

A Users Guide to NPL – Programme Formulation

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Materials



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“If we do not take the opportunities that are there for us in science then we are not going to have a successful modern economy”. Rt Hon Tony Blair. The Prime Minister.



“For the UK to be seen as a global leader in innovation and a magnet for technology-intensive companies, where new technology is applied rapidly and effectively to create wealth [TSB Annual Report 2006]”.



*“Turnover of £200 billion,
more than 15% of GDP,
employs 1.5 million people
directly and 4 million in
supporting industries...”*



*“....This knowledge base
provides a springboard for
innovation across UK
industry”*. Dr David Bott, CEO
of Materials UK.”



Rolling Formulation Concepts



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The budget

- The programme is already running
- Think of the budget as $\frac{2}{3}$ allocated
- Formulation is used to decide how to allocate the next $\frac{1}{3}$
- Every year $\frac{1}{3}$ becomes available again

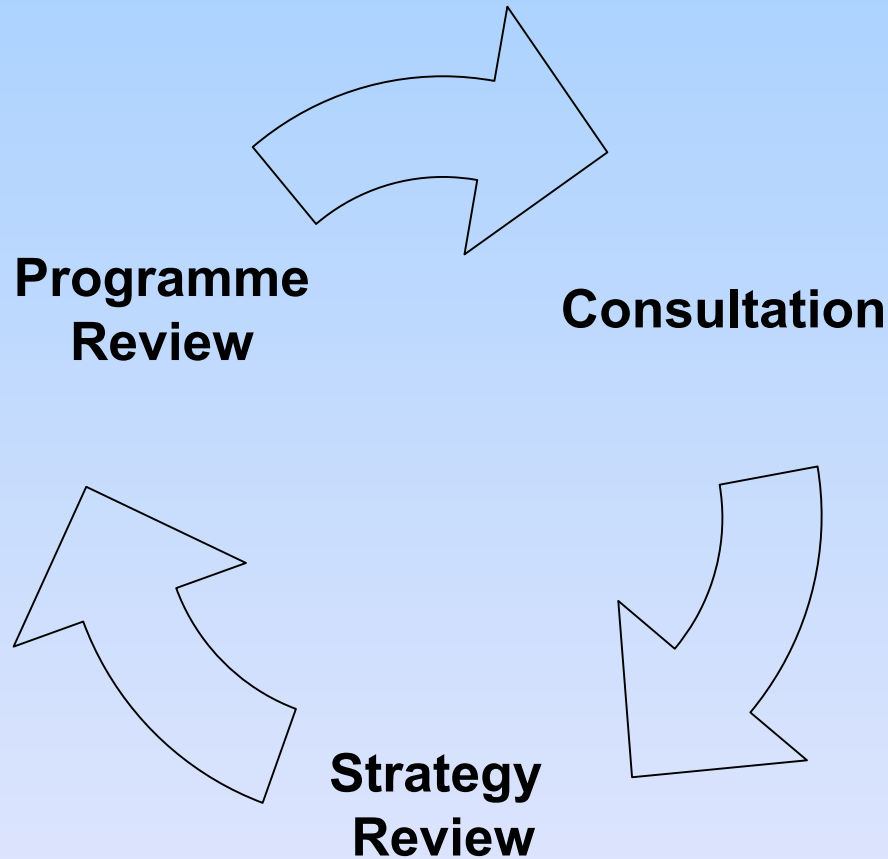


What formulation is about

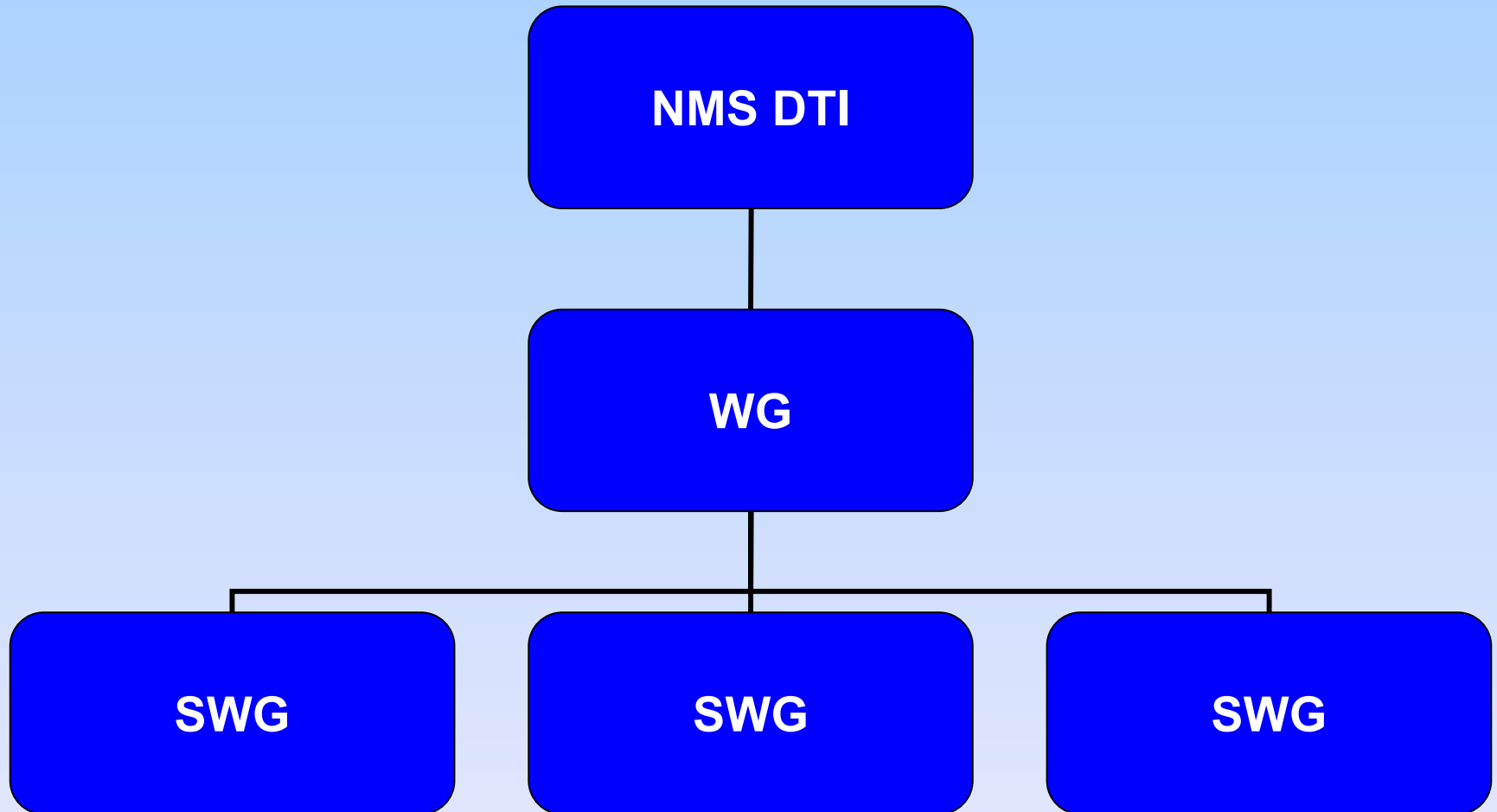
- Understand stakeholder needs
- Developing programme strategy to meet needs
- Proposing and prioritising projects that support the strategy



Rolling Formulation Concept



Decision Process



Formulation Timetable

- Consultation and strategy development On going
- First selection (SWG) (100+%) September 2007
- Final Decision (WG) (100%) January 2008
- New projects start April 2008



Strategy Development

- Start with stakeholder needs
- Use understanding of needs to develop existing roadmaps and frame “grand challenges”
- Devise the strategy to meet the grand challenge



The hopper

- Hopper contains new projects
- Hopper could contain all existing projects
- Hopper should contain more projects than can be funded



Budget

- Will not be known until April 2008
(probably about £7M)
- Closing down existing projects releases the funding and adds to budget for new work



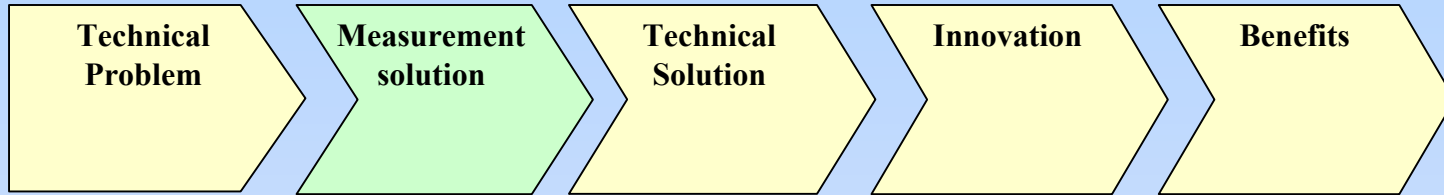
What are we looking for?



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Mission Critical Metrology



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“project must haves”

- ✓ demonstrably innovative and leading edge
- ✓ directly contributing to the UK Knowledge Base
- ✓ directly applicable to UK industry and actively supported by them
- ✓ in support of a current government strategy or theme



Materials Orientation Outcomes

In-situ measurement

**Functional
Materials**

**Modelling, data,
reliability**

Sustainability

**Surfaces and
coatings**

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Objectives for formulation up to April 2008

- Design and implement a rolling formulation process
- Formulate new projects that use all of the available budget
- Make progress on grand challenges
- Take up new grand challenges such as sustainability

