

#### GI - MITA 2014

#### Disaster-Readiness as Example for Ontology-based IT Management in Business Context

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# Blue Elephant Systems

- Founded 2001
- More than 100 customers worldwide
- HQ in Stuttgart
- Sales office in US, Kuwait, Brasil
- Focus IT Managment/Monitoring
- Product development
  - MIDAS boom
  - MIDAS for HPOM
- Custom development
- IT services and training

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Peter Klotz



#### Whooops where is the Computer Center?





Guatemala Citiy sinkhole Huffington Post, 2010



A **Risk** is the **Possibility** of the occurrence of a **Damage** 



# A rationale IT Risik Management requires most notably a Relationship **Management**!

#### Risk Management Cycle





#### Usecase: Disaster Readiness - Cluster





#### Chasm in IT





# Why use Ontologies for IT Management?

- Iterative modelling
  - add properties later
- Different views on the same instance model
  - company-specific data model and still talk about same thing
- UML is made for modelling software, OWL for concepts and systems
  - constraint-based or set-based class definitions
  - one individual can have multiple classes
  - modelling like a human: example red wine
- Built-in integration capabilities
  - OWL sameAs





#### Riskmanagement Ontology





#### **IT Business Model**





#### **Reference Architecture**





#### Semantic IT Risik Management



BIUF

#### Ontologies for IT Monitoring Integration





#### Practical Integration with Ontologies





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#### Ontologies allow multiple Views





#### Enrichment









- Risk-Management: disaster-readiness in HA-systems
- Cost-Management: service costing and allocation based on infrastructure management data
- Technology and IT knowledge and lifecycle management
- License and contract management
- Consistency of ITOM applications and CMDBs
- Outsourcing decisions and supplier management
- IT automation
- Transparently extending ITOM applications with custom concepts
- IT operations and maintenance

#### Blue Elephant Systems







# Vielen Dank für Ihre Aufmerksamkeit! BLUE ELEPHANT SYSTEMS

