



Visual Model Analysis

Dr. Aurelijus Morkevicius

Speaker



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- *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...**



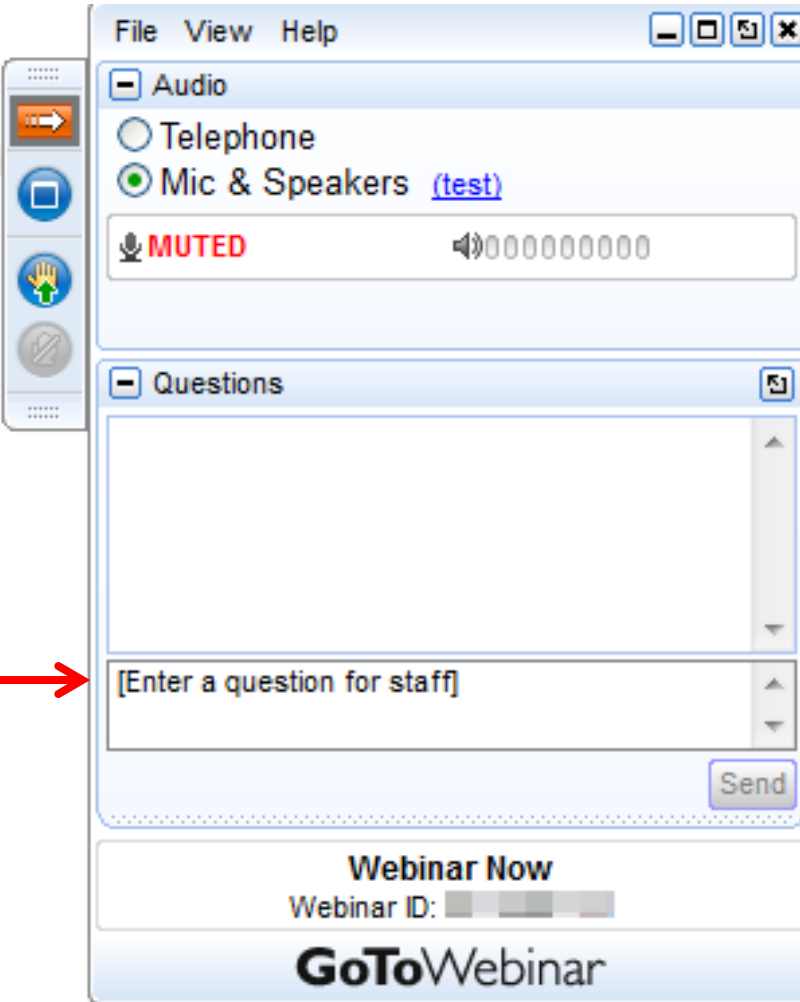
Holds the following professional certificates:

- **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



The screenshot shows a software window titled "File View Help" with standard window controls. It contains two main sections: "Audio" and "Questions".

- Audio Section:** Includes radio buttons for "Telephone" and "Mic & Speakers (test)". Below this is a "MUTED" indicator with a microphone icon and a volume slider set to 0.
- Questions Section:** A large text input area with a scroll bar. At the bottom of this area is a text prompt: "[Enter a question for staff]". A red arrow points to this prompt. To the right of the input area is a "Send" button.

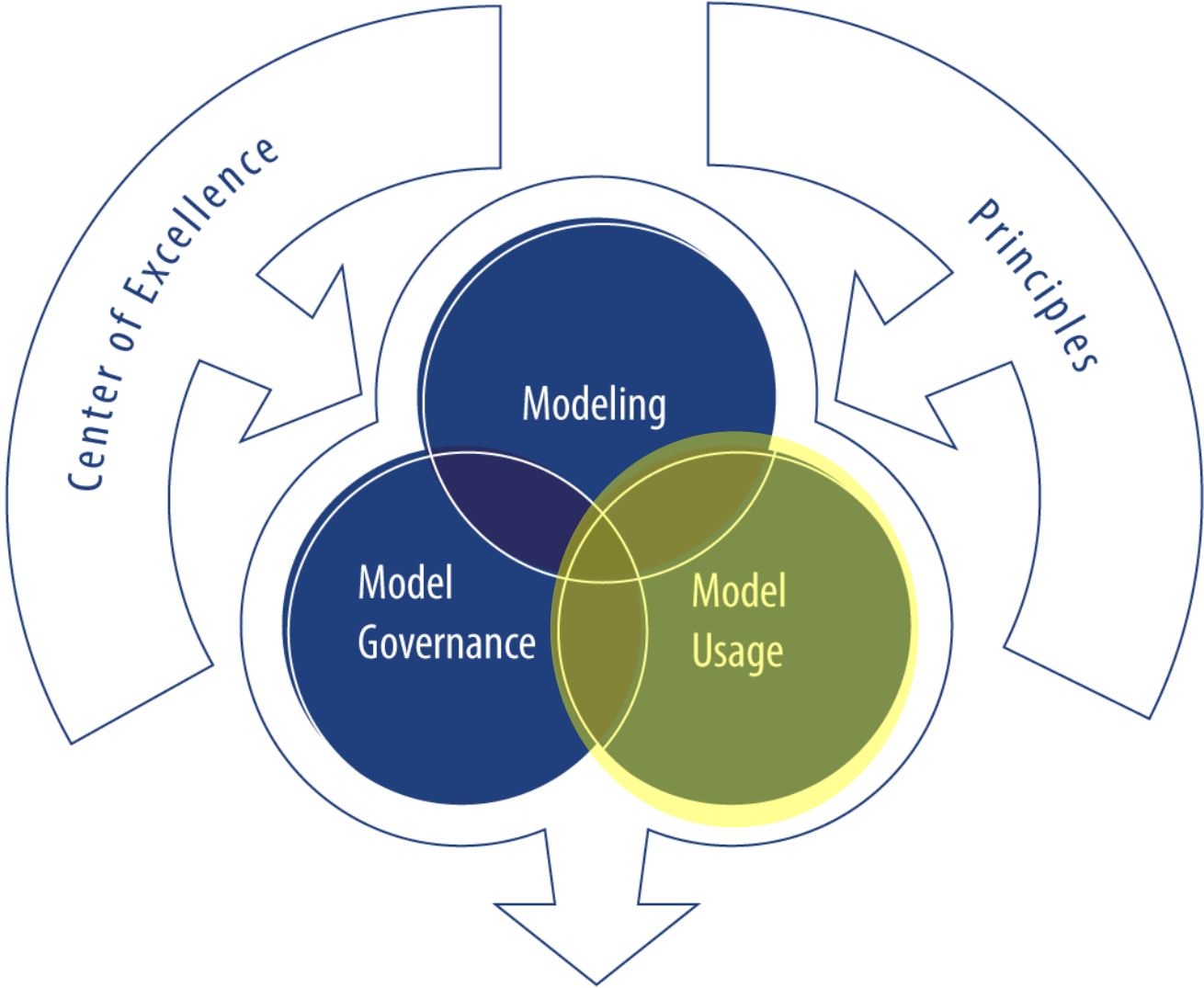
At the bottom of the window, it displays "Webinar Now" and "Webinar ID: [redacted]". The "GoToWebinar" logo is at the very bottom.

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



Model Usage Examples

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

Why Visual Model Analysis

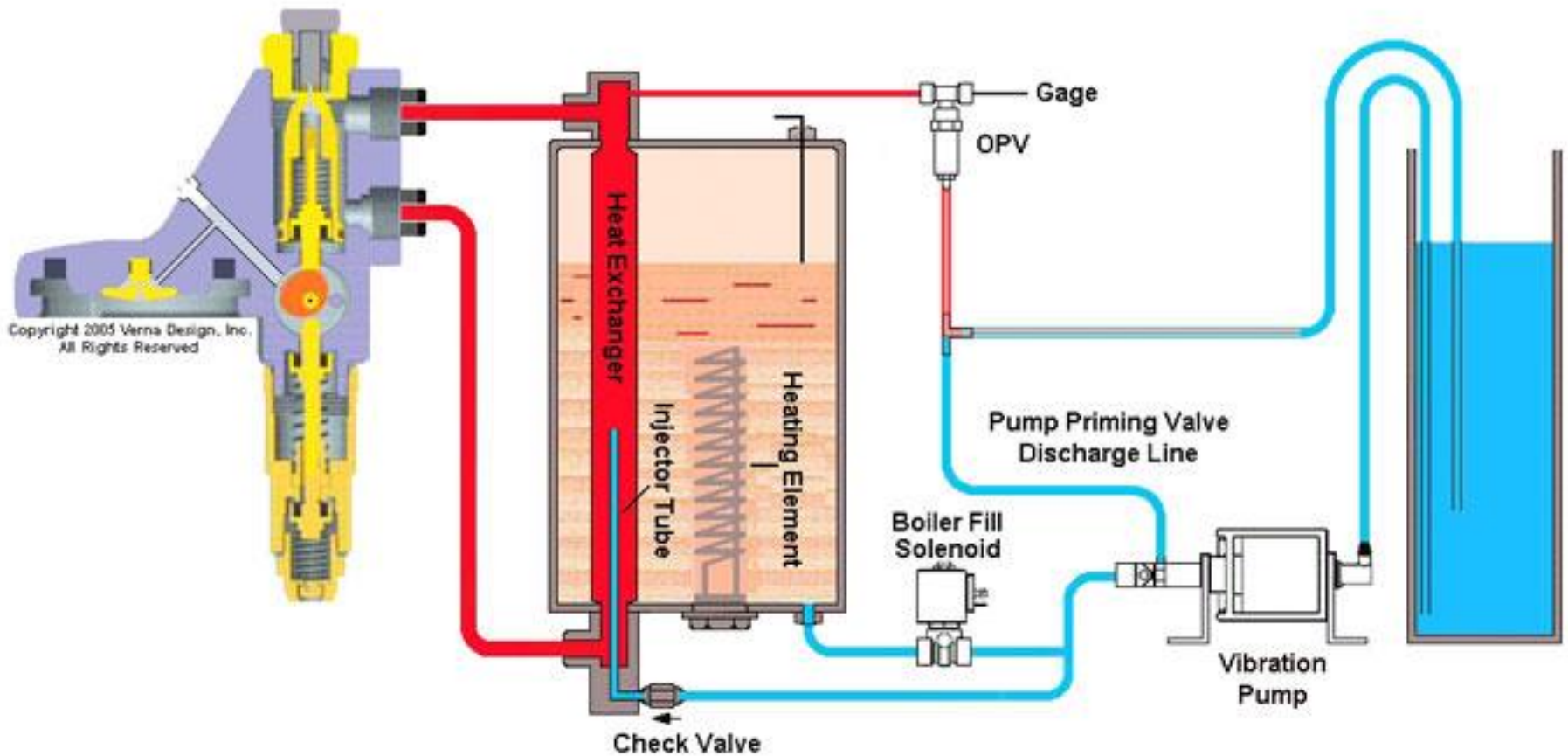


- **Visual Model Analysis:** Decisions are made by modeler based on the visualized model content
- **Improves Change Management**
- **Assists Project Status Tracking**
- **Ensures Specification Completeness and Consistency**
- **Helps to Discover Defects in Early phases of product development**

Live Demo!



Case Study: Coffee Machine



Amateur vs. Professional

