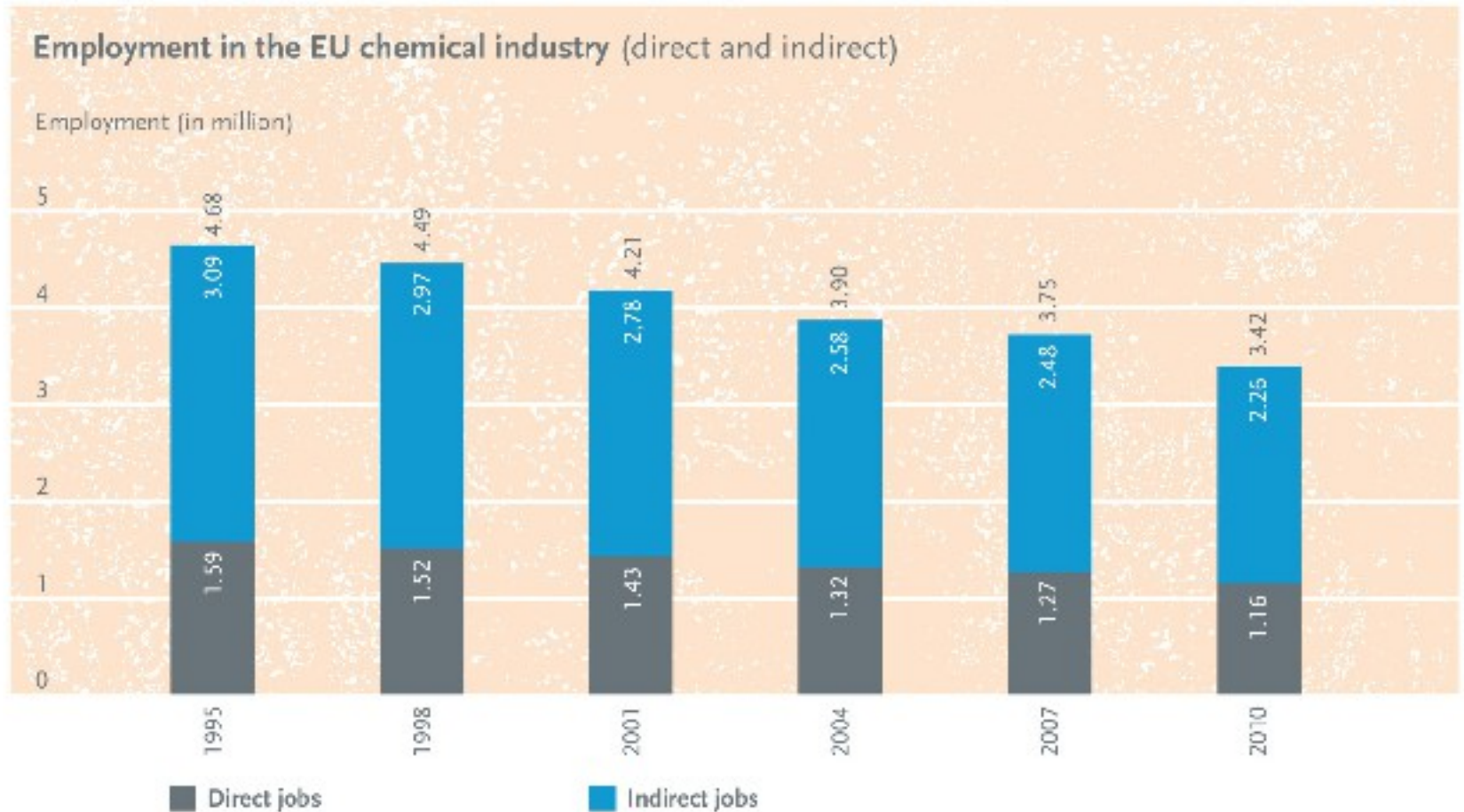
EU chemicals trade competitiveness indicator

TCI 2010 - TCI 2009

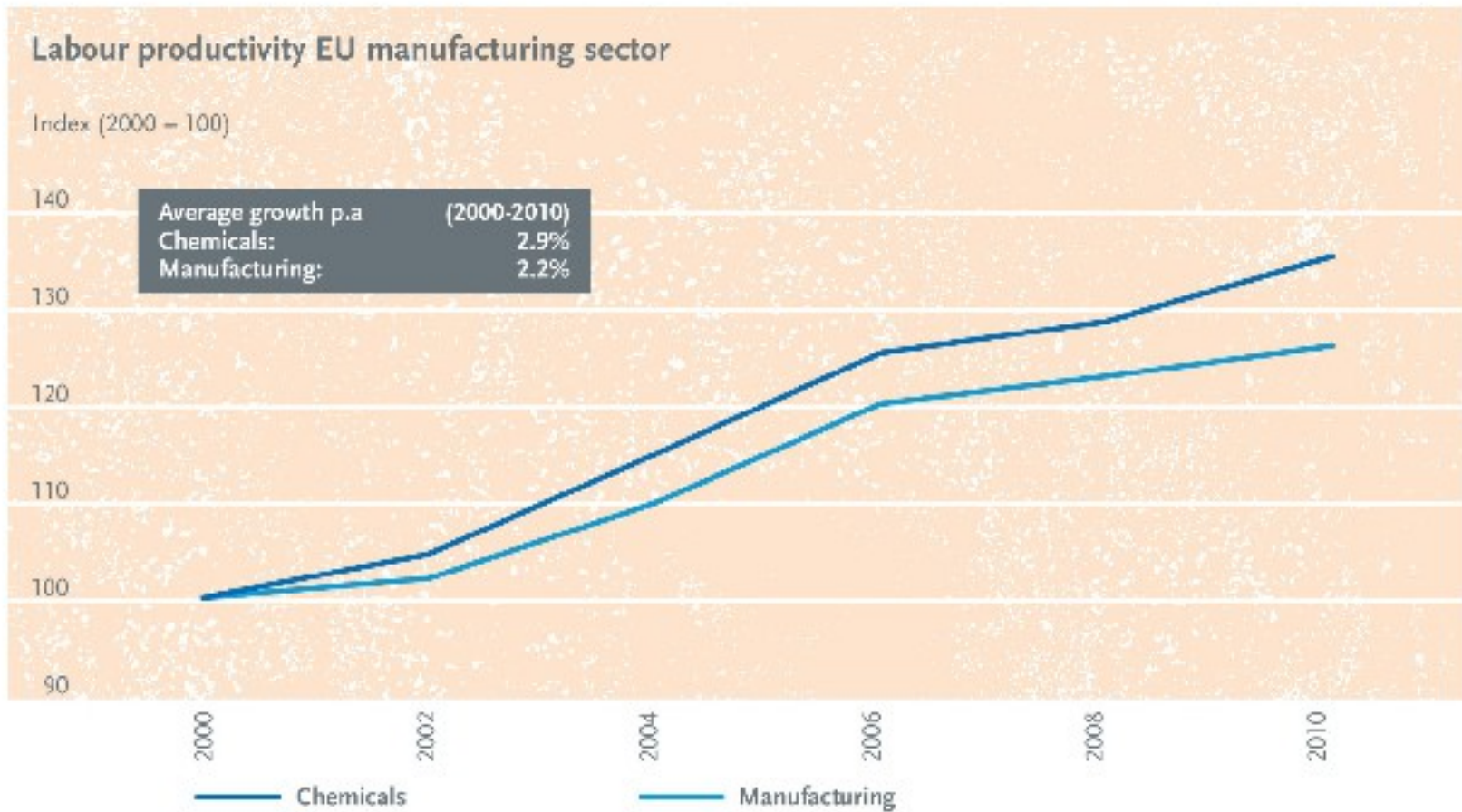


Source: Cefic, Chemicals Innovations

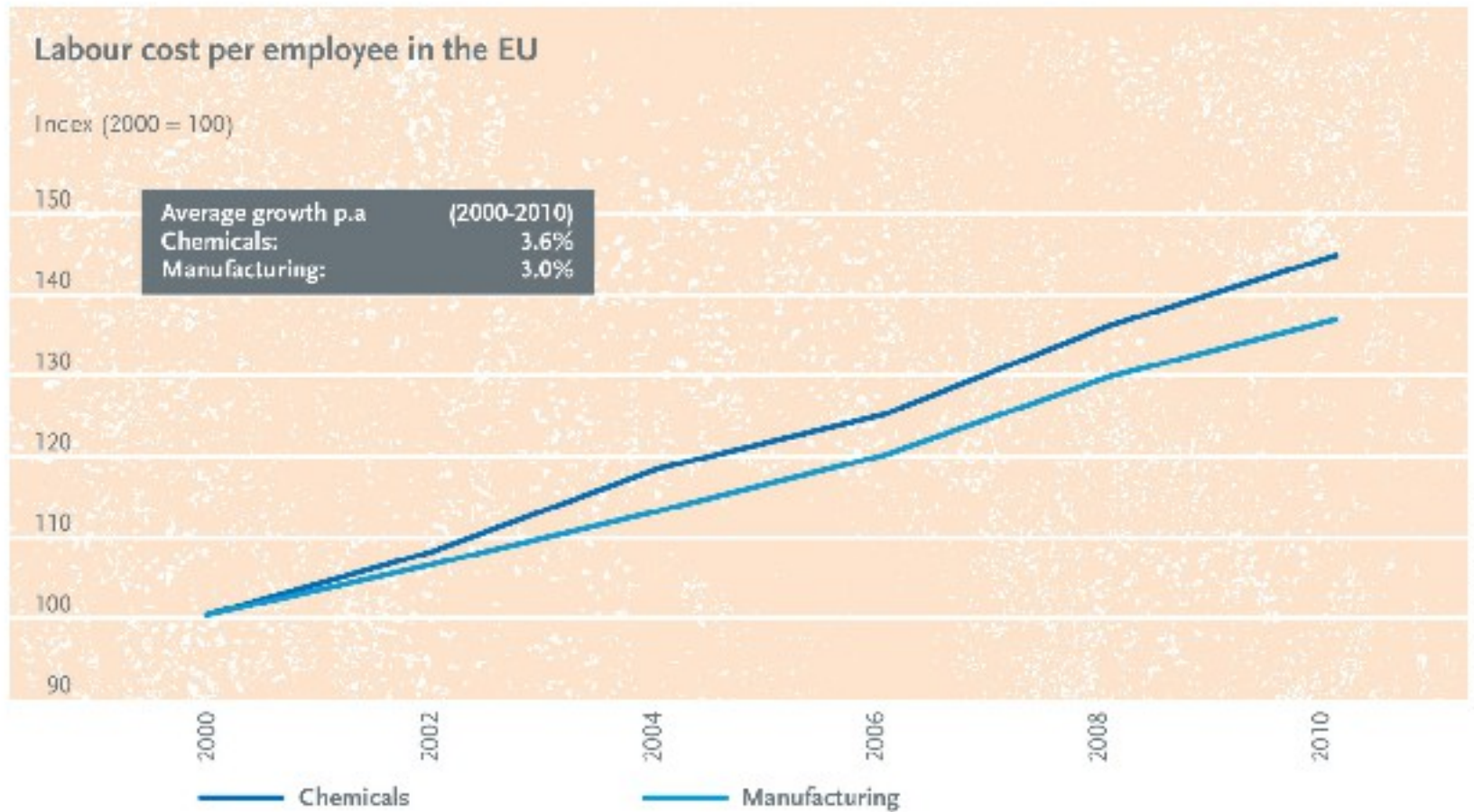
An important employer but numbers shrink



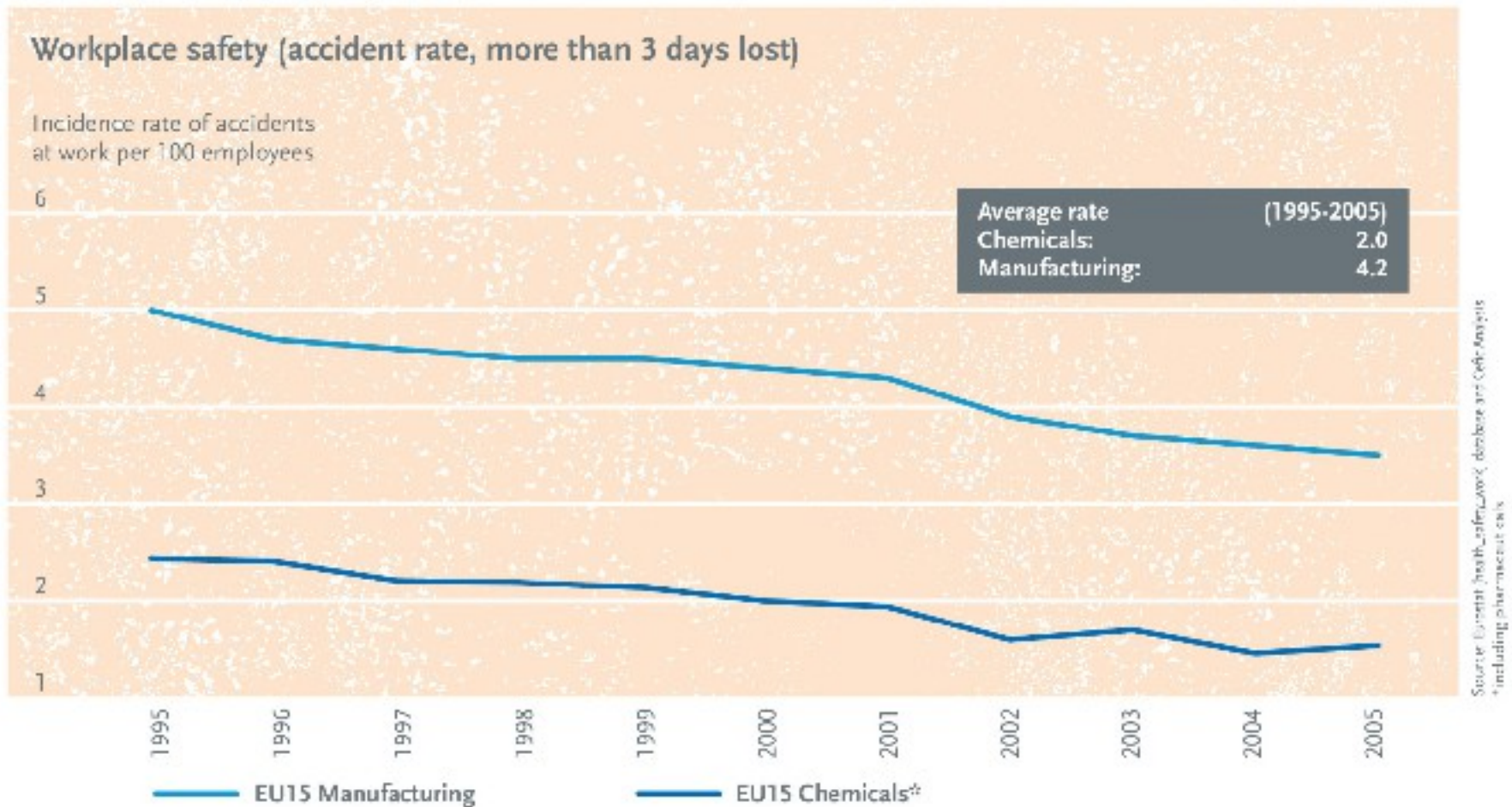
Steady rise in labour productivity



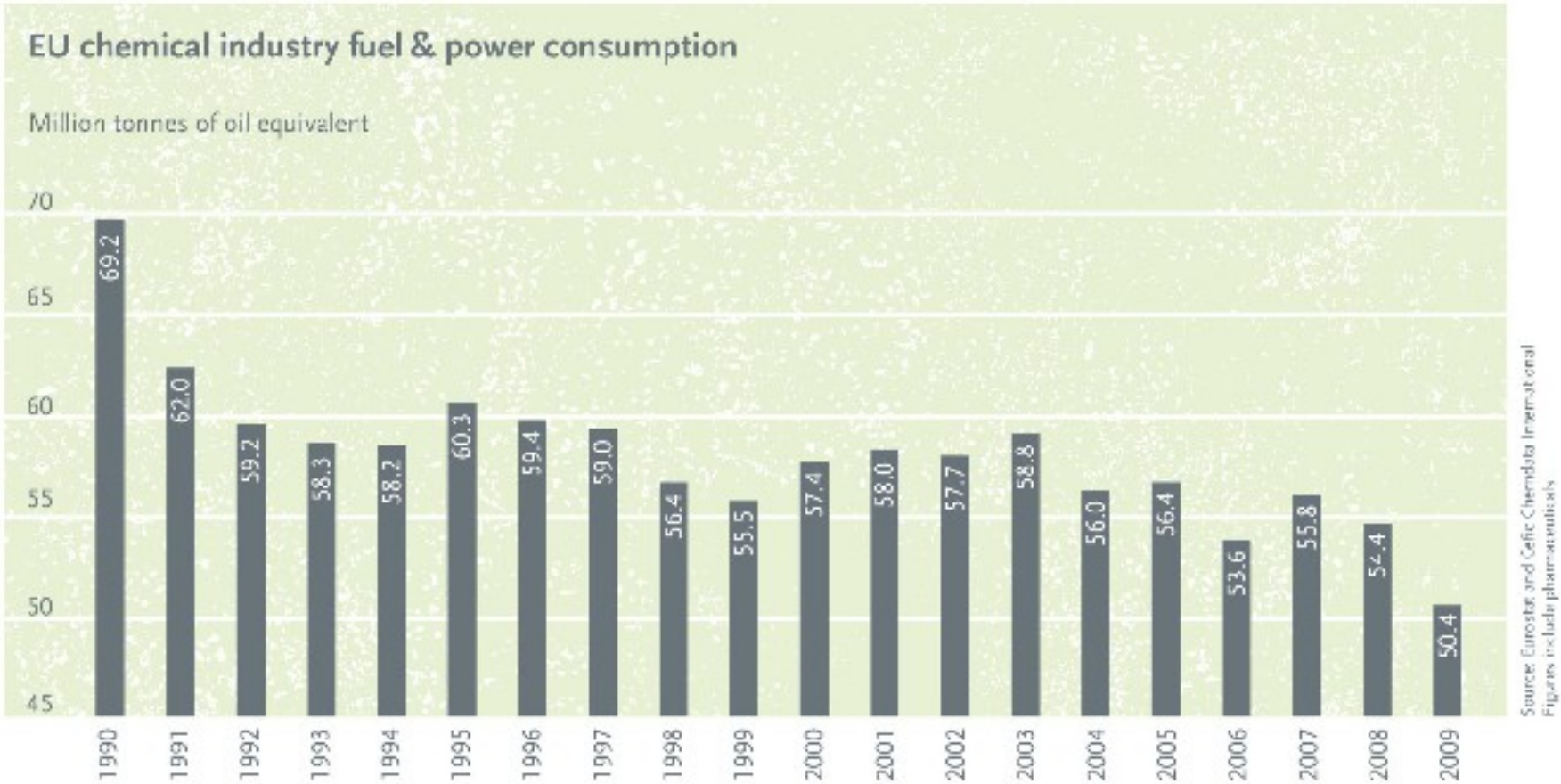
Balancing jobs and profitability



Employment safety is paramount

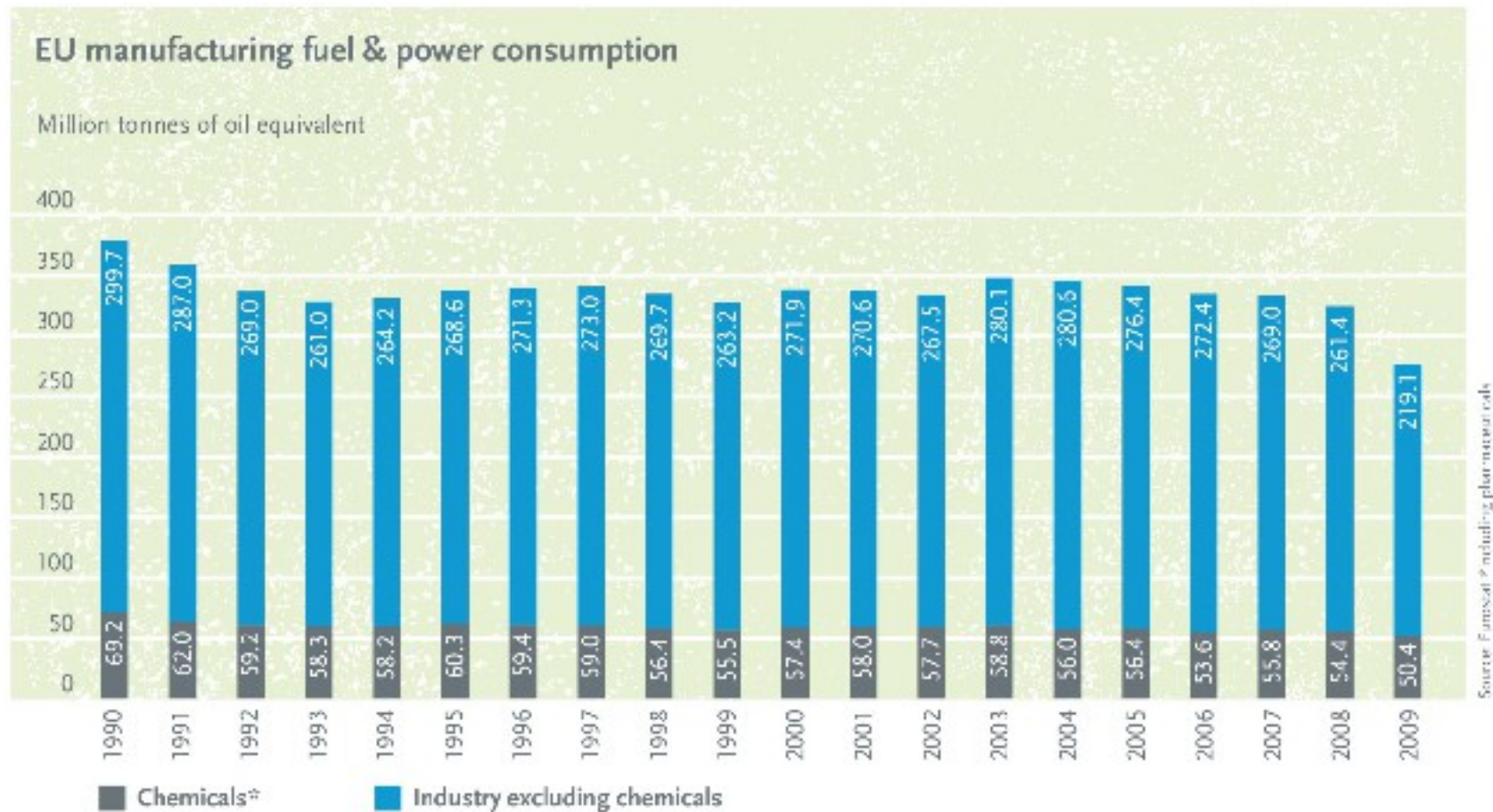


Fuel and power consumption in the EU chemicals industry has fallen by 27.2 per cent since 1990



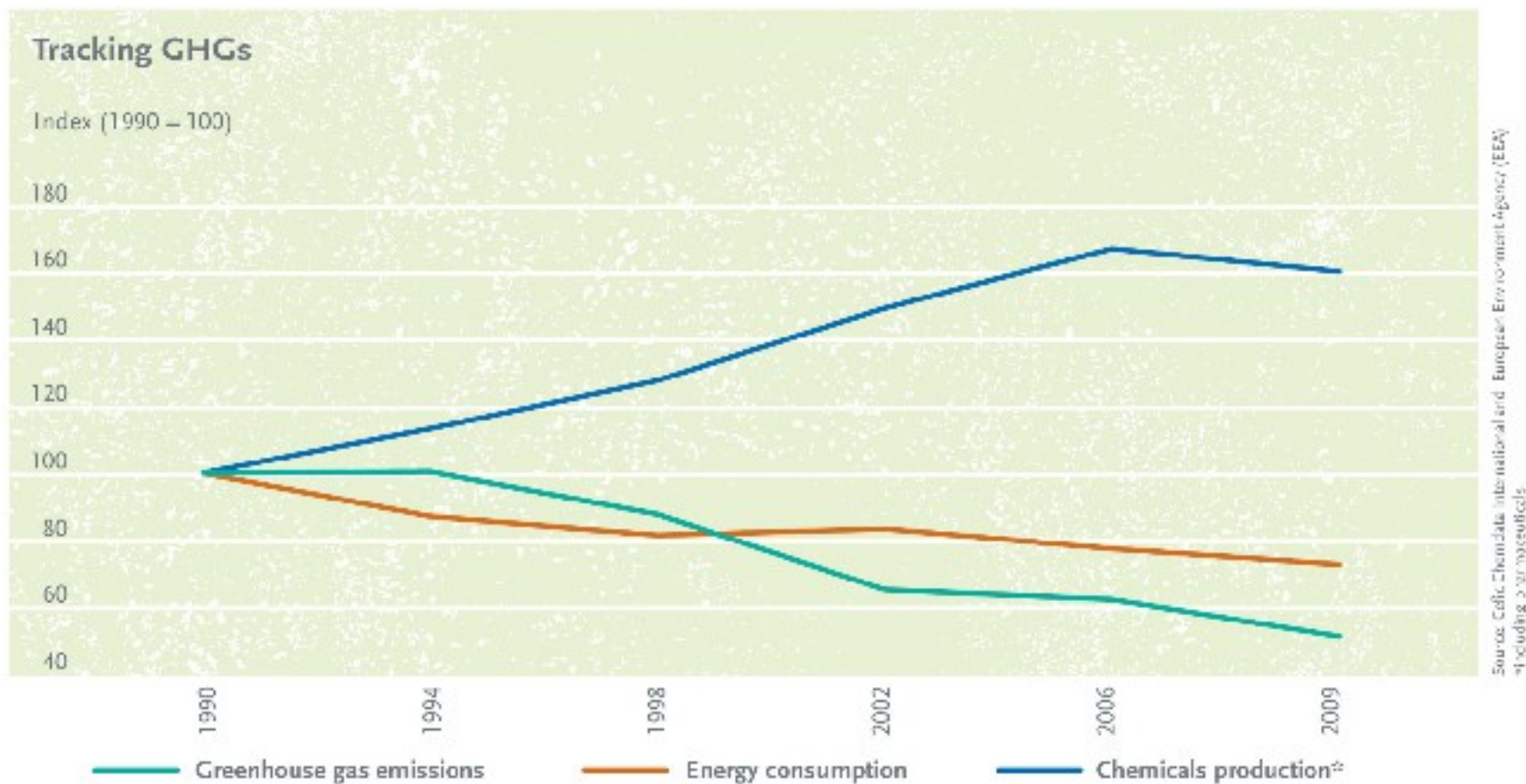
TAKING LESS TO MAKE MORE

Fuel and power consumption in the EU industry has fallen from 369 Mt in 1990 to 270 (Mt) in 2009



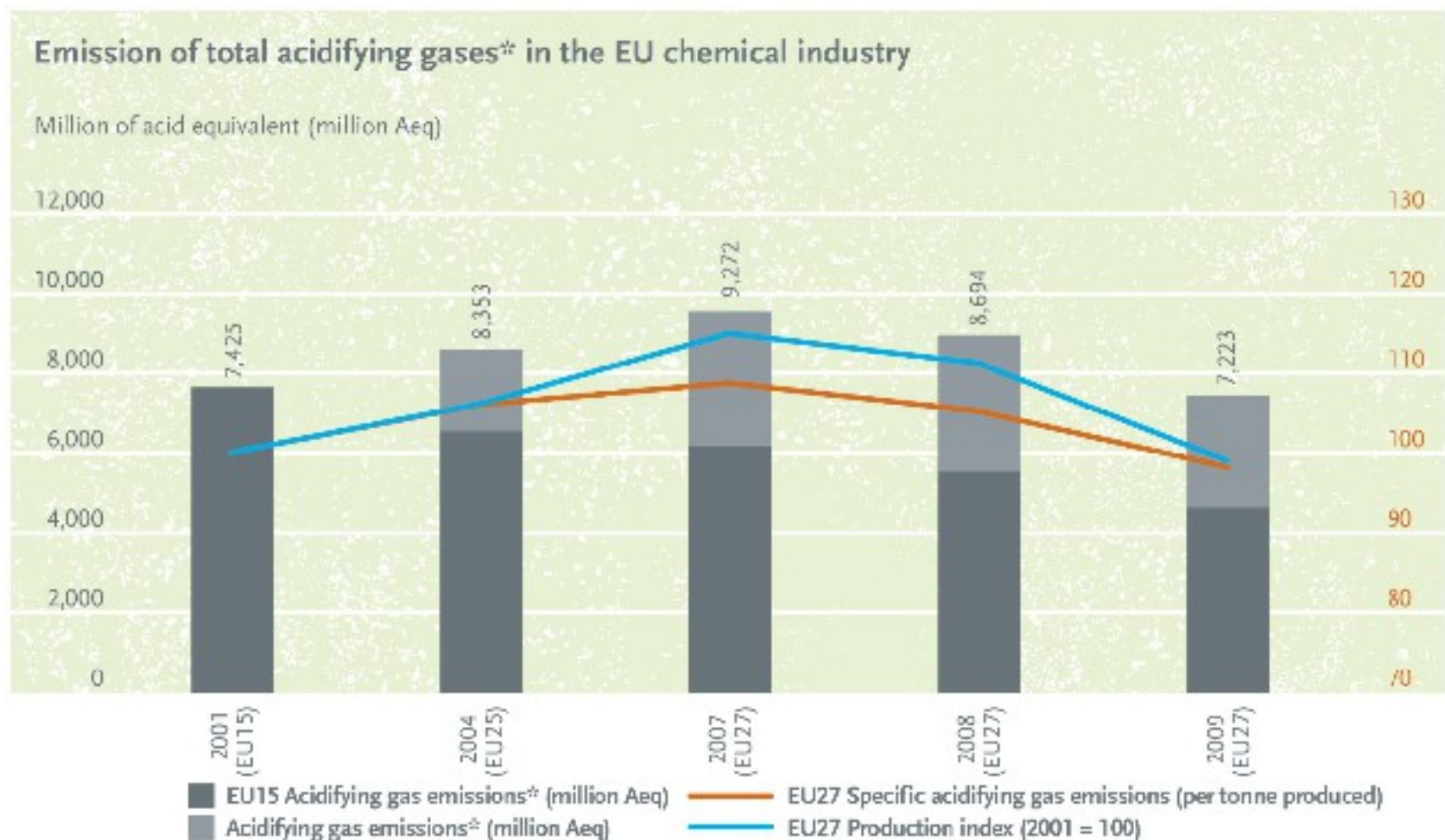
TAKING LESS TO MAKE MORE

EU chemicals production decoupled from green house gases emissions

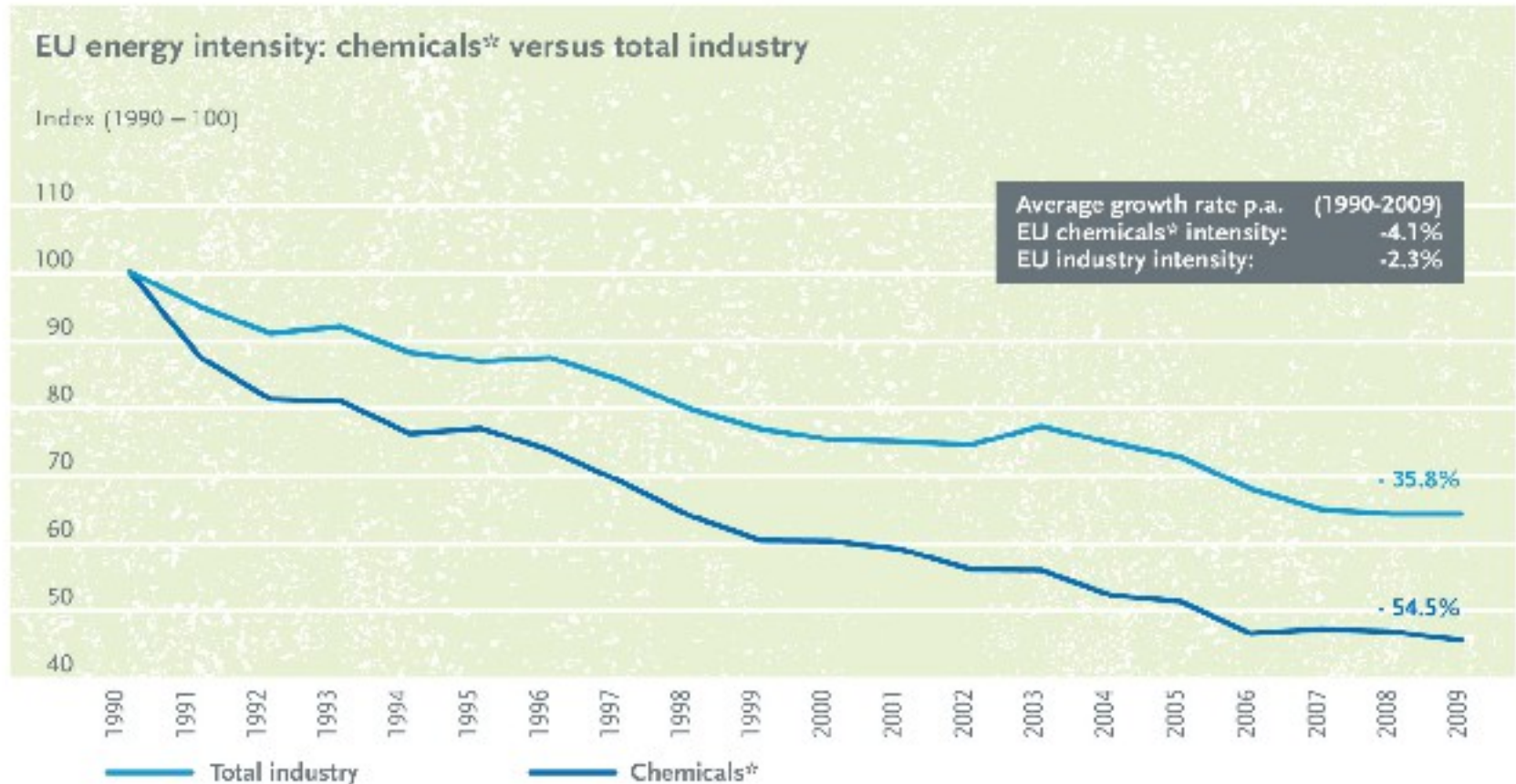


LOWERING GREENHOUSE GAS EMISSIONS

Clear to see: Europe's healthier, cleaner air

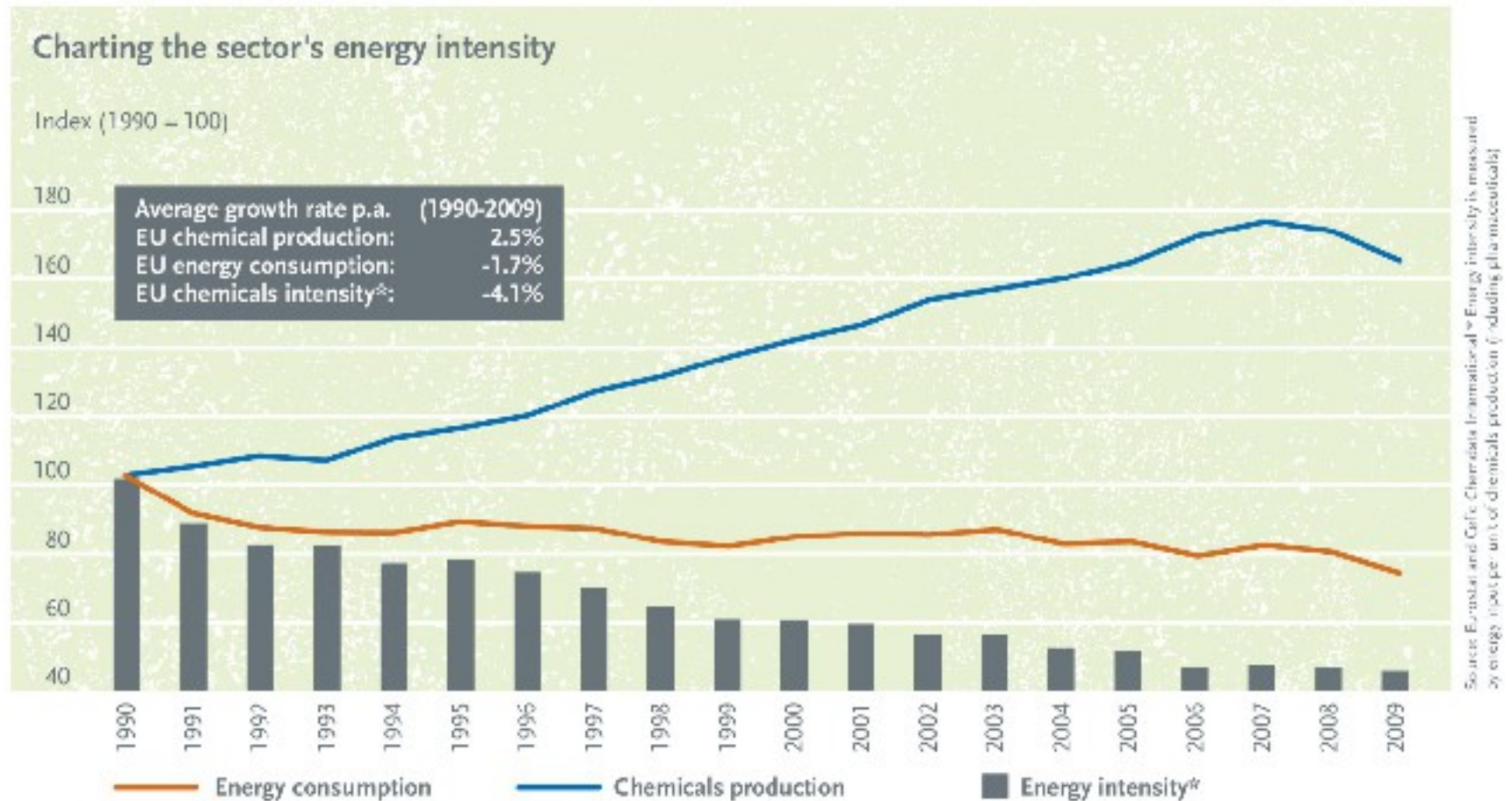


The EU chemicals industry has reduced its energy intensity far strongly than industry average



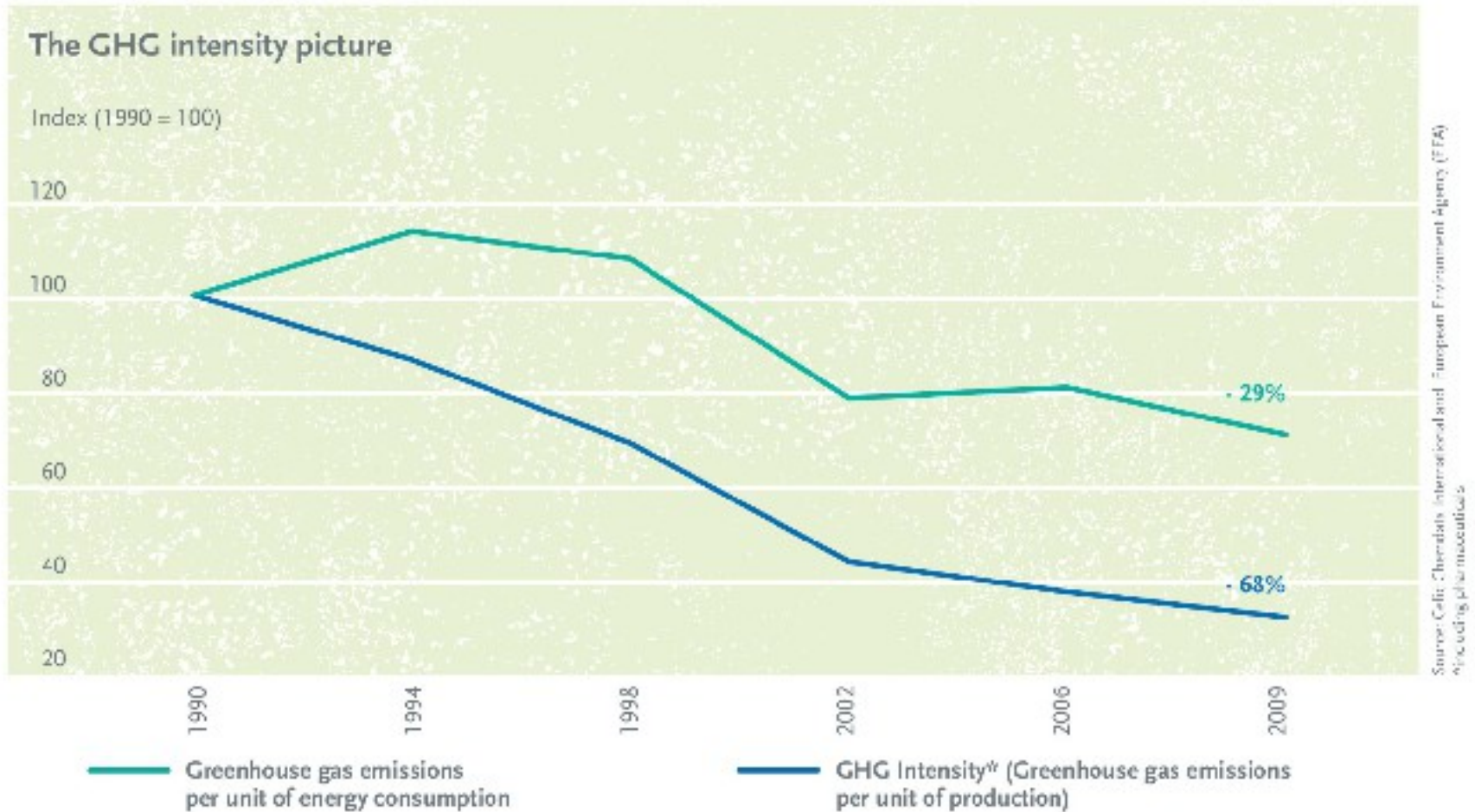
A MORE EFFICIENT WAY FORWARD

The EU chemical industry has reduced energy intensity by 54.5 per cent since 1990



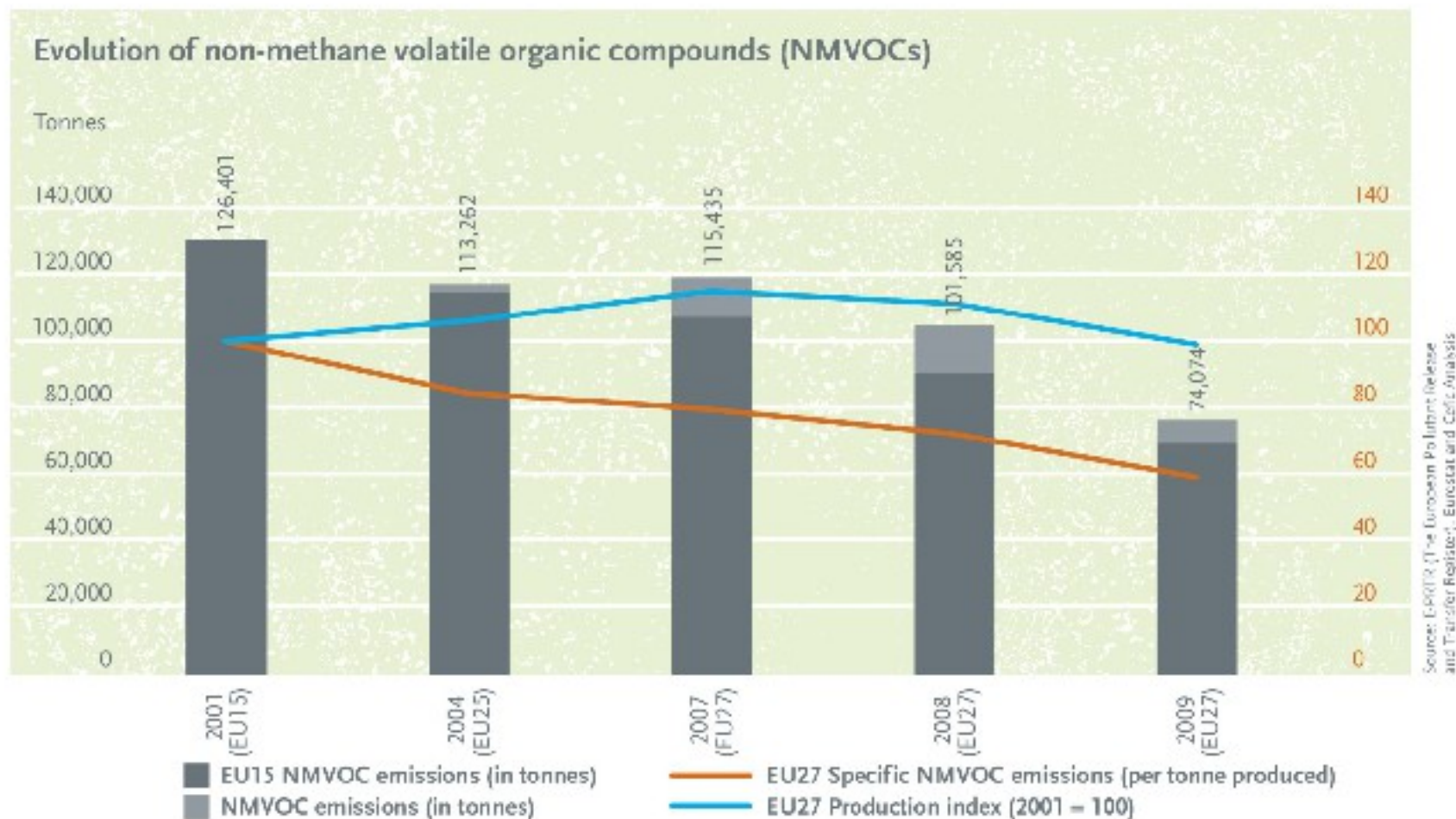
A MORE EFFICIENT WAY FORWARD

Greenhouse gas intensity has fallen by 68 per cent since 1990

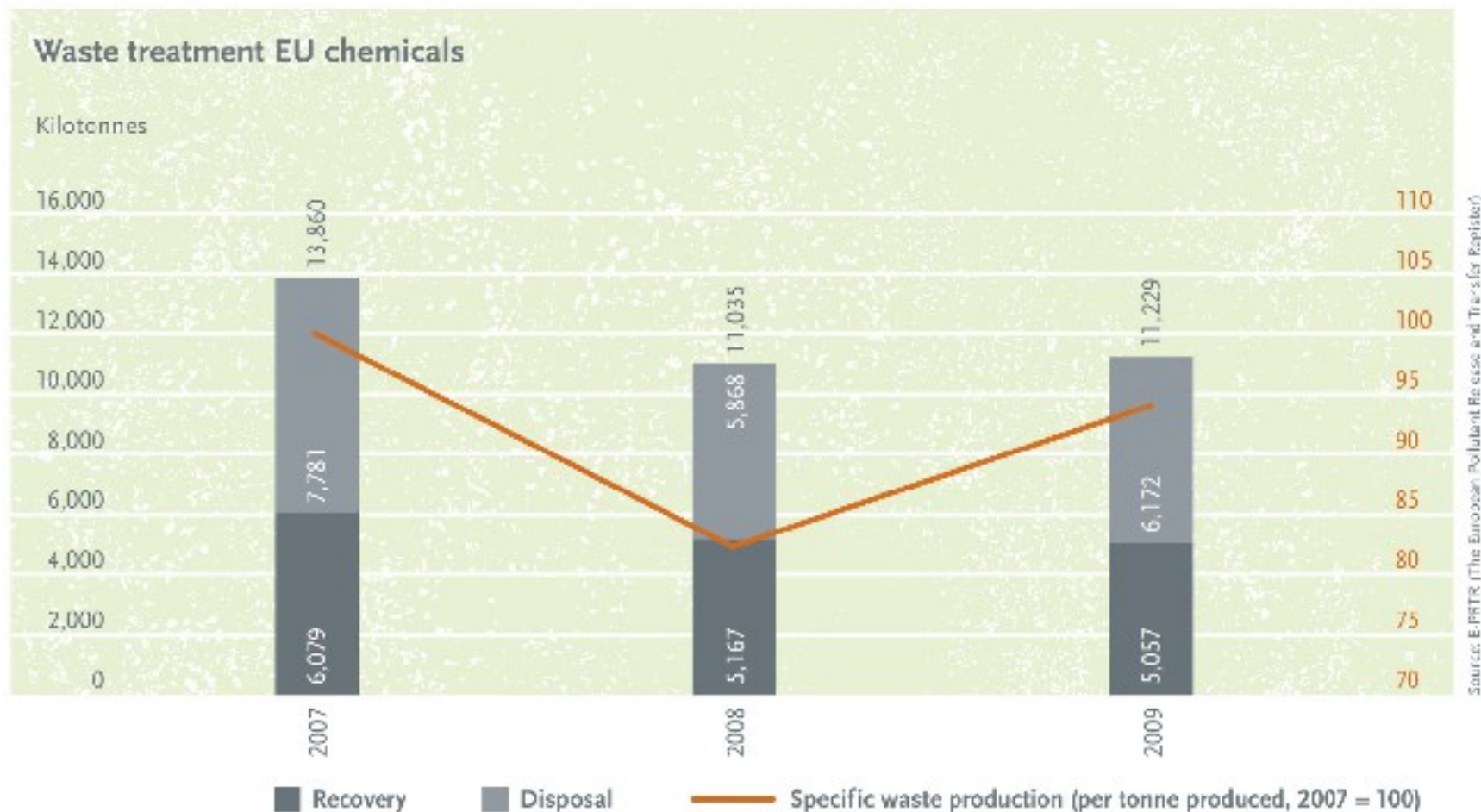


LOWERING GREENHOUSE GAS EMISSIONS

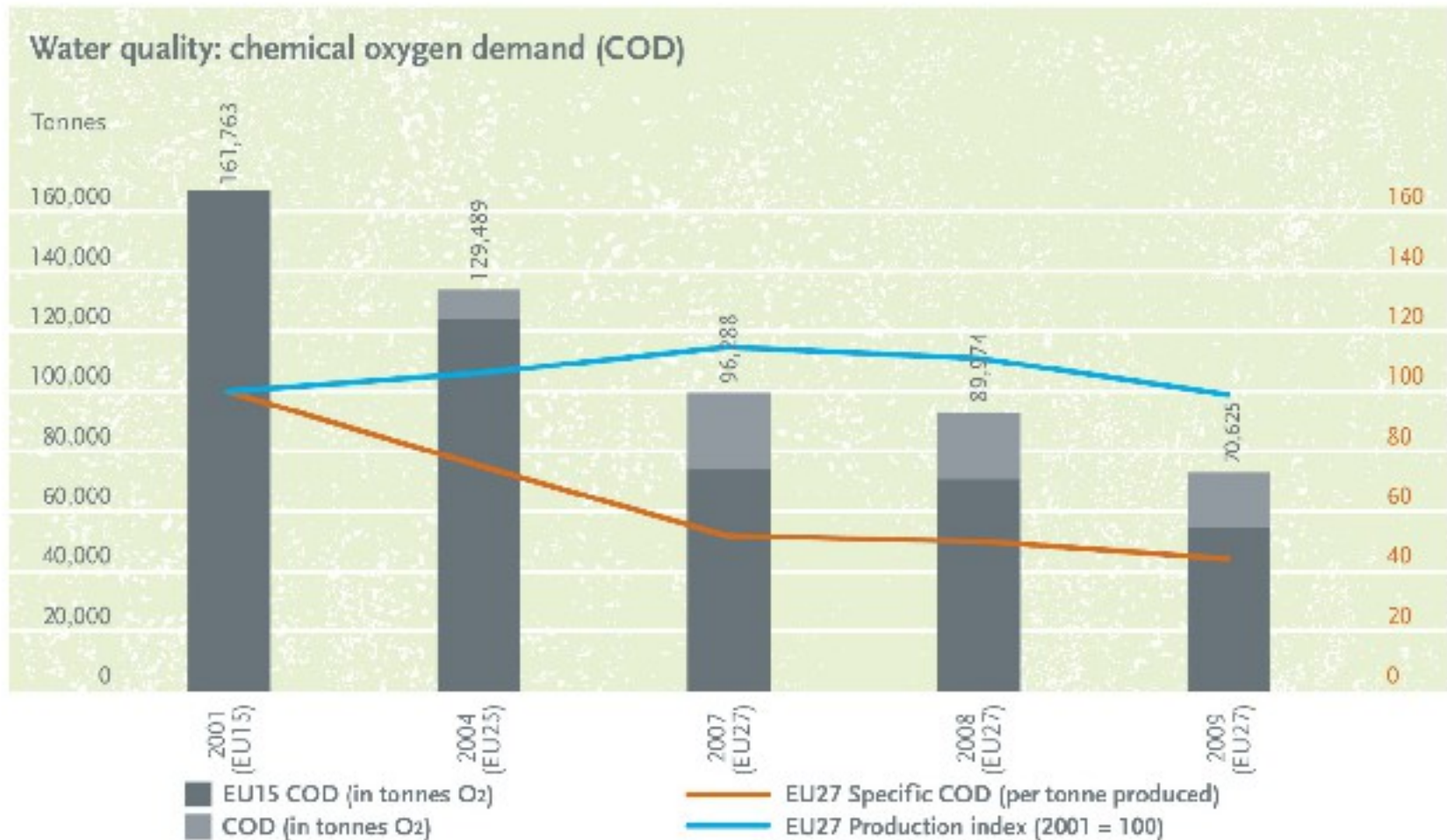
Stewardship efforts bear fruit



Exploring ways to reduce waste

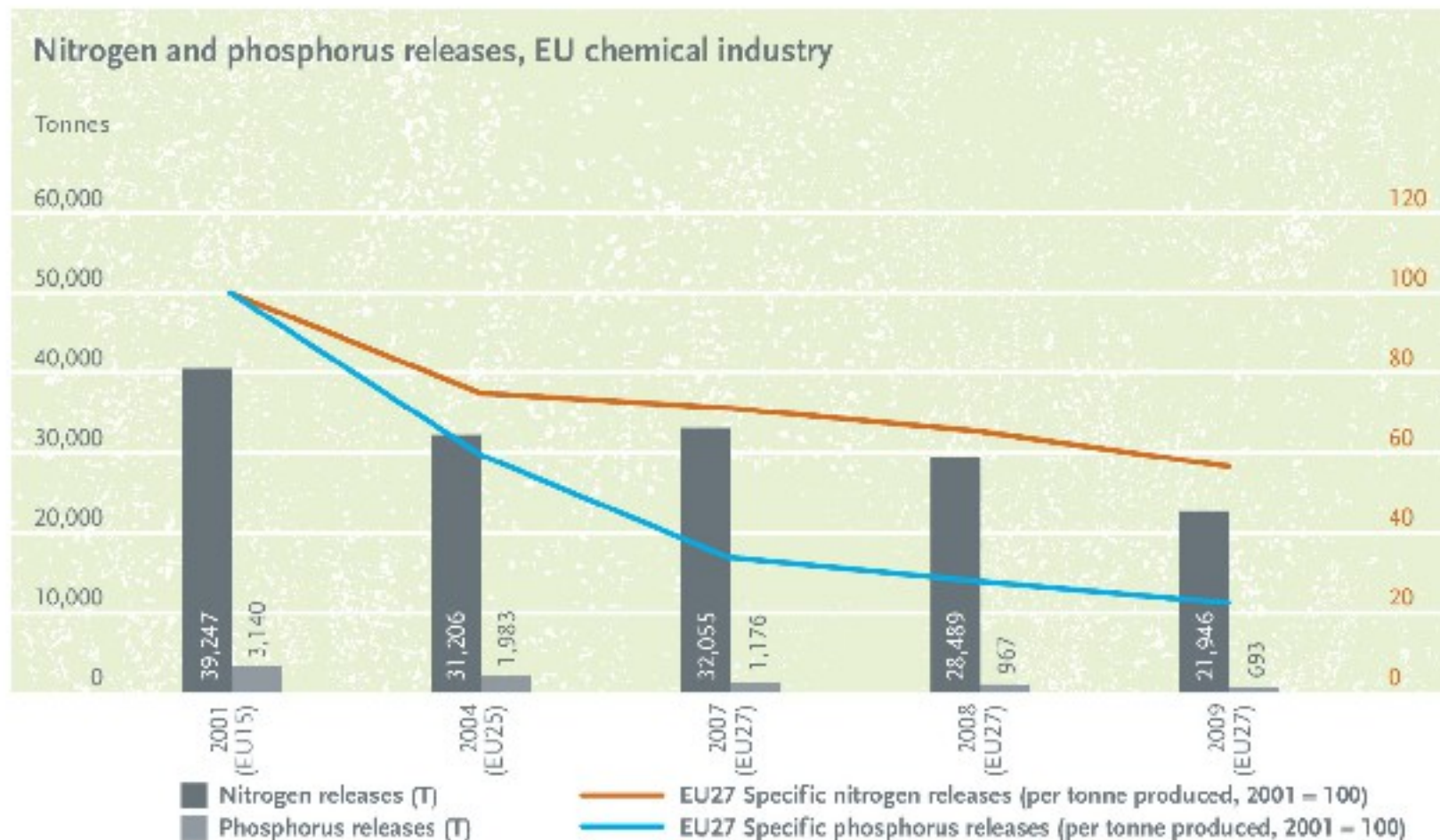


Managing the water issue



Source: E-PRTR (The European Pollutant Release and Transfer Register), Eurostat and Cefic Analysis

An essential balance



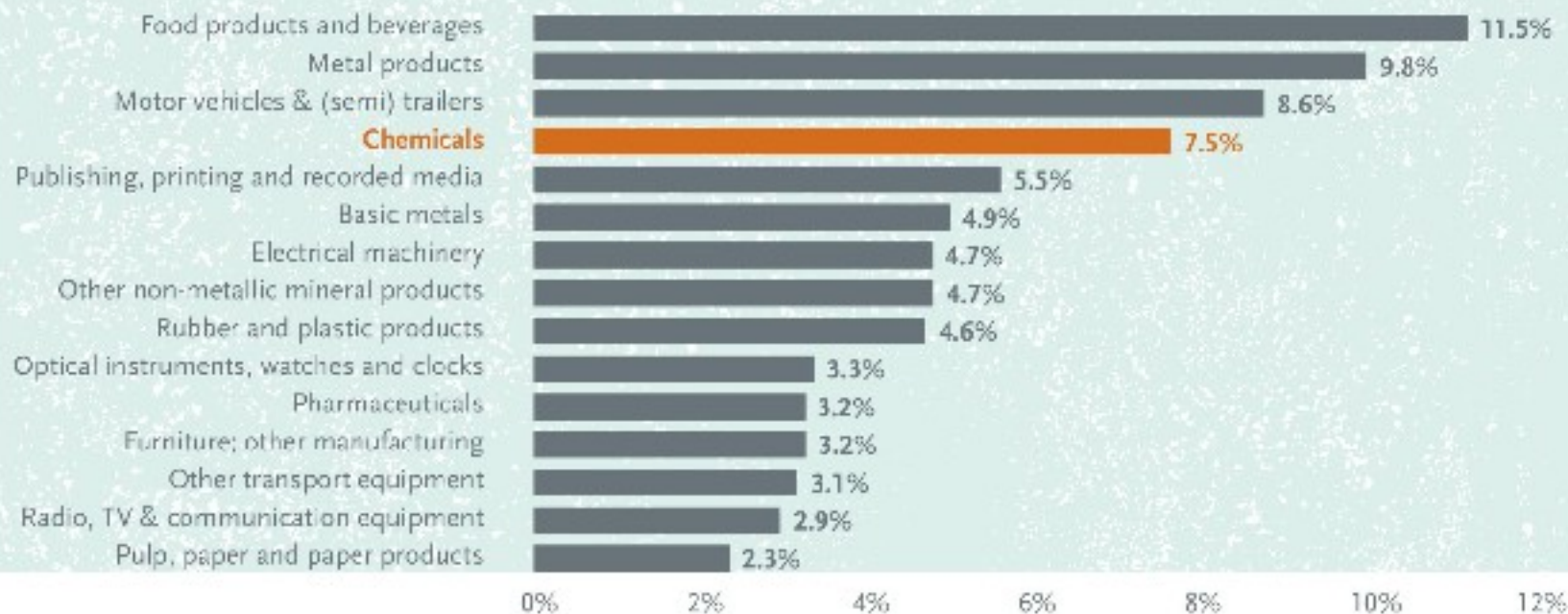
Source: E-PRTR (The European Pollutant Release and Transfer Register), Eurostat and Cefic Analysis

Chemistry: a business based on adding value



Added value in the EU manufacturing sector (% , 2007)

Key sectors: Top 15



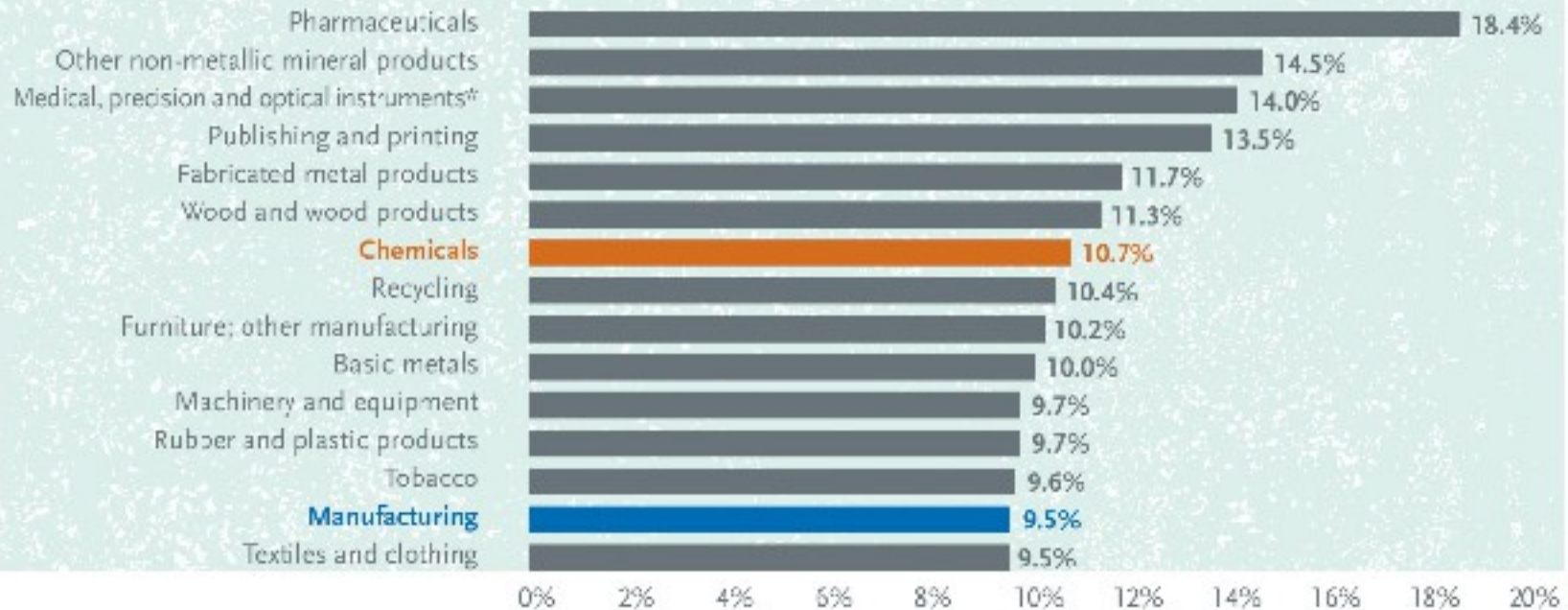
Source: Eurostat (SBS, sht ally) and Celtic-Analyse

Essential to maintain profitability



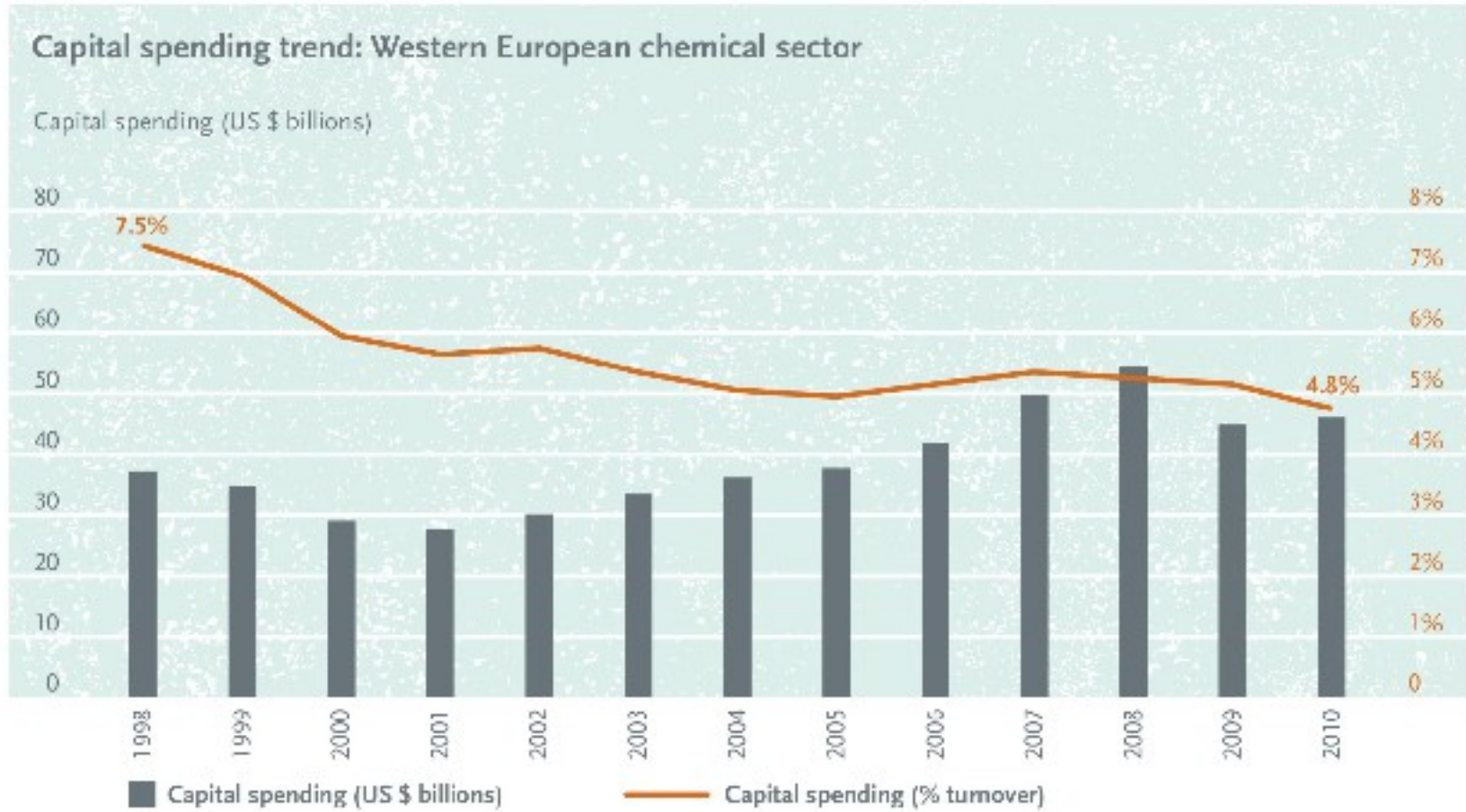
Profit indicator: gross operating surplus (% of sales, 2007)

Top 15 EU manufacturing sectors



Source: Eurostat and Cerif Analysis (estimated data)

Europe's future relies on investment





Nearly €30 billion invested in 2007

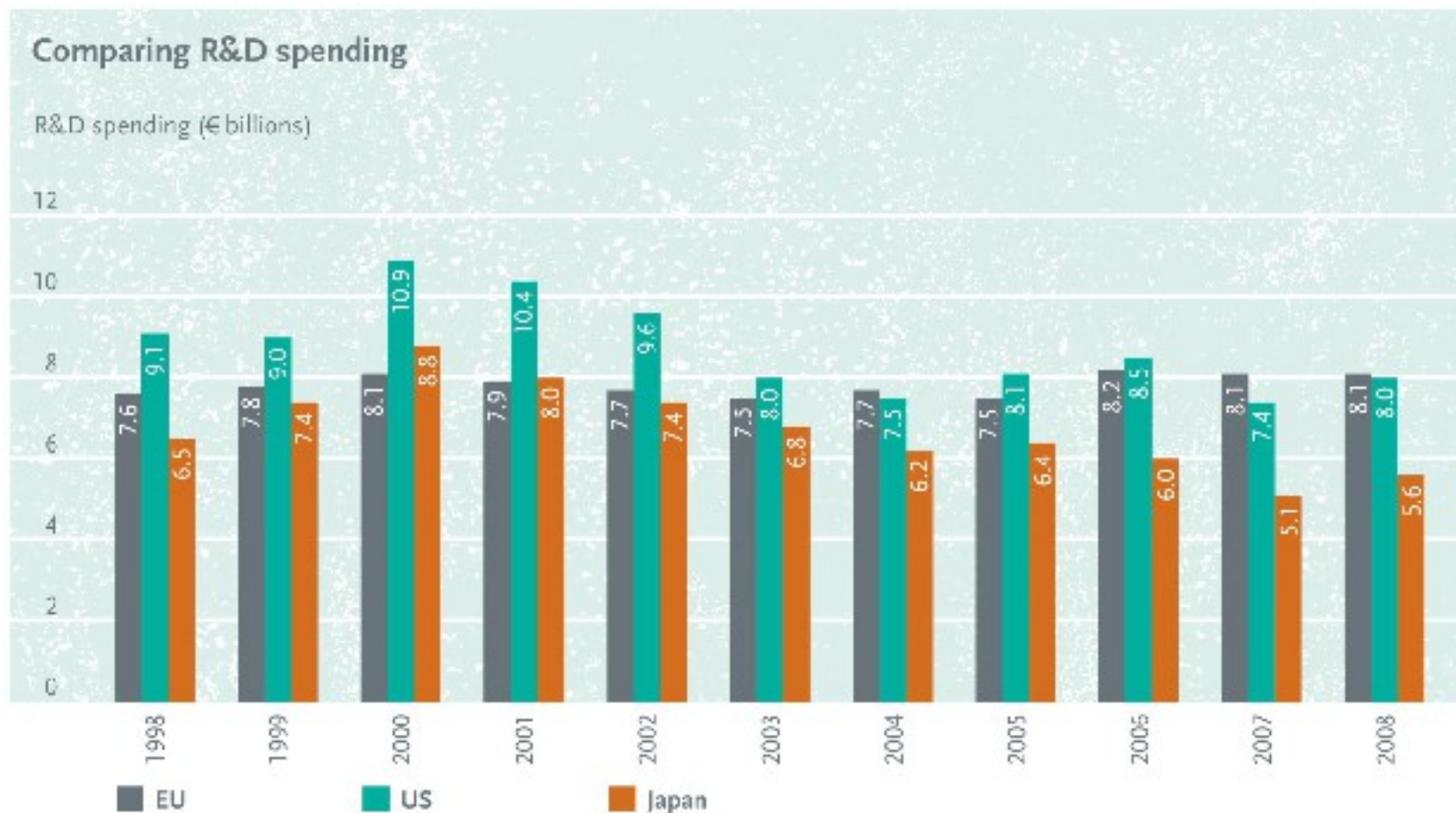
Top 10: investment* in EU manufacturing sector (2007)

Key sectors: Top 10



Source: Eurostat and Cefic Analysis. *Gross investment in tangible goods including pharmaceuticals

R&D: Key to success



R&D intensity in the European Union below US and Japanese levels

