

IDRC 2008

Standardisation – a benefit for safety and security

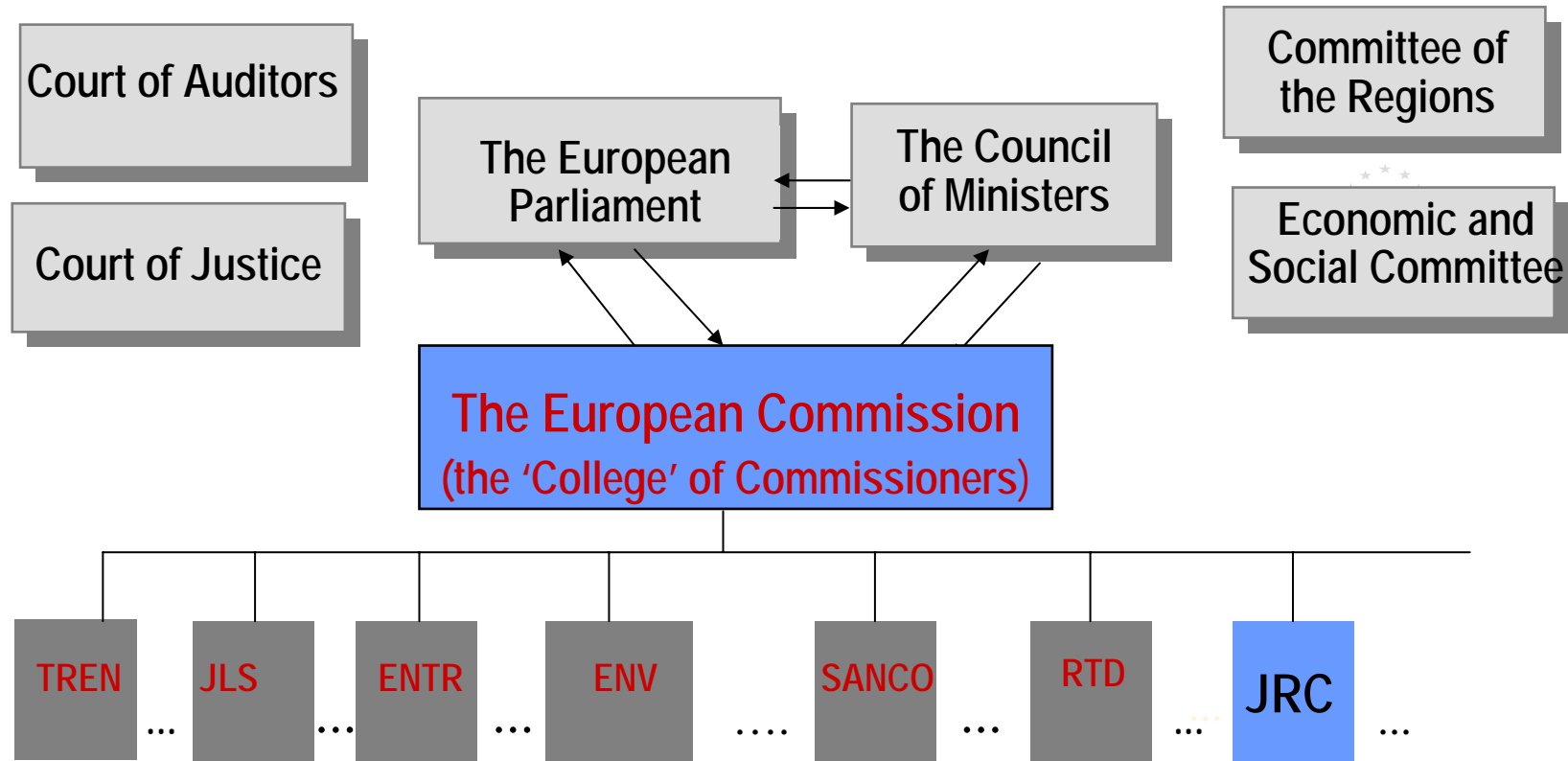


TRiVA

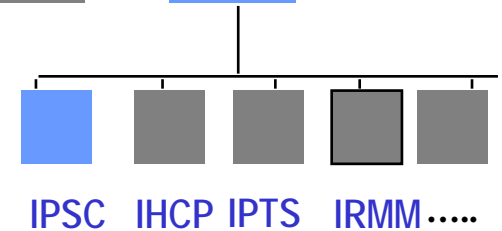
**integrated Traceability, Risk and
Vulnerability Assessment**

Thomas Hartung & TRiVA team

at EU JRC, Ispra, Italy



Directorates General: the “Commission services”



JRC
Institutes: TRiVA

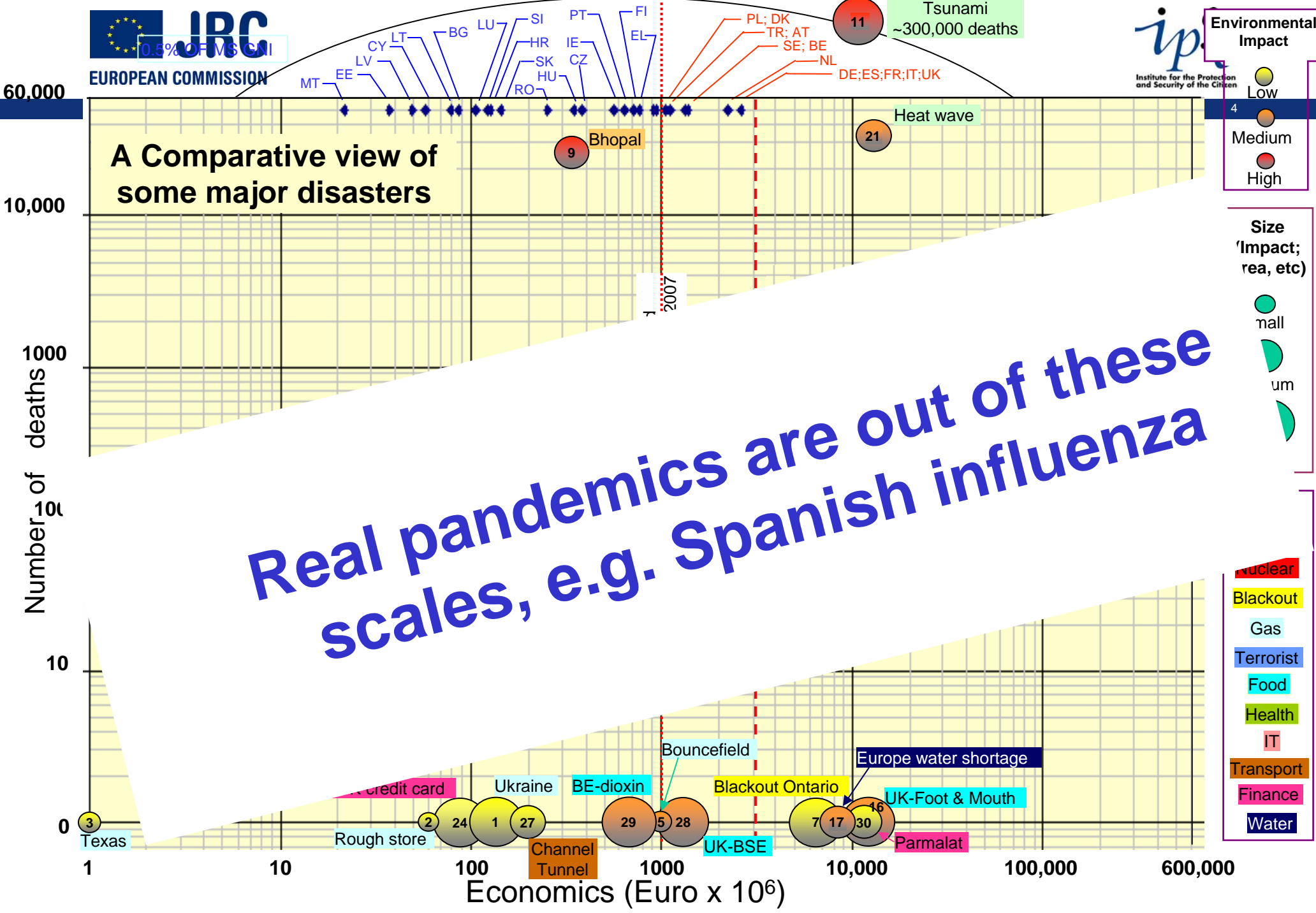
The EU is a common market of
500 million people with free travel of
persons and goods....



... and free spread of infectious diseases.

Since pathogens know no border, we need common, i.e.
standardized approaches.

Creation of the European Center for Disease Control,
Stockholm, as a first step.



Environmental Impact

- Low (Small yellow circle)
- Medium (Medium orange circle)
- High (Large red circle)

Size 'Impact; rea, etc)

- Small (Small green circle)
- Medium (Medium green semi-circle)
- Large (Large green semi-circle)

Category

- Nuclear (Red triangle)
- Blackout (Yellow rectangle)
- Gas (Light blue rectangle)
- Terrorist (Dark blue rectangle)
- Food (Cyan rectangle)
- Health (Green rectangle)
- IT (Pink rectangle)
- Transport (Orange rectangle)
- Finance (Magenta rectangle)
- Water (Dark blue rectangle)

Thought-starter

(Tox Sci 85, 422-428, 2005)


Standardization of criteria and terminology


Example from other field:

Developed proposals for cross-cutting criteria and terminology for Critical Infrastructure


Support to the Critical Infrastructure Protection Directive (political approval June 2008)

We need to speak the same language (standardized terminology) to agree on joint programs

 **EUROPEAN COMMISSION**
DIRECTORATE-GENERAL
Joint Research Centre


Institute for the Protection
and Security of the Citizen

**The Vulnerability of interdependent
Critical Infrastructures Systems:
Epistemological and Conceptual State-
of-the-Art**



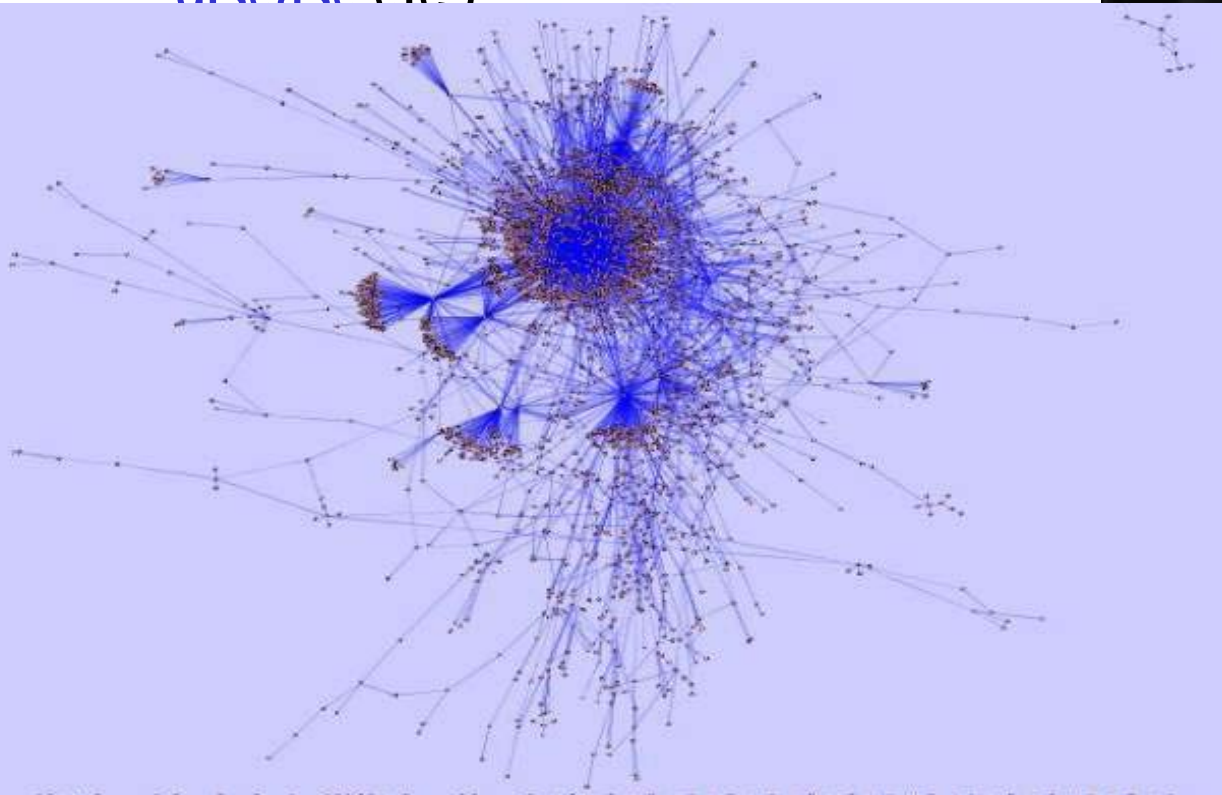
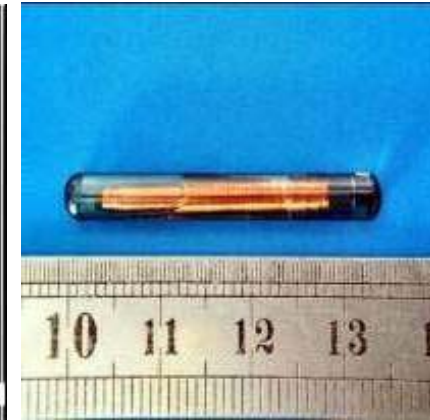
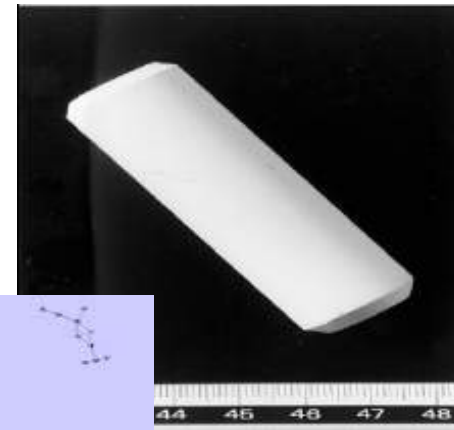
Sara Bouchon

Institute for the Protection and Security of the
Citizen
2006

EUR 22205 EN

Animal pandemics - Tracing of animals and transports

Improved traceability of livestock and food for biological hazards (Mad cow disease, food and mouth disease etc.)



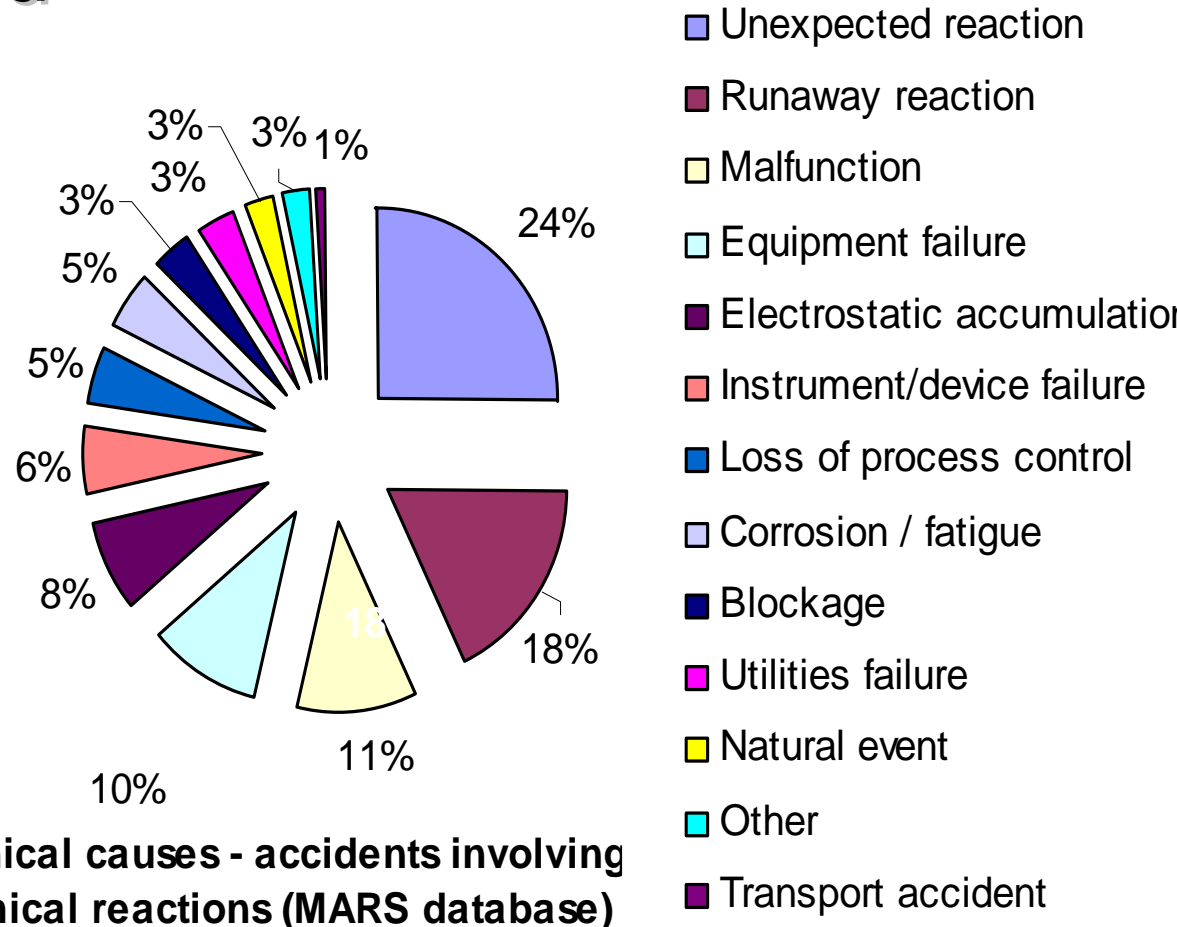
- Tracing throughout the production chain by
- 1. Radio Frequency Identification (RFID)
- 2. Using Network Analysis and GIS, e.g. for showing animal movement patterns relevant for the spread of infections

Example from another field: Major Accident and Hazard Bureau

→ **joint analysis
of events**

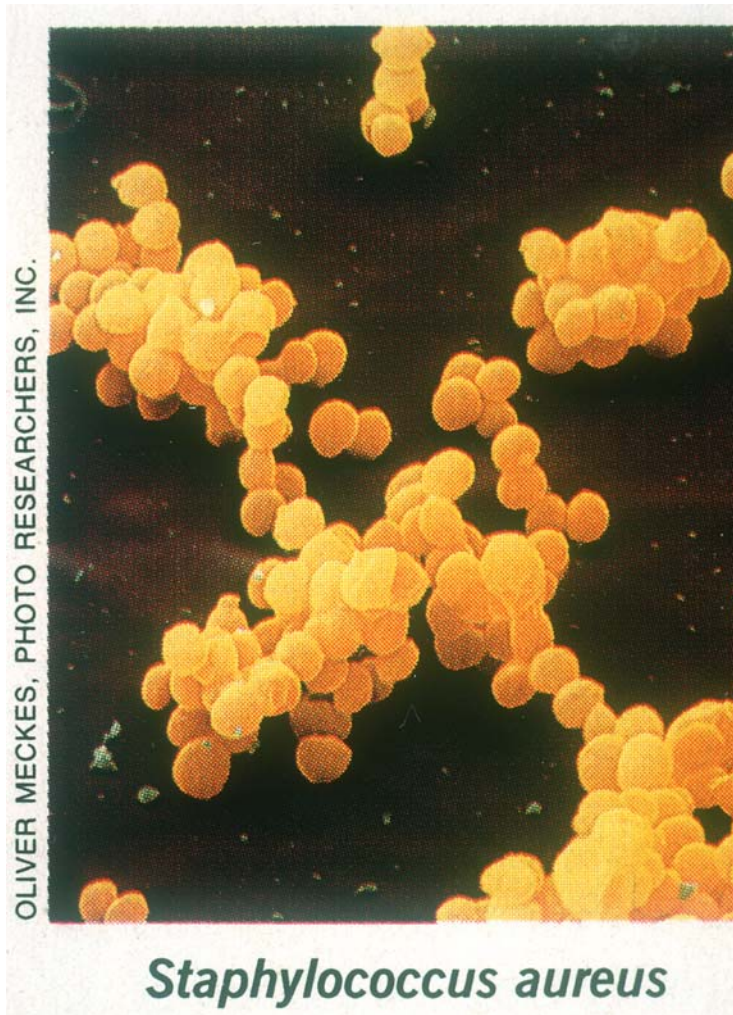
**Collaborative projects and
expert working groups to
study accidents/ best
practices**

**organizational (e.g.,
management systems,
performance indicators)**



Need for standardization

- Terminology
 - Reporting
 - Event analysis, best practices
 - Pan-European (better global) monitoring
- and
- Standardization before doing the work
 - Avoidance of (national) duplication
mutual exchange and acceptance of data
 - Joint and mutual training



Let's go for
More
Adequate
Detection of risk
Mutual
Acceptance of
Data
Make
A
Difference