

Status Report to LSUF on Formulation of Ionising Radiation Programme 2007-2010

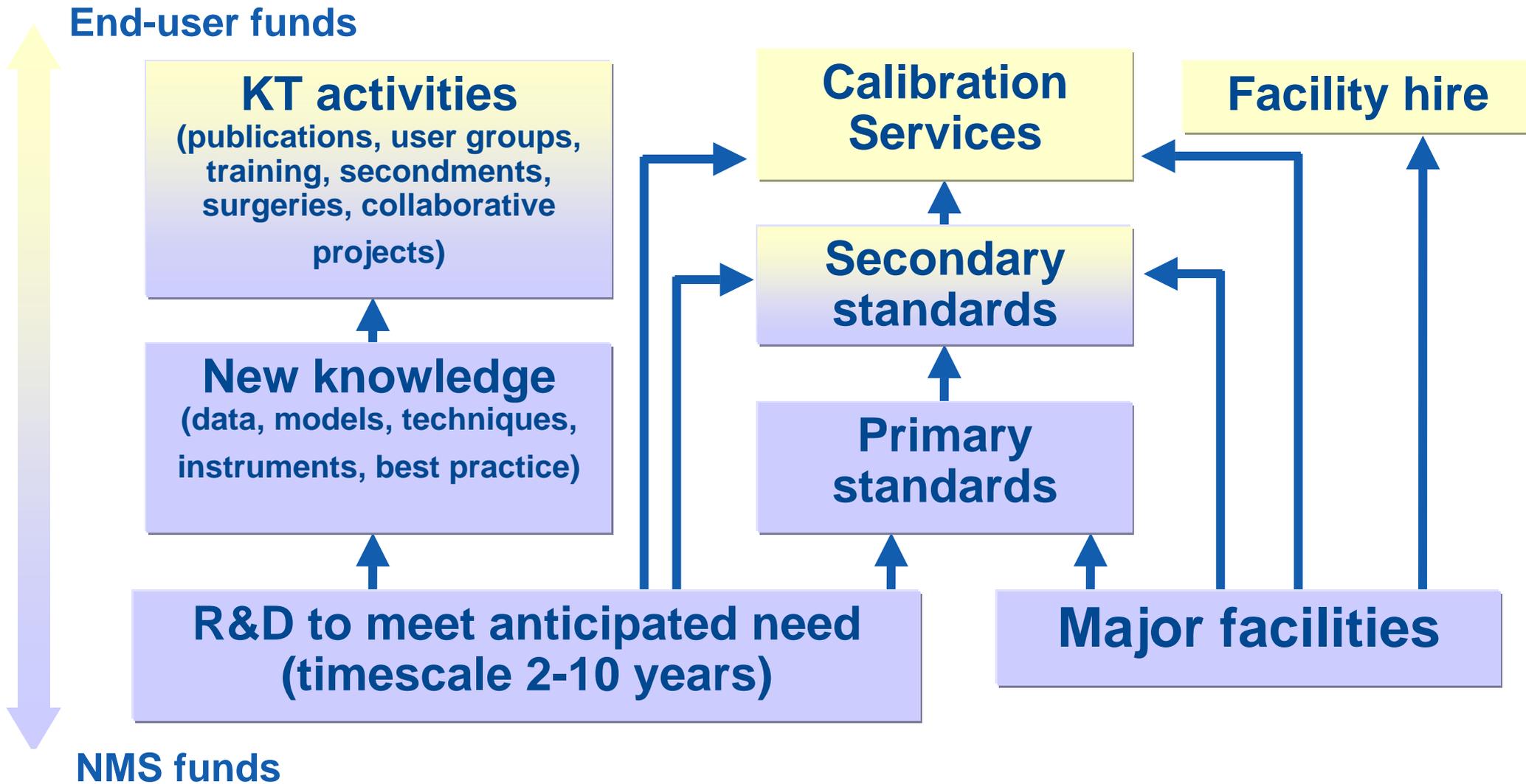
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Context

- DTI funds the National Measurement System (NMS)
- Typically NMS programmes run for 3 years
- The current Ionising Radiation programme runs to Sept 2007
- We are now formulating the 2007-2010 IR programme
- Also need to produce an outline for the 2010-2013 programme

NMS activities



NMS will fund

- Development of new designs of secondary or tertiary standards
- Development of new instrument designs
- Development of new calibration services
- Development of new type testing services
- Development of new training courses
- Development of new codes of practice or good practice guides
- Conduct of inter-comparisons
- Provision of online material, including good practice guides, NPL reports, etc.

NMS will not fund

- On-going delivery of calibration services
- On-going delivery of type testing services
- Provision of instruments
- Provision of reference sources
- Provision of printed copies of good practice guides
- Customer use of facilities

Formulation Timetable

- *24 May* *Orientation with MAC WG*
- *5 Jun* *NPL staff brain-storming workshop*
- **Jun – Nov** **Consultation to identify needs**
- Nov – Jan Develop project proposals – 150%
- Feb MAC WG select 125% for public consultation
- **Mar – May** **Public consultation**
- Jun/Jul Decision conference to agree final content
- Jul – Sep Develop final programme document

Consultation Methods

- **User Consultation Meetings** related to key markets
- **Visits** to key organisations
- Get input from key **conferences & workshops**
- **Online questionnaires** on IR website
- Discussions in **user group meetings**

Areas

The consultation is focusing on 6 areas:

- Healthcare
- Environment & decommissioning
- Radiation protection
- Energy production
- Industrial applications
- Defence & security

There is an online questionnaire for each of these areas at:

www.npl.co.uk/formulation/ionrad/

Thank you for completing those relevant to you.

User Consultation Meetings

- Environment, Decommissioning & Radiation Protection at HPA, Harwell, on 23 October
- Healthcare in Manchester on 27 October and NPL on 31 October
- Defence & Security at Serco Assurance, Harwell, on 10 November

Questionnaire responses received

- Healthcare – 50
- Industrial Applications – 29
- Environment & Decommissioning – 20
- Radiation Protection – 20
- Defence & Security – 15
- Energy Production – 9

Hence problem is getting enough input on Energy Production.
NPL seminar at BNFL at end of November may help.

Envir & Decom top 10 specific needs

From the
questionnaires

1. Low-level radioactivity standards
2. Standards for environmental monitoring measurements
3. Environmental-level standard reference materials
4. Solid reference materials relevant to decommissioning
5. Develop techniques to enable more accurate, consistent and defensible sentencing of waste
6. Provision of annual environmental-level proficiency testing
7. Standards of long-lived nuclides (Ca-41, Ni-59, Mo-93) found in radioactive waste
8. Develop an approach to balance safety and cost in radiation protection for decommissioning
9. Mass spectrometry standards for long-lived radionuclides
10. Provision of surface contamination measurement guidance & calibration services

Envir & Decom top 10 specific needs

From the user
consultation meeting

1. Guidance on sampling
2. Data on natural activity in concrete/brick
3. Database of samples
4. CRM vegetation
5. Mixed nuclides in solid matrix (γ spec calibration)
- 6= CRM fish, molluscs, mussels
- 6= Guidance on surface contamination measurements
- 6= Solid reference materials
- 6= More accurate exempt/LLW measurements
- 6= Land survey techniques
- 6= Data on site backgrounds

Top 10 general output needs

From the E&D questionnaires

1. Organisation of inter-comparisons
2. Reference materials
3. Workshops
4. Codes of practice & Good Practice Guides
5. Calibration services
6. User group meetings at NPL
7. Technical input to government policy making
8. Nuclear data
9. Input to key committees (HSE, BSI, CCRI, ISO, IEC, etc.)
10. Organisation of national proficiency test exercises

Where next?

- Merge IR formulation with Acoustics formulation to create Programme for Acoustics & Ionising Radiation
- 4 Technical themes: Acoustics, Dosimetry, Radioactivity, Neutrons
- Analysis of consultation responses to identify key needs for each community
- Development of sub-project proposals to meet priority needs
- Formation of delivery focussed technical annex
- Development of user community focussed body of programme document
- Consistency check – including checking feasibility & business cases
- Send programme document to MAC WG by 20 January
- MAC WG advise on reducing it to 125%
- Then “public consultation” – make sure you respond



Questions?