





East Coast Cluster Final Engagement Report May 2015 Cox, M., Serrao-Neumann, S. & Low Choy, D.

Background

This report has been produced as part of the Climate Change Adaptation for Natural Resource Management in East Coast Australia project. The project is being delivered by six consortium partners: University of Queensland (Consortium leader); University of the Sunshine Coast; CSIRO; New South Wales Office of Environment and Heritage; and Queensland Department of Science, IT, Innovation and the Arts (Queensland Herbarium) to foster and support an effective "community of practice" for climate adaptation within the East Coast Cluster regions that will increase the capacity for adaptation to climate and ocean change through enhancements in knowledge and skills, and through the establishment of long term collaborations.

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Acknowledgements

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ENGAGEMENT JOURNEY



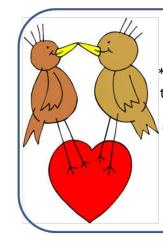
6 regions, 6 research organisations, some existing relationships



Aim to deliver relevant research leading to lasting change and regions well-adapted to climate change



Needed good working relationships, high quality research, well-understood needs



We recommend:

* a longer romance before
the marriage (analyse the
needs)

* spend more time in the

- regions

 * engage earlier with
- * engage earlier with broader stakeholders.



Now we are well placed to start a collaborative research project...



Have delivered a smorgasbord of products, some more useful than others



We would like to continue the relationships, support NRM and continue targeted projects



Problems with:

* mis-match in
timing and funds

* staff churn

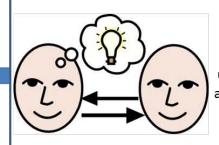
* not all needs met

* not all products

useful

* misunderstandings with

funders



We have good
working
relationships
and improved
understanding,
although it took
a while to
establish the
needs

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ENGAGEMENT SUMMARY

THE GOAL

research organisations working together to achieve:

mainstreamed climate change adaptation in NRM planning, based on high quality, useful research.

THE PROCESS

The project was initially developed by the lead researchers from each of the consortium partners, with input from at least one of the NRM bodies. At the start of the project, representatives were identified from each of the 6 regional NRM bodies in the cluster. A Planners Working Group and Project Reference Group were established.

The first of the Planners Working Group workshops aimed to identify the needs of the NRM bodies as a focus for research by the consortium partners. Subsequent workshops including presentations and discussions from consortium researchers, researchers from other clusters, the national AdaptNRM team and the national projections project. The workshops were also key in facilitating interactions among the planners as a 'community of practice'.

Outputs from each of the research projects were delivered throughout the project, and interaction between the researchers and the practitioners at the workshops was a key part of the research communication process.

THE FUTURE

Once working relationships have been developed and understanding built, it is important to maintain the relationships to maximise benefits from the project. Researchers will continue to work on climate change adaptation projects and are keen to continue to support NRM bodies, particularly in developing targeted projects.

THE GOOD

- The East Coast Cluster includes six regional NRM bodies and six The Planners Working Group was effective in establishing and building relationships between the researchers and practitioners, broadening the focus of the researchers, sharing project ideas across regions and establishing processes to communicate science The PWG formed part of the process to communicate the research for NRM planning.
 - The community of practice of planners worked well as it allowed the regions to share project ideas and progress, collaborate on projects and develop spin-off projects.
 - Collaborations between researchers contributed to better multi-disciplinary understanding and improved understanding, which will have ongoing benefits for future collaborations.
 - The cluster format was useful in facilitating interactions between regions that might not otherwise have occurred, particularly interactions across the state border.

THE NOT QUITE AS GOOD

- Connections between clusters were not as effective as they could have been – this was seen as a missed opportunity.
- There was a mismatch between the timing and provision of funding for the researchers and the regional NRM bodies, which meant the research products were often delivered after the planning processes were significantly complete.
- Institutional change and staff churn in the NRM bodies caused disruptions to the ability of the NRM bodies to fully engage in the project.
- The contract arrangements were not always flexible enough to allow researchers to change their projects to better meet the needs of the NRM bodies.
- The 'smorgasbord' of research outputs provided some that were useful and some that were less useful.

RECOMMENDATIONS

Start with the needs

Greater involvement and communication with the practitioners during the scoping phase (before contracts and milestones are agreed) would allow the researchers to be matched to the needs of the practitioners (not the other way around).

Practice makes perfect

Some of the best learning opportunities came from practitioners sharing their experiences an approaches. Building a community of practice with a clear focus facilitates more rapid spread of good approaches.

Get together

Face-to-face interactions are important in building relationships. Workshops also provide an effective way to communicate research – far more effective (for those who attend) than writing a report.

Get regional

Any time spent by the researchers in the regions and with the NMR bodies is beneficial. It would also be useful to engage other key stakeholders earlier in the process.

Get national

Greater collaboration and sharing between the clusters could have provided useful information and facilitated greater use of research outputs. Communication during the project is at least as important (if not more) as communication *after* the project.

Stay the distance

It is important that both practitioners and researchers are committed to participating in the project for its entire duration. Some degree of churn is expected, but it is best to plan to have everyone involved throughout.

Build on it

Once a project is complete, established relationships make a great foundation for another project.



































THE EAST COAST CLUSTER

The East Coast Cluster (Figure 1) comprises the six coastal regional bodies between Rockhampton and Sydney:

- Fitzroy region: Fitzroy Basin Association (FBA)
- Burnett-Mary region: Burnett-Mary Regional Group (BMRG)
- South East Queensland region: SEQ Catchments (SEQC)
- Northern Rivers region: Northern Rivers Catchment Management Authority (CMA) (NRCMA) / North Coast Local Land Services (LLS)
- Hunter-Central Rivers region: Hunter-Central Rivers CMA (HCRCMA) / Hunter LLS
- Hawkesbury Nepean: Hawkesbury Nepean CMA (HNCMA) / Greater Sydney LLS.

The research consortium comprises:

- The University of Queensland (UQ) (project lead)
- Griffith University (GU)
- University of the Sunshine Coast (USC)
- CSIRO
- New South Wales Office of Environment and Heritage (OEH)
- Queensland Department of Science, IT, Innovation and the Arts (Queensland Herbarium).

The East Coast Cluster landscape includes significant natural features: reefs, beaches, waterways, brigalow, rainforest. It also includes 5 of the 10 largest urban areas and greater than 42% of Australia's population.

































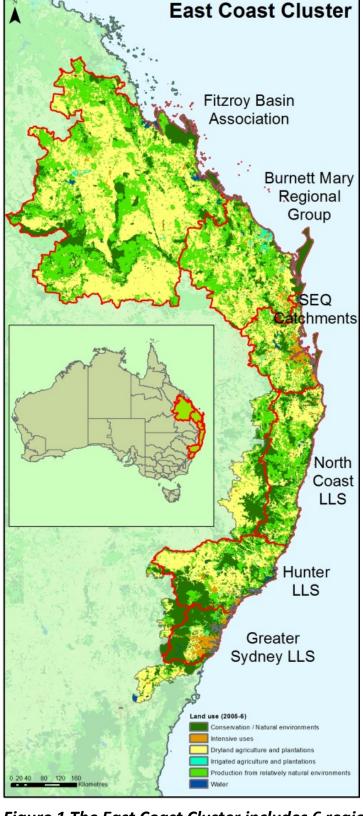


Figure 1 The East Coast Cluster includes 6 regional NRM bodies from Rockhampton to Sydney













The Climate Change Adaptation

for Natural Resource

Management (NRM) in East

Coast Australia Project aims to

foster and support an effective

"community of practice" for climate change adaptation

within the East Coast Cluster

NRM regions that will increase

the capacity for adaptation to

climate change through

enhancements in knowledge and skills and through the establishment of long-term

collaborations.



























EAST COAST CLUSTER RESEARCH SUMMARY

Modelling distribution of species under climate change scenarios

Terranova.org.au

Three-pass framework for assessing coastal vulnerability

Maps of first-pass assessments

Downscaled climate projections
Datasets and maps
http://climatechange.environment.nsw
.gov.au/

Updated climate change projections
Datasets, maps and analysis tools
http://www.climatechangeinaustralia.g
ov.au

Reflection and analysis of research to practice engagement processes [report link]

Analysis of adaptive capacity of one regional body
[report link]



Socio-economic vulnerability of agricultural industries under climate change
Terranova.org.au

Briefing notes for horticulture, grazing, coastal tourism including integrated vulnerability and industry responses [link]

Syntheses including scenario planning, coastal vulnerability, revegetation for use in NRM planning [link]

Report on carbon farming opportunities potential resulting landscape changes

Carbon and biodiversity revegetation

Scenario planning workshops for NRM bodies and key stakeholders to build capacity to apply in strategic planning [link]

Modelling of biodiversity persistence under climate change and mapping of conservation benefits

Terranova.org.au





























PROJECT GOALS AND GOVERNANCE

PROJECT GOALS

The overarching goal of the project was to achieve:

"changed practice based on well tested evidence whose value to society exceeds the cost of enquiry" (Roux et al. 2010). The researchers described the goals in more detail (Figure 2):

The challenge for the research consortium is to deliver high quality research that results in outputs that lead to managers making better decisions, leading to lasting change and adaptation pathways. The ultimate aim is sustainable natural resource management in regions that are well adapted to climate change. To get there, we need to provide a lasting boost to the capacity of planners in regional bodies to respond to change; we need to create a situation where planning with climate change in mind is mainstreamed. We need to integrate and synthesise a diverse set of data and knowledge that crosses discipline boundaries, to provide succinct message that RBs can relate and communicate. We also need to provide ways to convey messages that lead to adaptation pathways (not too negative). The research must be useful for NRM groups, but also high quality and interesting research. We would also like to maintain or develop successful cross-disciplinary working relationships that can continue into the future.

PROJECT GOVERNANCE AND ENGAGEMENT PROCESSES

Two formal structures were established to govern the project (Figure 3):

A project reference group (PRG), comprising a lead researcher from each of the consortium partners and Chief Executive Officers (CEOs) or General Managers of East Coast Cluster regional bodies provided oversight of the project. The PRG provided overarching guidance for the Project, facilitated communication among groups and feedback on project activities.

A Planners Working Group (PWG) was also established to facilitate the adoption of project outputs and outcomes by the regional bodies. It comprised planners from the regional NRM bodies, planning researchers from Griffith University, and other researchers when availability allowed.

Both groups convened twice a year from April 2013 to April 2015; the PRG by teleconference and the PWG in person at workshops held in Brisbane.

In addition to the PWG and PRG, other engagement processes included:

- Researcher collaboration
- Stream 2 meetings
- Individual involvement
- Planners network and cross-cluster collaboration.

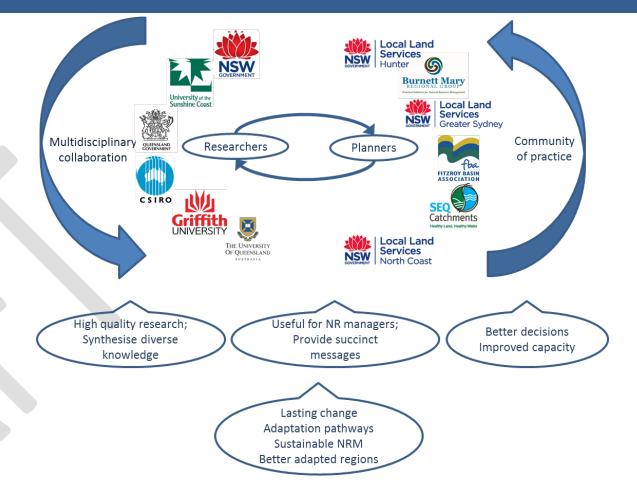


Figure 2. Aspirations for researcher-practitioner interactions

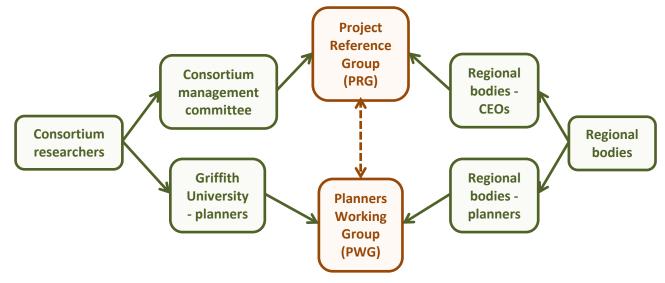


Figure 3 The formal governance structure of the project included researchers and practitioners in the Planners Working Group and the Project Reference Group.

































PLANNERS WORKING GROUP

PLANNERS WORKING GROUP

The Planners Working Group (PWG) was designed to be the primary mechanism for information sharing and capacity building throughout the Project. PWG members included representatives from each of the NRM bodies in the Cluster, the Griffith University team and the researchers when available to attend workshops.

The overarching aim of the PWG was to "support the building of a network of informed and articulate NRM agents with knowledge of current climate science and capacity to use current tools to engage stakeholders in NRM planning for climate change adaptation".

The PWG functioned as a 'community of practice', that is, a group of (NRM planning) practitioners increasing their knowledge and expertise (around NRM planning for climate change adaptation) by interacting on an ongoing basis. The planners working group formed the core group of the community of practice, with the broader group of stakeholders participating when activities aligned with their interests. In this way, the project contributed to building capacity within the wider community to effectively plan for climate change adaptation.

Planners Working Group workshops were held approximately every six months from May 2013 to 2015 (5 workshops). All workshops lasted for two days. The workshop schedule, topics and workshop reports are given in Table 2.

One or more representatives from all NRM bodies attended all workshops, with the exception of Hunter LLS at the November 2014 workshop and BMRG, FBA and Hunter LLS at the April 2015 workshop (Table 1). There was staff churn during the project, with the primary contact for North Coast LLS, BMRG and FBA changing during the project.

Table 1. Attendance at Planners Working Group meetings showing staff churn during the project

NRM body	Contact	Role	Apr 13	Nov 13	Apr 14	Nov 14	Apr 15
Fitzroy Basin Association	RE	Primary contact until July 2014	У	У	У	У	n
	ER	Primary contact from July 2014	n	n	n	n	n
Burnett Mary Regional Group	RL	Primary contact until Sept 2014	У	У	У	n	n
	GM	Planning officer from Nov 2014	n	n	n	У	n
	EM	Operations manager	n	n	n	У	n
SEQ Catchments	AD	Primary contact	У	У	У	У	У
North Coast LLS	MP	Primary contact until June 2013	У	n	n	n	n
	GM	Primary contact June 2013 - June 2014	n	У	У	n	У
	JM	Primary contact from June 2014	n	n	n	У	У
Hunter LLS	LC	Joint contact until Aug 2014	У	n	У	n	n
	AG	Joint contact	У	У	n	n	n
Greater Sydney	BD	Primary contact	У	У	У	У	У
LLS	MB	Project officer from April 2014	n	n	У	У	n

Table 2. Date, topic and interim report title for each of the 5 workshops held during the project

Date	Topic					
13-14 May 2013	Needs analysis					
Analysis of the Needs of the East Coast Cluster Regional Natural Resource Management Bodies in Relation to Planning for Climate Change Adaptation						
18-19 Nov 2013	Climate change projections + PWG					
Workshop Review November 2013						
29-30 Apr 2014	9-30 Apr 2014 PWG					
Workshop Summary April 2014						
25-26 Nov 2014	Scenario planning + PWG					
Planners Working Group Workshop Summary November 2014						
NRM Futures – Scenario planning for climate change adaptation Workshop 1 Summary						
22-23 Apr 2015	Scenario planning + PWG					
Scenario Planning report						
Workshop report						

practice to support
a network of
informed and
articulate NRM
agents with
knowledge of
current climate
science and
capacity to use
current tools to
engage
stakeholders in
NRM planning for
climate change
adaptation

A community of

































EVALUATION AND REFLECTION PROCESS

EVALUATION AND REFLECTION PROCESSES

The overall objective of the project was to achieve "changed practice based on well tested evidence whose value to society exceeds the cost of enquiry" (Roux et al. 2010). However, it is recognised that the processes that lead to changed practices occur over long timeframes, and it is difficult to assess the extent of changes and their benefits until long after projects have finished.

Roux et al. (2010) proposed a framework that captures the elements that contribute to meeting this outcome, as a basis for participative reflection. The framework was designed to apply to projects involving three main parties: funders (the federal government), research providers, and research end users or practitioners (NRM bodies). Campbell et al. (2015) applied the framework in a critical reflection process, and found that most of the criteria were the joint responsibility of two or more of the groups identified.

The framework was used as the basis of evaluation in the final workshop. The process for adapting the framework to this project involved removing criteria that were seen to be the sole domain of one group; combining some of the criteria where there was substantial overlap; and rewriting some of the definitions to be less research-centric. The resulting framework is shown in Box 1.

Critical reflection was undertaken twice during the project in April 2014 and 2015. Both processes included the development of practice stories to document individual and group experiences. The workshop in April 2015 also included identification of bridges, barriers and opportunities for improvements against the key criteria listed above. Individual practice stories and narratives are provided in the two workshop reports, and specific comments against these criteria are included in the April 2015 report. The following sections summarise the overall bridges, barriers and opportunities for engagement.

References

Campbell, C. A., E. C. Lefroy, S. Caddy-Retalic, N. Bax, P. J. Doherty, M. M. Douglas, D. Johnson, H. P. Possingham, A. Specht, D. Tarte and J. West (2015). "Designing environmental research for impact." <u>Science of The Total Environment(0)</u>.

Roux, D. J., R. J. Stirzaker, C. M. Breen, E. C. Lefroy and H. P. Cresswell (2010). "Framework for participative reflection on the accomplishment of transdisciplinary research programs." Environmental Science & Policy **13**(8): 733-741.

Box 1. Description of key criteria for critical reflection on the effectiveness of the engagement processes (adapted from Roux et al. 2010)

Leadership

Program funding and consistent leadership has been established that is conducive to long-term research including the advancement of facilities, inter-project learning and application by practitioners.

Continuity & organisational capacity

Funders, researchers and practitioners maintain commitment and engagement to the research program over the whole course of a transdisciplinary research program and support the capacity and availability of their staff to fully engage in the project.

Discourse

Events have been programmed and funded to develop and sustain discourse to strengthen relationships between research providers, practitioners, funders and the wider community to inform and contextualize the research.

Flexibility

Researchers and practitioners have freedom to explore modes and structures of practice within appropriate limits of scientific and financial accountability, and to change research projects in line with emerging practitioner needs.

Adaptive learning

Feedback from project and program evaluations is being used to improve processes, relationships and behaviours – at program, project and individual level, and during the project not just at the end.

Knowledge sharing & relevance

New knowledge is developed with the explicit recognition of its intended application, as measured by the degree of interaction with research users and their ability to apply the knowledge. Researchers and practitioners share their findings and insights with each other, peers, and parties that represent other knowledge forms.

Capacity building for adoption

The capacity of all participants to understand and communicate with each other and the research-practice nexus is improved. Research processes are designed to improve the capacity of practitioners to engage in the research process and to utilize relevant new knowledge.

Adaptive decision-making and policy revision

Practitioners have the processes and flexibility to incorporate new research findings into their decision-making, strategic planning and policy where relevant.



































WHAT WORKED? ENGAGEMENT BRIDGES

Planners working group

The Planners Working Group (PWG) workshops were useful as they facilitated:

- regular interaction between the researchers and the planners that contributed to developing relationships
- sharing of project ideas, progress and initiatives across regions
- broadening the understanding and focus of the researchers away from 'academic' outputs to the 'real world'
- establishing procedures & processes to communicate science into NRM planning.

Having workshops twice a year instead of once as originally planned was important in maintaining momentum and engagement.

Although the high level of staff churn was an issue for the continuity of the group, the PWG was regarded overall as one of the more successful elements of the project.

+ Discourse + Adaptive learning

Relationships

project was useful for building relationships and enhancing interactions and understanding between the researchers and practitioners.

Some regions enjoyed participating in the project as it provided an escape from mundane activities and interact with like-minded people ("like an injection of monkey glands").

+ Knowledge sharing and relevance

Community of practice

Each PWG workshop included time for the regions to share progress and ideas. Practitioner sharing and learning was identified as a useful way to:

- hear about innovative ideas
- develop partnerships and collaborations
- develop understanding of different planning processes.

Some NRM bodies developed spin-off projects based on those of other regions.

Having a common point of focus across the regions helped, although the regions were often at different points in their planning.

The sessions allocated for the community of practice were always highly rated in workshop evaluations.

+ Adaptive decision-making & policy revision

Single point of contact

One researcher was identified as the primary point of contact for the regional bodies. Benefits included having a clear role and responsibility for maintaining communication to prevent liaison from becoming too diffuse. However, it was important not to restrict interaction between NRM bodies and other researchers.

Regular communication (emails) sometimes useful but sometimes a distraction from important messages.

+ / — Discourse

Inter-regional interactions

Inter-regional Interactions were useful in:

- encouraging interactions and relationships across the NSW-Queensland border, which had been limited before the project
- initiating a collaboration between the three NSW LLS to develop a joint spatial modelling tool for targeting biodiversity and land management actions with multiple benefits.

In addition, prior to the project, the Queensland NRM planners had established the Queensland Planners Network, which was successful in sharing planning practices and research across regions.

+ Adaptive decision-making & policy revision

Individual connections

Interactions between the NRM bodies and individual researchers included:

- individual researchers participating in planning activities e.g. workshops.
- the UQ team meeting with FBA and industry groups to groundtruth the modelling approach. This provided important feedback to the project.

However, due to a lack of funding and the dispersed nature of the cluster, this was the only visit by a researcher to the regions. It was generally agreed that opportunities for more researchers to travel to the regions and interact with other NRM practitioners would have been greatly beneficial.

+ / — Knowledge sharing and relevance

Researcher collaboration

The project contributed better understanding among the researchers across disciplines and improved collaborations and relationships, even among researchers who had previously worked together.

It was recognised that improved understanding in multi-disciplinary teams is an ongoing process, and does not happen all at once. It is important to have a constructive process that advances collaboration, rather than expecting it to happen automatically.

+ Leadership

Research processes and products

A variety ('smorgasbord') of research outputs were provided, some more useful than others.

Products that were most familiar to the NRM bodies were more easily applied, including:

- climate change projections
- expert panel | weeds and biodiversity modules
 - maps and spatial layers.

NRM bodies acknowledged that social and economic aspects were important but still difficult to include in NRM planning processes.

The process also stimulated different ways of thinking about the future and impacts.

The research will form part of the knowledge base to be used into the future.

- + Capacity building for adoption
- + Knowledge sharing & relevance

































WHAT DIDN'T WORK? ENGAGEMENT BARRIERS

Institutional change

The change from Catchment Management Authorities to Local Land Services in NSW during the project resulted in major disruptions to the project. It included:

- changes to boundaries
- changes in organisational focus, from NRM to broader regional service delivery
- changes in CEOs (representatives on the Project Reference Group)
- changes in staff, with many staff required to re-apply for their jobs
- an overall reduction in staff and funding.

The Queensland NRM bodies also faced reductions in funding and staff and changes in government priorities.

— Continuity & organisational capacity

Cross-cluster connections

The program as designed offered huge opportunities for comparing and sharing information and experience across clusters. However, much of this opportunity was not fully realised due to a lack of mechanisms for interaction across clusters.

The effectiveness of the national workshops was limited as the need for travel made attendance difficult for many NRM bodies.

The lack of a central website to share documents was also an impediment.

Leadership — Discourse

Funding and timing mismatch

The major problem encountered during the project was the mismatch in timing of the funding for the NRM bodies and researchers, with the bulk of the funding for NRM planning delivered before the research outputs were available. In many cases, NRM bodies had to plan or make allowances for outputs that were not yet available. Delays in publishing reports (e.g. the projections) also limited the usefulness in public and stakeholder consultation.

In addition, several of the research groups did not have sufficient funds to employ research staff for the full duration of the project. Some staff were therefore unavailable at the beginning of the project (when projects were being developed) and at the end of the project (when results were available to the NRM planners).

- Continuity & organisational capacity Leadership

Research processes and products

Some of the research outputs in the 'smorgasbord' were not as useful as expected. Researchers usually have a limited set of methods and tools that they can apply to specific types of problem, and it is difficult to change the focus of a research project once contracts have been signed and staff appointed. It is therefore important to match researchers to the needs of the practitioners as early as possible in project development.

Knowledge sharing & relevance

Identifying NRM bodies' needs

One problem was that there was little communication around the needs of the NRM bodies before the project started.

The competitive nature of the tender process as well as limited time for interaction in the project development phase also impacted on project design.

Once the project was underway, the needs analysis process was useful, but took longer than expected.

There was a lack of clarity at the beginning of the project about what was on offer from the researchers.

The NRM bodies were at different stages and their needs did not always align. It was difficult for the NRM bodies to know what they needed at the start of the project.

Discourse

Staff churn

An ongoing problem for NRM bodies is the relatively high rate of turnover of staff, due to the short-term, project-based nature of much of the funding. Churn was most obvious in attendance at the workshops, where only 2 of the 6 regions maintained the same primary contact throughout the project.

Some researchers were not employed for the whole duration of the project due to budget constraints. This was particularly problematic at the start (defining the projects) and end (applying the research) of the projects.

Continuity & organisational capacity

Contracts and governance

There was a lack of clarity in the beginning about what the federal government required, and whether the main client was the federal government or the NRM bodies.

Staff churn at the federal level made it difficult to develop relationships.

There was a lack of flexibility in the contract arrangements – the federal government requested products that were identified as milestones, even when the NRM bodies had identified that their needs were different.

Structuring of project funding meant that some staff were not available at the start of the project.

Flexibility — Leadership

Project Reference Group

The PRG was intended as a mechanism to engage more broadly with the regional NRM bodies and reinforce support for the project from GMs and CEOs. However, GMs and CEOs rarely attended the meetings, often delegating to the planners, who were also the main point of contact for the Planners Working Group. This limited the ability of researchers to communicate more broadly within the NRM bodies.

Leadership

































RECOMMENDATIONS

Scoping needs and projects

Better processes to identify practitioner needs and co-develop the project **before** the contracts are drafted and the projects are developed.

This could be improved by allocating time and resources for interactions before the project starts to co-design the projects, and improving processes to assist practitioners to articulate their needs.

"We needed to spend longer courting before the marriage."

Broader regional engagement

Researchers spending time in the regions and engaging with other practitioners and key stakeholders in each of the regional bodies (including operations staff, general managers and others) would provide benefits in terms of improving the relevance of the project, awareness of the project and the capacity of the practitioners to use project outputs. These visits would need to be explicitly included in project planning, with time and resources allocated.

It could also be useful to engage with key stakeholders of the regions (e.g. local government) earlier in the process.

Commitment to continuous involvement

Some degree of staff churn is inevitable, but projects should be designed to have all researchers and practitioners involved throughout the project. Limiting involvement due to budget constraints is not helpful.

Project design process

When co-designing a project with researcher and practitioner input, the following process may be useful:

- Practitioners explain their immediate situation and requirements, forecast their needs into the future, and identify any existing relevant projects or case studies.
- Researchers explain their interests and capabilities and provide examples of relevant projects.
- Identify common interests to scope projects.
- Researchers provide synthesis of existing knowledge; this builds the relationship, demonstrates capacity and starts the conversation on research application.
- Project development includes specific information on how research outputs could be applied by specific practitioners or organisations.

Multiple sources of information

Facilitating information sharing between practitioners is at least as important as communication between researches and practitioners. Including a community of practice element in projects has multiple benefits; in particular, sharing examples of good practice in applying research can facilitate faster uptake of research. Documenting the processes involved in applying research outputs is also important in facilitating further uptake.

Cross-cluster

Processes to improve cross-cluster interactions during the project could include:

- establishing a forum for online interactions between regions during the project – this could include space for draft outputs as well as discussion space to facilitate ongoing sharing of ideas and rapid uptake of ideas that are relevant across clusters
- resourcing for face-to-face interaction e.g. funding for attendance at national workshops
- recognising the opportunities from increasing interaction and sharing ideas during the project; these are at least as important (possibly more) than disseminating outputs at the end
- facilitating better documentation of projects, particularly the how and the why, to make it easier to share processes across regions and clusters.

Maintain relationships

The start of the project development process was dedicated largely to building relationships and understanding between the researchers and practitioners. Once those relationships are established, it becomes easier to develop further projects.

Consortium researchers will continue to work on climate change adaptation and are interested in continuing to support regional bodies, through targeted projects and maintaining relationships.

Clarity of focus for delivery

Contracts and project design processes should clearly identify the roles and expectations of each party, and provide greater clarity on:

- Who is the primary client the funding body or the research user?
- What happens when contract milestones and deliverables to not align with user needs?

Multiple forms of communication

Greater focus from the researchers on engaging practitioners with the research process and outputs in different ways would be useful. Researchers often assume that the research reports are the primary mechanism by which others engage with their research. In this project, however, personal interaction with researchers at workshops was critical to enhancing practitioner understanding and application of the research. It may be useful to include workshops and individual interactions explicitly as part of the research communication strategy, recognising that the reports are most useful for those not involved in the project.

Similarly, synthesis and summary communication products are essential for engaging audiences with little time to go into detail. It is often useful to combine outputs from more than one research project, and to include examples or case studies of research application.

Cox, M., Serrao-Neumann, S. & Low Choy, D. 2015. East Coast Cluster Final Engagement Report – May 2015. Climate Change Adaptation for Natural Resource Management in East Coast Australia Project, Griffith University. | Page 12

































