

CWC and industry: 10 years on and beyond

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International Council of Chemical Associations (ICCA)



1. North American Council of Chemical Associations

USA, Mexico, Canada

2. South America

Brazil, Argentina, Uruguay, Chile

- 3. Japan
- 4. Australasia

Australia, New Zealand

- 5. South Africa
- 6. Europe (CEFIC)

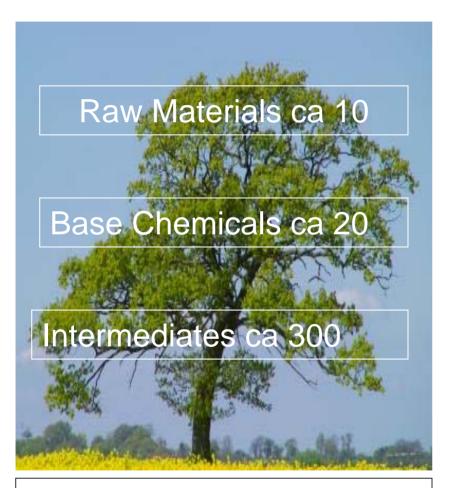
(26 European Countries) homepage: www.icca-chem.org

European Chemical Industry Council (Cefic)



- about 28,000 small, medium and big chemical companies in Europe
- about 1.2 million employees
- about 30% of worldwide chemical production
- headquarters of Cefic is Brussels
- homepage: www.cefic.be

The Chemical industry: Adding value to natural raw materials



Oil, gas, biomass, rock, salt, air, water, sulphur, sand

Ethylene, propylene, chlorine, methanol, ammonia, benzene, sulphuric acid, caustic

Acetic acid, ethylene oxide, phenol, terephthalic acid, acrylonitrile

Consumer products ca 30,000

Plastics, detergents, solvents, fibres, pharmaceuticals, insecticides, dyes

Coverage of chemicals sector



Industrial gases

Dyes & pigments

Basic inorganic chemicals

Bulk organic chemicals

Semi-bulk or intermediate

chemicals

Polymers (plastics & rubber)

Resins

Agrochemicals

Paints, coatings, inks

Water treatment

Fire retardants

Oilfield chemicals

Packaging films and tapes

Pharmaceuticals

Detergents and surfactants

Explosives

Adhesives & sealants

Aromas & flavourings

Photographic chemicals

Leather chemicals

Lubricating oil additives

Catalysts

Silicones

Biocides

Synthetic fibres

Performance chemicals

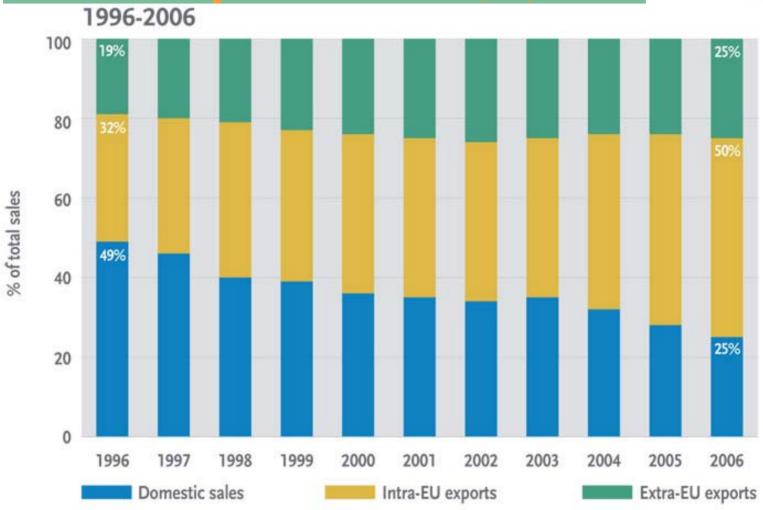
Responsible Care®



Responsible Care promotes co-operation with governments and organisations in the development and implementation of effective regulations and standards, and helps companies meet or exceed these requirements.

EU chemical industry sales structure by destination (%)





Trade Competitiveness Analysis: Change in trade surplus and competitive advantage

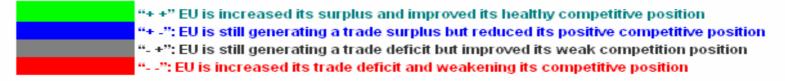
Trade = Exports + imports Balance = Exports - Imports

TCI: Trade Competitiveness Indicator

= Balance/ Trade

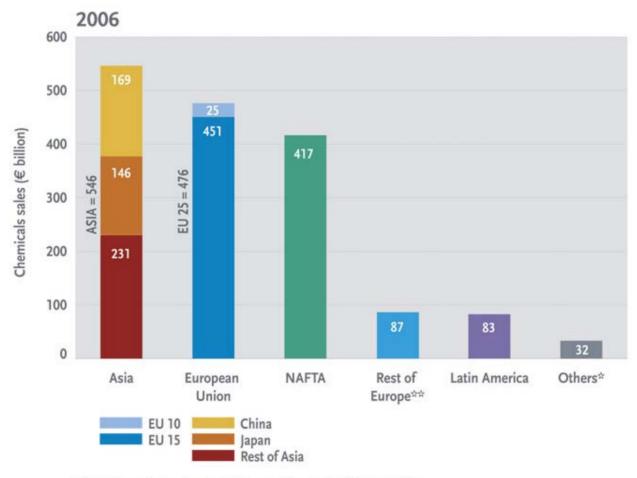
Period 1: average (1997-2002) Period 2: average (2002-2007) Delta Analysis = TCI 2-TCI 1

Delta	Overall Chemicals	Chemicals	Basic Inorganics	Organics	Pharmaceuticals	Specialities	Consumer Chemicals	Polymers	
Total									
USA									
Japan									
Brazil									
Russia									
India									
China									
South Korea									
Middle East									
Asia									



World chemicals sales





World chemicals sales in 2006 are estimated at € 1641 billion The EU accounts for 29% of the total

Source: Cefic Chemdata International
Others* = Oceania and Africa
Rest of Europe** = Switzerland, Norway and other Central & Eastern Europe
(excluding the new EU 10 countries)

Market Trends - Globalisation

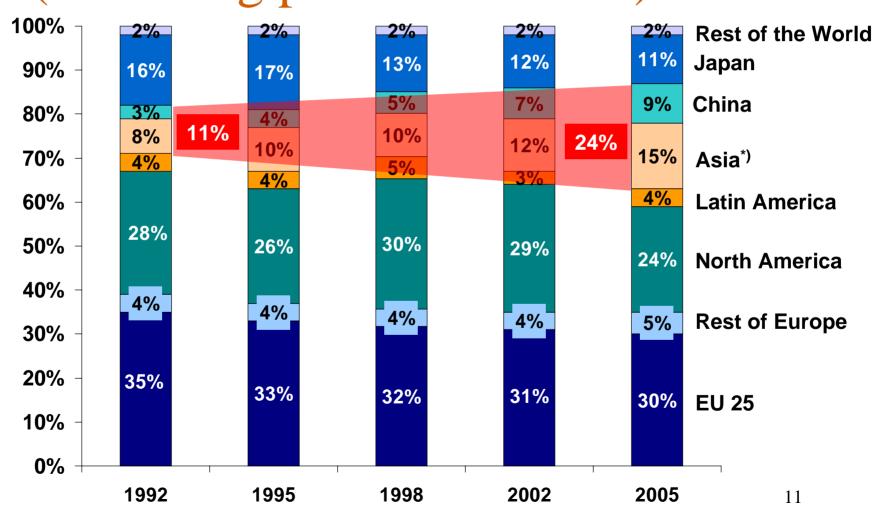


- "World-scale" plants
- High degree of standardisation
- Increase in trade volume
- Production in non-traditional countries
- Sourcing, production and trade is global
- More specialist production in the most economically developed countries

New chemicals producing regions emerging

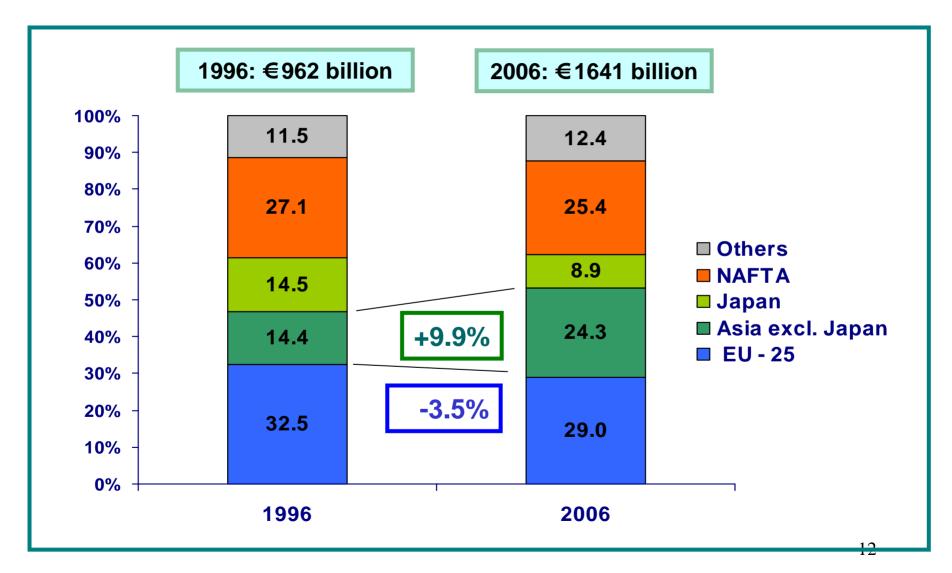


(excluding pharmaceuticals)



Regional shares in world chemical production*





Change in Share of World Chemicals Exports

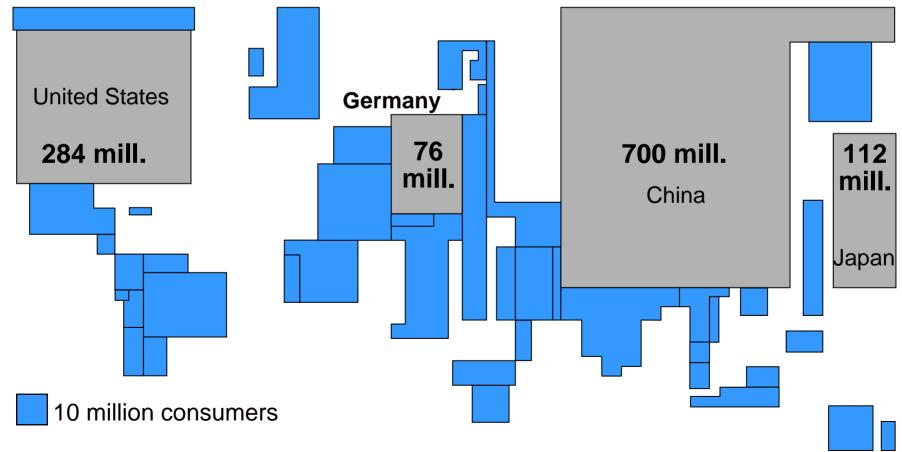


	<u>1990</u>	<u>2005</u>
Developed countries' share of world chemical exports	83.5%	75%
Developing countries' share of world chemical exports	16.5%	25%
World chemical exports (billions)	\$308.8	\$570.2

Consumer spending will shift to emerging markets



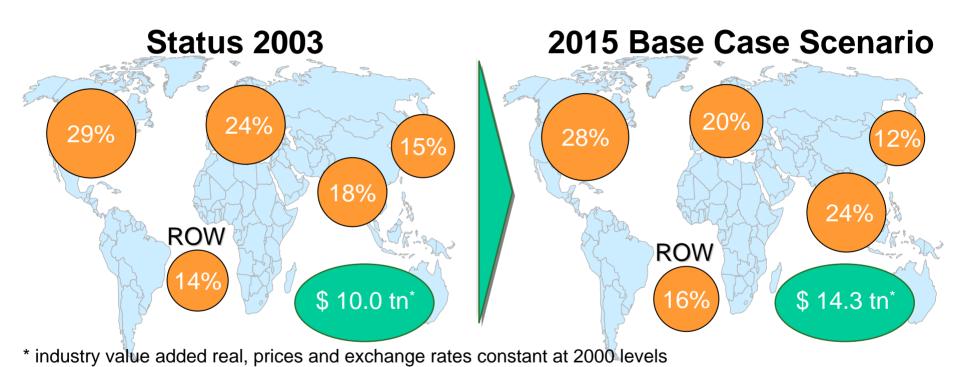
2015: Total = 2.02 billion consumers (29 % world population)



Source: World Bank, EIU, US Census Bureau

Migration of Western industry production to emerging countries





Shift from developed countries to emerging countries

- From Western Europe to Eastern Europe and/or to Asia (especially China)
- From USA to Asia (especially China)

Major driving forces: Labour costs and market growth in emerging countries

Source: BASF

Key factors affecting the pace of globalisation





Consequences of globalisation for CWC and Dual-use items control



- Chemical industry production and trade outside traditional chemical producing areas is increasing
- Addition of mass chemicals to export control lists is useless if no such control is applied on other key producing countries
- Better implementation of the CWC and achieving of key purpose and object remain essential before stepping up control of control on industry (e.g. introduction of sampling & analysis)
- Global trade makes compliance with differing mixtures rules problematic for industry

Balanced trade controls



- Chemical industry subject to many trade and production control regimes (Chemical Weapons Convention, Australia Group, drug precursors, Montreal Protocol, Dual Use/UN Resolution 1540)
- ICCA agrees with controls provided these are instrumental and proportionate to the objectives pursued
- Work with national authorities when dealing with suspicious enquiries
- ICCA strongly stresses the need for minimal trade restrictions on a global level playing field

SAICM



• Strategic Approach to International Chemicals Management

http://www.chem.unep.ch/saicm/

Extending industry compliances

OPCW handbook for industry

Introduce e-Learning tools for industry

Summary



- The worldwide chemical industry fully supports the goals and objectives of governments with regard to the Chemical Weapons Convention and the non-proliferation of WMD and wants to be a partner for implementation of trade & production control regimes
- In new chemical producing regions national controls companies may not be aware of their CWC responsibilities and may lack internal compliance programmes and standards that are applied in regions with an established chemicals industry
- Chemical federations play a supporting role in promoting good practice through programmes such as Responsible Care, Voluntary Codes of Conduct, Memoranda of Understanding, etc.
- But OPCW can help through e-Learning tools and handbook