

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**
 - Tai-Chi £2,200,000

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SLEEP MONITORING AND EARLY WARNING FOR HEALTHCARE OF THE ELDERLY

The proposed system will be able to monitor health status of the elderly while they sleep without introducing disturbances and to issue early warnings to caretakers and family members in the occasions of critical health status, based on medicine discoveries in sleep patterns and health status.

Objectives

- **To identify sleep parameters and sleep patterns related to respiration and heart diseases.**
- **To develop advanced non-invasive sensing techniques**
- **To accomplish the sleep-care system**

Relevance to the Call

- **3.7.1-1:ICT and Ageing**
 - systemic solutions for independent living and active ageing.
 - Open systems reference architectures, standards and platforms enabling systems and services for independent living, smart workplaces and mobility.

Scale

- Duration: 3 years
- Budget: ~ €3million (small & medium scale)
- Consortium: 4-6 partners

- **Additional expertise required:**
 - Smart sensor development
 - Data fusion and pattern recognition
 - Wireless communication
 - Hospital service and aging society as end-users
- **Contact details:**

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