

EUMEDGRID Infrastructure

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*SEE-GRID-2: Regional Grid projects concertation
workshop EGEE'07
Budapest 1-5/10/07*



FP6_2004_Infrastructures_6-SSA-026024



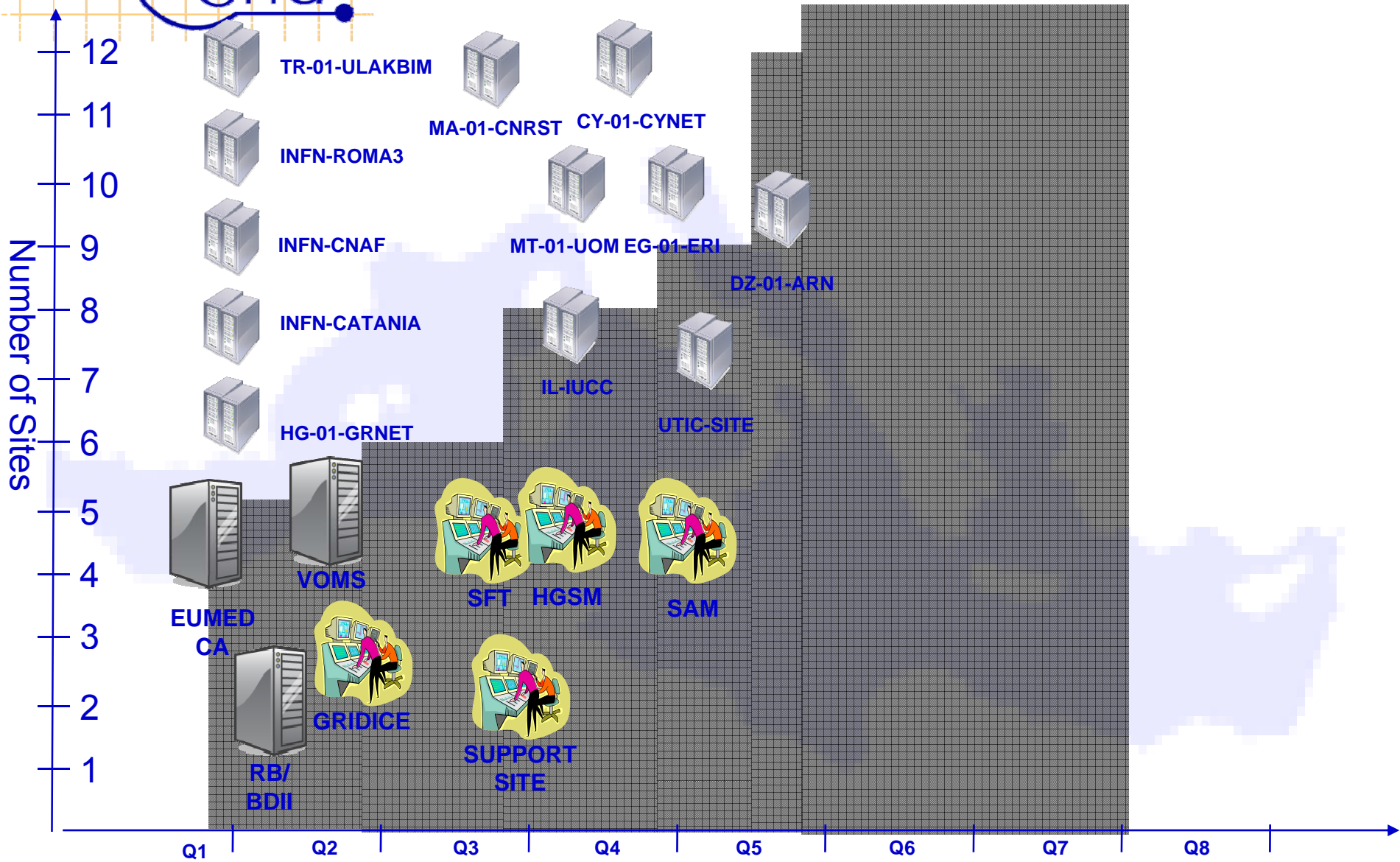


The EUMEGRID infrastructure

- ▶ 15 Sites (13 in production 2 joining now)
- ▶ 1425 CPU, 70TB Storage
- ▶ 12 Countries participating: Algeria, Cyprus, Egypt, Greece, Italy, Jordan, Malta, Morocco, Palestine, Syria, Tunisia, Turkey)
- ▶ 9 Regional Applications deployed: GROGET, HERO, HuM2S, JP2_GRID, MINSP, PAREL, SACATRIGA, SymCommSys

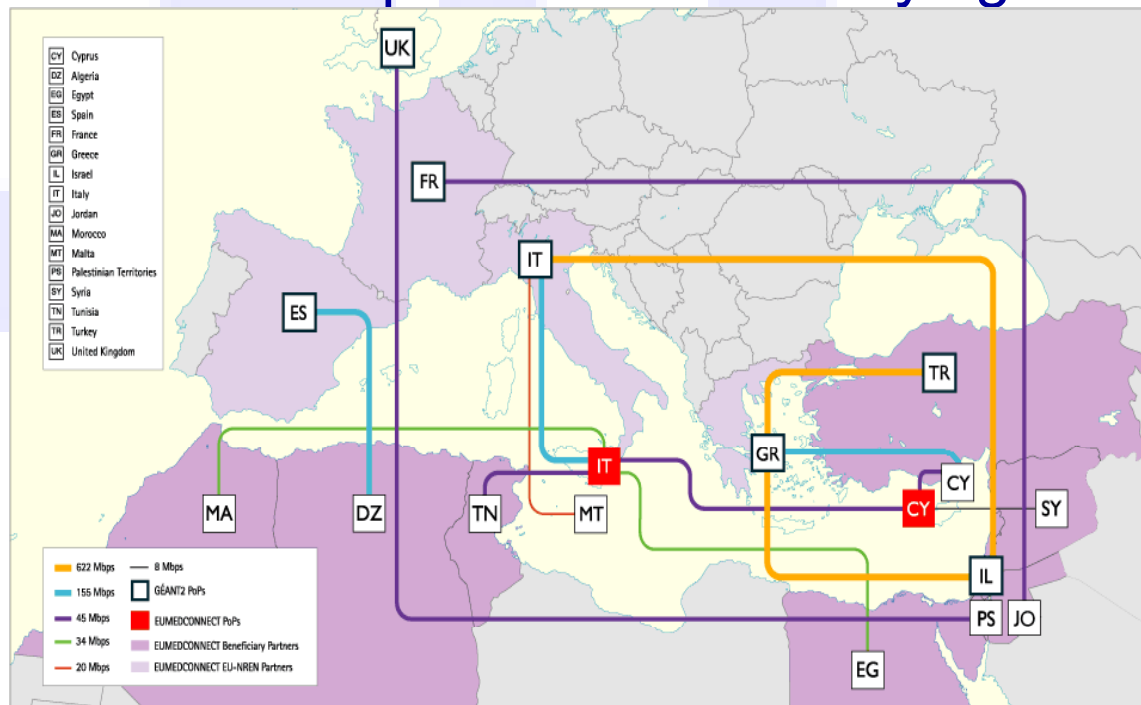
EUMED Grid

EUMEDGRID Infrastructure Timeline



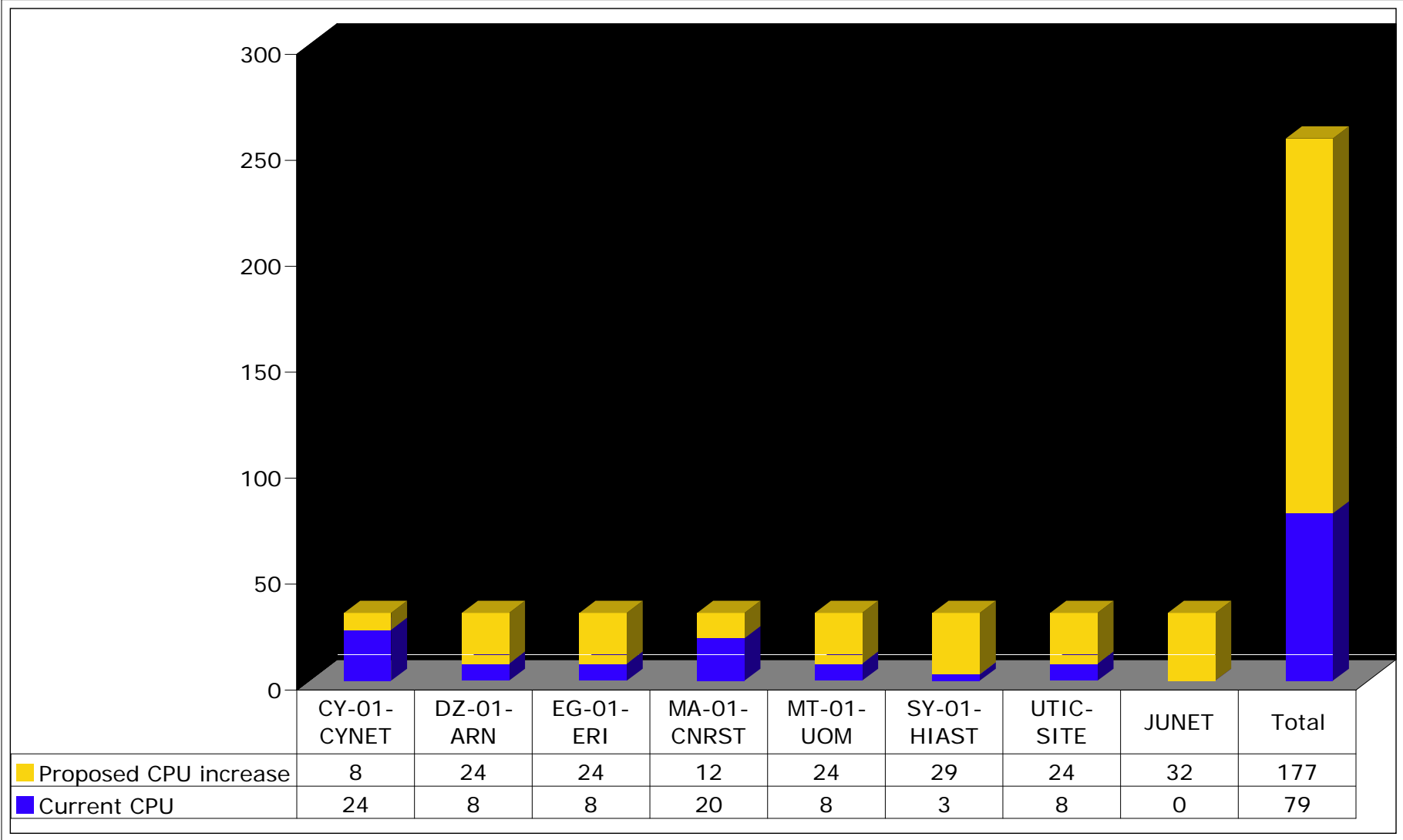
Network Status

- ▶ **Rec1: Sustainable network is a pre-requisite for regional Grids.**
- ▶ EUMEDGRID relies on local NRENS, EUMEDCONNECT and GEANT-2 to provide the underlying network.





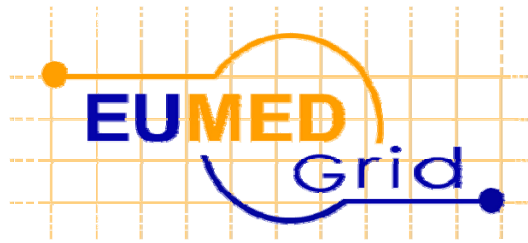
Infrastructure and Sites



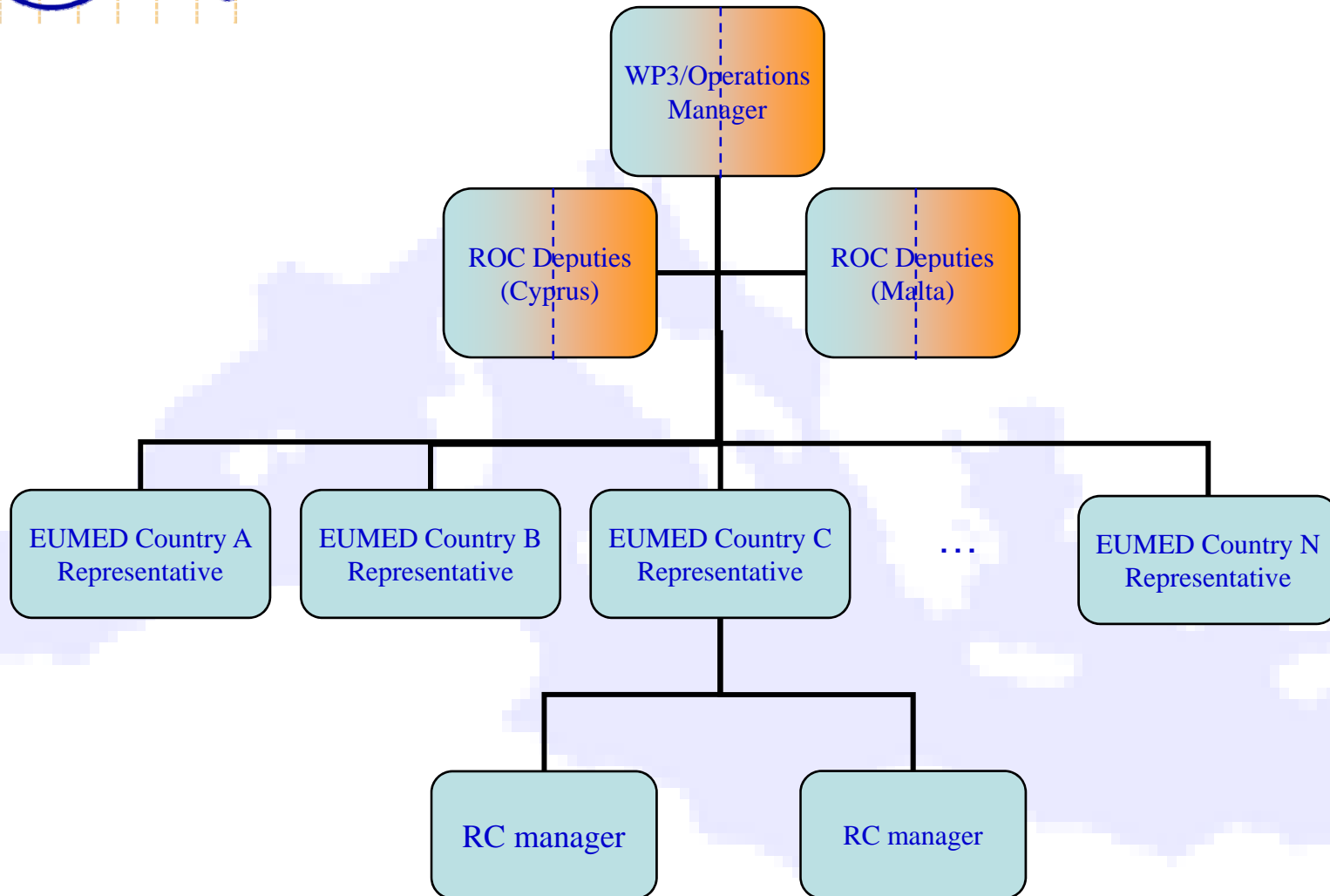


Operations

- ▶ **EUMEDGRID uses the following tools to assist its operation**
 - Trouble Ticketing System/ Helpdesk (<http://support.eumedgrid.eu>)
 - GSTAT
 - SAM
 - GRIDICE
 - HGSM



ROC Definition



Country Level Operations

- ▶ **Rec6: Aim to have possibility of stand-alone operations, independent on related federated Grids and projects, but interoperable and interoperational.**
- ▶ Working towards the establishment of NGIs
 - Each country Rep. is responsible for the local sites.
 - Each non-EGEE country is preparing its CA to be accredited. (Morocco has already an Accredited CA)
 - CORE services will be voluntary be deployed in non egee countries if its is deemed necessary.

VO Management

- ▶ **Rec7: Catch-all VOs on regional and national level prove to be flexible and efficient for deployment of new applications on-the-fly. A hierarchy of regional and national VOs should be established.**
- ▶ The EUMED VO CATCH-ALL VO used to:
 - Monitor the infrastructure
 - Deploy regional/national applications
- ▶ Per Scientific Field / Application Vos
 - Have high deployment **overhead** and Will only be deployed if it is technically justifiable.
- ▶ Sites are free to authorize additional EGEE VO's depending on the collaborations

- ▶ **Rec8: Collaboration on SLA definitions over regions is important.**
- ▶ EUMEDGRID is currently investigating the state of the art in GRID SLAs and plans to test one in EUMEDGRID-II

Contributions to Standards

- ▶ **Rec9: Contribution to standards and community groups like GIN OGF is important. Regional projects should contribute to standards in a coordinated way.**
 - EUMEDGRID tries to be represented to all the major standardisation bodies through its liaison with EGEE and other similar projects. No direct steps were taken so far.

Join Development Areas

- ▶ **Rec10: Collaboration of regional Grid projects on joint development and deployment of operational and infrastructural tools (or sharing of already developed ones) should be encouraged.**
 - As an SSA project, EUMEDGRID does not have any resources for the development of new tools and/or middleware modifications.
 - Minor customisations to operational tool were done with direct collaboration with the developers of the tools.

Training Infrastructure

- ▶ **Rec15: Issue of providing a similar approach to training infrastructure should be considered by the regional Grid projects; this t-infrastructure must be reliable and must provide enough resources for timely execution of test jobs submitted during training events (the same for storage resources).**
 - EUMEDGRID has no separate training infrastructure
 - We use GUILDA-T and/or the production service
 - Or set up local temporary ones.

Other Points and Issues to discuss

- ▶ Further success stories and recommendations
 - An official way to collaborate more closely with EGEE and related projects in both technical and policy level is needed.
 - No clear path how to contribute new developments / modifications back to the origin (usually differs case by case)
 - Hardware funding direct / indirect ?
 - Sustainability