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# Task Area 2 Measures

### 1. Algorithm Knowledge Graph

- 2. Open Interfaces
- 3. Benchmark Framework
- 4. CSE Workflows





# Measure 1: Algorithm Knowledge Graph

Progress Report:

- Ontology prototype defined (Extensions and modifications may occur)
- Demonstrator 1: Model Order Reduction (Under construction)
- ⊖ Demonstrator 2: Numerical Linear Algebra (In preparation)
- Demonstrator selecting (*Runge-Kutta Methods*?)
- I Frontend planning (Heavily utilizing SPARQL−over-HTTP)

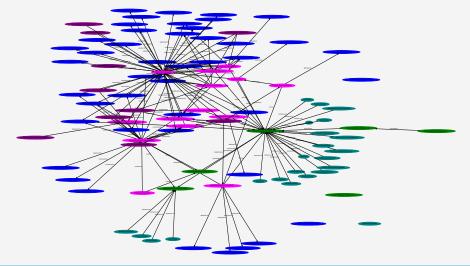
#### Technology Stack:

- 🕱 Syntax: RDF / Turtle
- 🗴 Ontology: RDFS / OWL
- 🕱 Endpoint: ARQ / Fuseki (Apache Jena)





## **Current Model Order Reduction Knowledge Graph**







### Furthermore ...

- ☑ Internal communication and regular meeting set up
- 1 Measure 2: Demonstrator selection, René Fritze (& Hendrik Kleikamp) start 2022-01
- Measure 3: Literature research, waiting for staff
- O Measure 4: Waiting for staff
- 🗂 GAMM Rundbrief (Q1 2022) writing
- 🗠 Questionaire (Q1 2022) planning
- 1 Workshop (Q3 2022) planning





