Integrated Catchment Management (ICM)

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FRST C09X0305: $2m p.a.
Contract Term: Sept 2003 – June 2009 (currently in Year 4 of 6)
FRST Portfolio: Sustainable Resource Use (SRU)
in this talk ..... 

- Overview of ICM
- Research
- Outputs
- End users
- Take home messages
ICM Research Overview

Perspective – Ridge tops to sea

ICM Approach – Integration & Innovation

Obj 1: Knowledge Management & Collaborative Learning

Obj 2: Catchment Connections

Obj 3: Tools for Management

Obj 4: Visualizing Futures - IDEAS

Outcomes – Improved Management

Sustainable Futures

Inheritance

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Spatial and Temporal ICM

ICM Social Spaces

ICM Process

Information exchange space
Learning space
Research Collaboration Space
Social spaces for Motueka ICM
National and International spaces for ICM

Catchment management & catchment research environment

CONTEXT, KNOWLEDGE AND CULTURE
Identify communities of interest and most congruent catchment scale

Issues definition:
(methods including visioning, SWOT, PSR etc)

UPDATE CONTEXT, KNOWLEDGE & CULTURE
Monitoring & realignment

Attributes
- Holism (catchment scale)
- Integrates environment, economics, social (TBL)
- Cumulative impacts
- Sustainability targets

Knowledge assembly & interpretation

Identify knowledge gaps (researchable)

Research & monitoring (with indicators)

Awareness- Prioritising actions Planning

Actions
- on the ground
- policy development
- need champions for change

A trigger event
End-users  Stakeholders

- 2 levels - RC policy & communities of landowners
- Agencies, iwi, industry groups impt. (heaps)
- Local, national, international
- Scale of operation & influence varies - small to large
Outputs

• Heaps – traditional K products
• Lots of workshops, hui, AGMs etc
• Shorten pathway from research to use
• Accessibility to K products key
ICM Research Benefits

1. Wide recognition of ICM across NZ,
2. Motueka established as NZ’s ‘control plot’ for ICM research
3. International profile
4. Exemplar of integrated environmental research - model for collaborative learning
5. Rare model of regional council (TDC) as active research partner
6. Sherry collaborative research supporting farmers’ actions for Clean Streams Accord
7. Catchments redefined as extending offshore – River Plume Ecosystem concept developed and effects on AMAs demonstrated
8. Recognised leader with TDC in research and policy for water allocation, now being applied in Govt’s Sustainable Water Programme of Action
9. Recognised leader in how to build iwi capacity for resource mgt
Future Research Directions

- Consolidate in Motueka catchment
- Expand into other catchments
- Comparative study of RPE concept
- Build on the integrative process that is ICM
- Define requirements to facilitate nation-wide implementation of ICM