



**United Nations  
World Conference on Disaster Reduction**

**Environmental Management Systems for Risk  
Reduction**

Iksan van der Putte

International Federation of Consulting Engineers

*UNEP Session: “Environmental Management and Disaster Reduction: Building  
a multi-stakeholder Partnership”*

*Kobe, 19 th January, 2005*



# About the International Federation of Consulting

Founded in 1913, FIDIC membership today numbers 72 National Member Associations representing some 650 000 professionals

FIDIC collaborates with UNEP, ICC (International Chamber of Commerce), ICLEI (International Council for Local Environmental Initiatives) in the development and dissemination of EMSs for industrial facilities and for urban administrations



# Environmental Management Systems and Risk Reduction

If properly applied an EMS might contribute to not only

⇒ reducing the risks and impacts of natural and technological hazards, but may also

⇒ avoid the creation of some of those risks in the first place



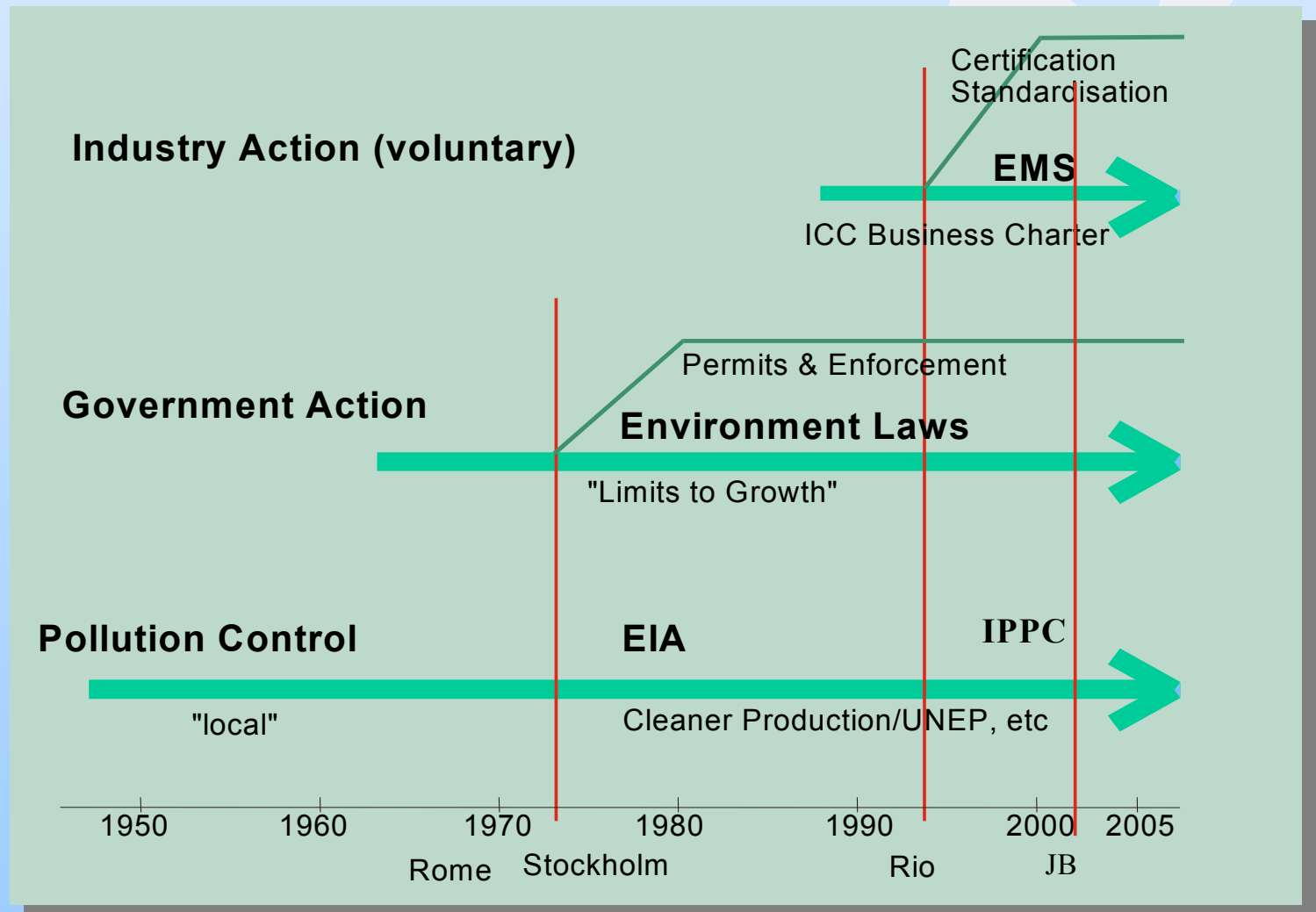
# Environmental Management Systems and Industrial Accidents

## Historical background

- ⇒ Regulatory control instruments could not prevent industrial disasters (Bhopal, Seveso, Basle)
- ⇒ Voluntary instruments, including EMSs, received increasing support
- ⇒ Most common tools are the certifiable
  - ISO 14001 system
  - EMAS



# Environmental Management Systems and Industrial Accidents






# Developments in Environmental Management Systems

- **ISO 14001 Certificates (world-wide):  
66 070 (end 2003)**
- **EMAS registrations:  
more than 4000 (end 2004)**

*At the start only industrial organizations joined the schemes, now more and more other organizations are participating, (service sector, governmental sectors, including local authorities)*



# **Actions needed to improve EMSs as a tool for Disaster reduction and Sustainable Development**

A red arrow points downwards from the top of the slide, indicating a flow or sequence of points.

**Most EMSs concentrate on own activities and processes**

**EMSs should include (sustainable) projects and programmes within its scope**

**New tools are required to improve and evaluate the sustainability of projects and programmes**

**A multi-stakeholder approach is required with combined efforts of partner organisations. FIDIC has made a start with its PSM guidelines**



# The Project Sustainability Management Process in the FIDIC PSM guidelines

