## Virtual Organisations in Grid environments - A contribution to the EchoGRID roadmap-

George Ioannidis, Dr.-Ing., MBA K2M Limited M: +49-179-2286677 gi@k2mark.com

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## **Grid and Virtual Organisations**

- Grid environment --> flexible, secure, co-ordinated resource sharing among dynamic collections of individuals, institutions, and resources --> Virtual Organisations
- Some of the challenges in Grid technologies
  - Unique authentication, authorisation, resource access, resource discovery
- Main challenge for Virtual Organisations
  - Co-ordinated resource sharing and problem solving in dynamic, multiinstitutional settings; resource brokering strategies emerging in industry, science, and engineering
  - Resource providers and consumers defining clearly and carefully just what is shared, who is allowed to share, and the conditions under which sharing occurs

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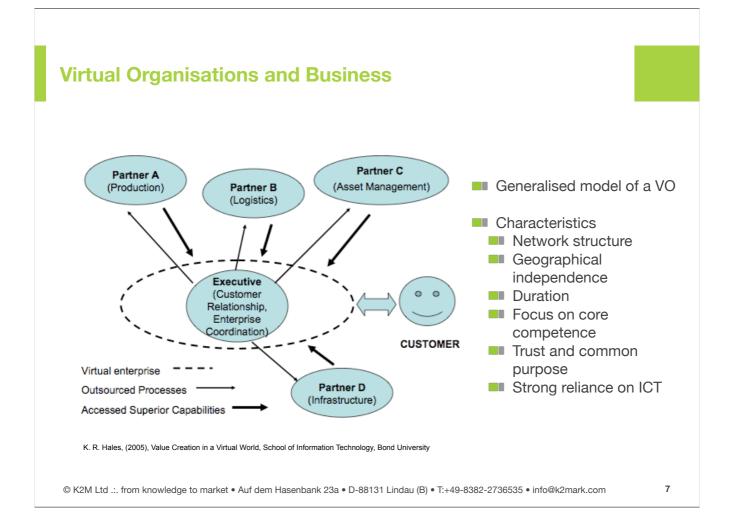


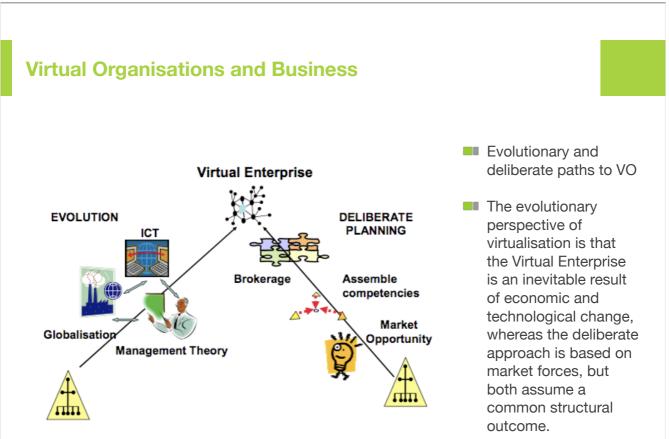
## Virtual Organisations and Business

A virtual organisation is a collection of geographically distributed, functionally and/or culturally diverse entities that are linked by electronic forms of communication and rely on lateral, dynamic relationships for co-ordination. Despite its diffuse nature, a common identity holds the organisation together in the minds of members, customers, or other constituents.

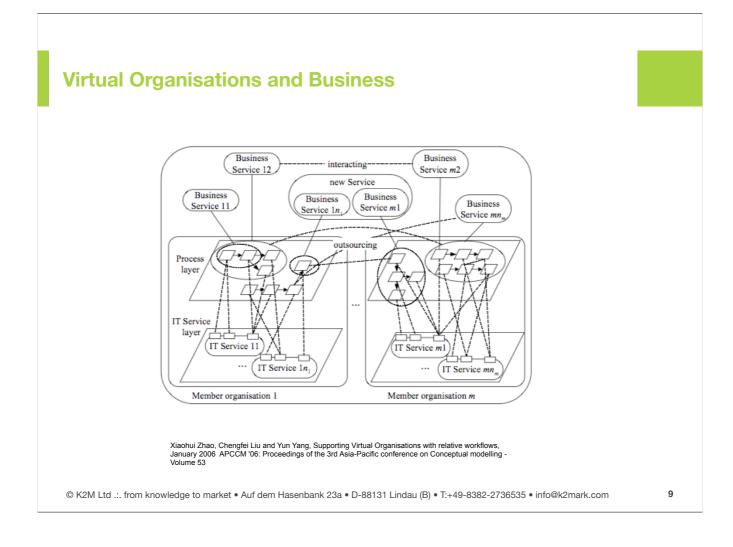
Relationships within the virtual form are tenuous; in fact, a key implication of virtual organising is that these forms are more re-configurable, their boundaries are considerably more blurred, and their relationships are more likely to be contractual than traditional forms.

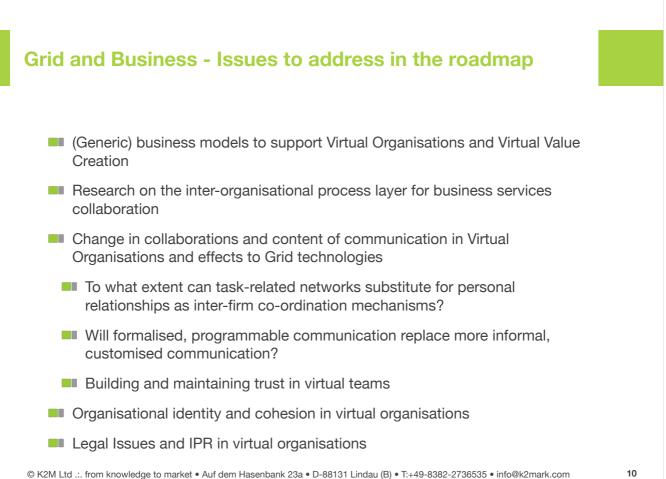
These attributes enable the organisation to dynamically modify business processes to meet market demands, to co-ordinate via formal and informal contracts, to define the boundaries of the firm differently over time or for different customers or constituencies, and to re-arrange relationships among components as needed.





K. R. Hales, (2005), Value Creation in a Virtual World, School of Information Technology, Bond University





| Thanks and let's draw the roadmap now |  |
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