

## Statistics in FP7

### ISRU as a partner:

#### Newcastle University:

**ISRU** Industrial Statistical Research Unit  
... others



### EC project expertise

- Newcastle University is a major UK institution with over 4500 staff and 17700 students
- Under FP6 Newcastle University has signed contracts for 91 projects worth €34million and has a further 50 projects in the process of negotiation

## **Selected FP4 & 5 successfully completed projects:**

- **Development of European Standard for Firefighter's footwear - design and analysis of questionnaires to find optimum boots; designed experiments to test safety and comfort factors. (SMT4-CT98-2275)**
- **Kensys - Kansei Engineering: capturing customers' emotional response to products; survey design and multivariate modelling. (IPS-2001-42075)**
- **Co-test - designed experiments and analysis of oxidation profiles (G6RD-2001-00639)**
- **Fatigue crack growth rate qualifying criteria of rails for railways: optimising test conditions (SMT4-CT98-2240)**
- **Transient pressures in pressurised conduits for municipal water and sewage transport (SMT4-CT97-2188) and surge-net thematic network (G1RT-CT-2002-05069) as co-ordinators**
- **Co-ordinators of pro-ENBIS thematic network with 20 partners promoting statistics in business and industry (G6RT-CT-2001-05069)**

# Ideas for current FP7 calls

- **Cooperation Theme 4 – NMP**
- **Activity 4.3 – New Production**
- *4.3.1 Development and validation of new industrial models and strategies*
- **NMP-2007-3.1-1 Beyond Lean manufacturing – new industrial models for product and process life cycle (large CP)**
- Develop new European production model, which takes the lean manufacturing paradigm further. The expected impact is to allow companies to change their strategic and product focus quickly in response to market trends and demands. Increase the added value and productivity throughout the supply chain (in particular SME's). The project should cover a number of manufacturing sectors. ISRU will offer expertise in lean & six sigma
- **NMP-2007-3.1-2 New added value user centred products & product services (CP targeted at SMEs)**
- The projects will be led by SMEs with R&D capacities. Coordinator does not need to be an SME. ISRU will offer survey/questionnaire design and analysis, conjoint analysis, Kansei engineering
- **NMP-2007-3.1-3 Integrated risk management in industrial systems (large CP)**
- Driven by industry with significant demonstration elements
- Develop integrated methodologies for risk assessment and management addressing complexity, multifunctional use of space and increasing population densities with the aim of reducing overall risk and detrimental impact on society. ISRU will offer process mapping, performance metrics, SPC, reliability and extreme value analysis
- *4.3.3 Networked production*
- **NMP-2007-3.3-1 Innovative customer driven product-service design in a global environment (small or medium scale focused research)**
- The consortia should include lower tier suppliers, mostly SMEs. ISRU will offer Kano, QFD, Kansei engineering and multivariate statistical modelling

# Collaboration in FP7 needed

- Partner search underway
  - previous partners
  - current contacts
  - I\*PROMS
  - ...

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