



Next Generation
Business Intelligence

MUSING

*MU*lti-industry, *S*emantic-based next
generation business *IN*telliGence

Short Presentation



SIXTH FRAMEWORK PROGRAMME



Information Society
Technologies





The initiative

- ❑ A European **RTD project** (2006-2010) in the field of knowledge management – Sixth Framework Programme - IST (Information Society Technologies)
- ❑ The **synopsis**: “to integrate Semantic Web and Human Language technologies and combine declarative rule-based methods and statistical approaches for enhancing the knowledge acquisition and reasoning in BI applications towards industries with a deep socio-economic impact”
- ❑ User-driven initiative, **3 industrial verticalisations**:
 - ✓ Financial Risk Management (FRM)
 - ✓ Internationalisation (INT)
 - ✓ IT Operational Risk (IT-OpR)



Leading edge topics in MUSING

- ❑ Semantic-based knowledge management
- ❑ Ontology engineering
- ❑ Reasoning
- ❑ Bayesian statistics
- ❑ Data mining
- ❑ Quali-quantitative data integration for enterprise's assessment & self-assessment
- ❑ Next-generation rating systems
- ❑ Multi-industry solutions and standards



Early outcomes

- ❑ General technical specs document
- ❑ Verticalisation of BI for:
 - ✓ Financial Risk Management
 - ✓ Internationalisation
 - ✓ IT Operational Risk
- ❑ Ontology framework
- ❑ PDF2XBRL tool
- ❑ Business inspector, to browse the Italian Register & the MUSING knowledge base
- ❑ ...





Expectations – academic

- ❑ Knowledge management & reasoning
- ❑ Natural language processing & semantic web
- ❑ Temporal logic
- ❑ European Internationalisation policies
- ❑ Bayesian integration of qualitative and quantitative knowledge elements
- ❑ Dissemination among the various scientific communities involved in MUSING
- ❑ Bridging of adjacent, high-potential disciplines
- ❑ Training of researchers



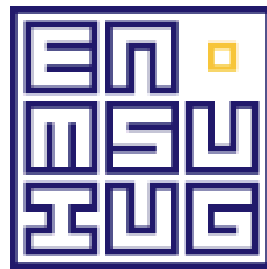
Expectations – industrial

- ❑ Delivery of innovative financial analysis services complying with the **Basel II** requirements;
- ❑ **Information processing automation** in the financial analysis and company rating processes;
- ❑ Provisioning of tools supporting companies in the process of **internationalisation**;
- ❑ Capability of delivering innovative services to manage **IT operational risk** and to follow its rapid evolution;
- ❑ Delivery of a broad spectrum of services to support different kind of users such as financial analysts, certified accountants, exporters, risk managers, category associations, public administration, etc. ⁶



Contacts

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