



Applications and Achievements Enabled by Egyptian Higher Education Network

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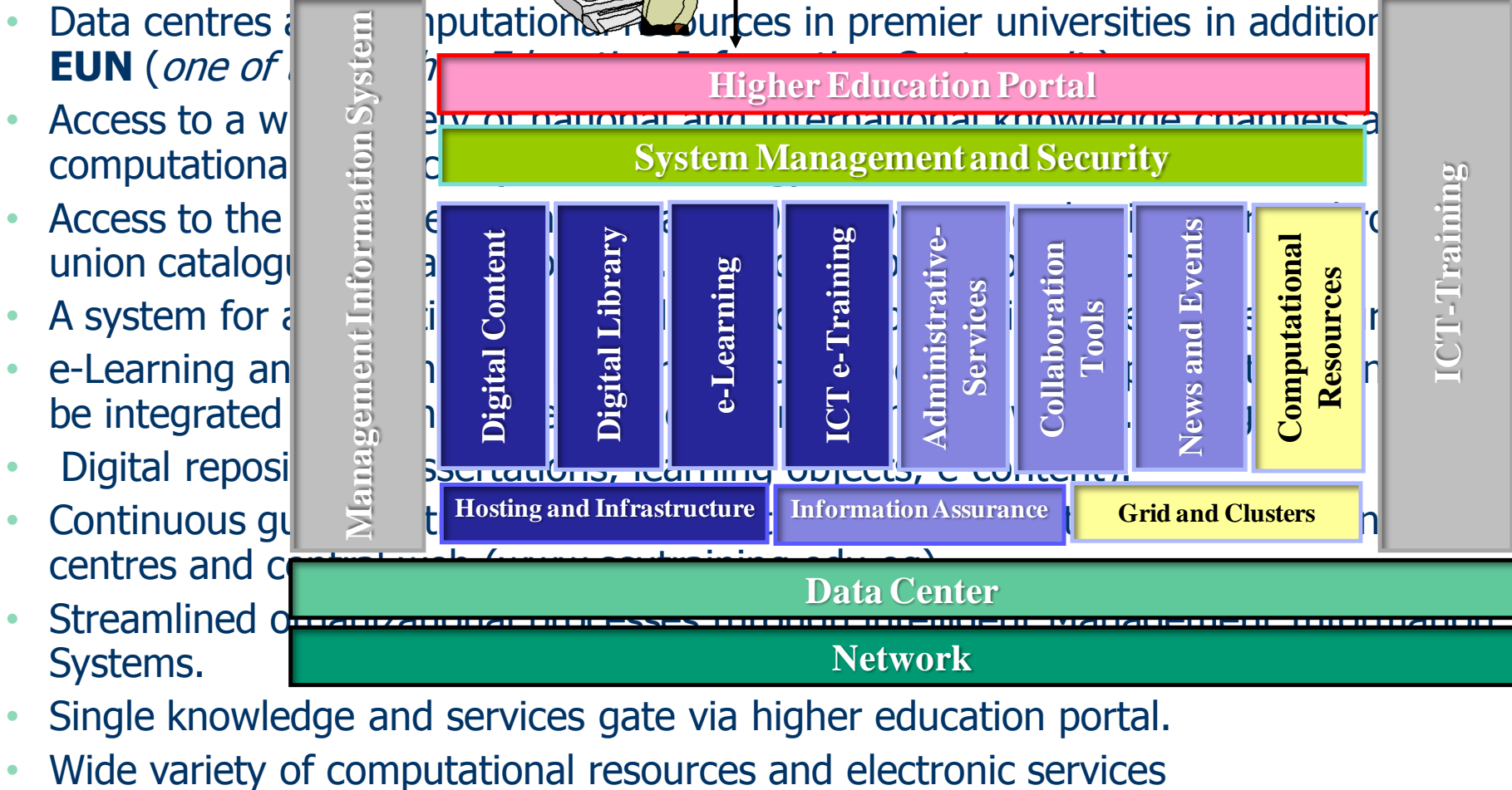


Applications Enabled by Higher Education Network

- IT infrastructure supporting educational and research processes across higher education organizations.



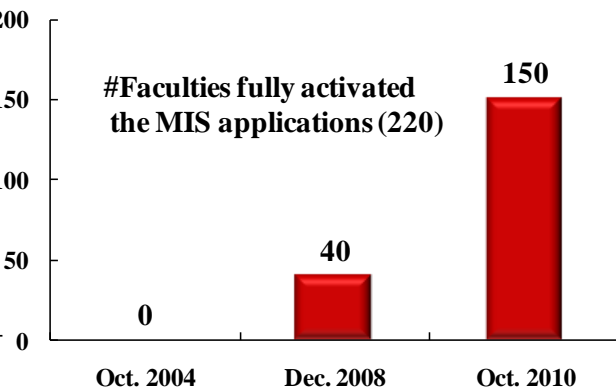
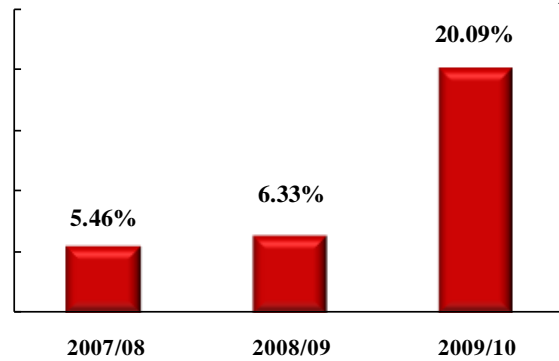
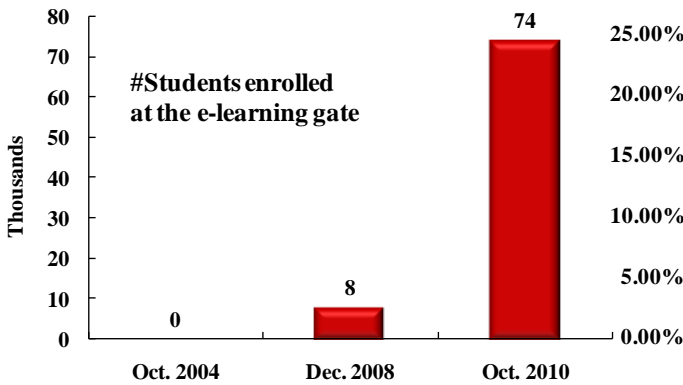
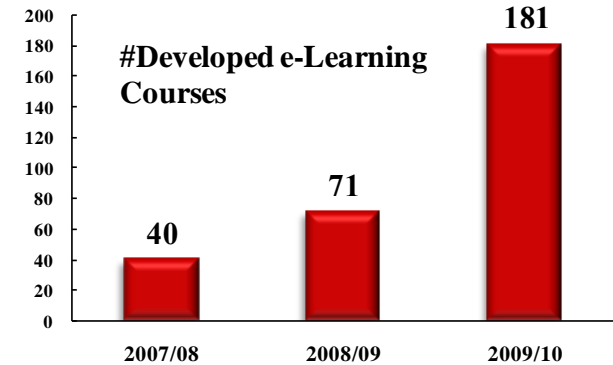
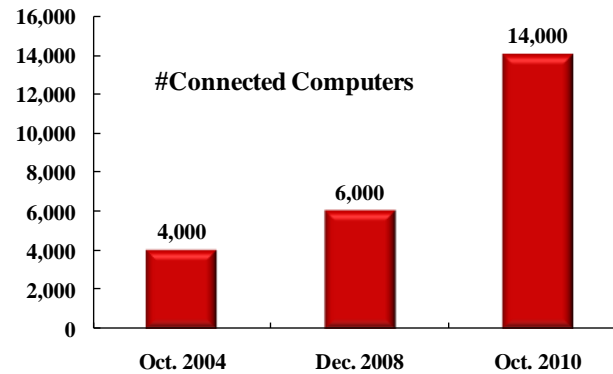
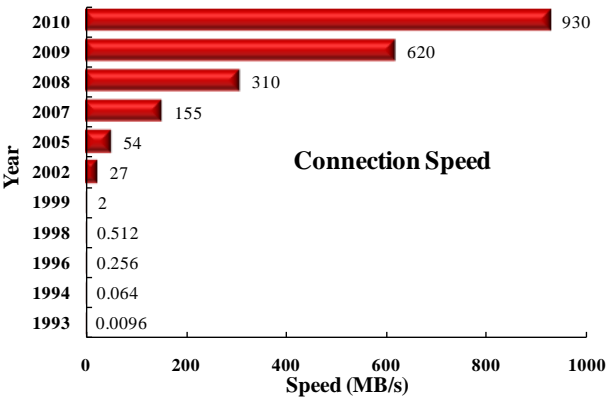
Users with different roles



- Data centres and computational resources in premier universities in addition to EUN (one of the main pillars of the Higher Education Network).
- Access to a wide range of national and international knowledge channels and computational resources.
- Access to the union catalogues and digital repositories.
- A system for a wide range of services and applications.
- e-Learning and research applications can be integrated.
- Digital repositories for theses, dissertations, learning objects, e-content, etc.
- Continuous growth and expansion of data centres and computational resources.
- Streamlined operations and efficient systems.
- Single knowledge and services gate via higher education portal.
- Wide variety of computational resources and electronic services



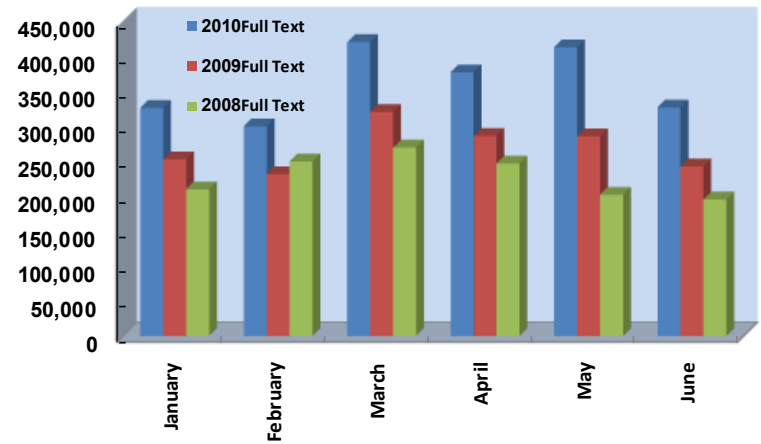
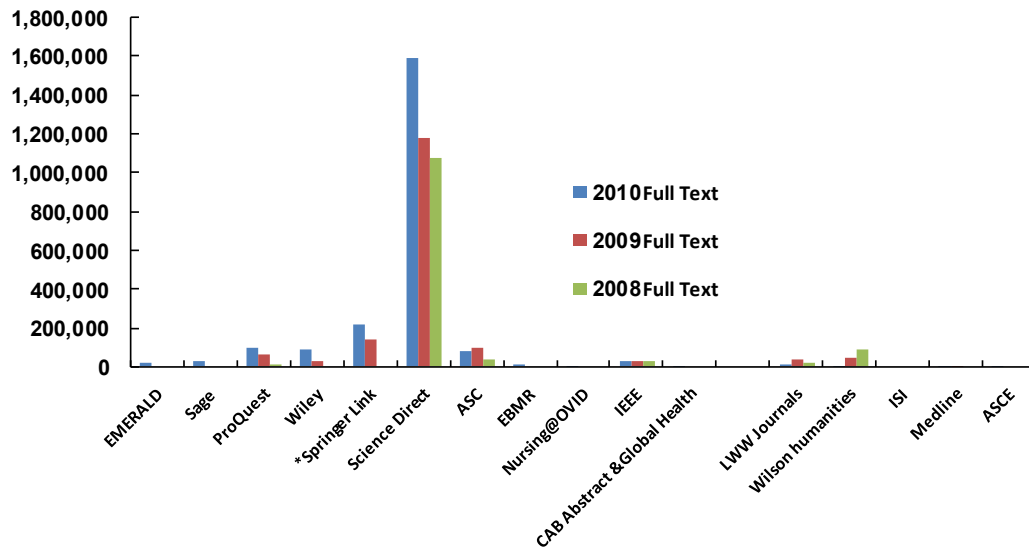
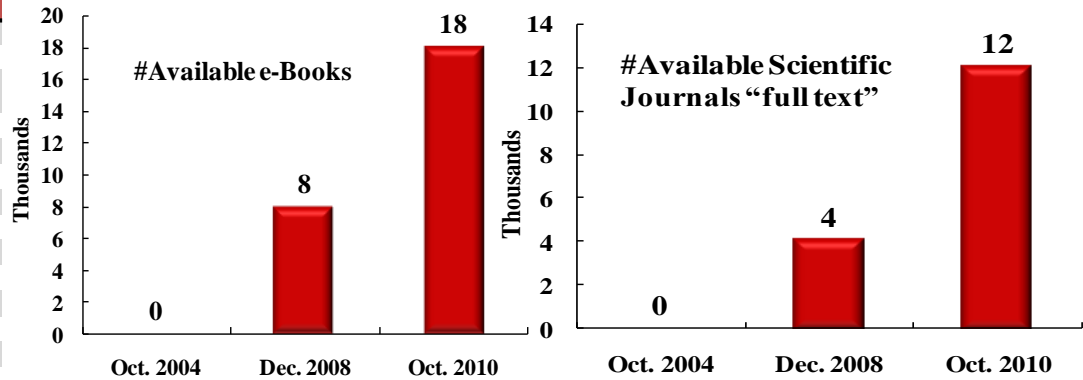
Achievements Enabled by Higher Education Network





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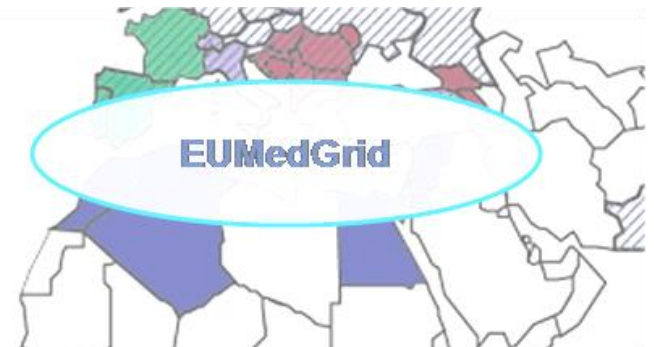
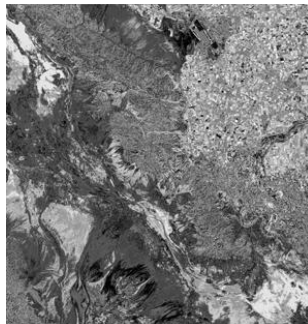
Databases	Full text	Abstract	Books
EMERALD	Journal 200	-	-
SAGE	Journal 555	-	-
ProQuest	930,000 Thesis	6 Million Thesis	-
Wiley Blackwell	1,400 Journal	-	-
Springer	1,622 Journal	-	15,500
Science Direct	2,000 Journal	-	50
ASC	5,500 Journal	-	-
IEEE	132 Journal	-	-
CAB Abstract & Global Health	160 Journal	13,500 Journal	-
LWW-journals	384 Journal	-	-
Wilson humanities	160 Journal	-	-
Jstor (Available for Free)	1,000 Journal	-	-
ISI Web of Knowledge	-	23,000 Journal	-
Scopus (Available at Digital Library Unit Only)	-	13,350 Journal	-
MEDLINE & PUBMED	400 Journal	4,800 Journal	-
ASCE	Journal 32	-	-





Potential Projects Enabled by Grid Service for Remote Sensed Image Processing

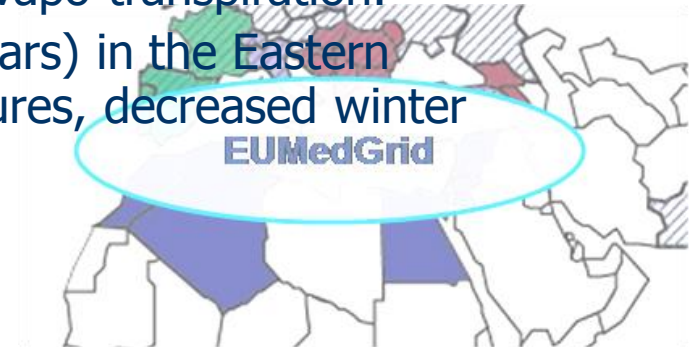
- Agriculture, forestry and range resources in vegetation type or soil conditions.
- Land use and mapping for classification, cartographic mapping, urban areas, or transportation networks.
- Geology for rock types, delineation, landforms, or regional structures detection.
- Water resources for water boundaries, surface, depth, volume, floods, sediments, or irrigated fields detection.
- Oceanography and marine resources for marine organisms, turbidity patterns, or shoreline changes detection
- Environment for surface mining, water pollution, air pollution, natural disasters, or defoliation detection.





Potential Projects Enabled by Grid Service for Weather Modeling

- Numerical meteorological models to assess air pollution, temperature inversion phenomenon, transport of pollutants/dust (sand storms), micro-climate change due to natural causes like formation of lakes, desertification, etc., man made causes: different land use categories and assessment and utilization of Wind and Solar energy potentials.
- Computational models are enhanced with remotely sensed observations for improvement of land surface modeling and accuracy and assimilation of meteorological satellite data.
- Recent numerical experiments suggest that severe deforestation around the Mediterranean in the last 2000 years was a major factor in current dry conditions and attributed to change in albedo, and increased evapo-transpiration.
- Statistical trends from observations (over past 50 years) in the Eastern Mediterranean point to increased summer temperatures, decreased winter temperatures and reduced annual precipitation.





Thank You

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