



Steve Crouch, IGE WP3 Leader

IGE: TOWARDS A PROCESS FOR MANAGING REQUIREMENTS



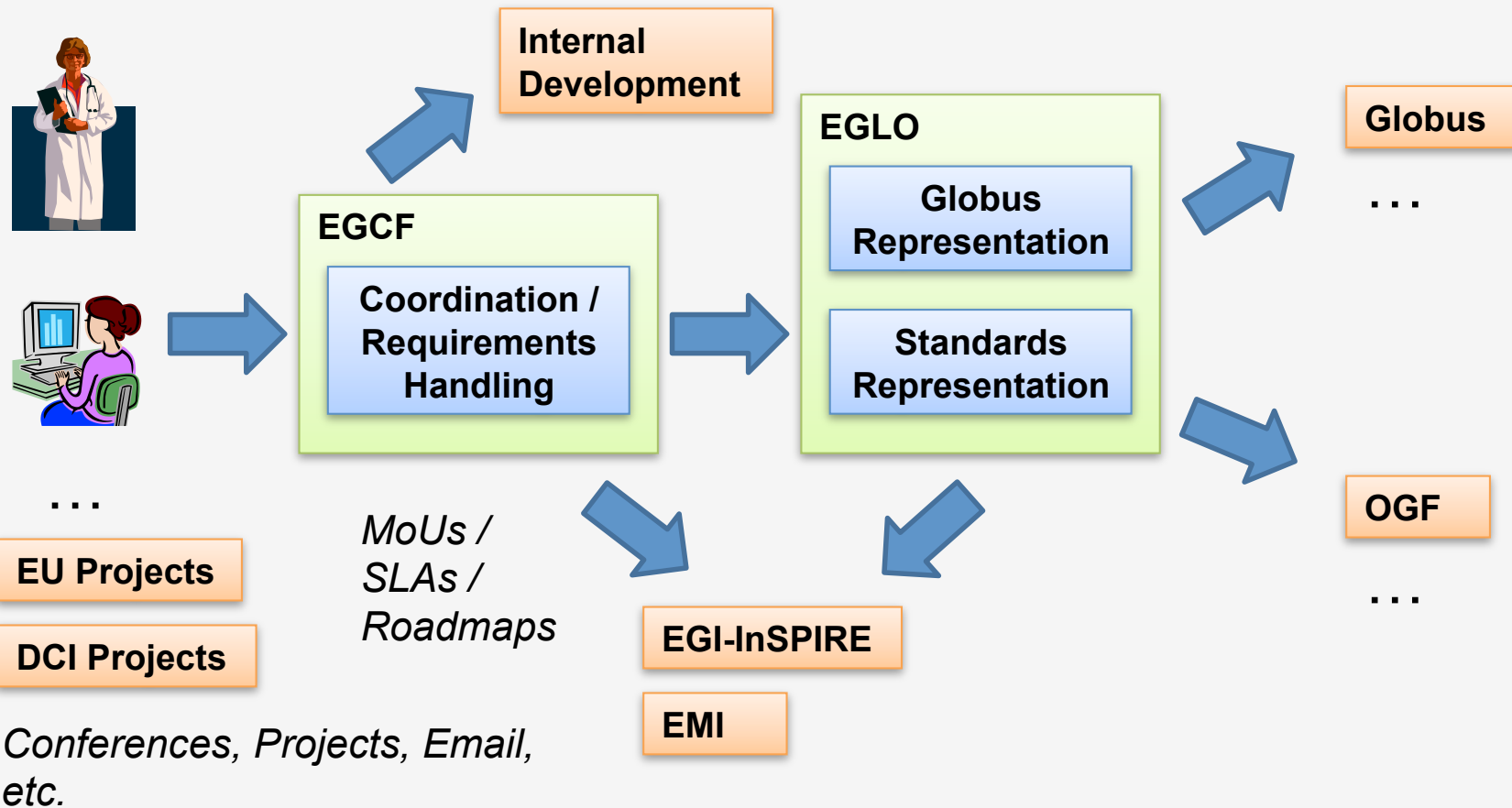
- IGE aims to address EU community needs for Globus through
 - *Development* of Globus solutions
 - e.g. standards-based Globus support
 - *Delivery* of solutions
 - e.g. through EGI's UMD
 - Must understand those communities!
- Need to address different requirement types
 - Technical: Globus, standards
 - Non-technical: legal, licensing, MoUs, SLAs
- Need for requirements representation
 - Within Globus e.g. core development team
 - Within standards bodies e.g. OGF, OASIS, W3C
- How to do this: specific WP within IGE for handling and representing requirements

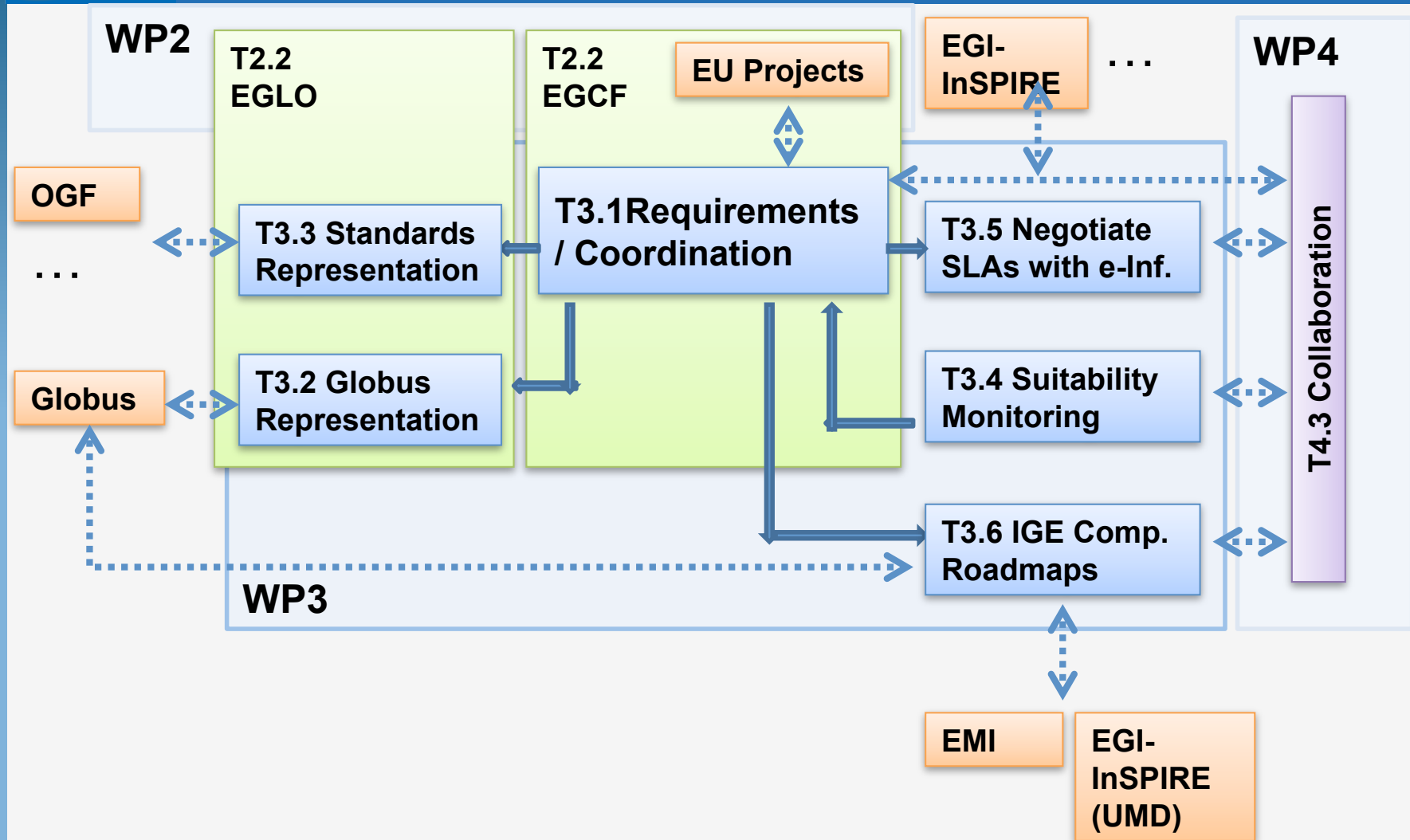
IGE: The voice of Globus community needs in Europe!



Overview – Handling Requirements through Outreach

- Two key mechanisms:
 - European Globus Community Forum (EGCF)
 - European Globus Liaison Office (EGLO)







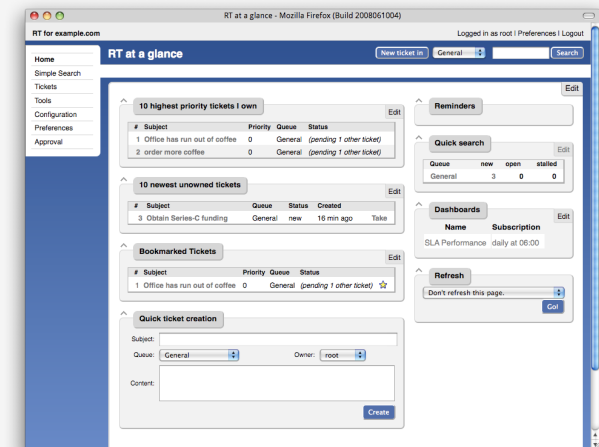
How to Handle Requirements?

- One of our first steps (and deliverables)!
- Requirements need to be (for example):
 - *Captured* from community users
 - *Understood* within community domain
 - *Categorised* as type of requirement
 - *Verified* as an outstanding requirement
 - *Delegated* for implementation/representation
 - Either:
 - *Represented* within appropriate organisations
 - *Implemented* within IGE's development activities
 - *Progressed* in a visible way
 - *Validated* when resolved – e.g. met quality criteria?
 - *Finalised* when representation is complete
- Complex lifecycle – need a well-defined publicly accessible process!



Requirements Handling Process

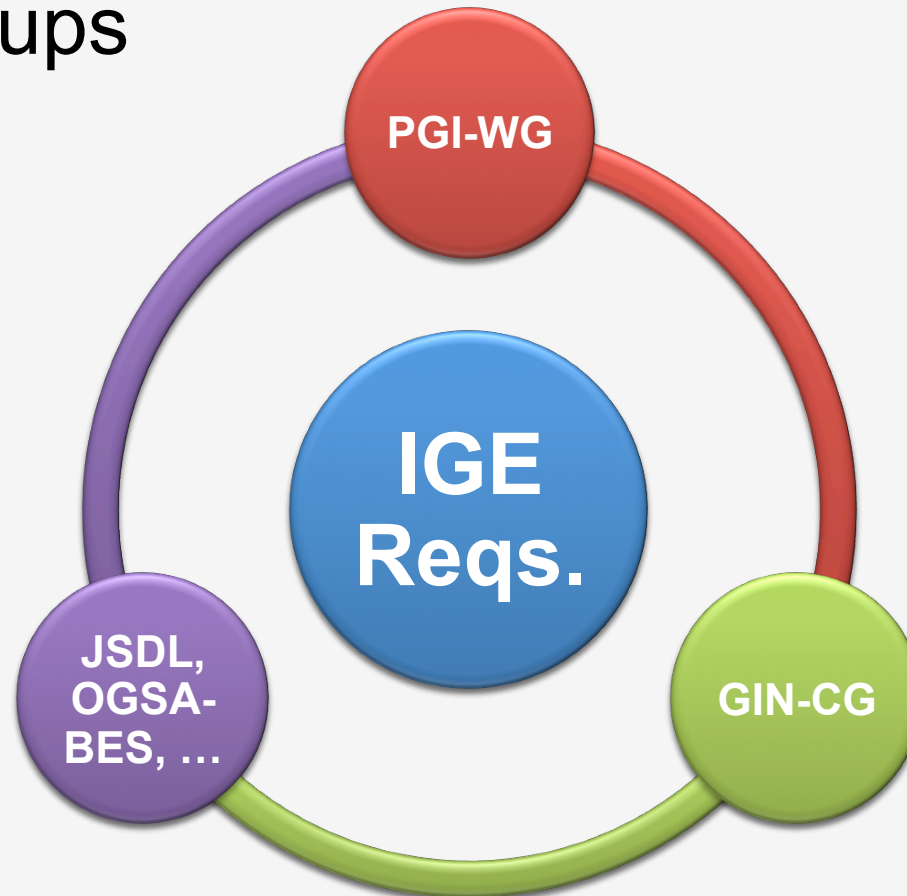
- Process needs to consider
 - Requirements lifecycle
 - Working with other requirements gathering activities across EU e.g. EGI-InSPIRE
 - Roles and responsibilities
 - e.g. delegator, delegatee(s)
 - Categorisation of requirement types and states
 - Identification of appropriate communication channels
 - Internal interactions e.g. delegation
 - Infrastructure
- Next WP3 task within IGE!





Handling Standards-based Requirements

- Number of IGE members active in many OGF groups





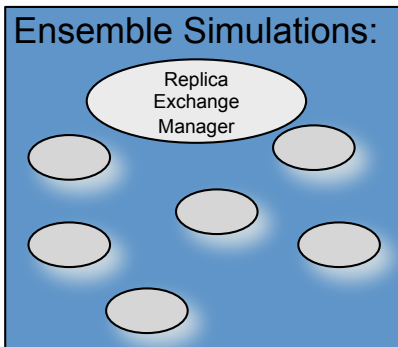
Use Case Description



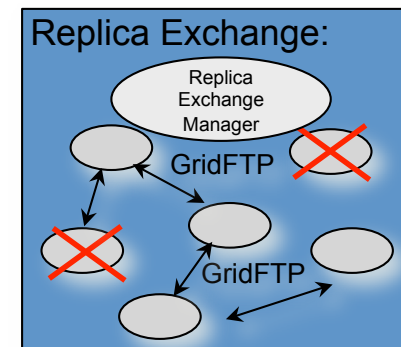
- **Goal:** Computer models of personalized patient specific healthcare.
- **Customers:** Scientists participating in the VPH project.
- **Molecular Dynamics Simulations**

Process:

1st step:



2nd step:



- Using SAGA for workflow orchestration
- Use of “pilot jobs”
- Minimal data exchange using GridFTP

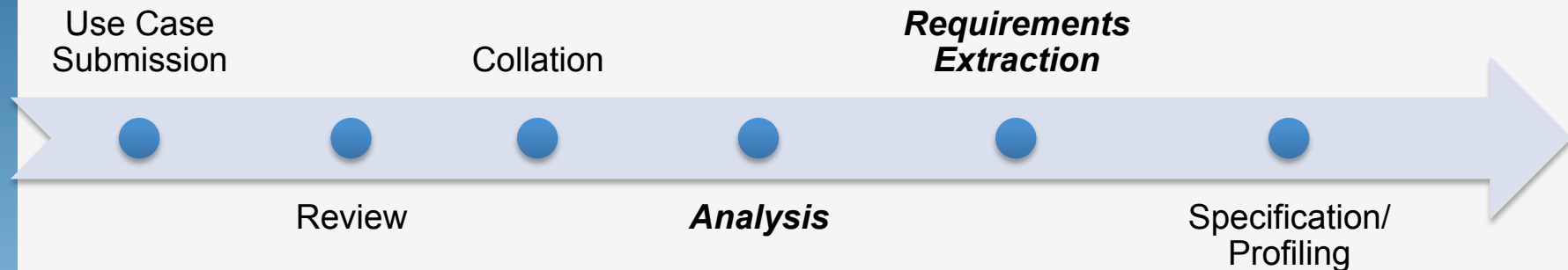
Resources:

- HPC resources from DEISA and TeraGrid

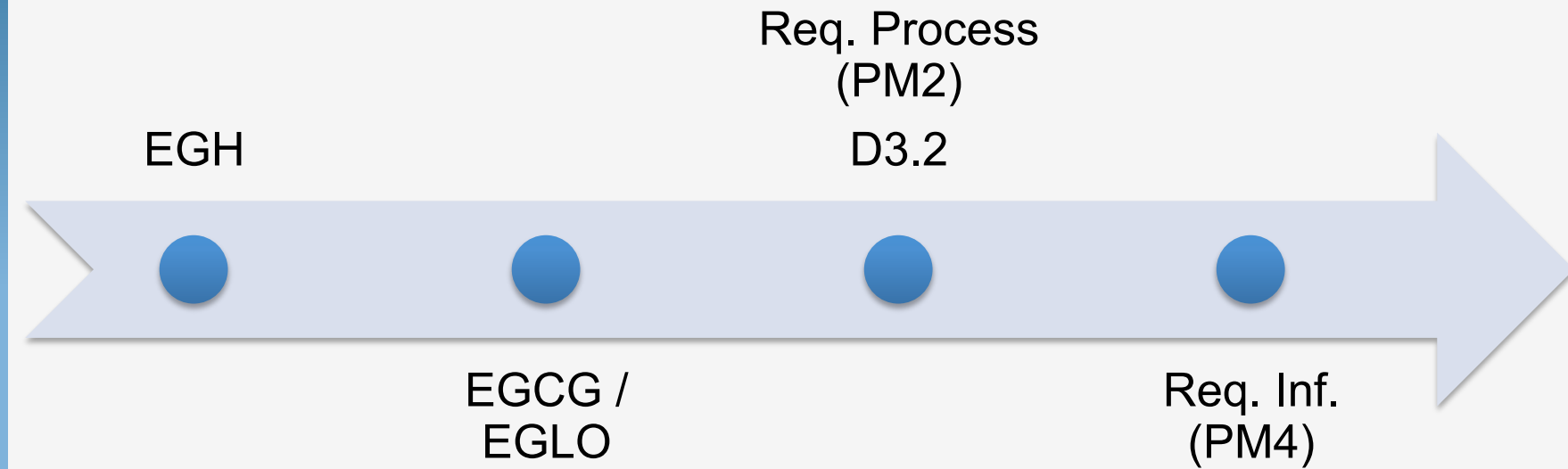


PGI-WG Use Case Submission

- PGI-WG - OGF29: back to use cases



- Process for use case authorship/review
- Enter IGE's SAGA/Globus VPH use case...
- Use case accepted for PGI-WG Use Case v1.0 document
- EGI Use Case...
 - OGSA-BES/JSDL-based interoperability
- PGI-WG – future iterations of use cases possible





Requirements Collected from DEISA



- IBM LoadLeveler Batch System Adaptor for Globus GT5 GRAM
 - already done
 - licensing issues being resolved now
 - actively used at SARA
 - to be installed at FZJ soon



Requirements Collected from EGI

- Information system
- BES, JSDL, HPC-Basic profile for GRAM5 and GridWay
- OGSA-DAI porting to GT5
- Metadata catalogue for globusonline.eu
- Lightweight file transfer agent for upload/download of files into/from Grids
- Move away from httpg to https
- User management through VOMS, connection to GT5, AdHoc as GUI frontend
- LCAS/LCMAPS for fine grained authorization