

# RERAD Programme

## Environment Land Use and Rural Stewardship

Integrative research based around Scotland's natural resources



*Enhancing Water Quality*



*Protecting the Nation's Soils*



*Conserving Natural Heritage*

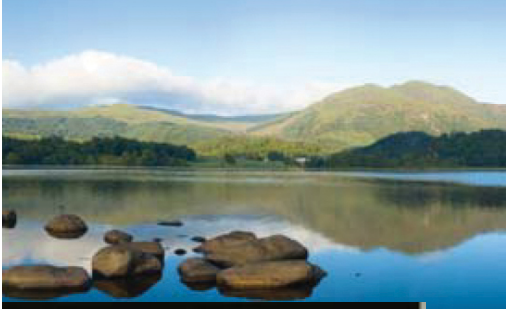


*Developing Rural Scotland*

### To help

- determine key factors influencing function and resilience of Scotland's Environment.
- improve knowledge on hazard identification, the threat that various risks pose, and solutions to adapt and mitigate.
- develop appropriate balance of land use: agriculture/forestry, environmental services, recreation, tourism, wildlife refuge to enhance Scotland's sustainability and economic development.





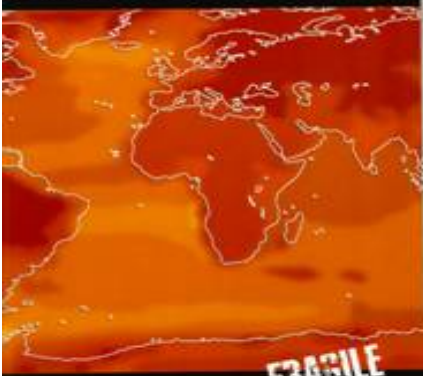
CHANGING OUR WAYS SCOTLAND'S CLIMATE CHANGE PROGRAMME

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Protecting the Nation's Soils

Conserving Natural Heritage

Developing Rural Scotland



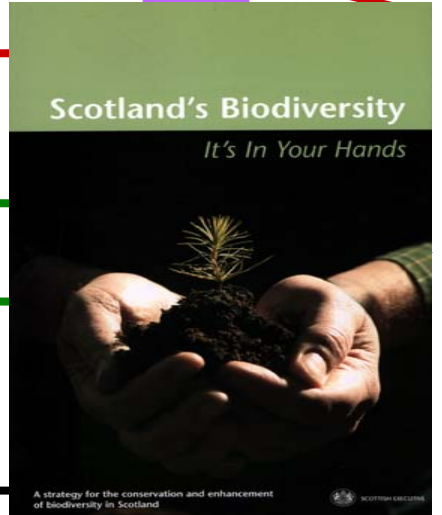
CHOOSING OUR FUTURE SCOTLAND'S SUSTAINABLE DEVELOPMENT CHALLENGE



Responding to Climate Change

Protecting Biodiversity

Sustainability of Rural Scotland



# Environment- Land Use and Rural Stewardship

## Waters Objective

Catchment Research Consultative Group  
Dundee 14<sup>th</sup> Nov 2008

# Catchment Research Consultative Group - purpose

- the purpose of the group is to provide *advice* and *guidance* to the research teams to ensure that their strategic research is tailored to end-user needs, and that the *opportunities* for co-operative working, knowledge exchange and dissemination are maximised.



# Catchment Research Consultative Group

## - core functions

- raise **awareness** of the research programme and its outputs with the relevant stakeholders;
- enable **dialogue/knowledge exchange** and identify tactical opportunities for “synergies”
  - in other words to advise on the planning and delivery of the required research outputs;



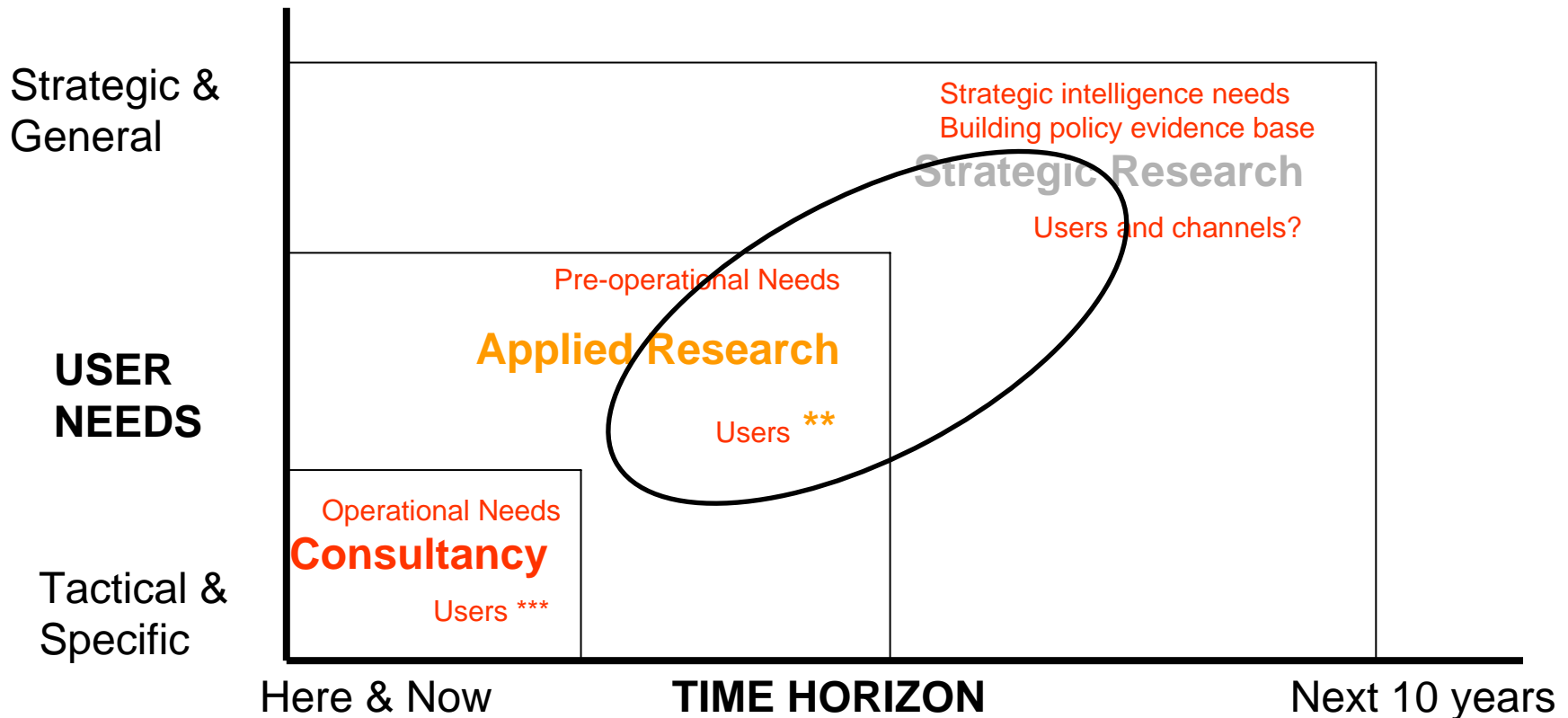
# Catchment Research Consultative Group - core functions

- provide a **forum** to discuss end-user needs and facilitate technology transfer and wider stakeholder engagement and dissemination;
- provide **information** on the effectiveness of the communications from/to the research teams and evidence of where and how this has influenced stakeholder behaviour (e.g. in policy development terms; management practice).



# CRCG : Context

*“Challenge is to develop and maintain effective communication  
between users and research communities”*





# CRCG - today's objectives

- **Introduction and progress presentations on activities in the two waters workpackages**
  - Methodologies to assess water quality
  - Management to enhance water quality
  - Questions arising from the presentations relating to the current and future research?
  - What issues do stakeholders think are coming over the horizon?
- **Afternoon discussion forum on;**

**Partnership and Delivery under the Water Framework Directive (WFD)**





# CRCG - today's objectives

## Partnership and Delivery under the Water Framework Directive (WFD)

Short introduction to the research we are doing.

Present one slide on each of the following questions;

- What partnership projects to support the delivery of WFD is your organisation involved in
- What has your organisation learnt about partnership working and delivery of measures?
- What are the main questions your organisation would like to see answered in terms of partnerships to deliver the WFD objectives?



# CRCG May 08 Climate Change

- Summary of key points
- Lack of data and knowledge on aspects of CC on hydrological processes (critical) and that monitoring should start now;
- Urgent requirement for Leadership and Action identifying issues of conflict and better Institutional synergy;
- Aware that land use change can be driven by short term responses to supply and demand, independent of CC policy (e.g. market driving ploughing up of set aside land);
- Land Use planning and CC planning should be better integrated; scenario evaluation is key. Future prediction of energy sector is also important here;
- Mitigation planning is required immediately (for long term);
- Adaptation responses should focus on “no regrets” and “win-win” options without full information on consequences of CC. These should focus on measures and programmes implemented now without understanding CC variability. Additionally, “climate proofing” of policy and existing infrastructural tolerance to CC should be evaluated;
- Our collective understanding of the effects of CC on ecological processes is poorly understood;
- RBM planning process has to be better integrated with CC thinking and knowledge.



# CRCG May 08 Climate Change

- **What are we doing with this information?**
- Provide input to shaping the current and emergent research under the Environment Land Use and Rural Development Programme;
  - In particular, consideration of these issues in the future RERAD science strategy following out Mid Programme Review (Dec 2008), and indeed in the discussions on the development of a new Scottish Environment Institute
- Help us shape issues taken forward in EU FP7 proposal development;
  - ENV.2009.2.1.2.1 Water resources: *Water management and climate change impacts in the long-term perspective*
- Act as a record of discussions between the members of the consultative group.
- **Hope that you discuss these issues with your organisations and consider how to move the debate forward and how we can bring science, policy and knowledge exchange closer together.**





## Summary of information received from Member States on best practices and approaches for a climate check of the first Programmes of Measures

### 1.Question 3: Will there be a “climate check” of the Programme of Measures?

Climate check	Number of countries
<b>Yes</b>	<b>8 (BE, BG, DK, FI, LT, NO, SI, UK(E&amp;W!))</b>
<b>No</b>	<b>3 (AT, DE, NL)</b>
<b>Not decided yet</b>	<b>3 (CZ, HU, SE)</b>
<b>Answer unclear</b>	<b>2 (FR, RO)</b>





### **Counter productive**

Some new storage infrastructure

Some hydromorphological measures



### **Win-win**

Reduction of water use

Land use management to  
reduce flooding

### **No-regrets**

Control of point sources

Control of diffuse pollution



# Number of countries reporting measures that are seen to be win-win, no-regret or counter-productive in terms of adapting to a changing climate.

Adapation to climate change for each category/type of measure

