



Safety Reporting as Key Factor of Major Accident Control

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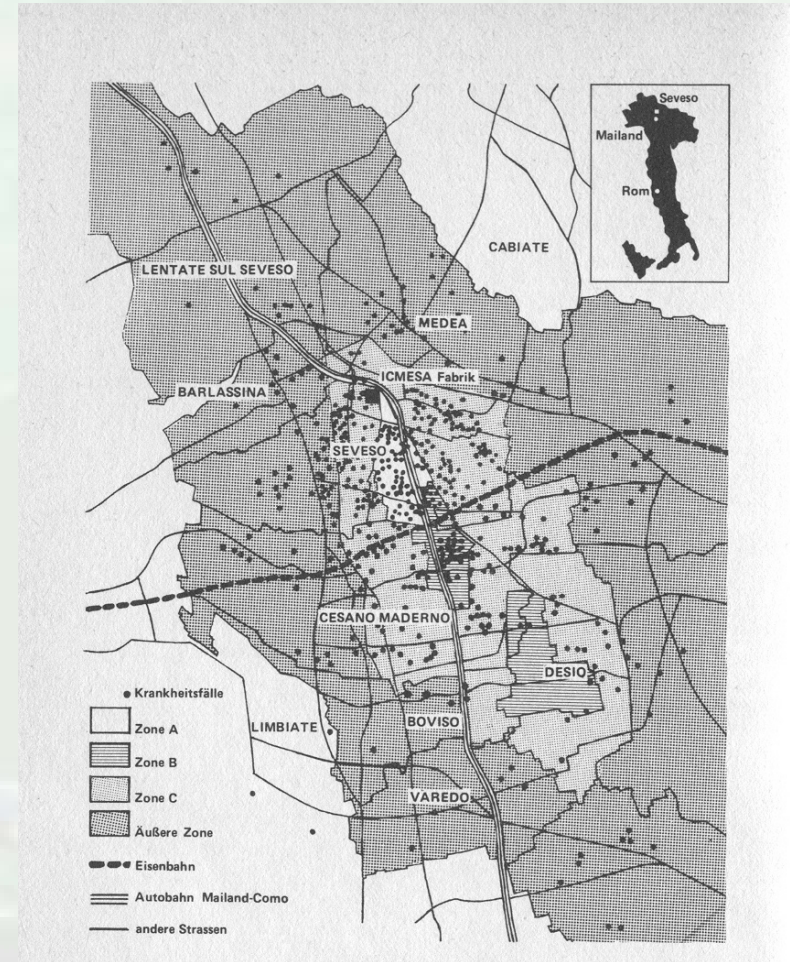
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**Convention on the Transboundary Effects of Industrial
Accidents**

**Assistance Programme for Eastern Europe, Caucasus and
Central Asia (EECCA) and South-Eastern Europe (SEE)**

10.07.1976, Seveso, Italy

- Release of Dioxin
- Extended environmental pollution
- Over 200 injuries (Chlorine disease)



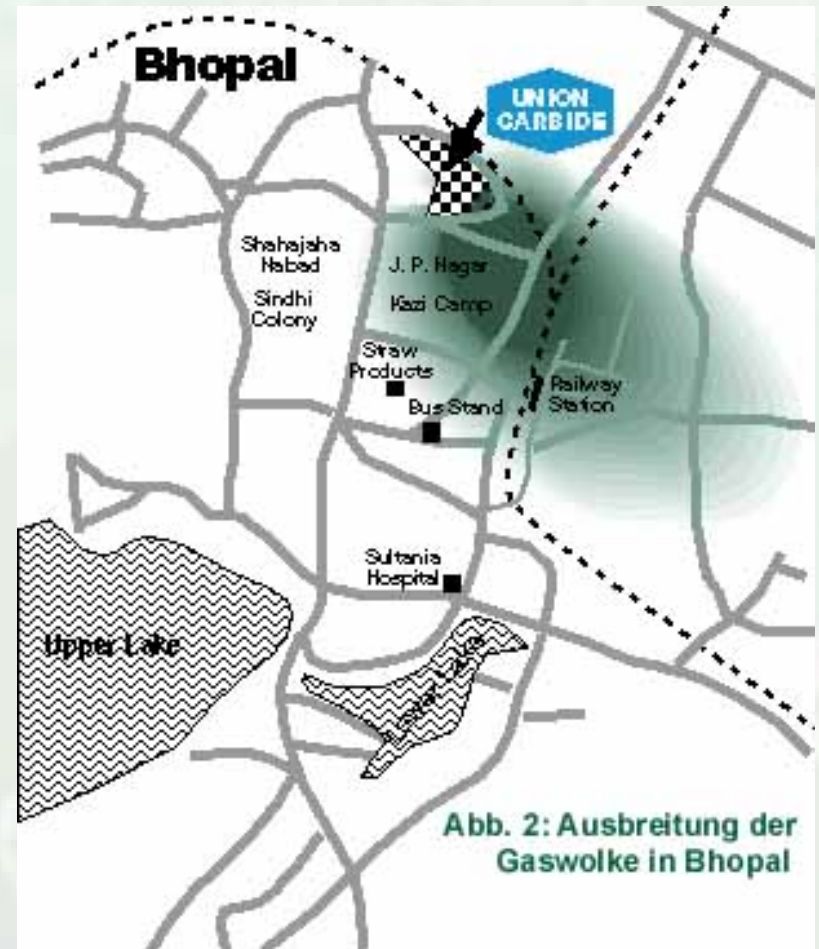
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2.12.1984, Bhopal, India

- Release of Methylisocyanate, etc.
- Ca. 10.000 casualties
- Ca. 100.000 injuries



13.05.2000, Enschede, NL

- Explosion of fireworks
- 20 casualties
- 562 injuries



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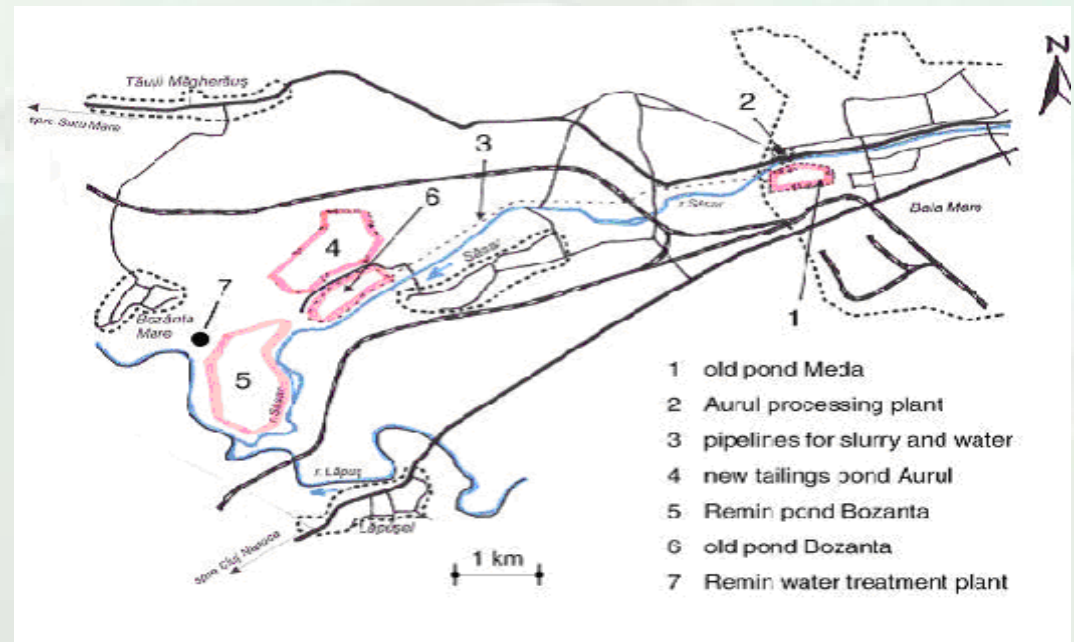
21.09.2001, Toulouse, F

- Explosion of Ammonium-nitrat fertilizers
- 34 casualties
- 32 heavy injuries
- 190 light injuries
- Extended destruction



31.01.2000, Baia Mare, Ro

- Leakage from tailing dam over 4 days
- Release of cyanide - water
- Extends pollution of rivers



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A long history of major accidents ...

1974: Flixborough, United Kingdom

1976: Seveso, Italy

1982: Original « Seveso Directive » (82/501/EEC)

1984: Bhopal, India

1986: Basel, Switzerland

1996: « Seveso II Directive » (96/82/EC)

1/2000: Baia Mare, Romania

5/2000: Enschede, Netherlands

9/2001: Toulouse, France

12/2003: Amendment of « Seveso II Directive » (2003/105/EG)



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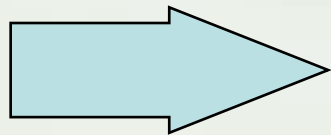
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Change of Philosophy in Major Accident Prevention

- 70`s: Safe components → safe systems (SA)
- 80`s: Scope extended to environmental hazards
- 90`s: Safe techniques → safe management practices
- 00`s: Overall safety → safety culture

Seveso II - Aim

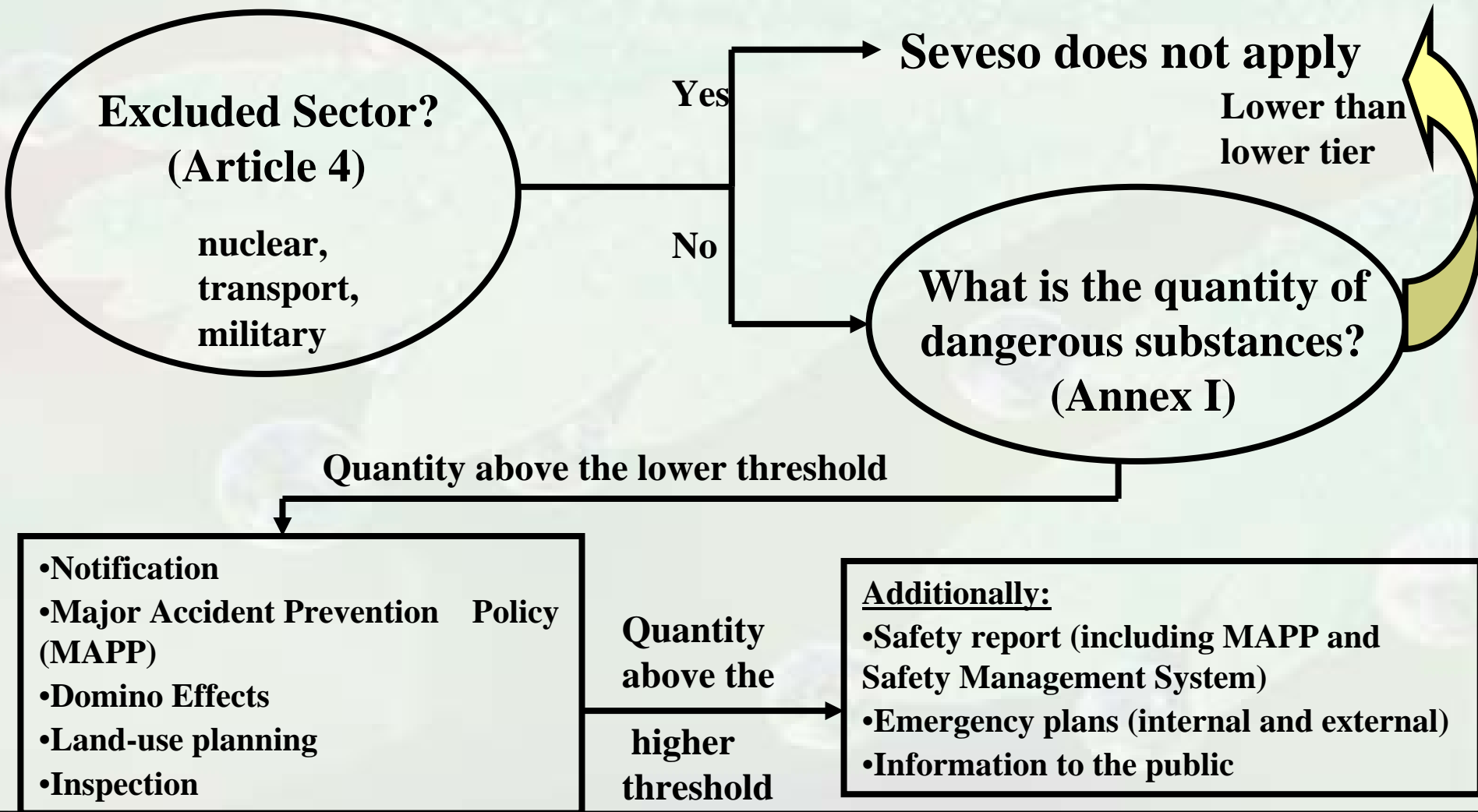
- prevention of major accidents involving dangerous substances
- limitation of the consequences of accidents on man and the environment



high level of protection
for man and the environment
throughout the European Union



Scope & main obligations of Seveso II



Control measures aimed at limitation of the consequences

Upper and lower tier:

- General obligations (SMS, MAPP)
- Land-Use Planning

For upper tier only:

- External Emergency Planning
- Written Safety Report
- Information to the Public



Areas of accident prevention, preparedness & response –parts of an advanced Safety Culture



Information on the
management system
(SMS, MAPP)
(Sec I Annex II & Annex III)

Organisation & Policy

Environment (Sec II of Annex II)

Hazardous Installations "screened out"

Critical elements of Installations/Scenarios
(Sec IV of Annex II)

Descriptive Part

Measures of Protection
(Sec V Annex II)

Operative Part

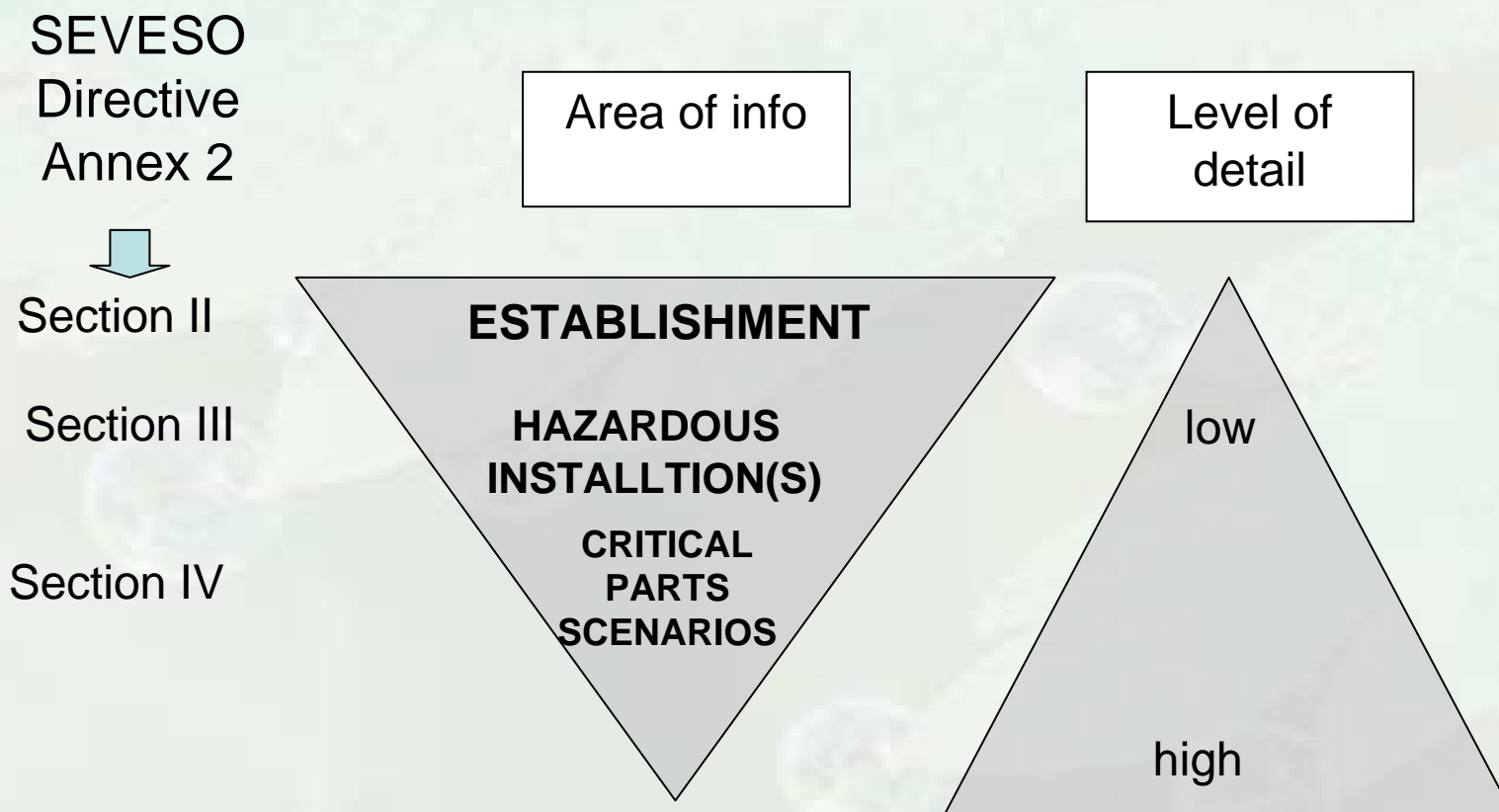


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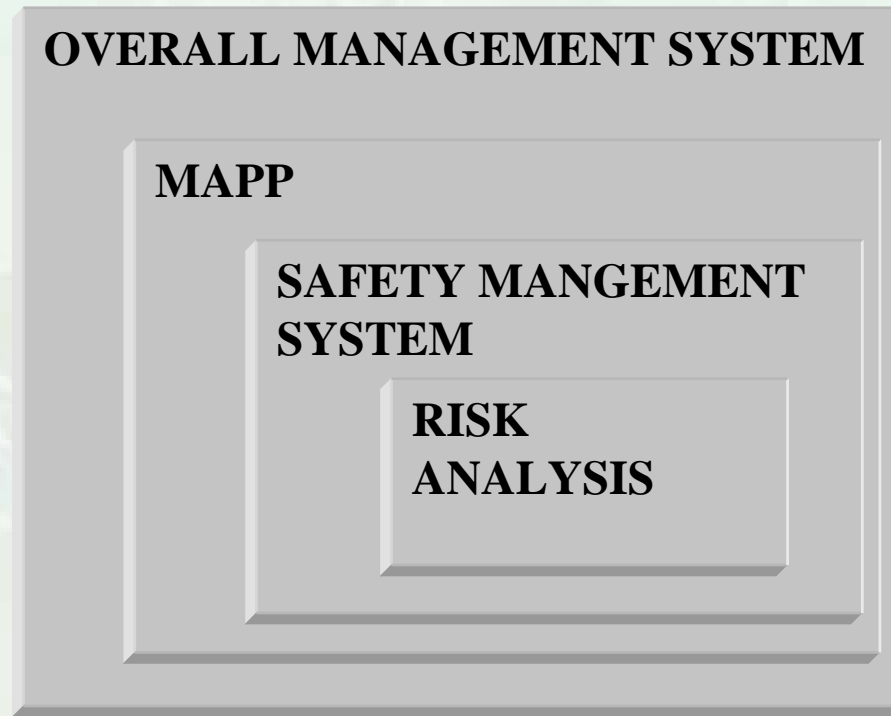
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Information Requirement



Systematic Management



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