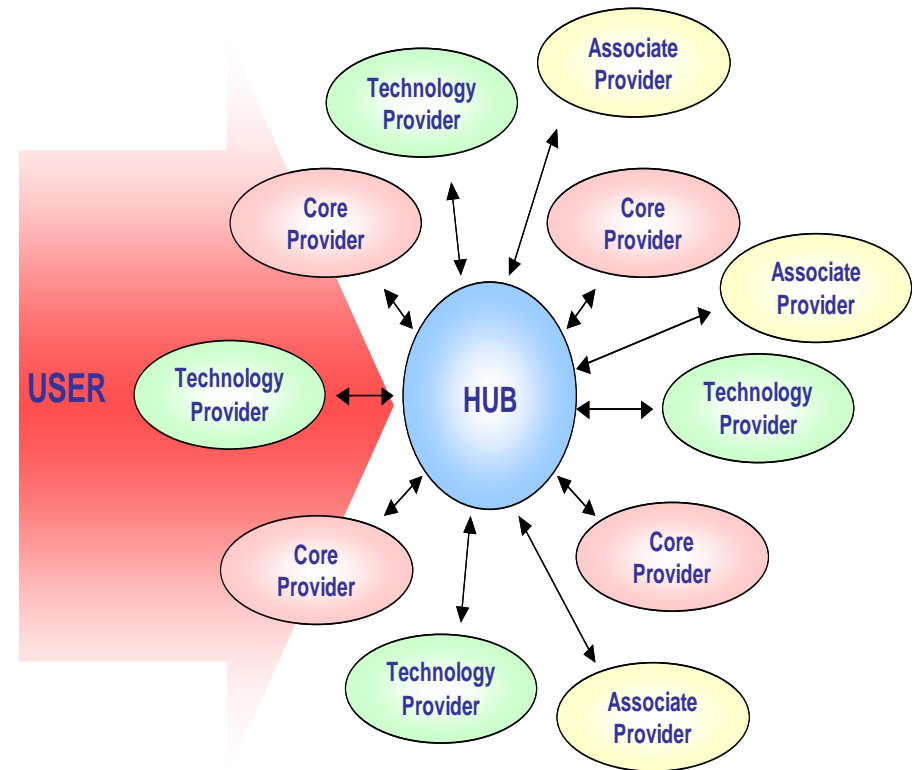


# NanoCentral

## Success through Nanomaterials

- Hub and Spoke network of Technology Providers
- UK Government funded under MNT initiative
- Current facilities UK based
- Accelerating the commercialisation of value added nanomaterials through enabling industry to overcome the barriers between nanotechnology push and established market use
- A full service offering of synthesis, formulation, application development, characterisation & HSE capabilities
- Hub and Core Technology Providers in place
- Expanding network by recruiting new Providers and developing capability across the nanomaterial supply chain

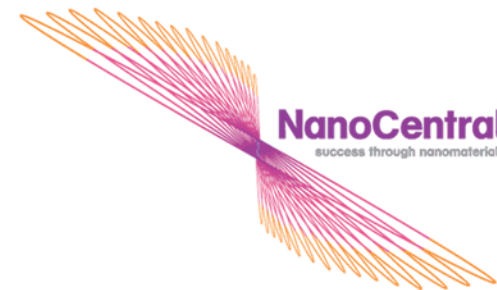


# NanoCentral & FP7



- Single point of contact access to UK's leading nanomaterial organisations, active across the nanomaterial supply chain
- Open access facilities (Core Providers)
  - Johnson Matthey – Flame Spray Pyrolysis – Metal and Metal Oxide Nanoparticles
  - QinetiQ Nanomaterials – Plasma Processing – Metal, Metal Oxides, and Other Materials
  - University of Liverpool / Unilever – High Energy Mixing – Dispersion / Reactive Mixing
  - ICI Measurement Science Group – Characterisation – PSD in dense media and nanocomposite development
- Option to use facilities or collaborate with Providers
- Access to other Network Providers, e.g.
  - Noveon – Dispersants and dispersion processes
  - MacDermid Autotype – Coated plastic films
  - Harman Ilford – Coated films and aqueous precipitation
  - Imerys – Comminution, precipitation, mixing
  - CEMMNT – Characterisation & metrology
  - SafeNano – SHE – Occupational Health / Toxicology consultancy and research
- FP7 consortium building and project management

# Core Provider Status



Core Provider	Status	Technology Platform
Johnson Matthey - Flame Pyrolysis	Existing small scale rig available now New larger (100g/hr) scale rig on-line Q1 2007	Particle Production
Qinetiq Nanomaterials Ltd - Plasma Processing	Existing large scale rigs available now New rapid prototyping rig (100g/hr) available Q1 2007	Particle Production
ICI Measurement Science Group - Nanomaterial Characterisation	Existing facilities available now New facilities on-line from 2007	Characterisation
University of Liverpool - High Energy Mixing	New mixing facility on-line Q3 2007	Dispersion, Functionalisation & Formulation

# Relevance to the NMP call



- Large scale integrating collaborative projects
  - 2.1-1 Nanocomposites
  - 2.5-1 Materials for extreme conditions
  - 3.5-1 3-D nanosurfaces
  - 4.0-3 multifunctional materials for vehicles
- Small or medium scale focussed research projects
  - 2.1-2 Nanostructured coatings and thin films
  - 2.2-2 Nanomagnetic materials
  - 2.2-3 Materials for energy conversion
  - 2.4-2 Nanostructured catalysts
  - 3.2-2 Process Intensification
- Collaborative projects targeted to SME
  - 1.2-2 Equipment and methods for nanotechnology

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