

#### Briefing



- MISSION 1: Find Gap and Evaluate Impact Faster
- MISSION 2: System Models Translation Into Business Language
- Special agent-based software
- Code name: Gen Al
- Debriefing



#### **Operational Team**



Data Science Expert Wordup development AG

Al and LLM Applications, Data Management and Governance, DevOps and Machine Learning Pipelines (ML Ops)



PIERO CIANCIA

Systems Engineering Expert Ciancia Consulting Partner

Requirements Engineering,
Systems Architecture, System of
Systems, Model-based Systems
Engineering (MBSE)

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#### MISSION 1: Find Gap and Evaluate Impact Faster



- Regulated environments require documentation
- Project documentation is extensive
- Finding critical points is of utmost importance

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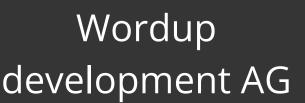




#### MISSION 1: Find Gap and Evaluate Impact Faster

- Requirements and architecture change
- Efficient analysis of the effects
- Identification of new risks and opportunities









MISSION 2: System Models Translation Into Business

Language

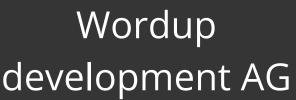
#### **MBSE Promise**

- System models = technical descriptions
- Traceability improves analysis
- Single source of truth



#### **MBSE Challenge**

- Model creators"own" their models
- Communication is still an obstacle
- Large models are difficult to navigate





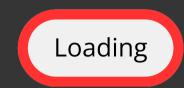




# Special agent-based software: Use Gen AI to explain System Models to all Stakeholders



#### Step 1: Securely upload an XMI file of your Model



Indexing

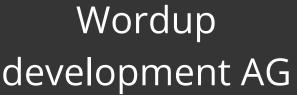
Storing

Querying

Evaluating



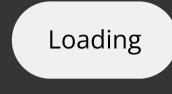


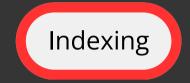




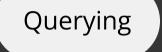


#### Step 2: Agent-based software indexes Model





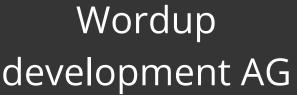
Storing



Evaluating





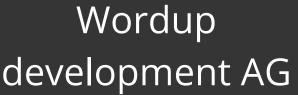






#### Step 3: Indexed data stored in a secure database

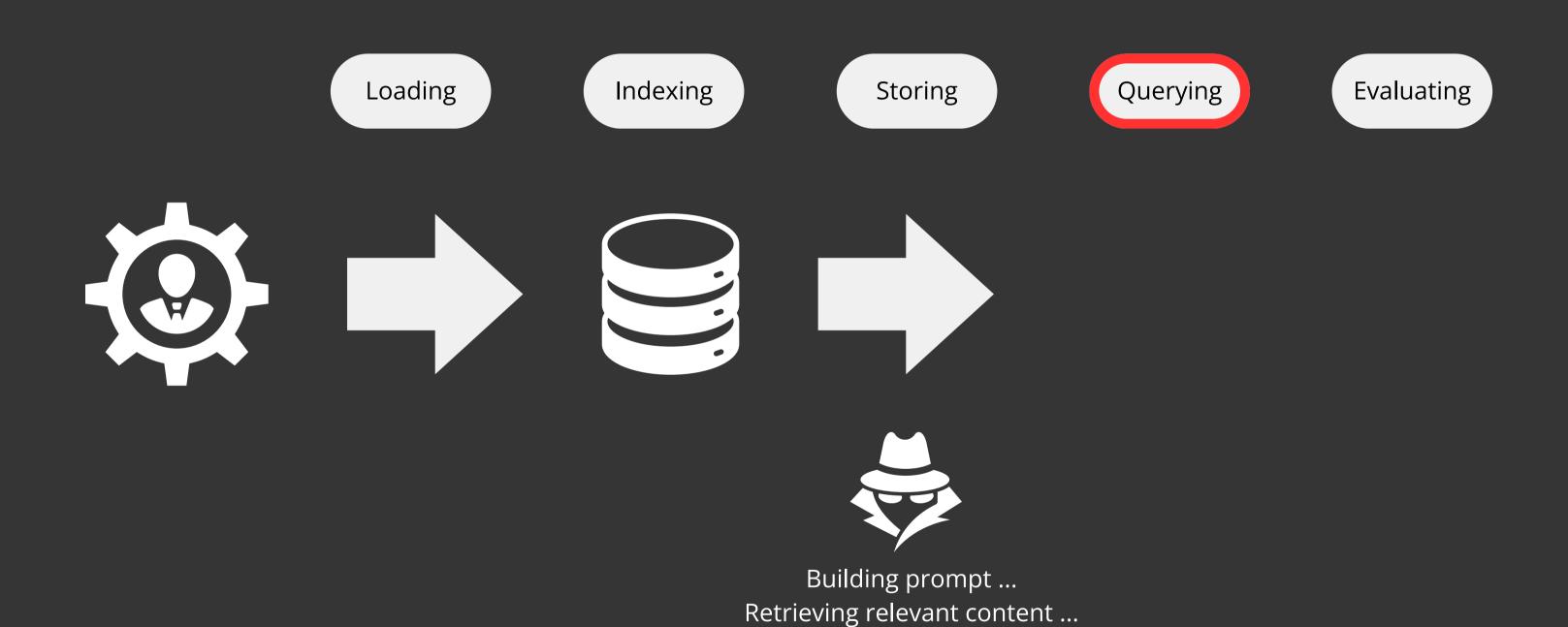


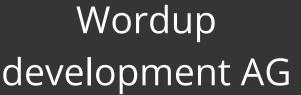






#### Step 4: Agent-based software queries database

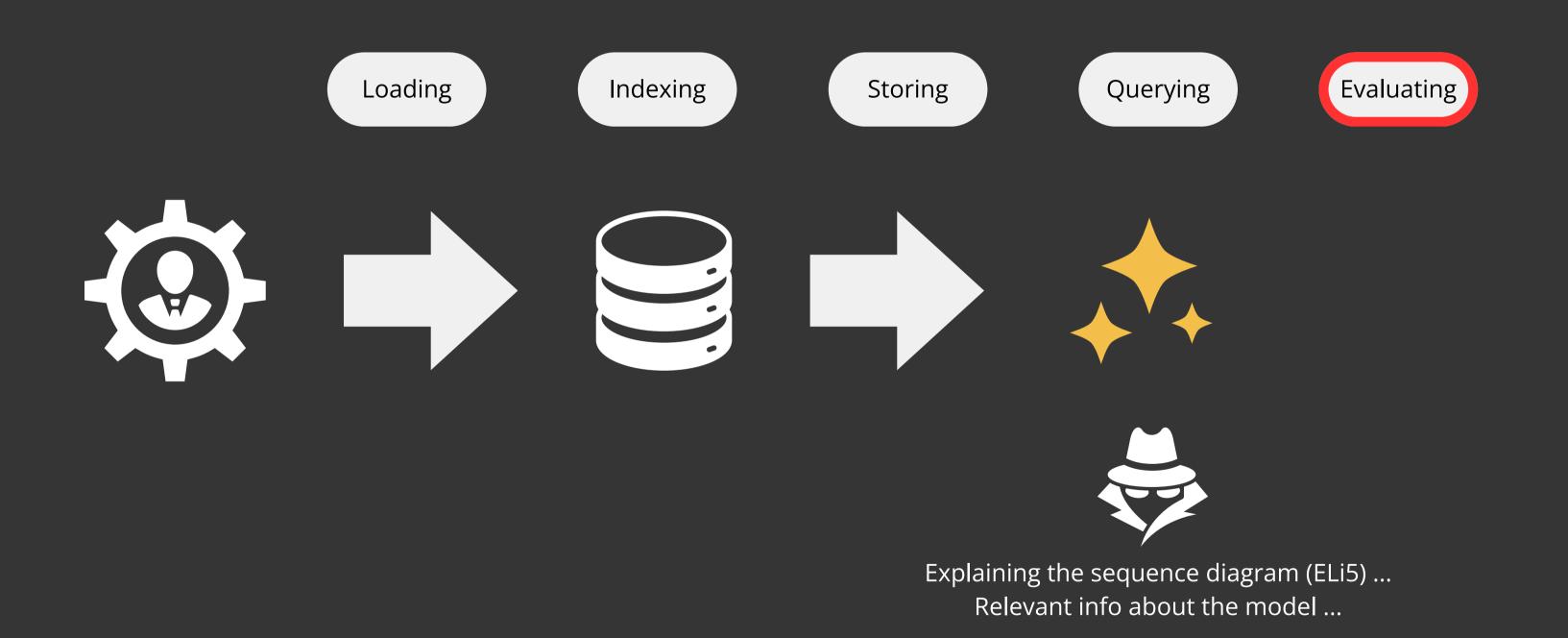


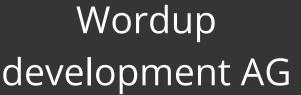






#### Step 5: Gen Al produces factual content

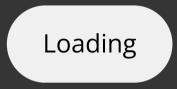




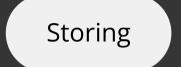


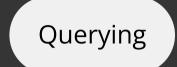


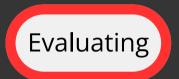
## With Special Agent software: Intelligence in == Intelligence out



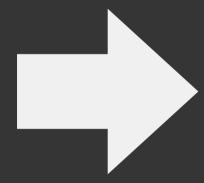




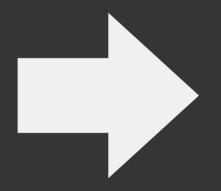




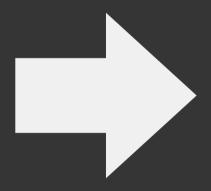






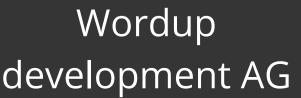










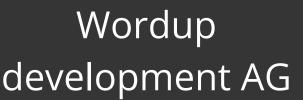






# Without Special Agent software: Garbage in == Garbage out









### Debriefing









"Model-based" Vision



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#### **Q&A Session**



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