

Manufacturing Engineering Centre, Cardiff Univ., UK

- **Accredited Centre of Excellence**
- **Coordination during FP6 – IST & NMP:**
 - 2 NoEs, 3 STREPs
- **Partnership during FP6 – IST & NMP:**
 - 3 IPs, 3 STREPs, 2 CAs, 1 SSA
- **Over €12.5 million EU funding since 2003**
- **Relevant projects include**
 - REHAROB £135,000
 - RESCUER, £200,000
 - IWARD, £190,000

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Web-based Teleoperated Robot for working from home, including disabled people

Human-machine interface supervision and control of robots on Web-based workstation.

Objectives

- Intelligent, highly autonomous and supervised robot
- Robot-robot and robot-human interaction
- Remote guidance/supervision/control

The Web-based Supervised Teleoperated Robot consist two parts.

***First* part is home Web-based work place with computer with stereo vision and copy motion haptic devices.**

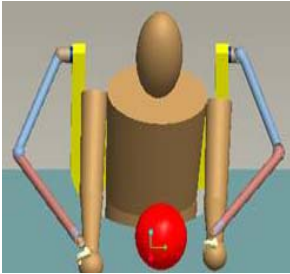


Fig.1 Copy motions devices.

***Second* part is active Supervised Teleoperated Robot.**

- Supervised Teleoperated Robot will be designed to do particular work which is required by the employer.
- For example, replacing a worker at the assembly process in car industry.

Benefits

- Reduced transport time and cost
- Reduced pollution and traffic congestion
- Increased employment and quality of life for disabled people.

Relevance to the Call

- **3.2.1-1: Cognitive Systems, Interaction, Robotics**
- Artificial systems that:
 - can achieve general goals in a largely unsupervised way, and persevere under adverse or uncertain conditions
 - communicate and co-operate with people or each other
 - demonstrators that operate largely autonomously in demanding and open-ended environments ... and for communication and co-operation with people or machines or both.

Scale

- Duration: 3 years
- Budget: ~ €3million (small & medium scale)
- Consortium: 6 partners circa

- **Additional expertise required:**

- Supervised robots
- Haptic control of human motions
- Mobile robots
- Positioning and navigation
- Human-robot communication

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