

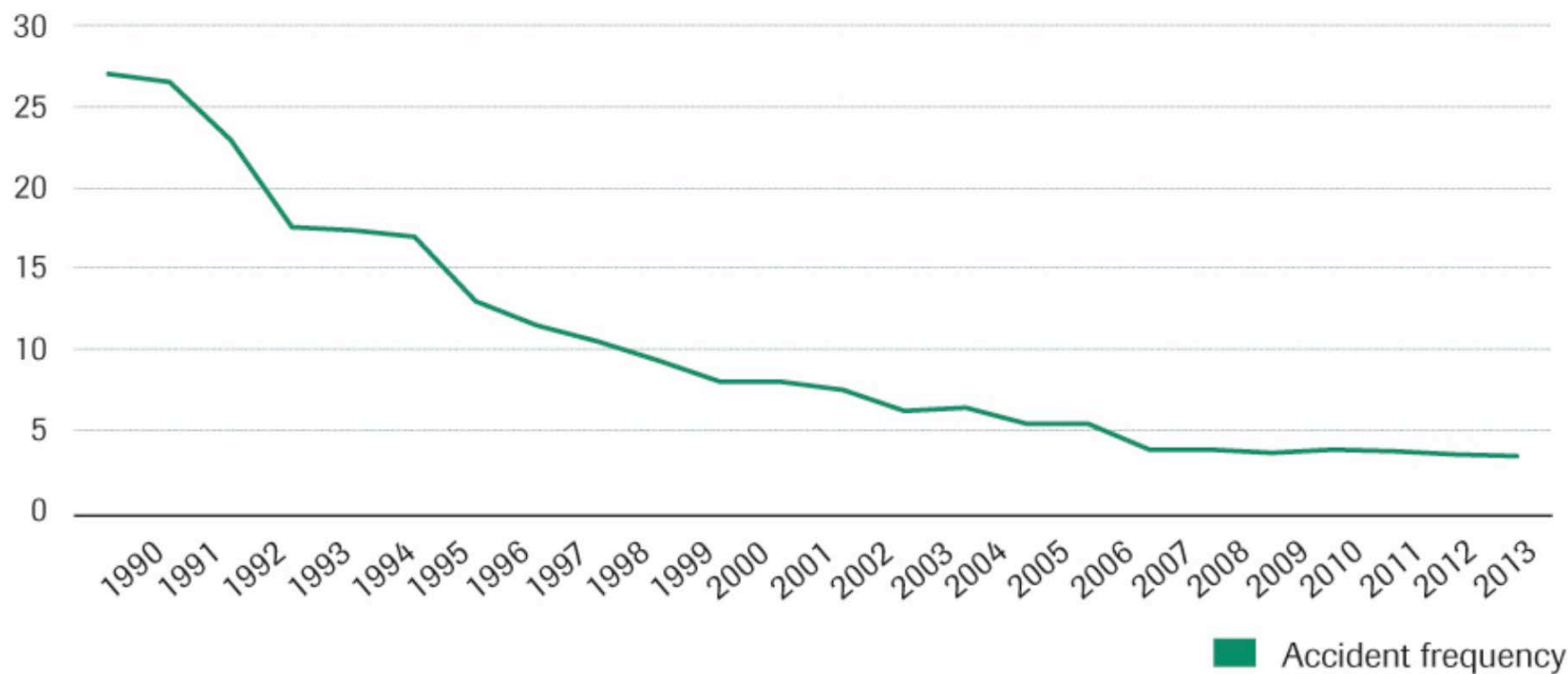
European Process Safety Centre

Research Priorities for process safety in
industry

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Safety in the process industries: Why Research?

Accident frequency index – industrial accidents
per 1 million working hours



Research Priorities: What's Important?

- Practical application is readily identified
- Application of existing or emerging technologies in industrial environments
- Topics with clear mutual benefits for a sector
 - *“if only we could work together on...”*
- Proof of technology (demo)
 - Catalyst for development of practical tools (also for service provided to process industry)

Research Proposals for process safety in the Industrial Sector

1. Gaming-Training tools

- Multi-user gaming as training tool
- On-the-job interaction training & coaching
- Procedural + operational angle
- Resilience training
- **Challenge:** location simulation



Continued...

2. Automation of risk assessment

- Cut variation across multi-disciplinary teams
- Less resource for routine activity
- **Challenge:** business chain integration
 - Product & process (operating company R&D)
 - Engineering (Engineering Contractor)
 - Operation (operating company)
 - Maintenance (Maintenance Contractor)
- A demonstration model for acceptance
 - Operating companies, authorities

Concluding Comments

- Practical does not necessarily mean simple!
- It's not only procedures and standards
- Working demos help to motivate further development

- Key to success: a clearly identified opportunity