



F-SEVESO

Presentation of the project

Brussels, February 6, 2008



OVERVIEW OF THE PROJECT

O. Salvi

Overall objectives

➤ To study :

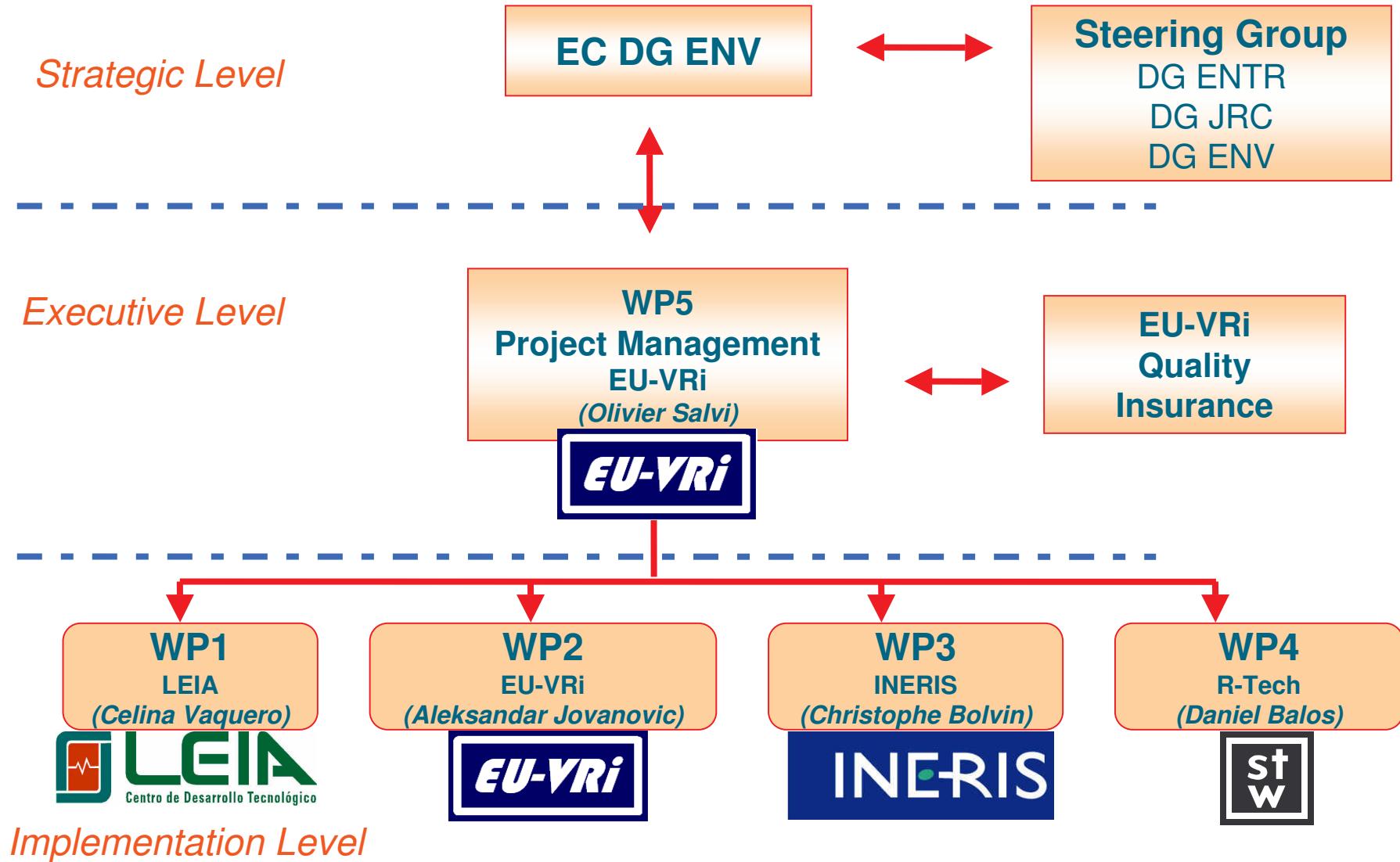
- the **adequation** of the **requirements** imposed by the Directive to the **operators** of Seveso II Establishments and the **objectives** to prevent major accident and mitigate their consequences ;
- the **real impact of the requirements** and the most effective way **to measure** it ;
- the **effectiveness of the implementation**, in terms of compliance in the various Member States and industrial sectors, and the assessment of possible market distortion

➤ Main features

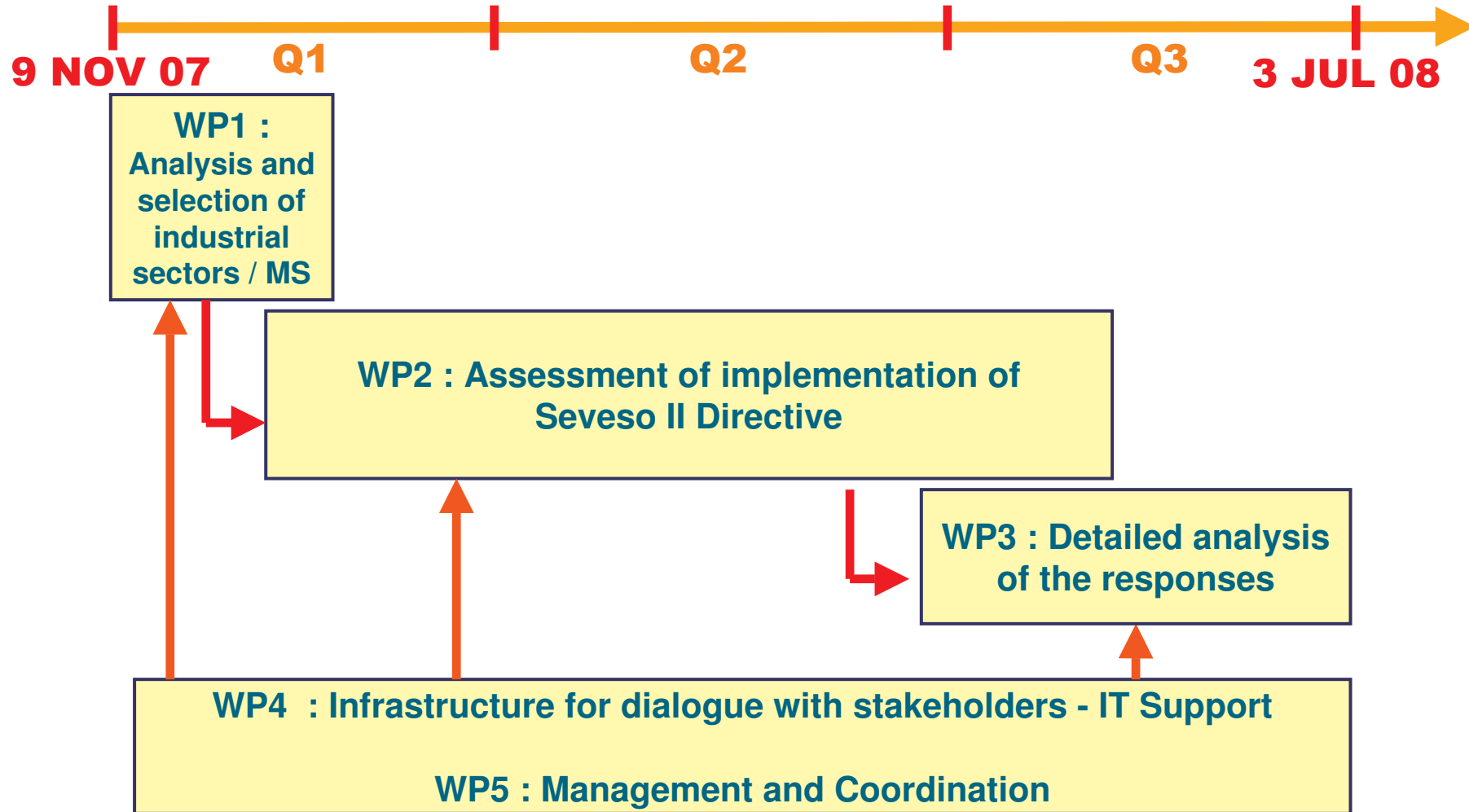
- Inputs for the preparation of a new version of the Seveso
- Focus on operators - Survey based study
- Collect concrete cases, examples...
- Work with the steering group (DG ENV + ENTRE + JRC)

Organisation of the project

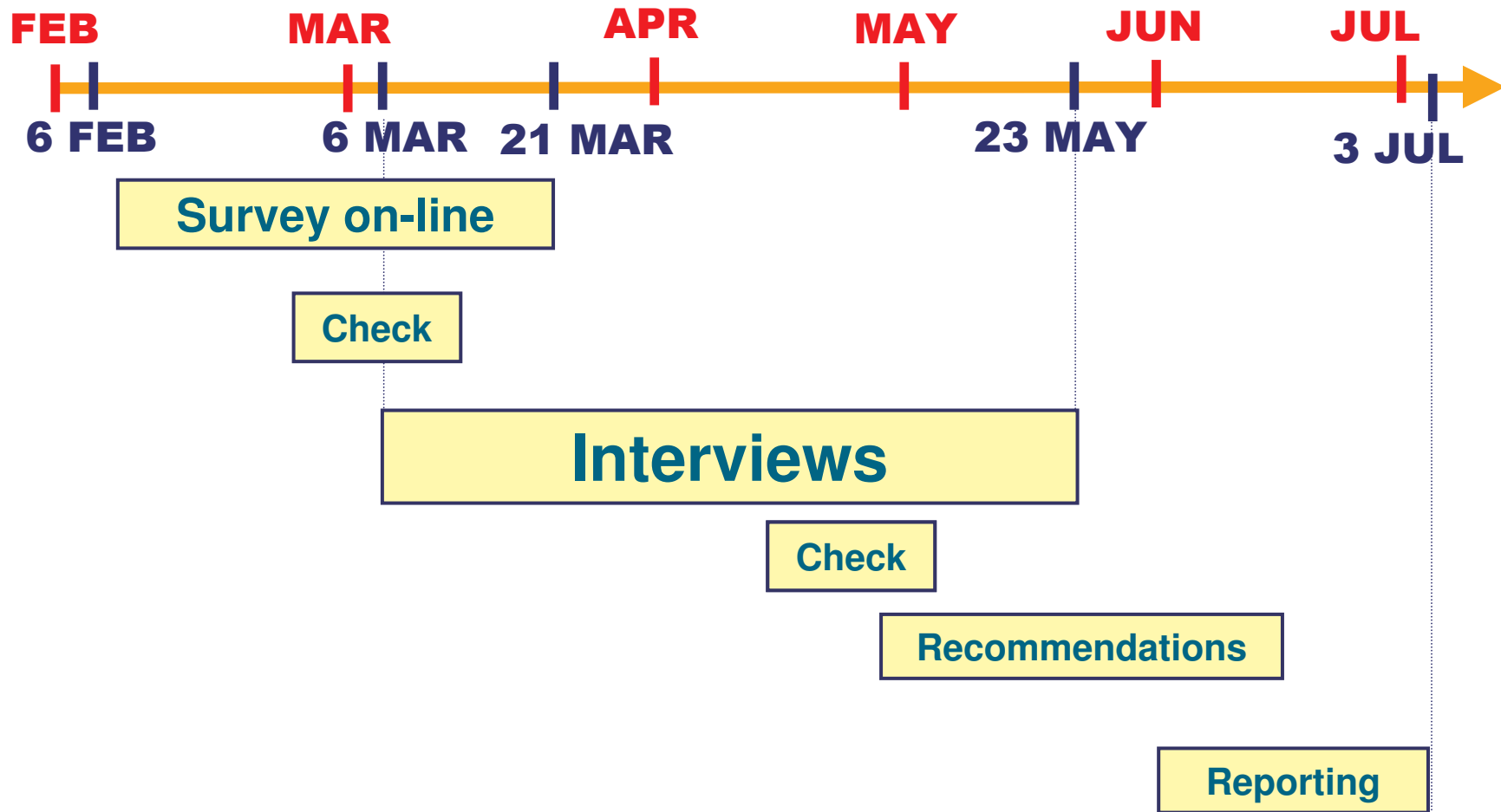
Organisation



Project Overview - Flow chart



Focus - Survey and interviews



Method for the survey

organisation of the questions,
presentation of the website,
draft questionnaires

The 4 issues of the survey

(as proposed in the description of WP3)

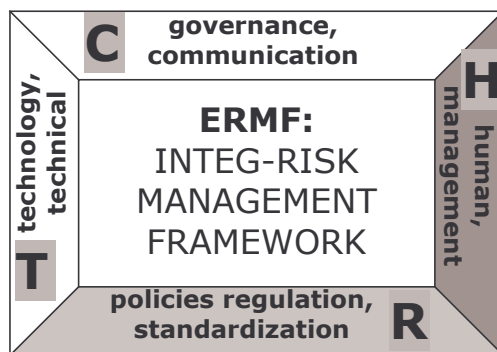
Issue 1: Transposition of the Seveso II Directive requirements and general approach

Issue 2: Implementation of the main requirements of the Seveso II Directive by the operators: practices, weaknesses and possible problems

Issue 3: Effectiveness of the implementation

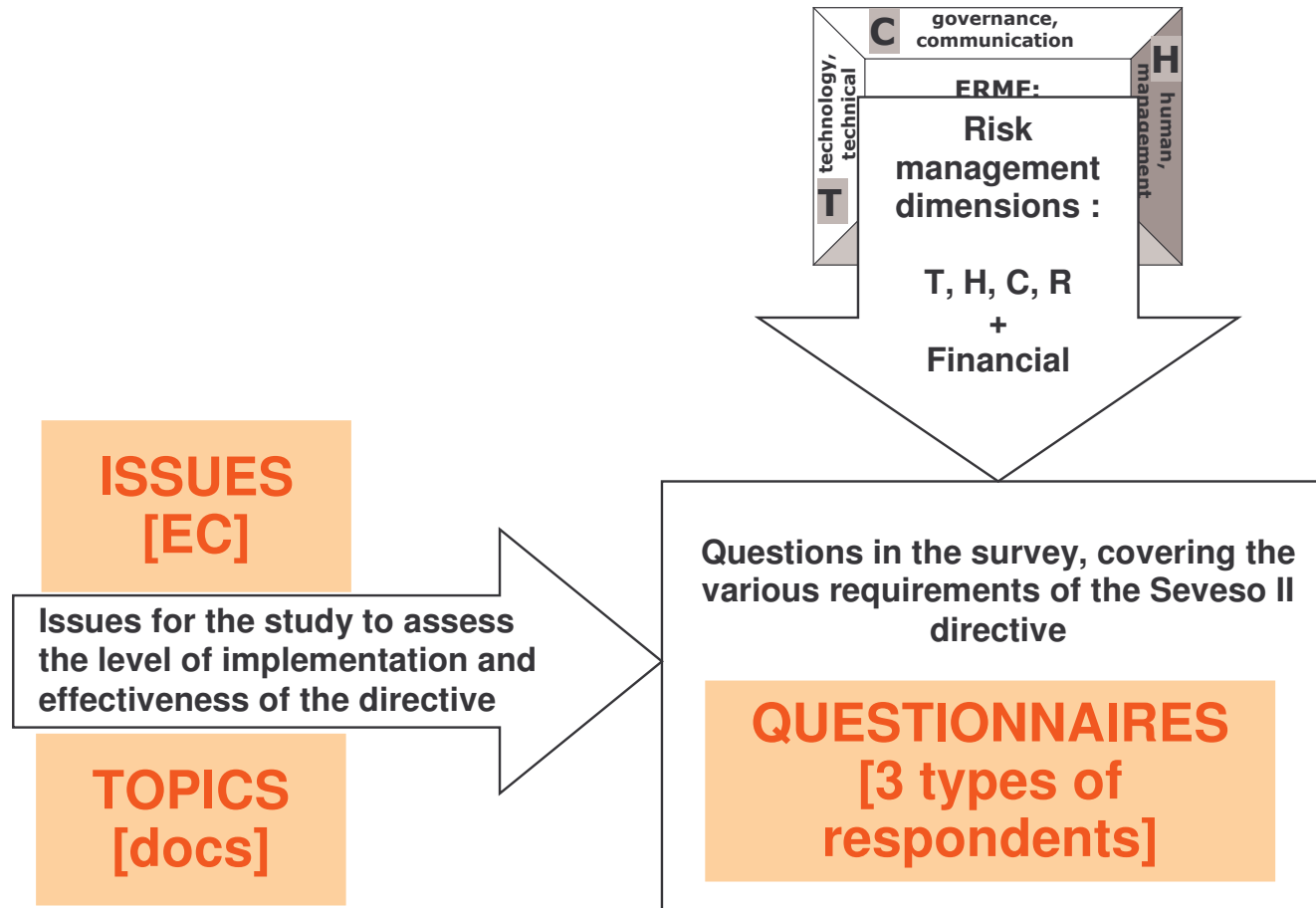
Issue 4: The Seveso II Directive and the competitiveness of the European Industry

Risk management dimensions



Dimension	Refers to the existence of...
Technical / technological (T)	technical knowlege and technologies supporting the knowlege
Human / management (H)	skills of personnel and organisation of the human ressources
Governance / communication (C)	a process with clear definition of role and responsibilities of the management of a decision making process involving several stakeholders, and the associated communication organisation
Policies / Regulations / Standards (R)	a clear and complete regulatory framework, standards and norms
Financial / costs / resources (F)	an evaluation of the costs and financial issues

Method for the design of the questionnaires



Issue 1: Transposition of the Seveso II Directive requirements and general approach

- *Adequacy of the transposition*
- *Consistency of SEVESO with other directives and important regulatory texts (safety at work, IPPC, ATEX, EIA directives, REACH, GHS...)*

Issue 2: Implementation of the main requirements ...

- *The approach for risk assessment in the various countries: Deterministic / probabilistic / consequence-based / others ; how to take into account the human factors in risk assessment*
- *The various uses of the safety report (different objectives to deliver the permit to operate or for land-use planning or emergency plans)*
- *Quick obsolescence of the reports (evolution of tools, changes in the business...) and on-line monitoring tools*
- *Existence of guidance document, more or less specific, and relation of Seveso requirements with existing standards*
- *Diversity of tools, data and methods versus need for reference tools, data and methods within EU*

Issue 2: Implementation of the main requirements ...

- ***Diversity of tools to implement SEVESO and other "safety" directives (safety at work, IPPC, ATEX...), and relations between the tools, consistency with BREF documents***
- ***Link between reporting accidents and incidents and the use of the information (feedback)***
- ***Education, training and accreditation of experts***
- ***Risk communication internally in the establishment (between manager and lay people), and towards the public)***
- ***Involvement of the public and relevant stakeholders in the decision making process***
- ***Costs and resources, education and level of knowledge required to prepare/review the safety reports, monitoring and management approaches (maintenance of the plans, the reports...)***

Issue 3: Effectiveness of the implementation

- *Real reduction of the major accident rate*
- *Use of indicators to measure the performance related to major accident*
- *Technical prescriptions versus most of the accidents causes involve human factors*
- *Proportionality of the requirements / what are the most important requirements (most important)*
- *Dialog internally and with the population and creation of a risk culture, emergency culture*
- *Risk transfer, from accidental risks to chronic risks, occupational risks, or to transportation risks*
- *Comparison between level of safety for Seveso establishments, upper and lower tiers and non Seveso establishments*
- *Level of compliance between lower tiers and upper tiers*

Issue 4: Seveso II and the competitiveness of the European Industry

- *Delay related to approval of the reports*
- *Adaptability of the regulatory framework to the business dynamic*
- *Analysis of possible market distortions*

Recommendations tables

Recommendation 1:	
Title	
what is the problem	
what is the recommendation	
how it will be implemented, actors, timeframe,	
estimation of the costs if possible	
impact expected, if possible quantified	

Criteria for the validity of the survey

Geographical distribution of establishments:

8 Member States the most representatives : Germany, UK, Italy, France, Spain, Sweden, the Netherlands and Poland include 7091 establishments, and weigh **83 % of the total population of Seveso II establishments** (SPIRS)

Industry types : 10 sectors the most representatives

83% of the Seveso establishments

86% of the number of accidents reported (1994-2004)

- production and storage of explosives
- metal refining and processing
- wholesale and retail storage
- petrochemical
- pesticides, pharmaceuticals
- general chemicals manufacture
- plastics and rubber manufacture
- power supply and distribution
- food and drink

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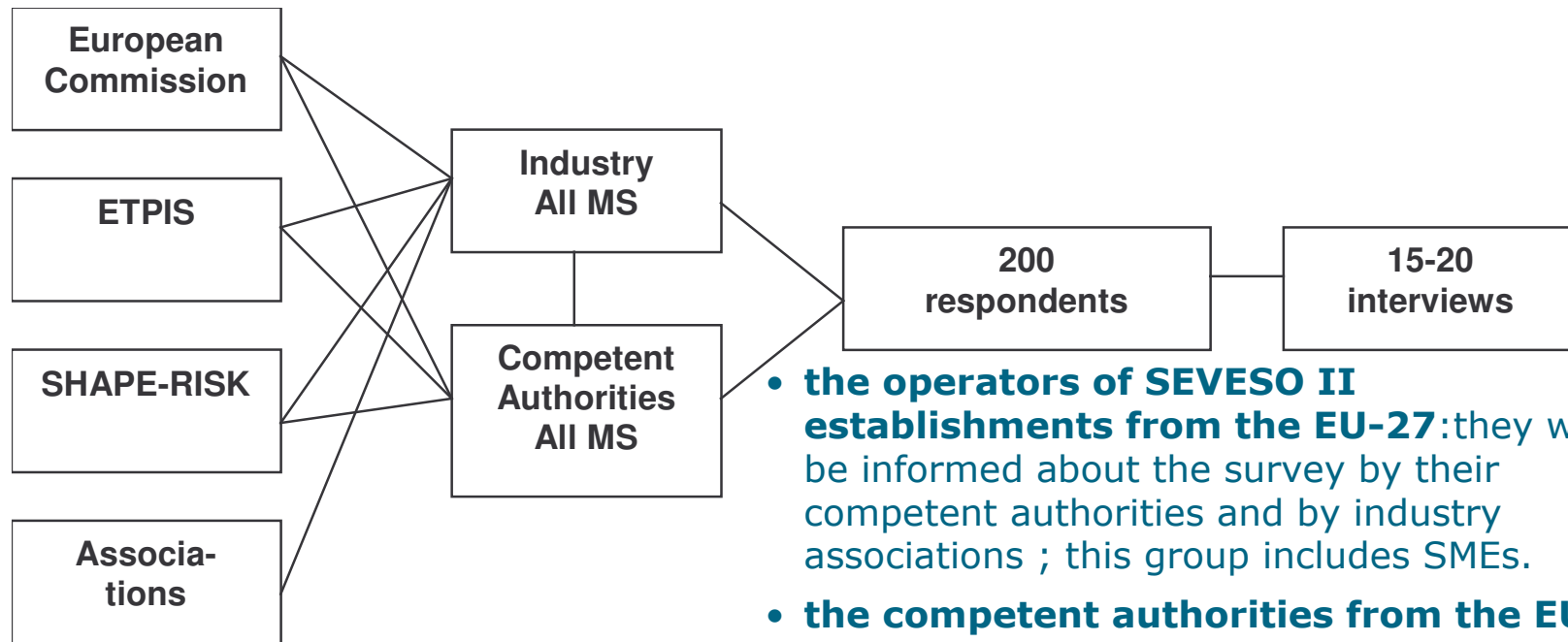
Industry type most represented
83% of the establishments

86% of the number of accidents reported (1994-2004)

Criteria to be checked:
among the respondents,
60-80% MS selected
60-80 % industry selected

- storage of explosives
- food processing
- oil storage
- pharmaceuticals
- general chemicals manufacture
- plastics and rubber manufacture
- power supply and distribution
- food and drink

Distribution and promotion of the questionnaires



- **the operators of SEVESO II establishments from the EU-27:** they will be informed about the survey by their competent authorities and by industry associations ; this group includes SMEs.
- **the competent authorities from the EU-27:** they will be informed about the survey by the European Commission (both DG ENV and reminders).
- **other stakeholders,** like Unions, Associations...: they will be informed by the project management and via non targeted dissemination.

Futher remarks

- **Opportunity to collect feedback**
- **Provide concrete examples / cases in the 'please explain boxes'**
- **Please promote the questionnaires**

Questionnaires available at
<http://www.f-seveso.eu-vri.eu>
until 21 March 2008