



A spin-off from Italy's National Research Council (CNR)



## BENEFITS

**CapEx reduction, avoiding over-provisioning**  
CDSM will set you up for your future needs, ensuring that service level requirements will be met using an optimal configuration

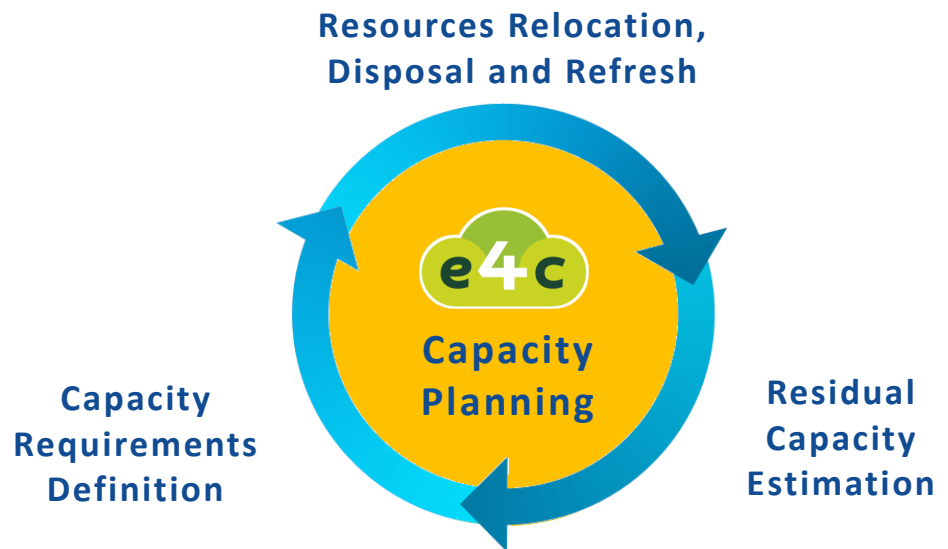
**Resources optimization**  
By using servers more efficiently, a significant % of resources can be released and assigned to other capacity needs

**Increase budget accuracy**  
CDSM provides with the ability to predict future server needs, which is crucial to making intelligent CapEx decisions

**Improve predictability**  
CDSM creates demand patterns through the analysis of workload traces measured at the virtualization layer

# Capacity Decision Support Manager

Eco4Cloud's Capacity Decision Support Manager aims at optimizing the utilization and cost of computing infrastructures by predicting future usage of IT resources. Capacity Decision Support Manager provides a solution to efficiently plan and use shared pools of resources in virtualized data centers within few hours from the initial deployment.



Capacity Decision Support Manager solution for capacity planning is a lightweight tool addressing three relevant main issues:

## CAPACITY ASSESSMENT

Capacity Decision Support Manager estimates how much additional workload, in terms of number of extra virtual machines, each cluster of a data center supports, without violating capacity requirements/constraints/SLAs.

## CAPACITY SCENARIO ANALYZER

Simulation of run specific workload scenarios, when significant increases are expected. Capacity Decision Support Manager will estimate if/what incremental resources are needed, if they are already available.

## CAPACITY EFFICIENCY MANAGER

Capacity Decision Support Manager detects and identifies inactive hosts and classifies them for cost-optimization purposes (e.g. nominal energy efficiency). Capacity Decision Support Manager will then suggest whether there might be better and more efficient utilization of those inactive servers, e.g. moving them to other clusters within a datacenter.

Capacity Decision Support Manager will also help to decide which hardware to best pick for disposal/refresh, based on specific marginal value.

More on Eco4Cloud's CDSM: <http://www.eco4cloud.com/CDSM>