

## A system for data-control workflow execution

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## Motivation

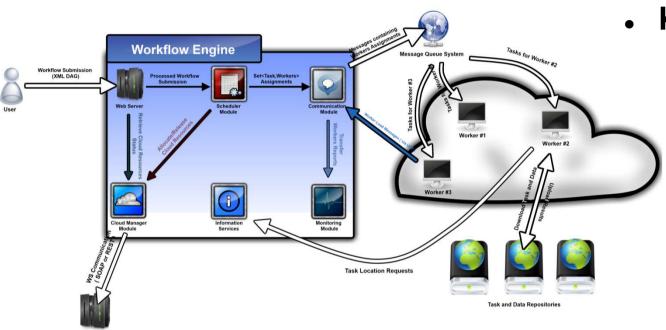
- Key features to be provided:
  - Scalability
  - Load Balancing
  - Data-Reuse

- FailureManagement
- Provenance

- Monitoring
- Results sharing

- Standalone grid and cloud environments will not match the requirements of today's computations
- Tasks have their dependencies their synchronization is essential for obtaining proper execution results
- Huge amount of data to be transferred
- Network traffic limitations
- Solution: Workflow Systems!

## System Overview



Key elements:

- Workflow Engine
- Workers
- Repositories

We would like to invite you to acquaint with our poster which contains a detailed description of our research and proposed solution.