Visual Model Analysis

Dr. Aurelijus Morkevicius

Speaker

Dr. Aurelijus Morkevičius, aurelijus.morkevicius@nomagic.com

- *Head of Solutions Department @ No Magic Europe*
- *Chairman and one of the leading architects* for the current **OMG UPDM (UAF) standard** development group

Works with companies such as General Electric, Bombardier Transportation, John Deere, BAE Systems, BMW, Deutsche Bahn…
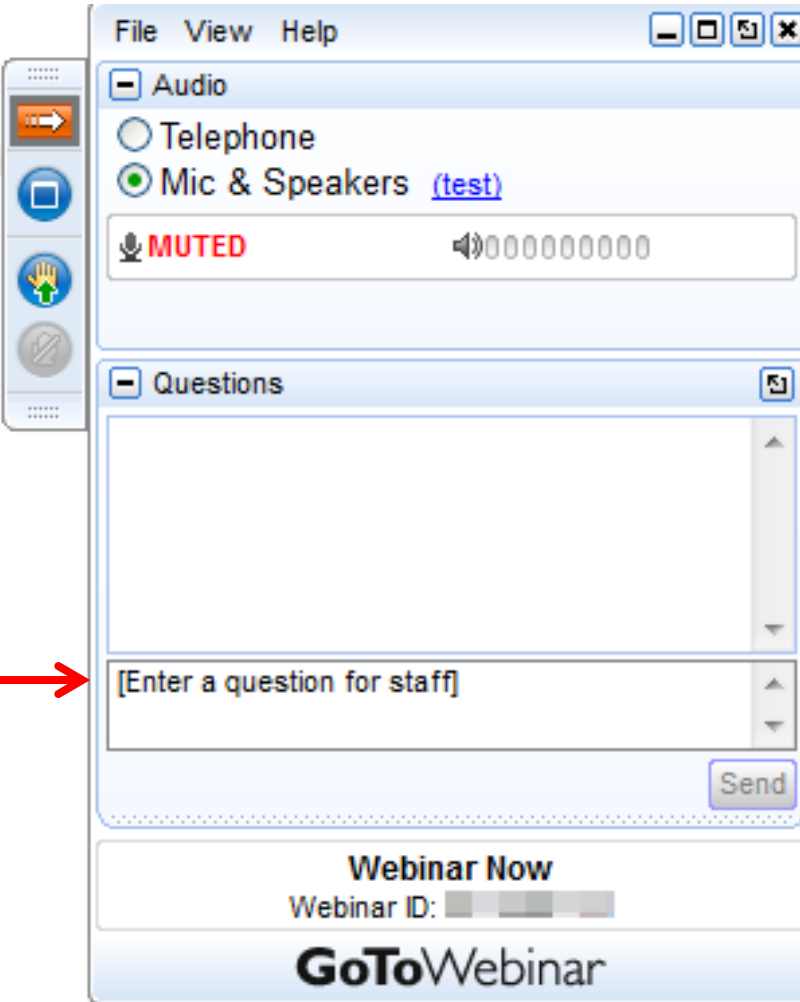
Holds the following professional certificates:

- OMG Certified Expert in SysML (OCSMP)
- OMG Certified UML Professional
- OMG Certified Expert in BPM
- Professional Scrum Product Owner

Holds PhD. in Informatics Engineering

Q&A: Type your questions here

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The Truth is in the Models™

Aims and objectives

- **Introduce visual model analysis capabilities**
- **Explain how model queries are built and why they are useful**
- **Explain coverage and impact analysis techniques**
- **Present tool features:**
  - Dynamic relation maps
  - Query Editor
  - Dependency Matrices
  - Generic tables
  - Model metrics
  - Suspect links

Modeling Culture
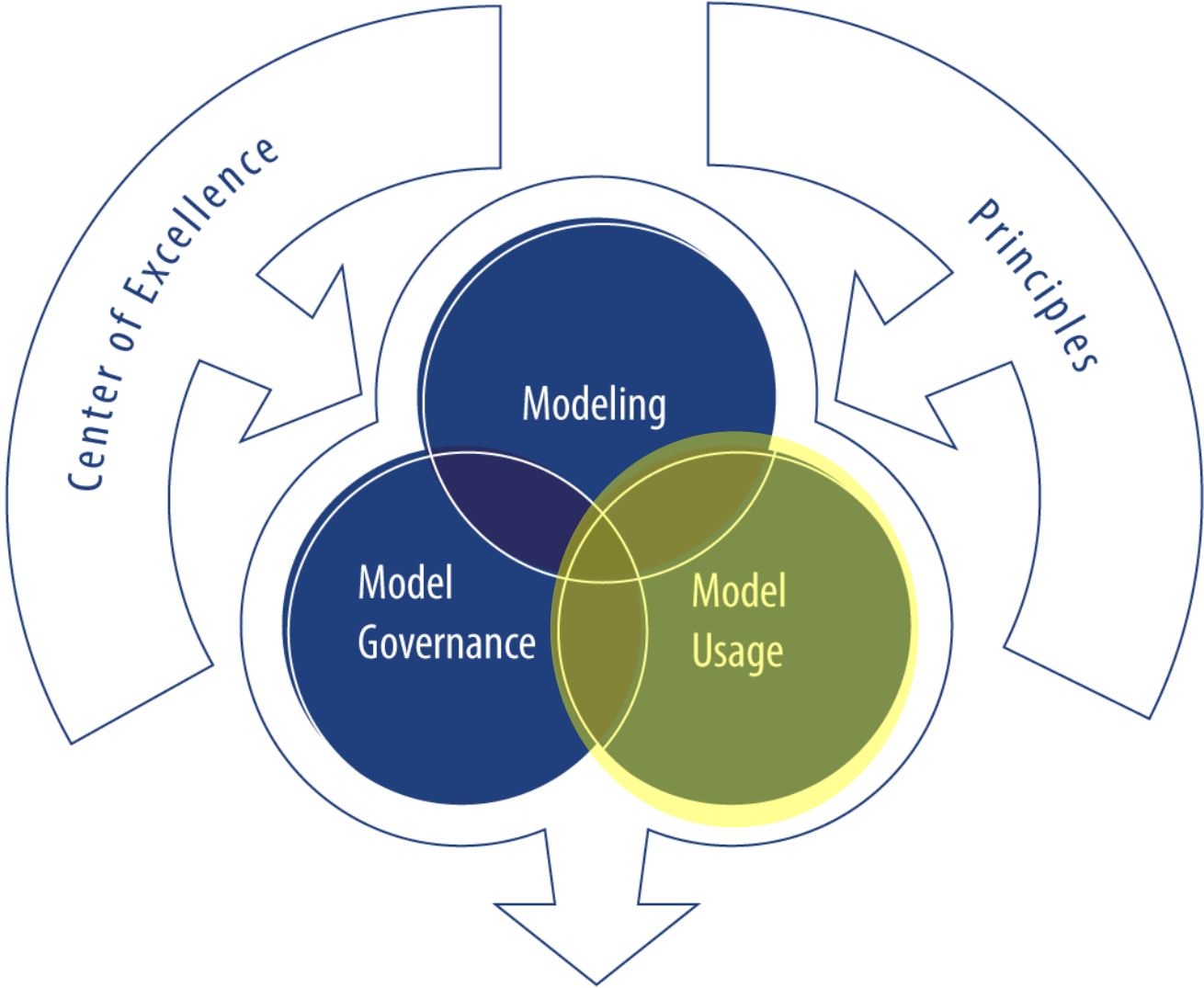
High Value from Modeling and Models

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Model Usage Examples

- Model reviews
- Document generation
- Impact Analysis
- Coverage Analysis
- Automated Requirements Verification
- Trade Studies
- Behavioral Simulations
- Testing
- UI Mock-ups
- Code Generation

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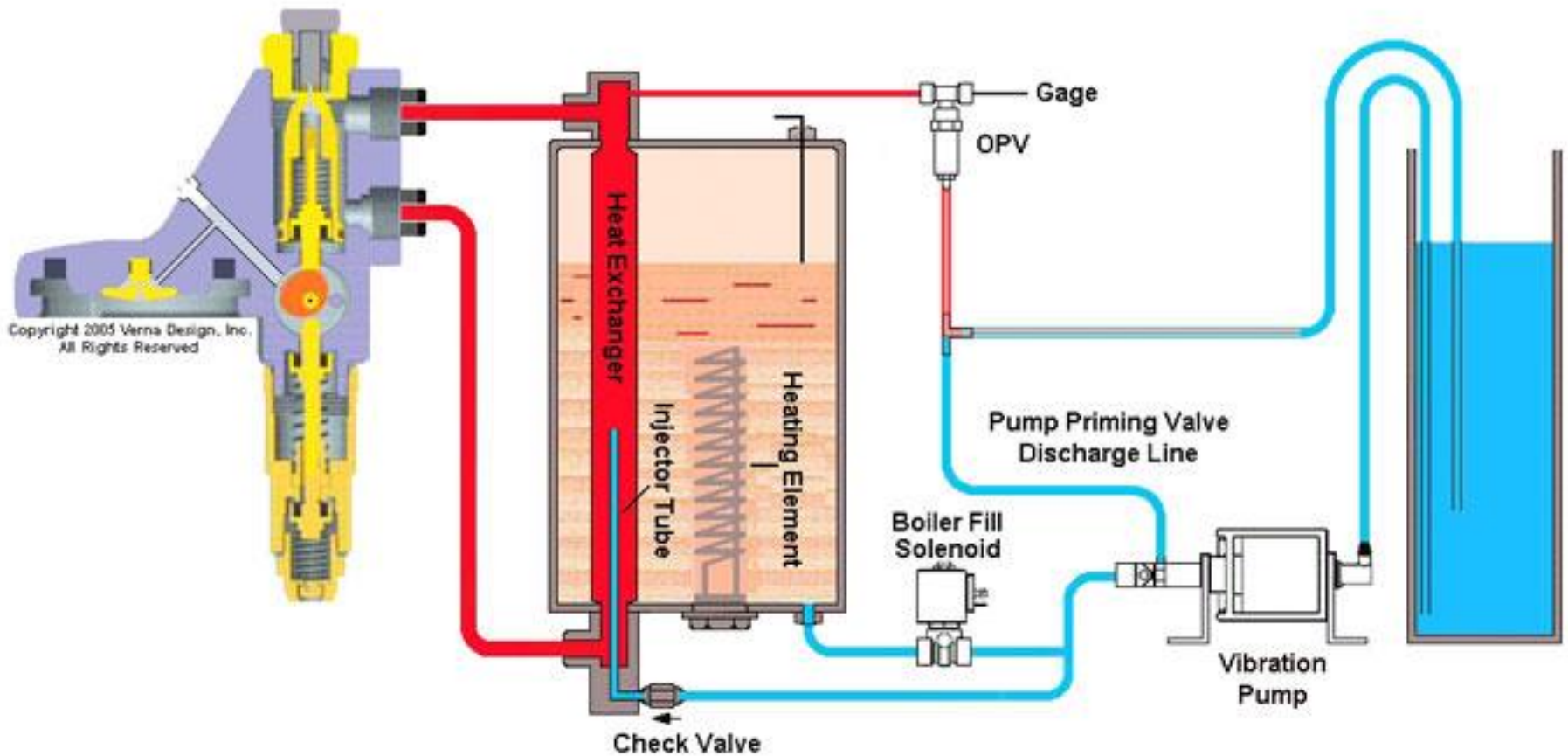
Why Visual Model Analysis

- **Visual Model Analysis:** Decisions are made by modeler based on the visualized model content

- **Improves Change Management**

- **Assists Project Status Tracking**

- **Ensures Specification Completeness and Consistency**

- **Helps to Discover Defects in Early phases of product development**

The Truth is in the Models™

Live Demo!

The Truth is in the Models™

Case Study: Coffee Machine

Amateur vs. Professional