

# Annex 2 Materials UK: Key Performance Indicators

## Accelerating innovation and technology diffusion

- (i) S&T Working Group to publish the reports produced by the Task Group and continue its work highlighting priority topics in underpinning materials technology for the Technology Strategy Board and Research Councils by October 2006 for the 2007 calls for proposals.
- (ii) S&T Group to work with the Energy Group to construct a proposal for an Energy Materials Technology Platform by end of October 2006.
- (iii) Research public funding mechanisms used outside EU to see what lessons can be learned for promoting change within EU rules.
- (iv) Work with financial community through a series of workshops to facilitate investment opportunities for UK firms in materials related activity.
- (v) Materials Assets Connect and Materials Properties Validation Centre formally launched by end of December 2006.
- (vi) Establish intelligent signposting to sources of best practice tools covering all aspects of the business process (including on-line benchmarking of performance) and technology roadmaps via the Materials KTN by end of September 2006.
- (vii) Run at least 6 best practice awareness workshops targeted at the materials community each year.

- (viii) Annual survey of materials community indicates a 25% increase in use of best practice year on year as a result of the Representative Body's work.
- (ix) Deliver a standard methodology for life cycle and design for life concepts and factual data for materials within a sustainable production and consumption agenda via the KTN nodes and Property Validation Centre by end of December 2006.

## Knowledge transfer

### Improving Knowledge Transfer Infrastructure

- (i) Provide up to date information and intelligent signposting in your technology areas within UK and to enquirers from overseas that offer business opportunities for the UK - deal with at least 1,000 such requests in year 1, rising to 5,000 in year three.
- (ii) Target number of organisations actively engaged with the network to rise to 20,000 by year three.
- (iii) Review with other Faradays/KTNs within MatKTN how provision of technology translators can be optimised across the network and work with the MatKTN Operations Board to achieve this.

### Improve UK assisted productivity and competitiveness

- (iv) Number of start-up business's to be assisted or facilitated to be 50 per year.

- (v) Using technology translators interact on a one-to-one basis with members to define what issues they have and help to solve them, giving guidance and support as appropriate. Business assists to increase new company business in total by £100m in year one, £200m in year 2 and £500m in year three.
- (vi) Define skills development needs of the community and how to address these working with appropriate intermediaries and delivery organisations - first audit and plan to address needs to be completed by end of year one.

### Improve Knowledge Exchange between assisted businesses and the science base

- (vii) Achieve at least 200 new Industry/Science base collaborations by year three.
- (viii) Achieve at least 100 new Business/Business collaborations by year three.
- (ix) Produce 20-30 newsletters per year and monthly e-mail alerts to keep UK members alert on current developments.
- (x) Work with MatKTN Director and Secretariat to run on line and off line events, including workshops - around 20 or more per year.
- (xi) Ensure news items are fed through to MatKTN Secretariat in a timely manner - at least 30 per year.
- (xii) Engage with the appropriate regional networks to ensure that regional clusters are informed of the network and how to participate through the MatKTN.

### Increase innovation activity amongst assisted businesses

- (xiii) Use the public areas with the MatKTN to encourage project proposal brokerage for the DTI's Technology Fund and other collaborative support initiatives.
- (xiv) Leverage in Funding from the RDAs or other public bodies to enhance the work of each network and where needed fill gaps in the UK's technology portfolio with regional centres or through enhancement of existing technology providers capability to ensure hands on access to state of the art technology is available for UK firms.
- (xv) Generate 100 good R&D proposals with success rate of 1 in 4 per year.

### Improve the ability of assisted business to exploit global knowledge

- (xvi) Establish links with existing complimentary research and other communities, including Faradays outside the MatKTN through regular meetings and joint events - at least 10 per year.
- (xvii) Produce or update existing foresight technology and research road maps that identify technology or research themes to support UK industry every two years.
- (xviii) Produce as least one state of the art review per year on developments within each key technology area.

## Linking design

- (i) Work with the Design Council and other agencies such as RCA to develop a design for functionality node within the Materials KTN that will be fully operational by end March 2007.

- (ii) Linking design and technology through this node generates new business opportunities and products for UK firms of the order of at least £10m per year by end of December 2007.
- (iii) Communicate the UK excellence in Design to Specifiers and Accreditors, through international workshops in design to attract OEMs to the UK for design for functionality.

## Energy

- (i) Energy Working Group to be established and have had first meeting by end of March 2006.
- (ii) Group to take account of all existing activity going on via research councils and elsewhere, then identify opportunities for materials in energy efficiency, generation, transmission, storage, conservation, and security of supply and produce an action plan to address them by end of June 2006 feeding in as appropriate to the energy review.
- (iii) Identify opportunities for UK materials producers and processors that will generate significant new business within 5 years (increase of at least 5%).
- (iv) Report progress on a quarterly basis to the Representative Body, over the initial two year life of this group.

## People & skills

- (i) People and Skills Working Group established and meets for first time in April 2006 to start defining a two year programme of work to address the IGT recommendations.
- (ii) Work to ensure Manufacturing Skills Academy delivers appropriate vocational training to fill the gaps for the materials industry. Initial contact with SEMTA by end of June 2006.

- (iii) Provide basis for a register of skilled vacancies in the UK materials community on KTN by end of September 2006 and have service fully operational by end of December 2006.
- (iv) Initiate providing knowledge of and access to education and training courses relevant to the broad range of skills required for the production, processing, safe use, re-use and recycling of materials via KTN nodes by end of June and have service fully operational by end of December 2006.
- (v) Develop mechanism by end of December 2006 for rapid transformation of graduates or final year students into specialised areas required to fill skills gaps - to facilitate this appropriate foundation degree courses may need to be designed.
- (vi) Research and deliver longer term work experience projects for schools to stimulate and promote a greater understanding of the materials industry including the challenges and opportunities offered.

## Image

- (i) Develop key messages for youth report via five regional youth focus groups in April/May 2006.
- (ii) Produce youth report by June 2006 and disseminate via series of regional workshops over following six month period.
- (iii) Work with national curriculum review team to influence optimise use of materials to teach science at primary school level in the curriculum review to be completed by September 2006.

- (iv) Provide access to and facilitate understanding of the various regional and devolved administration materials strategies to avoid duplication and optimise UK resources to enhance the image and an appreciation of the importance of materials to everyday life.
- (v) Establish Best Practice framework for Sustainable Production and Consumption along with social responsibility and promote its adoption widely across the UK materials community.

## Policy & regulation

- (i) Policy & Regulations Group established and meets for first time in April 2006 to define how best it can build on all the available expertise in all the organisations linked to the KTN on policy issues so that the Representative Body can develop a sound coherent strategy for communicating with HMG (and the EU where appropriate) on issues of common concern adding measurable value to the lobbying efforts of individual materials groups.

## International alliances

- (i) Develop strategy for international alliances with other countries (e.g. Brazil, Korea, China, Russia, India) by building on:-
  - (a) initial links in Singapore to develop at least three ongoing partnerships that will lead to new business and collaborative R&D opportunities by the end of June 2006;
  - (b) initial dialogue with Fraunhofers to define scope for developing new collaborations including defining what the business gains could be for the UK materials community from these by end of October 2006.

## Organisational

- (i) Management Board for the Representative Body established by end of March 2006 with Chairman and Secretariat in place and first CEO by June.
- (ii) Business Plan for Materials Property Validation Centre to be submitted for consideration by London Development Agency by end of June 2006.
- (iii) Management Board to meet in June and October 2006 then bi-annually in March and October each year thereafter.
- (iv) Business plan for creation of Materials Assets Connect (to optimise utilisations of R&D assets) to be submitted to DTI and EPSRC in July 2006.
- (v) Representative Body established as a company limited by guarantee with articles of association and a memorandum of understanding agreed by end of September 2006.
- (vi) Representative Body to take ownership of Materials Knowledge Transfer Network by end of October 2006.
- (vii) Produce report of progress on taking forward IGT recommendations by end of March 2007.