I-Room: a Virtual Space for Intelligent Interaction

Low cost, simple setup, mixed-reality meetings spaces and operations centres



http://openvce.net/iroom



I-Room Introduction

- I-Room provides a 3D virtual space with multiple work zones, designed for collaborative and brain storming style meetings
- I-Rooms are used in the I-X research on intelligent collaborative and task support environments
- The main feature of the I-Room is the link up with external web services, collaboration systems and intelligent systems aids

OpenVCE







I-Room Applications

OpenVCE

- Virtual collaboration centre
- Business teleconferencing
- Team Meetings for project and product reviews
- Product Help Desks
- Design to Product product lifecycle support
- Environment, building and plant monitoring
- Health and safety at work, disability awareness
- Intelligent tutors, guides and greeters
- Active demonstration pavilions







Requirements for Effective Distributed Task-centric Collaboration

- Mix of physical operations centres and remote access
- Bring in experts for improved analysis and option generation
- · Mix of synchronous and asynchronous activity
- Share community knowledge and experience
- Share Standard Operating Procedures and Lessons Learned

Communication, Collaboration and Task & Process Centric Activities

Open Virtual Collaboration Environment

• Web-based Collaboration Portal

- Drupal CMS
- Also explored Facebook, Google Groups, Yahoo Groups, Ning Groups, Grou.ps, Joomla, Linkups to external web services and widgets

Virtual World 3D Space

- Second Life[™]
- OpenSim (allows for secure use, potentially behind a firewall, e.g. US government)
- Virtual Collaboration Protocol
 - Standard Operating Procedures
 - FAQ and Tips
 - Collaboration Protocol (Rob Cross, University of Virginia)
- Community Tools
 - AIAI I-Room a Room for Intelligent Interaction
 - CMU Catalyst Community Knowledge Base
 - Concept Maps, and Experimental 3D Model Visualizations















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Tate, A. (2006) The Helpful Environment: Geographically Dispersed Intelligent Agents That Collaborate, Special Issue On "The Future of Al", IEEE Intelligent Systems, May-June 2006, Vol. 27, No. 3, pp 57-61. IEEE Computer Society.

The creation and use of task-centric virtual organizations involving people, government and non-governmental organizations, automated systems, grid and web services working alongside intelligent robotic, vehicle, building and environmental systems to respond to very dynamic events on scales from local to global.

- Multi-level emergency response and aid systems
- Personal, vehicle, home, organization, district, regional, national, international Backbone for progressively more comprehensive aid and emergency response
- Also used for aid-orientated commercial services •
- Robust, secure, resilient, distributed system of svstems
- Advanced knowledge and collaboration technologies • Low cost, pervasive sensor grids, computing and communications
- Changes in codes, regulations, training and practices
- •

Vue – Virtual University of Edinburgh OpenVCE – Virtual Collaboration Environment I-Room – a Virtual Space for Intelligent Interaction Blog Posts of Simulation and Training Exercises

Social Web + Agents + Plans + Virtual Worlds

http://vue.ed.ac.uk http://openvce.net http://openvce.net/iroom http://blog.inf.ed.ac.uk/atate/