



Human Spaceflight  
SPACE FOR LIFE

# Experience with the GRID

- E-Learning server running on the ESA GRID network to support a Life Science Conference (June 2002): encouraging results.
- Streaming server since summer 2002, mainly used on experimental basis. It proved difficult to solve internal connectivity issues. Results are contradictory, but no final numbers to publish yet. In any case only to the internet and not to another GRID node.
- Feasibility was checked for two tele-science experiment for transmission to the Ministerial Conference in Edinburgh in Nov. 2001.
- Most of the scientific communities we want to reach have access to academic high rate networks.
- All our applications demand use of video and are highly interactive.
- Basically our requirements are for bandwidth and compatibility of protocols and existing applications with the GRID infrastructure. Also ease of internal access to GRID Point of Presence within ESTEC.



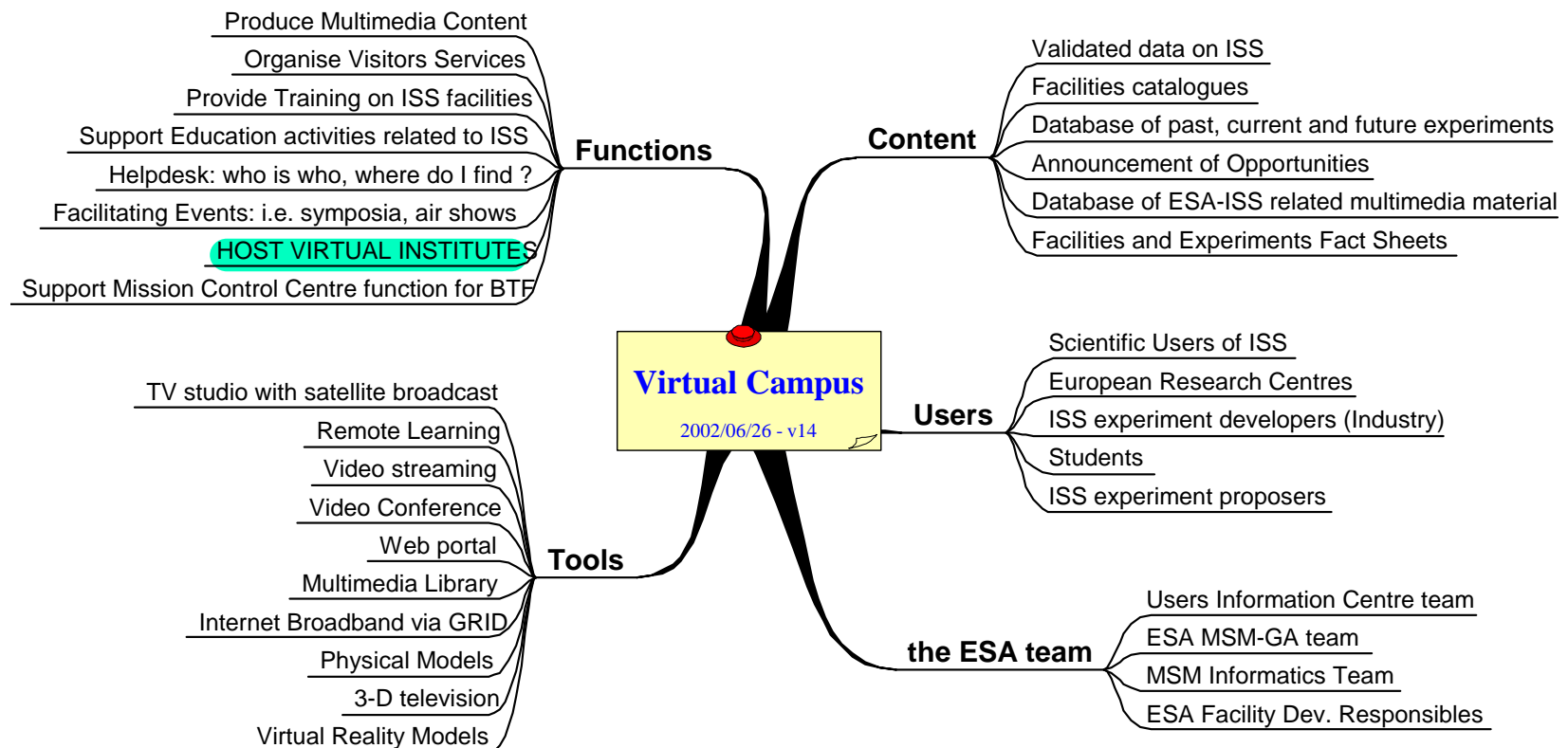
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# Framework: the Virtual Campus

- The Virtual Campus was inaugurated in ESTEC in Fall 2000
- One element of the Virtual Campus are the Virtual Institutes (V.I.)
- The V.I. main purpose is to act as “focal point” or “facilitator” to those Space Research disciplines that have difficulties to be hosted by one existing Institute because they are geographically dispersed and/or they involve normally separated scientific domains
- A few V.I. have been identified together with the ESA Science Co-ordinators, e.g. Plasma & Dust Physics, Astro-Biology, Space Physiology and Material Sciences



# Virtual Campus





## Virtual Institutes

