IRIS
Integrated European Industrial Risk Reduction System
Large Demonstration in Hungary 2011
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Basic Figures:

- **Start date:** 1 October 2008
- **End date:** 31 March 2012
- **Duration:** 42 months
- **Budget:** 13 000 000 €
- **EC contribution:** 8 500 000 €
August 1st 1976 – August 1st 2007

- How to predict?
- How to avoid?

Vienna, Reichsbrücke (built 1936)  
I-35 Bridge Minnesota (built 1967)
Bridge Object 1618-150
Global Lifeline (Safety Level regarding ULS)

Enhanced Model incl. Maintenance Intervention => Range of Life Expectancy 48 / 58 / 68

- a … lower bound life expectancy
- m … average life expectancy
- e … upper bound life expectancy
- a’ … adapted lower bound life expectancy
- m’ … adapted average life expectancy
- e’ … adapted upper bound life expectancy
- a” … enhanced prognosis lower bound life expectancy
- m” … enhanced prognosis average life expectancy
- e” … enhanced prognosis upper bound life expectancy
Expected (analytical) lifeline of EXISTING structure ... validated with BRIMOS & bridge inspection
Nuclear Containment
Toxic Chemicals – Pipe Reactor

Platform 19.5m
Applications

Tailing Ponds
We offer:

<table>
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<tr>
<th>Decision Support</th>
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<td>Management tools</td>
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<td>Prediction tools</td>
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We need:

- Information,
- actual and historic
- Integration into ongoing activities
THANK YOU FOR YOUR ATTENTION