

Project Order

Proforma 2011

1. Short Project Title (less than 15 words)

Project S1: Monitoring regional transition

Long Project Title	Monitoring Regional Transition: Coordination across projects and tracking regional trends
GISERA Project Number	S1
Proposed Start Date	7 June 2012
Proposed End Date	31 May 2015
Project Leader	Tom Measham

2. GISERA Research Program

- Biodiversity Research Marine Research Land Research
 Water Research Social & Economic Research

3. Research Leader, Title and Organisation

Tom Measham
Senior Research Scientist
CSIRO Ecosystem Sciences

4. Summary (less than 300 words)

The rationale for this project is the need to understand and monitor the social and economic transitions occurring in Queensland's gas fields in response to gas developments. The project will draw on the lessons of other times and other places, synthesising past experiences and seeking to extract lessons from them.

The project has three main aims:

- To synthesise existing knowledge on the nature of rural transitions and identify key lessons from the literature to build on the successes (and avoid the failures) of past transitions.
- To track the social impacts of regional economic change in all regions affected by CSG development using secondary data available from the Australian Bureau of Statistics. In addition to standard variables such as population and skills profiles, the monitoring program will incorporate an integrated suite of indicators from across all research components including community functioning and well-being resilience, demographics, housing and services and regional economic change.
- To combine and synthesise research outputs from the whole social and economic portfolio. This will take the form of a stock take of the region's social and economic responses to the CSG sector and the social and economic implications and opportunities arising from them. The synthesis will be realised through a research symposium and written summaries for local and scientific audiences.

5. Budget Summary (From Excel Budget Pack worksheet "Project Plan Summary")

Expenditure	2011/12 Year 1	2012/13 Year 2	2013/14 Year 3	2014/15 Year 4	2015/16 Year 5	Total
Labour		119,088	121,929	83,269		324,286
Operating		22,002	18,600	11,200		51,802
Total Costs		141,090	140,529	94,469		376,088
CSIRO		141,090	140,529	94,469		376,088
Total Expenditure		141,090	140,529	94,469		376,088

Expenditure per Task	2011/12 Year 1	2012/13 Year 2	2013/14 Year 3	2014/15 Year 4	2015/16 Year 5	Total
Task 1		141,090	140,529	94,469		376,088
Total Expenditure		141,090	140,529	94,469		376,088

Cash Funds to Project Partners	2011/12 Year 1	2012/13 Year 2	2013/14 Year 3	2014/15 Year 4	2015/16 Year 5	Total
CSIRO		109,259	106,998	46,999		263,255
Total Cash to Partners		109,259	106,998	46,999		263,255

Source of Cash Contributions	2011/12 Year 1	2012/13 Year 2	2013/14 Year 3	2014/15 Year 4	2015/16 Year 5	Total
Australia Pacific LNG		109,259	106,998	46,999		263,255
Total Cash Contributions		109,259	106,998	46,999		263,255

In-Kind Contribution from Partners	2011/12 Year 1	2012/13 Year 2	2013/14 Year 3	2014/15 Year 4	2015/16 Year 5	Total
CSIRO		31,831	33,531	47,470		112,833
Total In-Kind Contribution from Partners		31,831	33,531	47,470		112,833

	Total funding over all years	Percentage of Total Project Budget
Australia Pacific LNG	263,255	70%
CSIRO Investment	112,833	30%
Total Other Investment		
TOTAL PROJECT BUDGET	376,088	100%

Task	Milestone number	Milestone Description	Funded by	Participant Recipient	Start Date	Delivery Date	Fiscal Year	Fiscal Quarter	Payment \$
Task 1	1	Coordination workshop completed	GISERA	CSIRO	Sep-12	Nov-12	2012/13	Quarter 2	41,799.00
Task 1	2	Lessons from literature review distilled	GISERA	CSIRO	Nov-12	Feb-12	2012/13	Quarter 3	42,856.00
Task 1	3	PhD top up Advertised	GISERA	CSIRO	Feb-13	Apr-12	2012/13	Quarter 3	21,428.00
Task 1	4	Analysis of census data completed	GISERA	CSIRO	Apr-13	Jun-13	2012/13	Quarter 4	50,000.00
Task 1	5	Data sharing across projects coordinated	GISERA	CSIRO	Jul-13	Sep-13	2013/14	Quarter 1	45,712.00
Task 1	6	Student research program endorsed by university	GISERA	CSIRO	Oct-13	Dec-13	2013/14	Quarter 2	14,285.00
Task 1	7	Lessons collated and changes in social trends assessed	GISERA	CSIRO	Jan-14	Jun-14	2013/14	Quarter 4	92,857.00
Task 1	8	Symposium designed and completed	GISERA	CSIRO	Jul-14	Dec-14	2014/15	Quarter 2	50,000.00
Task 1	9	Confirmation of 2 Journal articles submitted	GISERA	CSIRO	Jan-15	Jun-15	2014/15	Quarter 3	17,141.00

6. Other Researchers (include organisations)

Researcher	Time Commitment (project as a whole)	Principle area of expertise	Years of experience	Organisation
Tom Measham	0.7 FTE	Social impact assessment, rural social geography	15	CSIRO/ANU
David Fleming	0.5 FTE	Economic Geography, rural development	5	CSIRO
PhD student	1 FTE	Rural social science		TBA

7. GISERA Objectives Addressed

To inform and support change arising from CSG developments to enhance regional and community benefit, and to provide a legacy of knowledge that enables communities in this and other regions to benefit from future resource developments.

8. Program Outcomes Achieved

Improved approaches for assisting communities in responding to resource developments in order to maximise social benefit.

9. Program Outputs Achieved

Outputs include reports, scientific papers, industry workshops, conference presentations, PhD thesis, popular précis of research findings and implications.

10. What is the knowledge gap that these research outputs will address?

This research will improve understanding of the social and economic transitions occurring and likely to occur in Queensland's gas fields. This will better enable communities, industries and government to anticipate and plan for changes arising from gas development.

11. How will these research outputs and outcomes be used by State Government and other managers?

As outlined above, the research aims to improve understanding of the social and economic transitions occurring and likely to occur in Queensland's gas fields. This will better enable communities, industries and government to anticipate and plan for changes arising from gas development. The pathway for impact includes:

1) Who are the parties who could benefit from the work? They include, but are not limited to:

- Gas developers
- Queensland Department of State Development, Infrastructure and Planning

- Queensland Department of Education, Training and Employment
- Queensland GasFields Commission
- Western Downs Regional Council
- Maranoa Regional Council
- Department of Regional Australia, Local Government, Arts and Sport

2) What decisions do or could these people make?

- Assessment of the targeting and implementation of Social Impact Management Plans
- Which infrastructure projects to support
- How to invest in local and regional capacity building

3) What information will you give them to improve their decisions/actions?

- Lessons from regional transition elsewhere (e.g. pitfalls to avoid (if any))
- Trends in demographics and economic change (e.g. to inform infrastructure needs, investment plans and potential business opportunities)
- A synthesis of key findings across the social and economic research program

4) By what means will these decisions be informed by your work?

- Via reference group with invited participation from listed parties
- Formal stakeholder briefings to each listed party
- Popular précis of research findings and implications
- Project reports

5) What will be the benefit of these improved decisions/actions?

- Avoidance of negative impacts experienced in other times and locations
- More tailored decisions on infrastructure and investment
- Better targeted local and regional capacity building

1.2. Project Development (1 page max.)

The projects were developed according to the GISERA's nine-stage research project development process (<http://www.gisera.org.au/documents/research-development-process.pdf>).

The history of regional Australia is one of transition, and the development of coal seam gas represents a new chapter in this story. Social and technical transition continues to occur in response to changes in resource needs and uses in many regions around the world (Bebbington, 2000). Transition that has occurred in other contexts can inform change in Queensland (Olshoorn and Wieczorek, 2006). Holmes (2002, 2006) has argued that the direction, complexity and pace of rural change in Western societies can be seen as a multi-functional transition leading to greater complexity at all scales. There is a tendency identified in the literature for transition to be a haphazard process rather than carefully managed (Rotmans et al 2001; Smith et al 2005). Coal seam gas operations in the Queensland gas fields can be seen as a new step in the history of regional transition and need to be considered in terms of building on past transitions.

The premise of this project is that contextualising and monitoring social and economic transition will be in the best interests of the region.

1.3. Project Objectives and Outputs

1. Benchmark regional transitions

The first aim of this project is to synthesise existing knowledge on the nature of rural transitions and identify key lessons from the literature to build on the successes (and avoid the failures) of past transitions. This phase will be based on desk-top assessment and will result in publications summarising lessons for managing change relevant for the region.

2. Monitoring regional social change

The second aim of this project is to track the social impacts of regional economic change. In addition to standard variables such as population and skills profiles, the monitoring program will incorporate an integrated suite of indicators from across the GISERA social and economic projects such as community functioning and well-being, demographic change and community visions of regional futures. To assist effective monitoring of these broader areas, a student with relevant experience will be recruited.

3. Synthesise research outputs across all social and economic projects

The third project goal is to combine and synthesise research outputs from the whole social and economic portfolio. This will take the form of a stock take of the region's social and economic response to the CSG sector and the social and economic implications and opportunities arising from them. The synthesis will be realised through a research symposium and written summaries for local and scientific audiences.

Research outputs will include:

- Scientific journal papers
- Research symposium
- PhD thesis
- Conference presentations
- Popular précis of research findings and implications.

14. Project Plan

14.1 Project Schedule

ID	Task Title	Task Leader	Scheduled Start	Scheduled Finish	Predecessor
Task 1	Organise and conduct coordination workshop amongst all social and economic projects	Tom Measham	Sept-12	Nov-12	N/A
Task 2	Identify lessons from literature regarding transitions in other sectors across time and space	Tom Measham	Nov-12	Feb-13	Task 1
Task 3	Recruit PhD student for top-up scholarship	Tom Measham	Feb-13	Apr-13	Task 2
Task 4	Analyse ABS data on social trends in all QLD regions affected by CSG development	David Fleming	Apr-13	Jun-13	Task 2
Task 5	Coordinate data sharing across social and economic projects	Tom Measham	Jul-13	Sep-13	Tasks 1 and 4
Task 6	Ensure that PhD program is endorsed by university	Tom Measham	Oct-13	Dec-13	Task 3
Task 7	Collate lessons across projects and assess changes in social trends	Tom Measham	Jan-14	Jun-14	Task 5
Task 8	Design and conduct research symposium across all social and economic projects	Tom Measham	Jul-14	Dec-14	Tasks 1,5 and 7
Task 9	Submit 2 journal articles	Tom Measham	Jan-15	Jun-15	Task 4 and 8

Task 1.

TASK NAME: Organise and conduct coordination workshop amongst all social and economic projects

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2012

- Bring together all social and economic research team
- Improve research linkages across projects
- Mitigate against consultation fatigue through logistical coordination
- Identify members of a reference group to oversee the project

Task 2.

TASK NAME: Identify lessons from literature

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2012

BACKGROUND: Social transition occurs in response to changes in resource needs and uses in many regions around the world. Much that can inform change in Queensland can be learned from the way that transition has occurred in other contexts. In Australia, the direction, complexity and pace of rural change can be seen as a multi-functional transition leading to greater complexity at all scales, with potential for both positive and negative social outcomes.

TASK OBJECTIVE: Identify lessons from literature regarding transitions in other contexts to guide change in Queensland's gas fields.

SPECIFIC DELIVERABLE: Report.

Task 3.

TASK NAME: Recruit PhD student for top-up scholarship

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2012

BACKGROUND:

TASK OBJECTIVE: Capacity Building through support for PhD student.

SPECIFIC DELIVERABLE: PhD top-up scholarship awarded.

Task 4.

TASK NAME: Analyse secondary data on social trends

TASK LEADER: David Fleming

OVERALL TIMEFRAME: 2012/13

BACKGROUND: Determining social trends from secondary analysis is a key component of tracking change. The research will involve identifying key social indicators drawing on the literature review in Task 2 and other analysis including the social impact assessment documentation provided by resource companies as part of licensing requirements. The research will assess change in these factors with available secondary data including the upcoming release of census data collected in 2011 and other related available secondary data.

TASK OBJECTIVE: Explore social trends from secondary analysis across and within Queensland's gas fields and associated regions of impact.

TASK OUTPUTS & SPECIFIC DELIVERABLES: Report.

Task 5.

TASK NAME: Coordinate data sharing

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2013

BACKGROUND: Each of the project components will be either generating new data or analysing secondary data. The purpose of this step is to ensure that these data sets are shared across the projects in order to reduce redundancy and to promote linkages between the projects.

TASK OBJECTIVE: Coordinate sharing of data across the social and economic program

TASK OUTPUTS: Increased coordination across project components.

Task 6.

TASK NAME: Validate PhD program

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2013

TASK OBJECTIVE: To ensure that the PhD program is endorsed through the university, as evidenced by PhD confirmation seminar or candidate advisory committee review

TASK OUTPUTS: PhD program validated.

Task 7.

TASK NAME: Collate lessons across projects and assess changes in social trends

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2014

BACKGROUND: After having coordinated the implementation of the social and economic research projects in Task 1 and shared relevant data in task 5, the purpose of task 7 is to collate the lessons emerging from across the research projects. In addition, the task will involve checking available data for signs of changes in social trends. One complication with this is that the main source of quantitative social and economic data (census) is only released every 5 years so it is difficult to assess this task within the 3 year timeframe of this project. For this reason, we undertake this task using a mixture of available quantitative data from within the project (e.g. survey in social project 2) and other sources. Where necessary, we will supplement this with qualitative data on emerging social trends.

TASK OBJECTIVE: To synthesis key findings from the research program to date.

SPECIFIC DELIVERABLES: Report.

Task 8.

TASK NAME: Social and Economic Research Symposium

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2014

TASK OBJECTIVE: Design and conduct research symposium across all social and economic projects

TASK OUTPUTS: A symposium which presents the findings from the social and economic research program to residents, fellow researchers and industry stakeholders.

Task 9.

TASK NAME: Journal articles

TASK LEADER: Tom Measham

OVERALL TIMEFRAME: 2015

TASK OBJECTIVE: Submit for publication two journal articles based on the findings of the research project.

TASK OUTPUTS & SPECIFIC DELIVERABLES: Two journal papers submitted.

15. Budget Justification

The budget for both this project has been approved by GISERA's Research Advisory Committee and Management Committee.

16. Project Governance

Project management tasks and dissemination activities are specified in *Section 14. Project Plan*.

17. Communications Plan

General communication will be managed by GISERA.

18. Risks

At this stage no major risks particular to this project are foreseen.

The project is essentially drawing on secondary data and synthesis. As such, the inherent risk of the project is low and manageable through professional conduct of staff.

Logistically, tasks 7 and 8 are dependent on outputs from other projects, so delays in those would impact on this project. This risk will be managed through regular interaction with other project leaders and, where necessary, to reduce the goals of synthesis involving lagging projects.

Capacity to deliver: Tom Measham has experience in leading complex, multi-component social research projects in rural regions of Australia. David Fleming has been recruited specifically for this project and is highly suited to the quantitative analysis aspects of the work program. CSIRO has an extensive range of skilled staff who could come on board if, for any reason, any staff member is unable to continue the work program.