

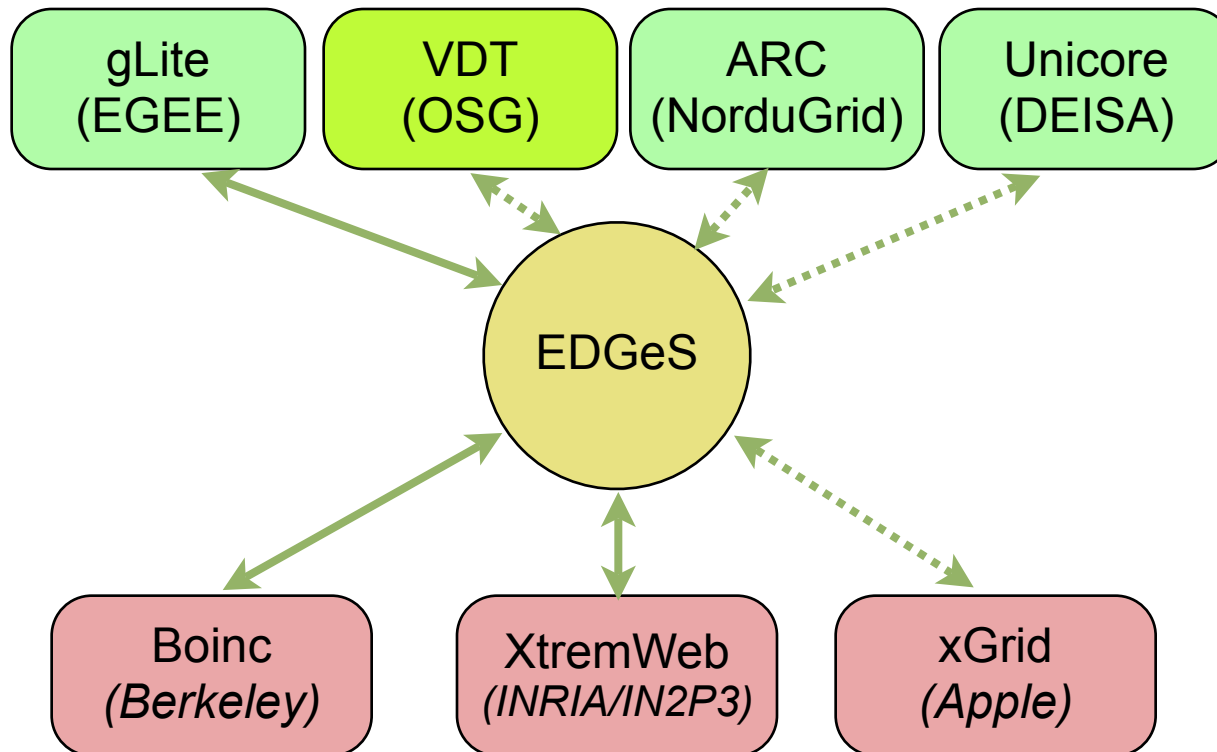
Integrating Service and Desktop Grids

OGF23 Birds of a Feather Session
Barcelona
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Goals



SG : job submission



Job Batch

Trusted resource

GIN

User submit tasks,
describing constraints
(JSDL)

Glue
OGSA

MS solves constraints

SAGA
DRMAA
Submission

Meta Scheduler impl :

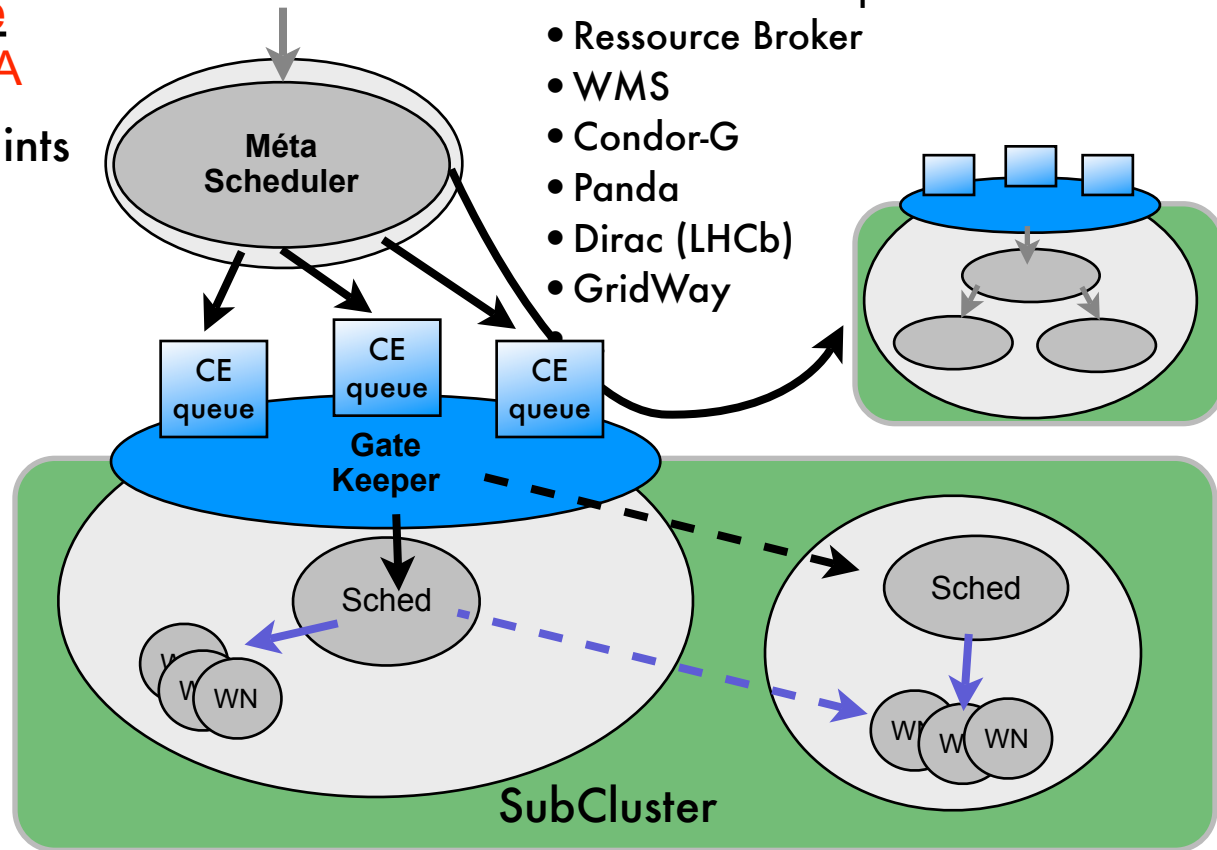
- Ressource Broker
- WMS
- Condor-G
- Panda
- Dirac (LHCb)
- GridWay

GateKeeper

- publishes VO queues
- grants WN
- uses underlying schedulers
- aggregates ressources from differents domains

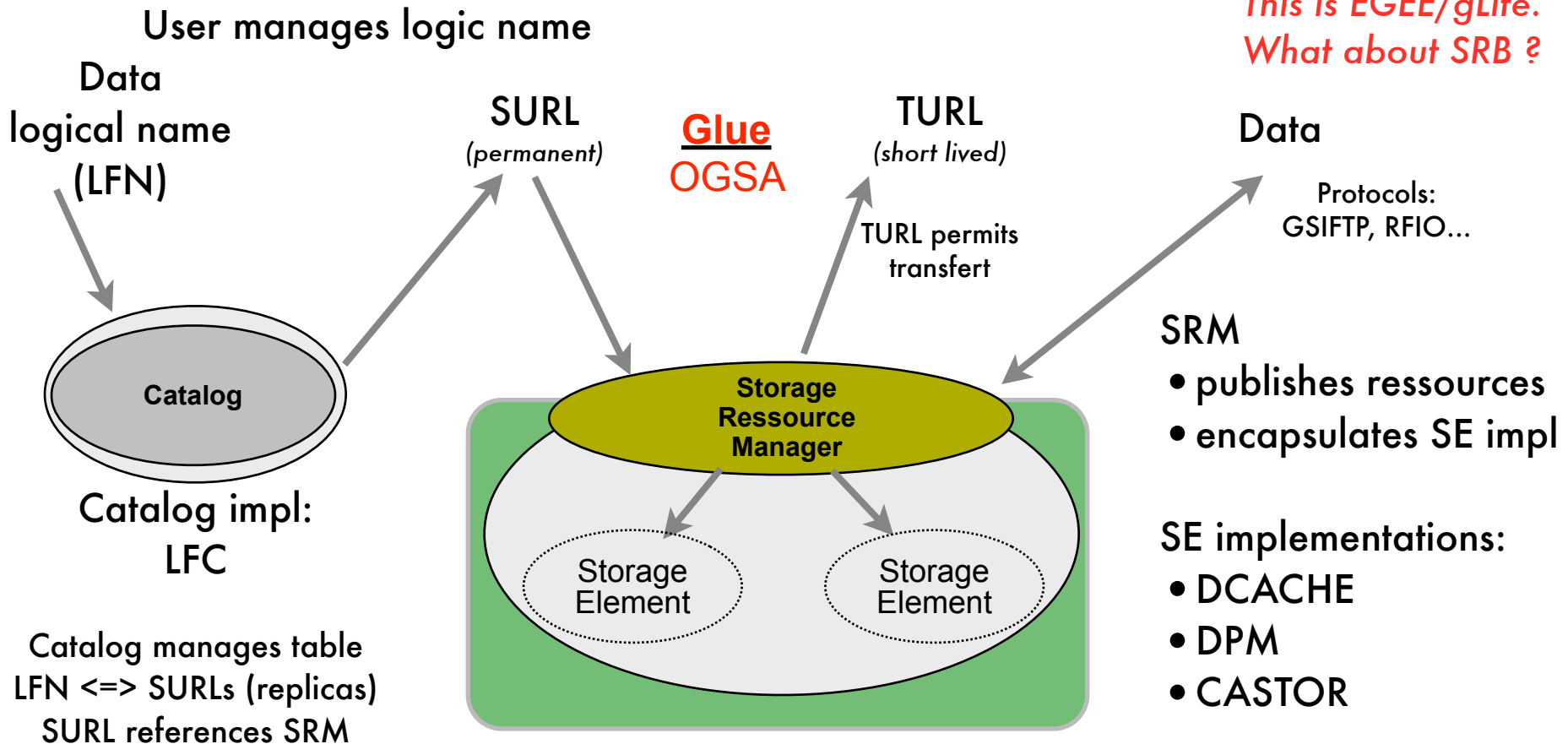
Schedulers :

- PBS
- Condor

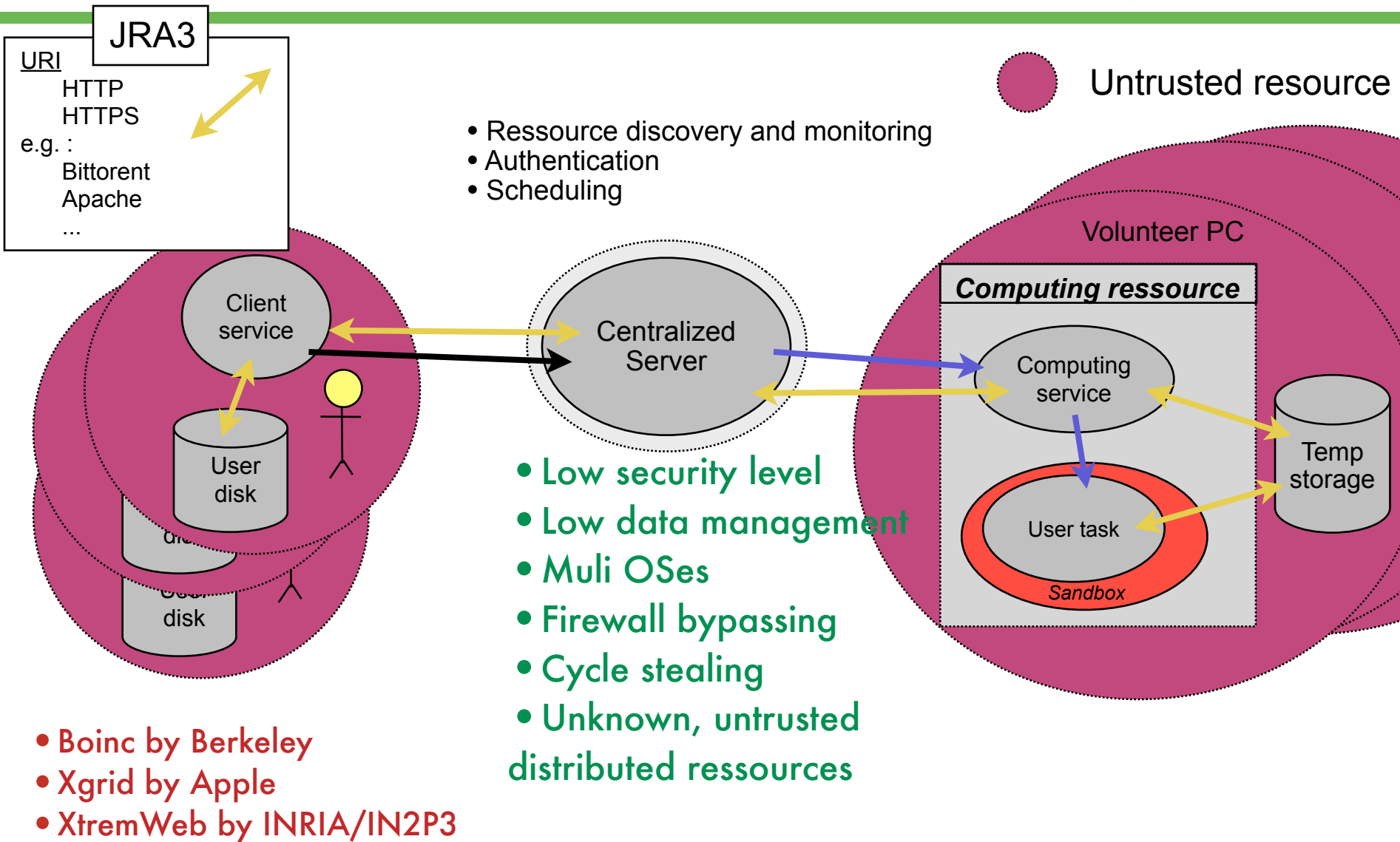


SG : data access

GSM ?



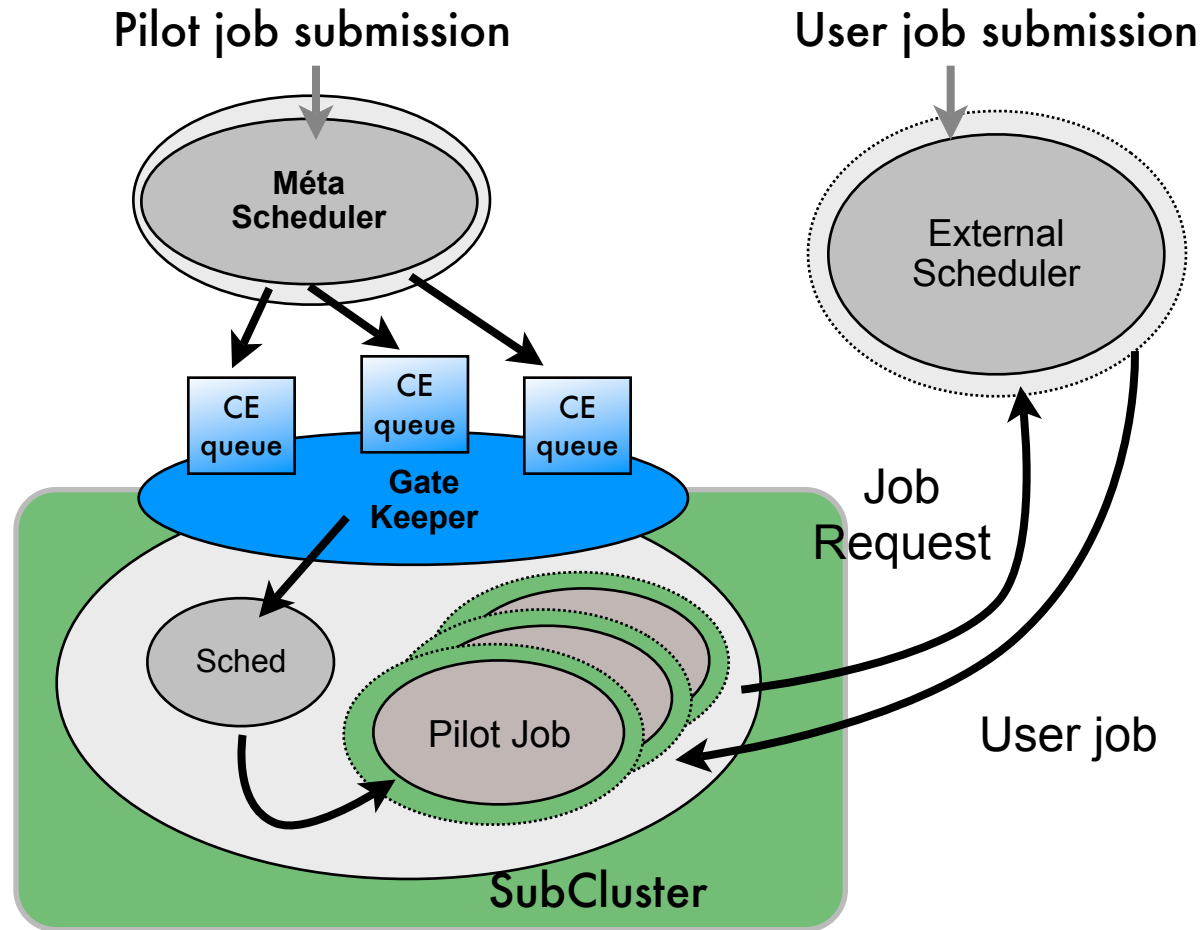
DG : job submission



DG/SG : job submission

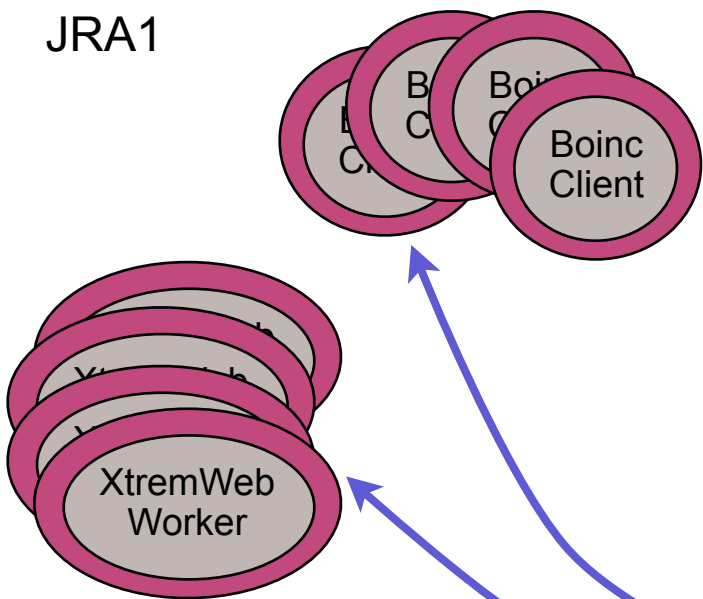
JRA1

- Alice, Atlas, Lhcb
- Boinc: Superlink-online by U of Haifa
- XtremWeb by IN2P3/INRIA

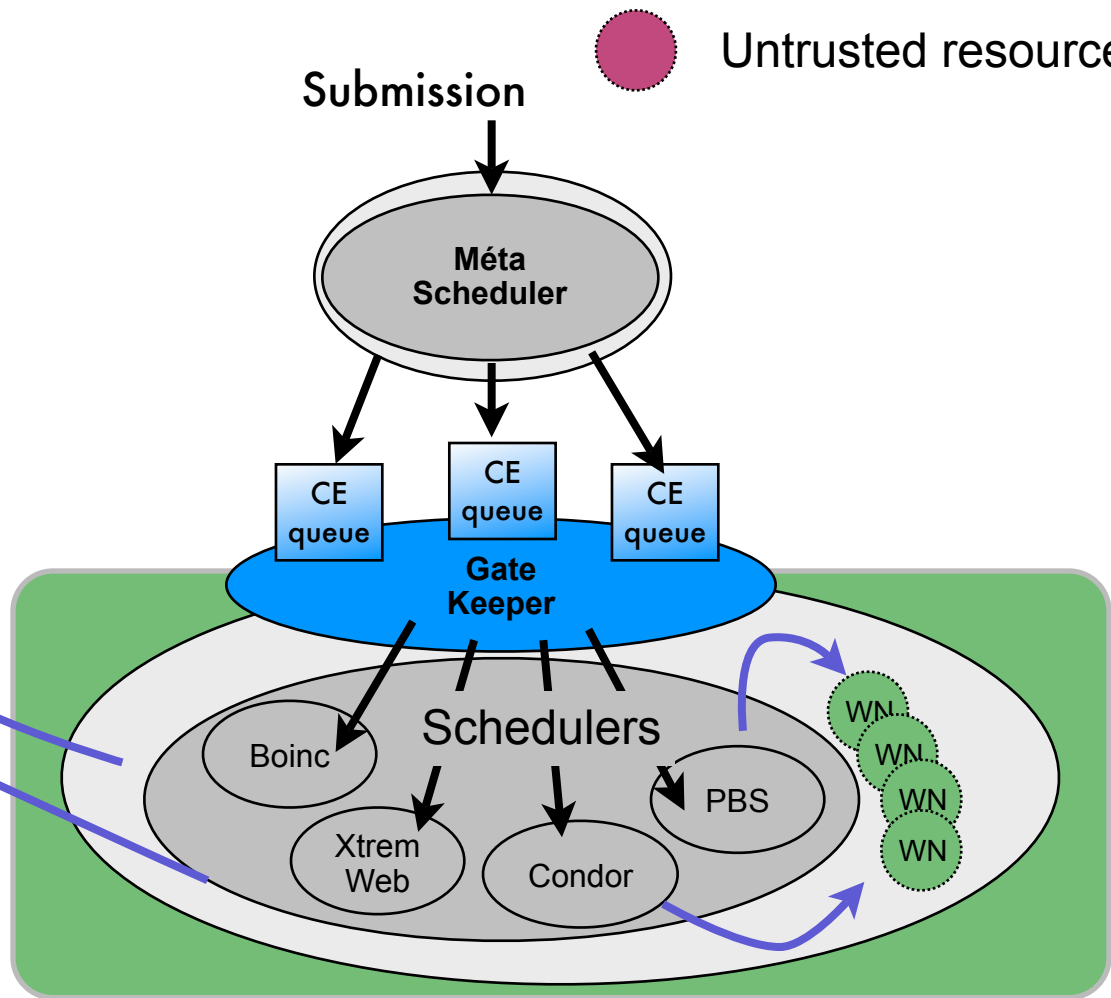


SG/DG: job submission

JRA1



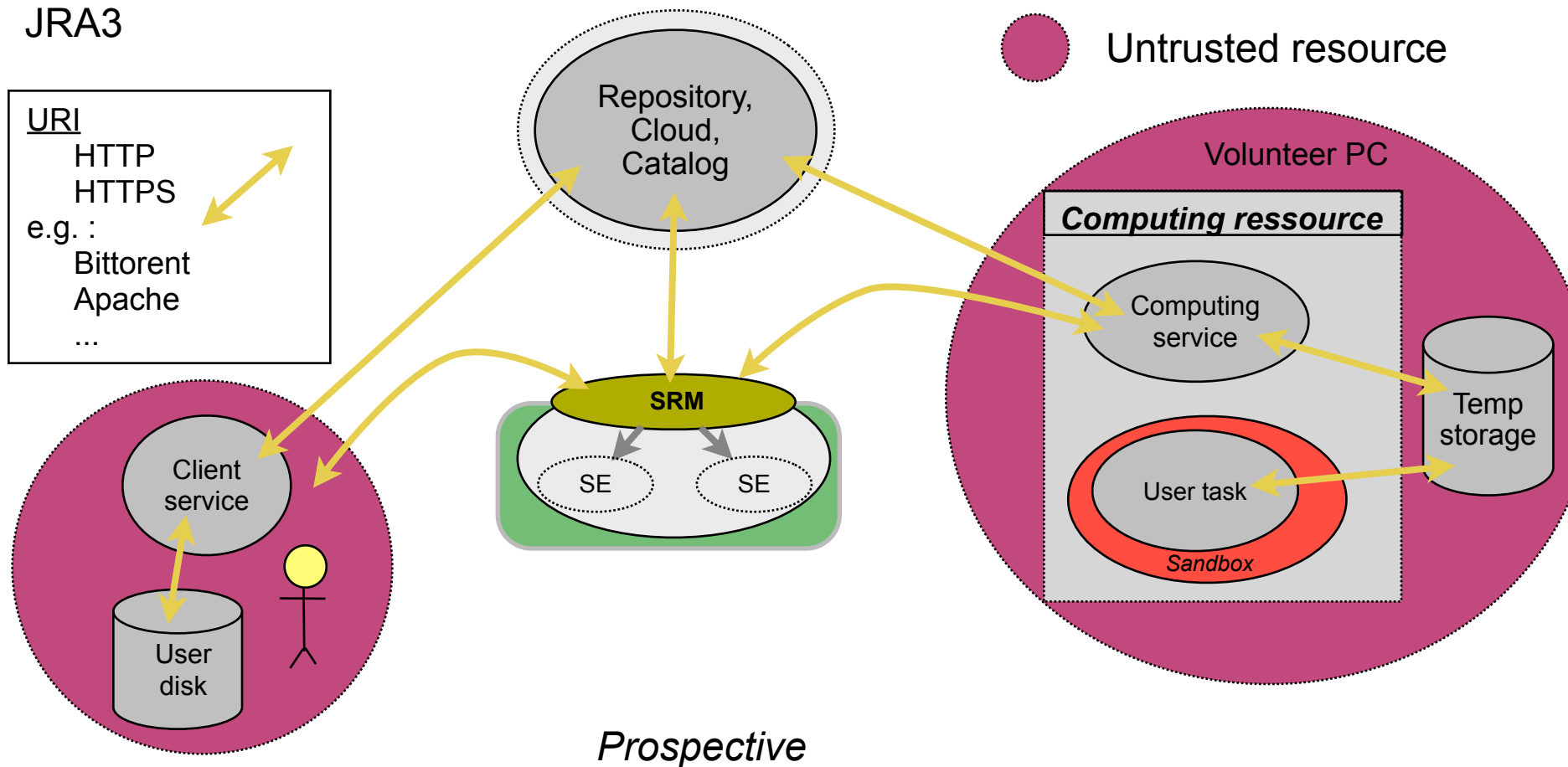
- Boinc: Lattice by U. Maryland
- XtremWeb by IN2P3/INRIA



SG/DG: data access

JRA3

URI
HTTP
HTTPS
e.g. :
Bittorrent
Apache
...



Prospective

OGF related groups

- GLUE
 - to publish values describing services
- JSDL WG
 - job submission description language
- OGSA WG
 - standardized information model in terms of services
- OGSA-BES
 - to define a Web Services-based interface for creating, monitoring, and controlling computational resources
- GSM WG
 - grid storage management
- GIN WG
 - to coordinate a set of interoperation efforts among production Grids interested in interoperating in support of applications that require resources in multiple Grids
- DRMAA
 - an API for job control over Distributed Resource Manager
- SAGA
 - high level API for grid application developers; job, resource and data management