Managing risks in OSS adoption: the RISCOSS approach

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Risks and OSS

- **Insufficient risk management** has been reported as one of the topmost mistakes to avoid when implementing OSS-based solutions.

- Such risks can be manifold:
  - evaluation, integration, context, process, quality and evolution.

- The RISCOSS project aims at the specification of risk identification, management and mitigation **methods in OSS adoption**.
RISCOSS use cases

Five use cases in public and private sectors

- ERICSSON (large company)
- CENATIC (public administration)
- OW2 (large community)
- XWiki (medium community and SME)
- Moodbile (small community and organization)
3-layered approach to risks

- Goal analysis
- Risk analysis
- Measurement

Decision maker

Business goals

- Quantitative Indicators
- Contextual Indicators

Measures

- Project
- Community
- Expert

Goal analysis
- Statistical analysis
- Focus groups

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The RISCOSS platform

Risk manager
- Risk data collector
- Risk data collector manager
- Risk data repository manager

Business manager
- Business analysis manager
- Business analysis engine
- Business reporting tool

Risk data

Business data
Key points

- Risk ontology
- Flexible data model
- Multiple data sources
- OSS adoption patterns
- Risk models
- Linking to business
Ontology of risks

- Actor
- Goal
- Task
- Resource

- Risk Driver
- Risk Indicator
- Organisation Element
- Risk Event
- Risk
- Business Risk

- OSS measure
- is-a
- aggregation-of
- evaluates
- impacts-on
- realised-by
- is-a
Flexible data model

Scope

- Unit
- Product
- Process
- Project
- Component

OSS Community

OSS Component

super

sub

belongs-to
Multiple data sources

Risk data collector

Risk data collector

Risk data collector

Risk data collector

Risk data collector
OSS adoption models
Risk models
Linking to business (i)
Linking to business (ii)
Putting all together
Current state

- Emphasis on building good risk models
  - currently, licensing and quality factors
  - analysis of impact on business goals
- Platform scenario: adoption of single component
- Future steps
  - composition of risk models
  - new scenarios
- Struggling to open asap!
For more information:

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