



European e-Infrastructures



02/02/2012

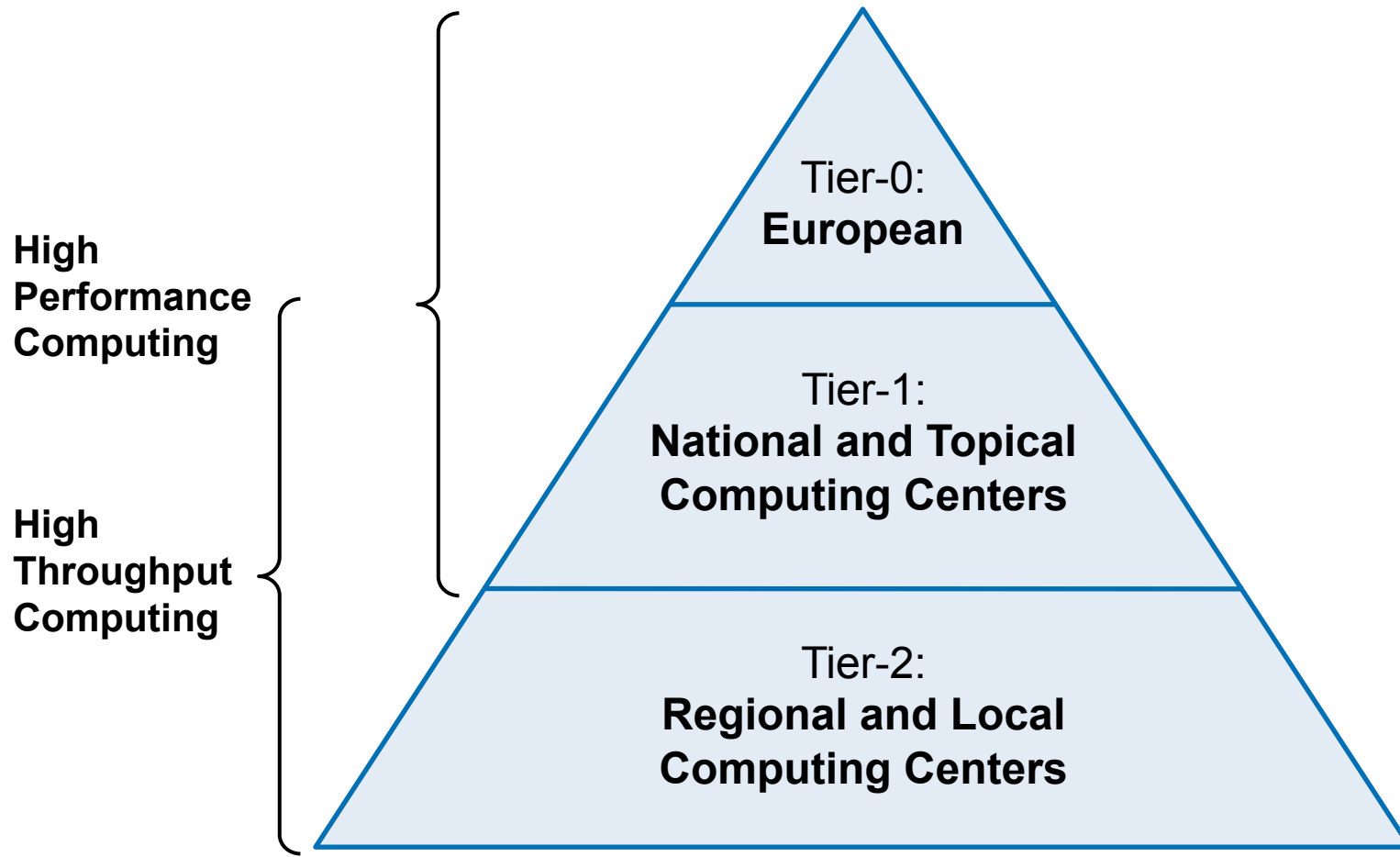
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Outline

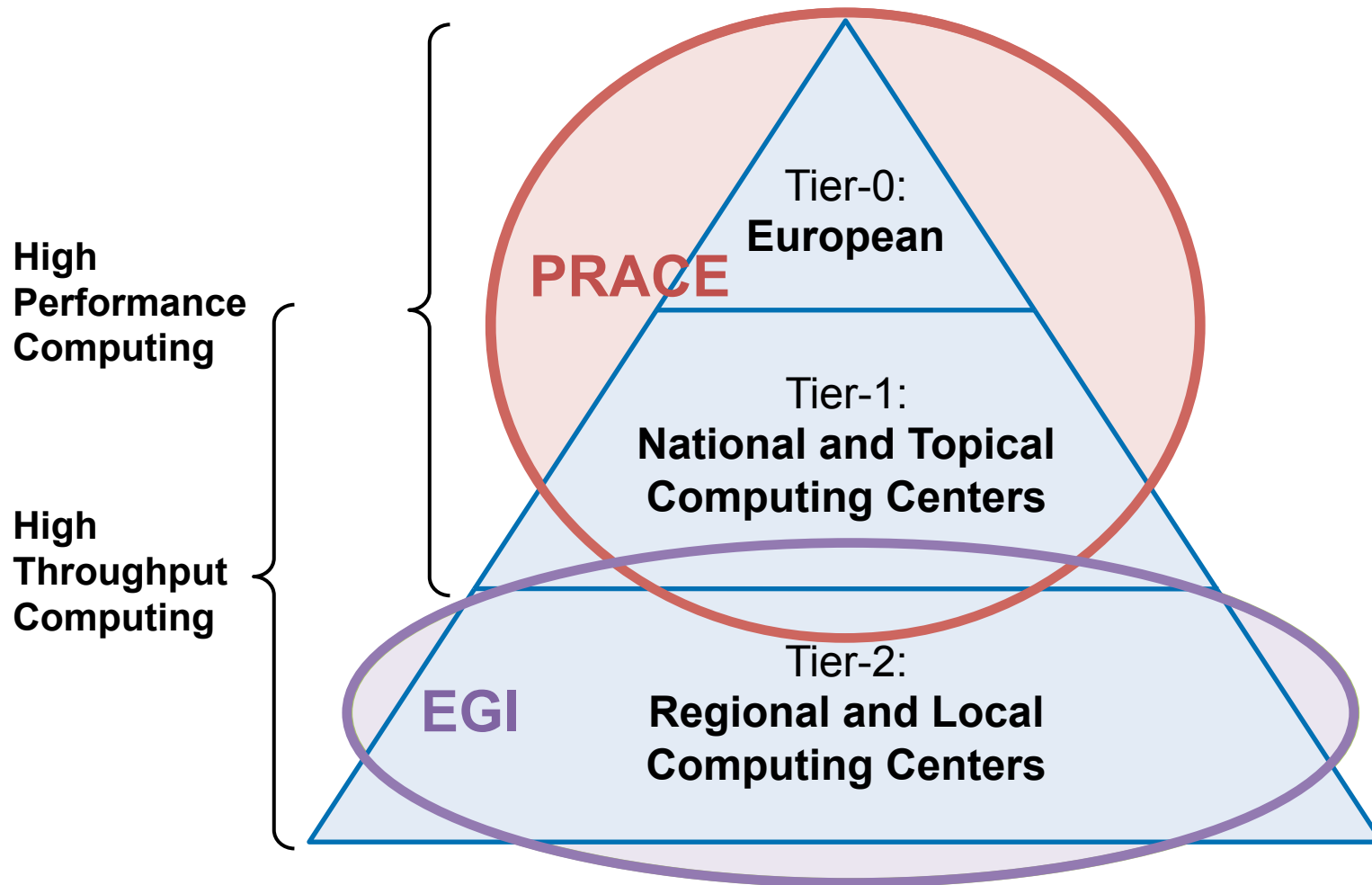


- European e-Infrastructure Ecosystem
- European e-Infrastructures
 - PRACE
 - EGI
- MAPPER e-Infrastructure
- MAPPER Vision

European e-Infrastructure Ecosystem



European e-Infrastructure Ecosystem





- Partnership for Advanced Computing in Europe

Enable and support European scientific discovery and engineering research and development across all disciplines to enhance European competitiveness for the benefit of society

- Legal entity: PRACE AISBL



- European and national HPC resources
 - 24 member states
- PRACE Tier-0
 - CEA Curie, FZJ Jugene, HLRS Hermit
 - BSC, CINECA, LRZ later this year
- PRACE Tier-1
 - 18 resources





- European Grid Infrastructure

Enables access to computing resources for European researchers from all fields of science, from High Energy Physics to Humanities

- Legal entity: EGI.eu

- Coordinates NGIs

- National and regional resources

- ~600 resource providers



e-Infrastructures' Services



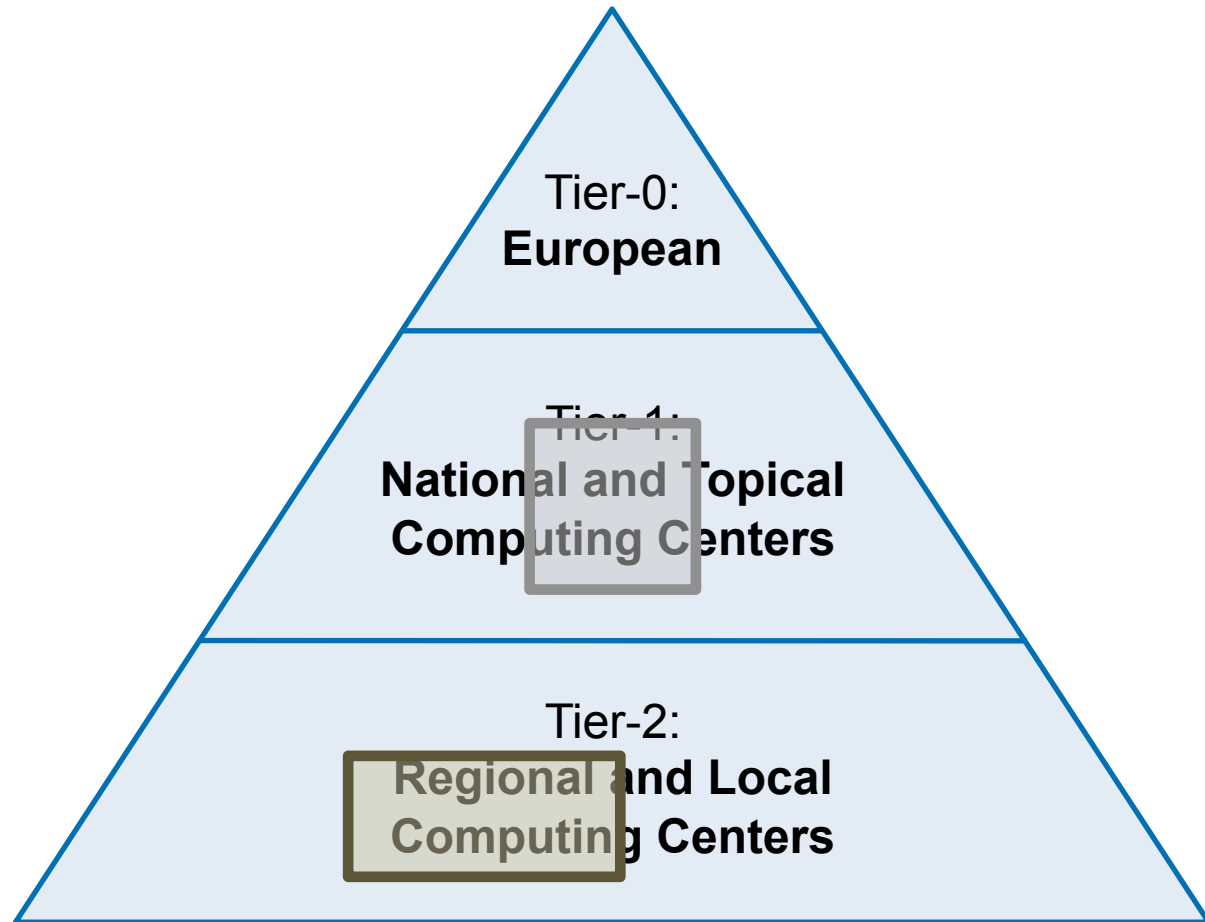
- Services and software stack inherited from DEISA and EGEE
- Services offered
 - Data management, compute, AAA, support
- Lacking functionality
 - Co-allocation, advance reservation, code coupling, workflow management

MAPPER e-Infrastructure

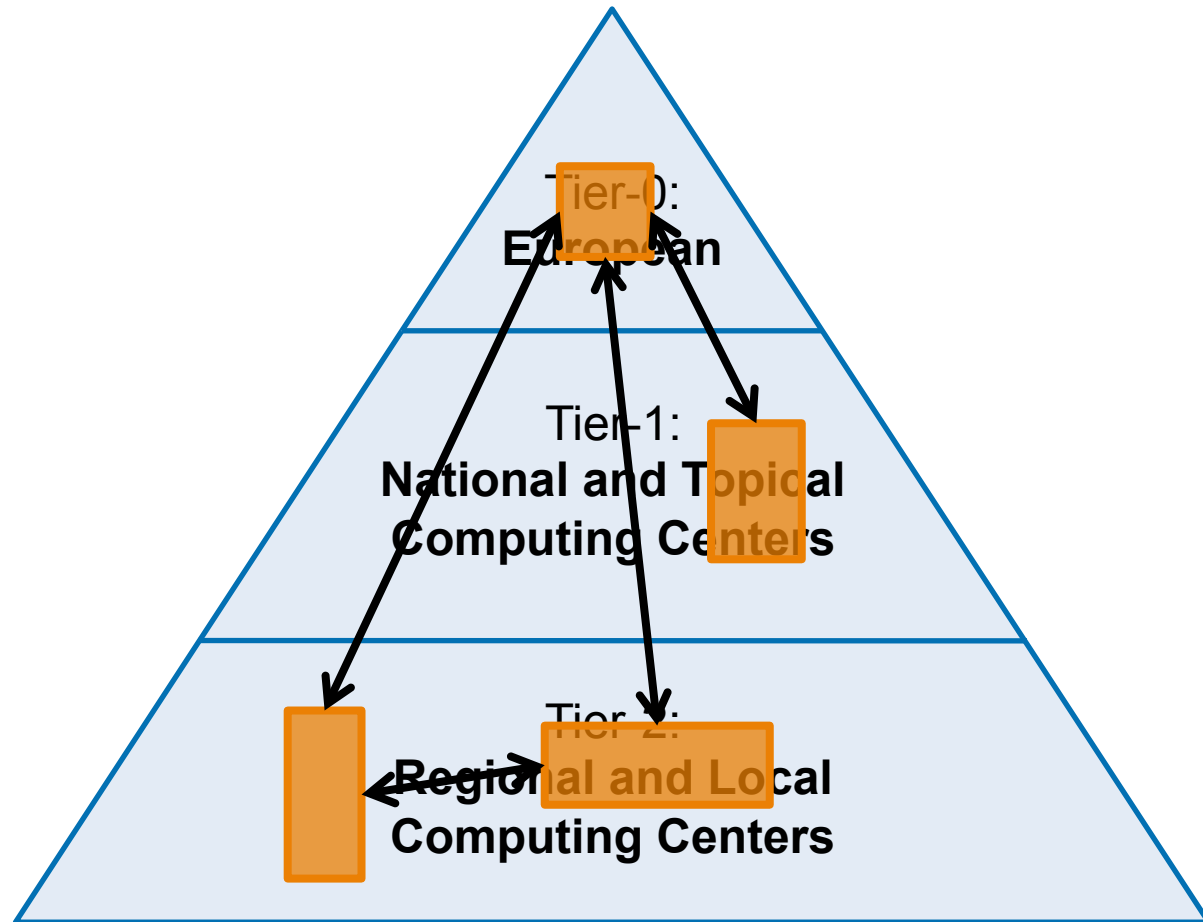


- MAPPER pre-production infrastructure
 - Cyfronet, LMU/LRZ, PSNC, TASK, UCL, WCSS
 - Environment for development, evaluation and deployment of MAPPER components
- Services
 - GridSpace, MAD, MaMe, QCG, MUSCLE

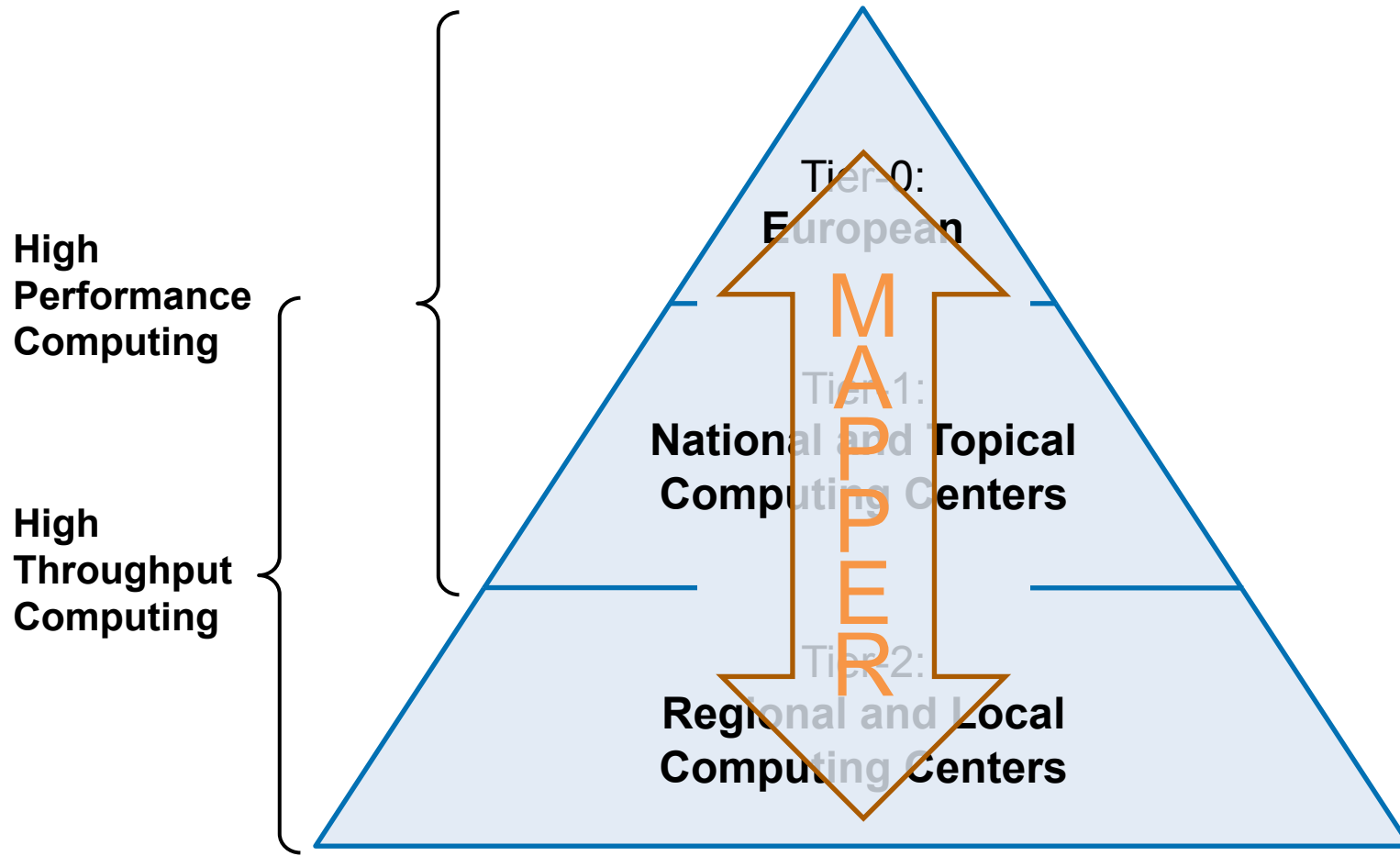
Common Usage Scenario



Multiscale Computing



MAPPER Vision





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