





UN Spider Köln 13. October 2010



IRIS

Integrated European Industrial Risk Reduction System Large Demonstration in Hungary 2011

Helmut Wenzel



The Partnership



INDUSTRIAL RISK REDUCTION

Köln, 13. October 2010





Köln, 13. October 2010



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?

IRIS













Computed Life

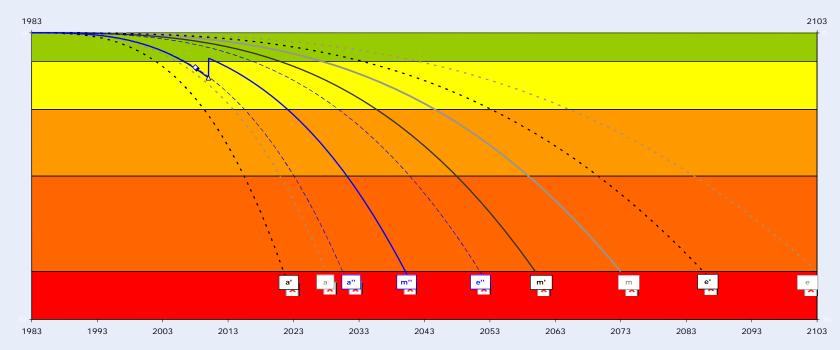


INDUSTRIAL RISK REDUCTION

Köln, 13. October 2010

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

... upper bound life expectancy

a' \dots 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



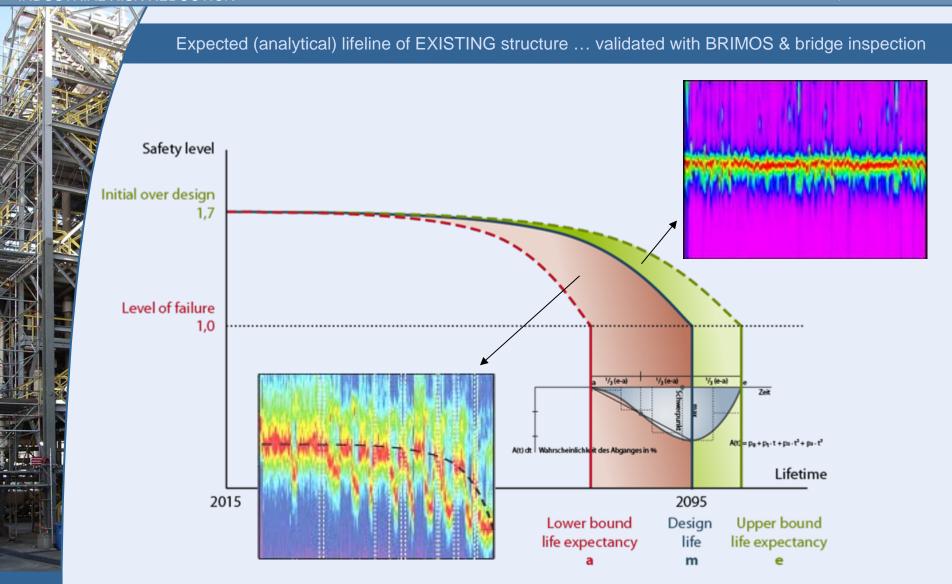


Monitoring Impact



INDUSTRIAL RISK REDUCTION

Köln, 13. October 2010







Applications



Köln, 13. October 2010

Nuclear Containment











Applications



Köln, 13. October 2010

INDUSTRIAL RISK REDUCTION

Toxic Chemicals – Pipe Reactor







Tailing Ponds

IRIS •







- **Decision Support**
- **Management tools**
- **Prediction tools**





We need:

- Information,
- actual and historic
- Integration into ongoing activities





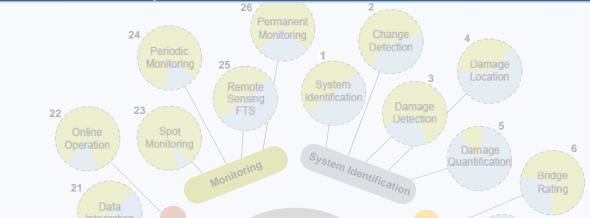
Finally



INDUSTRIAL RISK REDUCTION

Köln, 13. October 2010

IRIS Safety Culture



THANK YOU FOR YOUR ATTENTION

