

Department of Transport and Main Roads
Noting Brief
DBN13854

To: Director-General

<p>SUBJECT: Managing Climate Risk: Actions for the Queensland Government – consultation</p>	<p>DATE: 2 January 2019 <i>3 Jan 2019</i></p>
<p>Director-General's comments: <i>1. Noted.</i> <i>2. Comprehensive advice - thank you</i></p> <p style="text-align: right;"><i>Stalus</i></p>	

Summary

- The Department of Environment and Science (DES) are developing the Managing Climate Risk: Actions for the Queensland Government (MCR), an action under the Queensland Climate Adaptation Strategy (QCAS).
- DES are wanting to progress the MCR through to the Honourable Leeanne Enoch MP, Minister for Environment and the Great Barrier Reef, Minister for Science and Minister for the Arts for approval, and have informed the Department of Transport and Main Roads (TMR) that they are not intending to take the MCR through the Cabinet process.
- The Queensland Climate Ready (QCR) program has been established at Griffith University. QCR will partner with departments to co-design a climate change governance review and risk assessment plans, a risk assessment toolkit and provide training to assist departments.
- Transport Policy Branch (TPB) will coordinate TMR input via the deputy directors-general and aim to have whole-of-TMR input back by the end of January 2019.

Recommendations

- That you note TPB will:
 coordinate departmental feedback on the MCR

Action Officer:
 Mathew Yong
 A/Manager
 (Transport Policy Branch)
 Tel: 3066 7286
 Date: 21 December 2018

Endorsed by:
 Sally Noonan
 Chief Economist
 (Transport Policy Branch)
 Tel: 3066 7464
 Date: 21 December 2018

Endorsed by:
 Joshua Hannan on behalf of:
 Deputy Director General
 (Policy Planning and Investment)
 Tel: 3066 1400
 Date: 24 December 2018

- coordinate access to the XDI Climate Adaption System (XDI CAS) database to ensure coverage across all asset management areas across TMR
- work through Infrastructure Management and Delivery Division's Geospatial Technologies team to provide technical support to access and provide the required TMR data where it is available.

Financial Implications

- There are no direct financial implications currently. Existing resources within TPB and Geospatial Technologies will assist DES and coordinate TMR input.
- However, depending on the outcomes of climate risk evaluation, there may be future costs associated with the adaptation actions required to effectively mitigate against the identified climate risks.

Background

- The development of a government adaptation action plan was a key deliverable under QCAS released in July 2017.
- The intent of the MCR is to have all departments work with the QCR program to undertake climate risk assessments and consider current governance and adaptation practices.
- The QCR is a two-year program that has been established at Griffith University to assist the Queensland Government in strengthening departmental climate risk management.
- As part of the development of the MCR, TMR undertook an audit of the department's current climate risk management approach in late 2017. TMR's physical asset management areas were relatively well advanced in considering climate risks and designing adaptation actions.
- Assessment and management of climate risk was not as advanced in non-physical areas such as those with policy, legal, technological or service operational responsibilities.
- DES are simultaneously leading a separate project that will develop a geospatial database of all Queensland Government assets through the XDI CAS.
- The XDI CAS is intended to provide a quantitative analysis of important state-owned infrastructure and assets. The project will also provide an assessment of the effectiveness and cost-benefit of potential adaptation policies.

Issues and Suggested Approach

- The development of a consistent climate risk approach across all departments that will provide greater transparency of climate risk management activities is supported in principle. This in-principle support also carries through to the co-development of a governance and risk assessment toolkit with the QCR.
- However, without further understanding of the detail of the QCR toolkit and subsequent actions that may result from its application, it is difficult to provide full support.
- TPB understand that DES are wanting to progress the MCR as quickly as possible to their Minister for approval, and that a previous version had been circulated through the Interdepartmental Committee (IDC) on climate change.

- Due to several membership changes to the IDC, TMR had not previously reviewed or provided comment on the draft MCR.
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Consultation with Stakeholders

- TPB have agreed with Geospatial Technologies to provide support to the XDI CAS project.
- TPB will coordinate MCR consultation across TMR.

Employment

- There are no employment impacts associated with this matter.

Media

- There are no media impacts associated with this matter.

Election Commitments

- The delivery of the MCR is an action under the QCAS.

Government Priorities

- This matter does not relate to a government priority.

Department of Transport and Main Roads
Noting Brief
DG36155

To: Director-General

SUBJECT: Queensland Government Adaptation Action Plan and Department of Environment and Science engagement of XDI Pty Ltd.	DATE: 15 January 2018 <i>15 Jan 2019</i>
Director-General's comments: <i>1. Noted.</i> <i>2. Good brief, thank you.</i> <i>Kealy</i>	

Summary

- The Department of Environment and Science (DES) has engaged XDI Pty Ltd to undertake a baseline climate risk assessment on all Queensland Government assets using the XDI Platform.
- This climate risk assessment can be used to support the design of risk reduction actions and develop adaptation action plans for these assets.
- Results of the analysis for the Department of Transport and Main Roads' (TMR) assets will not be made public and will only be available to designated officers within TMR and DES.
- DES has asked TMR to provide data on all assets that will be used to inform the analysis.

Recommendations

- That you note:
 - Infrastructure Management Division (IMD), through Geospatial Technologies, is TMR's point of contact to provide data to DES and the XDI Climate Adaption System (XDI CAS).

Action Officer:
Sarah Fallon
A/Director
Transport Policy Branch
Tel: 3066 2651
Date: 10 January 2019

Endorsed by:
Sally Noonan
Chief Economist
Transport Policy Branch
Tel: 3066 7464
Date: 11 January 2019

Endorsed by:
Penny Ford
A/Deputy Director-General
Policy Planning and Investment
Tel: 3066 1653
Date: 11 January 2019

- Policy, Planning and Investment Division (PPI), through Transport Policy Branch (TPB), is coordinating appropriate access for officers throughout TMR to review and, where appropriate, use the analysis results to inform asset decision making.
- That you sign a letter to DES advising TMR's point of contact for data to populate XDI's platform (**Attachment 1**).

Financial Implications

- There are no financial implications.

Background

- In June 2017, the Queensland Government released the Queensland Climate Change Response (QCCR). QCCR consisted of two strategies – the Queensland Climate Transition Strategy (Q-CTS) and the Queensland Climate Adaptation Strategy (Q-CAS).
- Q-CAS included an action, under the State Government pathway, to show leadership by understanding and managing climate risks to assets owned or managed by government departments, agencies, government owned corporations and statutory bodies.
- On 3 December 2018, Mr Jamie Merrick, Director-General, DES, wrote to you informing that DES had engaged XDI Pty Ltd to use its XDI CAS to better understand the risk to Queensland Government assets.
- XDI CAS can calculate the probability of risks to each element of an asset from climate hazards such as extreme temperature and coastal inundation. XDI CAS is intended to provide a quantitative analysis of important state-owned infrastructure and assets. The project will also provide an assessment of the effectiveness and cost-benefit of potential adaptation policies.
- DES is asking all agencies to provide asset related data that can be used to populate XDI CAS and inform the analysis.
- DES is also developing a Government Adaptation Action Plan, now called Managing Climate Risk: Action for the Queensland Government (MCR). A separate briefing note has been provided (DBN13854 – **Attachment 2**). XDI CAS is intended to provide additional support for agencies to understand risks to assets.

Issues and Suggested Approach

- IMD's Geospatial Technologies area will be TMR's primary point of contact to provide data to DES and XDI CAS.
- TPB in PPI is coordinating access to XDI CAS. From the project description provided by DES and XDI Pty Ltd, it appears that the results may be useful for a range of areas from planning through to operations.
- IMD has provided links to publicly available TMR data about the location of assets. Mr Nicholas Lawrence, IMD's, Senior Spatial Science Officer, will be the point of contact for DES to access further information that is not available in the public domain.
- The effort required to provide appropriate data, such as financial value of assets, outside of what is publicly available, is not yet known, Geospatial Technologies will work with DES and XDI to make this data available where appropriate.

- DES is currently seeking comment on MCR, TPB is coordinating this feedback for TMR.

Financial Implications

- There are no financial implications.

Consultation with Stakeholders

- IMD Geospatial Technologies was consulted and agreed to be the point of contact for DES.
- DES has been notified that TPB will provide a list of contact details for from TMR officers, who should be provided access to XDI CAS and the results of the analysis.

Employment

- There are no employment impacts associated with this matter.

Media

- There are no media impacts associated with this matter.

Election Commitments

- This matter does not relate to an election commitment.

Government Priorities

- This matter does not relate to a government priority.

Released under RTI-DTMR



Queensland
Government

Office of the
Director-General

Department of
Transport and Main Roads

Our ref: DG36155

Your ref: CTS 31408/18

16 JAN 2019

Mr Jamie Merrick
Director-General
Department of Environment and Science
GPO Box 2454
BRISBANE QLD 4001

Dear Mr Merrick

Thank you for your letter of 3 December 2018 about the Queensland Climate Adaptation Strategy and the Department of Environment and Science (DES) engagement of XDI Pty Ltd to assist agencies better understand the risk to Queensland Government assets.

Adapting to the impacts of climate change is one of the Queensland Governments greatest challenges. Queensland has for many years experienced extreme weather that damages infrastructure assets and disrupts operations. I acknowledge that the severity and frequency of these events is likely to increase. I welcome DES' leadership in responding to this challenge and commit the Department of Transport and Main Roads (TMR) to assist wherever possible.

TMR's point of contact for data to populate XDI's platform is Mr Nicholas Lawrence, Senior Spatial Officer, Infrastructure Management and Delivery. Mr Lawrence can be contacted by email at nicholas.g.lawrence@tmr.qld.gov.au or on 3066 7977.

I also understand that officers from TMR's Transport Policy Branch are liaising with Ms Jytoishma Rajan in DES, to ensure that access to the tool and results from the analysis are made available to all the appropriate areas across TMR.

I trust this information is of assistance.

Yours sincerely

Neil Scales
Director-General
Department of Transport and Main Road

Department of Transport and Main Roads
Noting Brief
DBN13854

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Consultation with Stakeholders

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- TPB will coordinate MCR consultation across TMR.

Employment

- There are no employment impacts associated with this matter.

Media

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Election Commitments

- The delivery of the MCR is an action under the QCAS.

Government Priorities

- This matter does not relate to a government priority.

Department of Transport and Main Roads
Decision Brief
 DG36732

To: Director-General

SUBJECT: Invitation for TMR to be a pilot agency for the Queensland Climate Ready (QCR) Program	DATE: 24 May 2019
Director-General's Comments: <p><i>1. Noted, thank you</i></p> <p><i>2. As to costs - these will be huge, but inevitable in my view.</i></p> <p>Approved / Not Approved</p> <p>Director-General <i>[Signature]</i></p> <p>Date <i>28/5/2019</i></p>	

Summary

- The Queensland Climate Ready (QCR) program – led by Griffith University and overseen by the Department of Environment and Science (DES) – has been established to develop an innovative approach to manage institutional climate risk across the Queensland Government.
- Griffith University will pilot elements of the QCR program, such as agency climate risk profiles and capacity baselines, with a small selection of pilot agencies.
- Transport Policy Branch (TPB) canvassed opportunities for the Department of Transport and Main Roads (TMR) to be considered as a priority agency, so that it could benefit from the early climate risk assessment actions being coordinated by QCR and use QCR learnings to inform TMR's climate change initiatives.
- Griffith University and DES have expressed strong support for TMR to be one of the agencies to pilot the QCR program and have written to you to formally invite TMR to become a pilot agency.

Recommendations

- That you:
 - approve the inclusion of TMR as a pilot agency in the QCR program

Action Officer: Pam Palmer	Endorsed by: Lucinda Hoffman	Endorsed by: DDG Julie Mitchell	Endorsed by: DG Neil Scales
Principal Policy Advisor (Transport Policy Branch) Tel: 3066 3003 Date: 3 May 2019	A/General Manager (Strategic Policy) Tel: 3066 4252 Date: 20 May 2019	Deputy Director-General (PPI) Tel: 3066 2245 Date: 21 May 2019	Director-General Tel: 3066 7316 Date:

- sign the letter of response to Griffith University (**Attachment 1**), accepting the invitation for TMR to be a pilot agency for the QCR program and noting the TMR key contact for the QCR program.

Financial Implications

- There are no immediate financial implications of the recommendations. The QCR program is funded by DES, under the Policy Innovation Hub agreement between Griffith University, the Department of Premier and Cabinet and the Public Service Commission. There are no direct costs to TMR.
- The QCR program will deliver a framework for Queensland Government agencies to deal with climate risks in a coordinated way. This may incur future costs associated with implementation of this climate risk framework into TMR's governance, legal, operational and financial regimes.

Background

- DES is delivering *Managing Climate Risk: Actions for the Queensland Government (MCR)*, a key action under the *Queensland Climate Adaptation Strategy 2017–2030 (Q-CAS)*. The QCR program will support the process of scoping, institutionalising and implementing the MCR.
- Advice about the MCR and QCR program was provided to you on 3 January 2019 (DBN 13854 – **Attachment 2**) and noted that in-principle support had been provided to the co-development of a governance and risk assessment toolkit through the QCR program.
- The two-year QCR program aims to improve climate risk management processes, using a co-design approach with government agencies.
- Initial assessments coordinated by DES indicated that many Queensland Government agencies have limited understanding, capacity and support to embed climate change risk considerations into agency governance, policies and practices. Through this assessment, DES considered TMR to be more mature in this area than many agencies.

Key Issues

- The overarching climate risk assessment framework, developed through QCR, could have implications for government agencies in relation to future financial and legal security, and insurance.
- There are a number of benefits to TMR being a pilot agency: access to early climate risk assessment actions and approaches being developed by QCR, use of QCR learnings to inform TMR's climate change initiatives, and better understanding of the likely implications of a whole-of-government climate risk approach to TMR.
- Other priority agencies include DES, Queensland Health, Queensland Fire and Emergency Services and Department of State Development, Manufacturing, Infrastructure and Planning.
- The first task under the QCR program is for departments to undertake a desktop review of climate risks and complete the QCR Agency Climate Risk Profile and Capacity Baseline. Priority agencies are requested to complete the risk profile by mid-2019.

- This review will involve a detailed audit of TMR's policies, legislation, processes, investment and services to determine their adequacy against best practice climate information, such as guidance provided by the World Road Association-PIARC on road resilience and the Task Force for Climate-related Financial Disclosures (part of the international Finance Stability Board) on risk management approaches.
- Pending your endorsement of TMR as a pilot agency, TPB – in collaboration with Strategy, Innovation, Performance and Risk (SIPR) – will work with the QCR team and coordinate TMR's input to the risk profile.

Financial Implications

- There are no financial implications of the recommendations. However, depending on the outcomes of the climate risk assessments and the form of the proposed framework, there may be future costs associated with the adaptation actions required to effectively mitigate against identified climate risks.

Consultation with Stakeholders

- To date, TPB have consulted with SIPR, the Environment and Cultural Heritage Unit (Infrastructure Management Division) and Maritime Safety Queensland (Customer Services Safety and Regulation Division) on the QCR program.
- SIPR are supportive of TMR being included as a pilot agency in the QCR program and will assist with the climate risk profiling for the department. TPB will coordinate with relevant business units in a OneTMR approach to inform the desktop review.

Employment

- There are no employment impacts associated with this matter.

Media

- There are no media impacts associated with this matter.

Election Commitments

- The delivery of the MCR is an action under the Queensland Government Q-CAS.

Government Priorities

- This matter relates to the *Our Future State: Advancing Queensland Priorities* 'Protect the Great Barrier Reef'.

Our ref: DG36732

28 MAY 2019

Professor Anne Tiernan
Dean (Engagement)
Program Director
Policy Innovation Hub
Griffith University
a.tiernan@griffith.edu.au

Dear Professor Tiernan

Thank you for your letter of 29 April 2019, co-signed by Professor Brendan Mackey, Director, Griffith Climate Change Response Program, inviting the Department of Transport and Main Roads (TMR), to become a pilot agency for the Queensland Climate Ready (QCR) program and informing me about the program. I am pleased to accept the invitation for TMR to be a pilot agency.

TMR has a demonstrated and strong commitment to addressing climate change risks. It oversees a large asset base that is highly exposed to climate change impacts and is also likely to encounter early and significant challenges in transitioning the transport sector to a decarbonised economy. These factors are strong drivers for TMR to become an early contributor to the co-design and implementation of activities that improve climate risk management. I am therefore fully supportive of committing TMR to the QCR program and to engage in the program as a pilot agency.

I understand that Transport Policy Branch (TPB) will assist with coordinating input across TMR, including liaising with the Strategy, Innovation, Performance and Risk unit. TMR's point of contact for the QCR program is Ms Alex Milward, Principal Advisor, TPB. Ms Milward can be contacted by email at alex.s.milward@tmr.qld.gov.au or by telephone on 3066 2653.

I trust this information is of assistance.

Yours sincerely



Neil Scales
Director-General
Department of Transport and Main Roads

Department of Transport and Main Roads
Noting Brief
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