

# **ARGO/SAM in EGI-ENGAGE**

# Messaging in EGI-InSPIRE

- A Message Broker Network based on ActiveMQ
- Two nodes: GRNET & SRCE
- Protocols used: STOMP / OpenWire
- Usage:
  - Producers: SAM Central, SAM NGI, SAM VO & APEL
  - Consumers: SAM Central, SAM NGI, SAM VO, ARGO, Accounting, OPS Portal

# Messaging in EGI-InSPIRE

- Pros:
  - A reliable transport mechanism for messages
  - Service has been very stable
  - Ability to be used by other tools

# Messaging in EGI-InSPIRE

- Cons:
  - Service upgrades are difficult and cumbersome
  - Operations are demanding
  - Implementation of custom features takes time (e.g. Authn/Authz)
  - Not as easy as expected by the tool developers

# Messaging in EGI-ENGAGE

- Provide a restful API over HTTP for clients
- Built on top of the existing Message Broker Network

# Messaging in EGI-ENGAGE

- Benefits:
  - Easier for tools and customers to use and integrate in existing services/tools
  - Simplify maintenance & scalability:
    - Add and remove REST API servers on demand
    - Maintenance of the core MBN will not have to be coordinated with all the users

# Messaging in EGI-ENGAGE

- Benefits:
  - Implementation of much wanted features:
    - Access Control
    - Message accounting
    - Better QoS handling
  - Ability to offer as a Service through a Market Place