

# EGEE Grid Technology Market Evaluation

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## **Research Objectives**

- Grid Computing Where is the Value? How could grid computing provide Return on Investment (ROI)?
- Assess the Technology Readiness Level and how it should be improved.
- Analyse markets and routes to commercialisation of grid technologies



## **Getting Value from Grid Adoption**

- Enabling new capabilities
  - Project NPV
- Realization of cost savings
  - Return on Investment (ROI)
- Intangible benefits (better collaboration, new level of business insight)

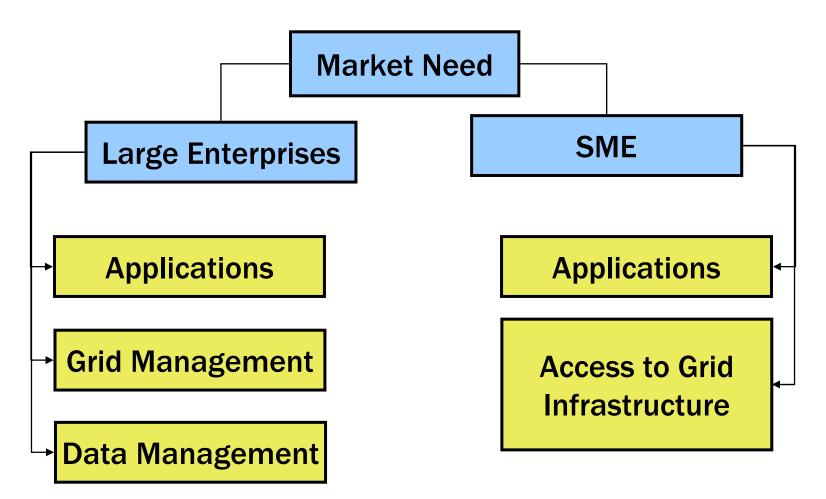


## **Grid for Industry Sectors**

- Financial Markets (Business Analytics and Enterprise Optimization Focus)
- Life Sciences (Analytics Acceleration and another for Information Accessibility Focus)
- Automotive and Aerospace (Engineering and Design Focus)
- Governmental Agencies



#### Market Need





## **Grid and Entrepreneurship**

## Statistics on 9 recent start-up companies

 Geographic distribution: US-6, Canada-1, UK-1, Denmark-1

 Technology focus: application development, optimisation and management – 6, middleware – 2, hardware – 1

 Conclusion: trend changes from grid infrastructure to grid applications



## Starting a New Venture

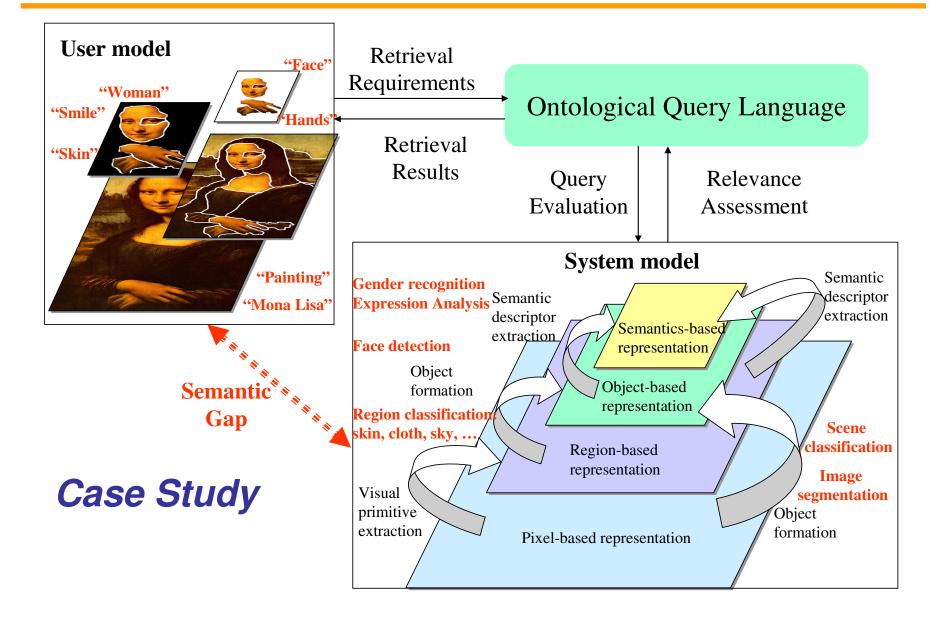
## VC Requirements

- Strong team
- Global, sustainable, under-served market need
- Defensible technological advantage
- 60 per cent internal rate of return and exit route
- Viable business model



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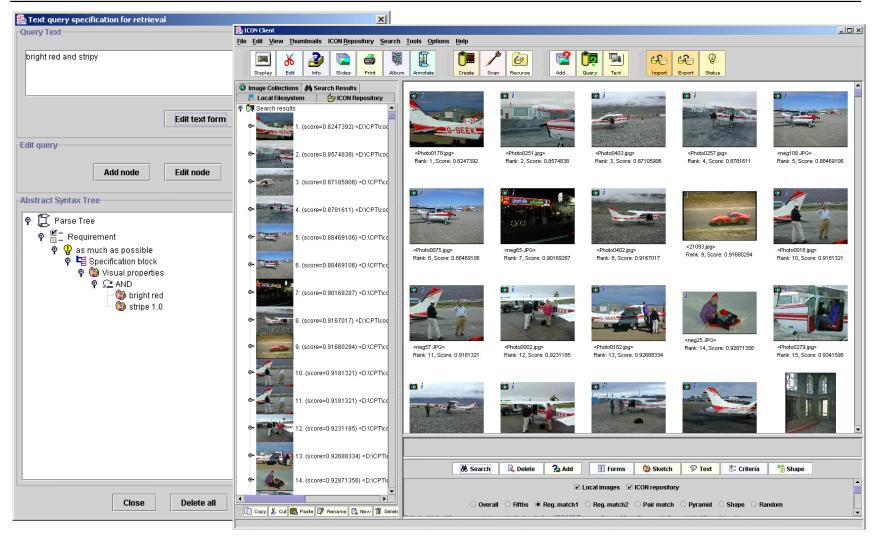




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# Sample query: "bright red and stripy"







# Google: "bright red and stripy" (stripey)





## **Project Requirements**

- Standard image size 1024x768
- Standard Processor P4/3GHz
- Standard analysis time 20 s
- Test archive 1m images
- Estimate computer power required 5555 CPU/hours
- Grid provides a solution



# Conclusion

## Assets

- Grid infrastructure
- Middleware
- Skills

### **Routes to commercialisation**

- Spinout company
- Collaborative development

## **Business models**

- Consultancy (SOA + Grid = Goldmine for Consultants)
- Service Provider (Utility Computing)
- Software Vendor (Quest for a killer grid application)