Regional Water Strategies Public Exhibition 2

Submission Questionnaire



Macquarie-Castlereagh Regional Water Strategy

Challenges and shortlisted actions

The NSW Government is taking action to improve long-term water security for Macquarie-Castlereagh. The Macquarie-Castlereagh Regional Water Strategy sets out a shortlist of proposed actions to help deliver healthy and resilient water resources for a liveable and prosperous region.

Your voice is important

This is your opportunity to let us know which actions you support and think should be implemented to help set the region up for the future.

This questionnaire will take approximately 15 minutes to complete, and your response can remain anonymous if you wish (see question 7).

Questions marked with an asterisk (*) require an answer.

If you have any questions about the questionnaire, please email: regionalwater.strategies@dpie.nsw.gov.au

You can also provide feedback via our submission platform.

1. Your details		
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* Do you identify	y as an Aboriginal	person? (select one)
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Yes No Choose not to answer

* Are you making this submission as an individual or as a representative of an organisation? (select one)

Individual • Organisation

If making this authorisaish as a convenentative of an avgonication

2. Organisation or business details

who do you represent? (select one)
Government (select one)
Commonwealth New South Wales State other Local
Local Water Utility
Peak representative organisation (select one)
Environment Industry Business group or business chamber Community
Aboriginal organisation (select one) Yes No
Other (select and provide details)
N/A

3. Regional water challenges

We have identified **five water challenges** that are most important to address in the Macquarie-Castlereagh region. More detail about each regional challenge is available in the Consultation Paper.

1 Reducing water supply risks for regional cities, towns and villages

Bathurst, Orange and Dubbo are large and growing regional cities in the Macquarie valley. These cities are expected to grow by 20–30% over the next 20 years. The water supplies for these cities also underpin the water security of surrounding smaller towns and communities during times of drought.

Even with recent investments in water security measures, Bathurst and Orange require further immediate investment over the next few years to ensure the security of their water supplies is maintained.

Groundwater is an important water source for towns in the region, being the primary source of supply for many towns and an important backup source for others. There is uncertainty about water security in severe drought for towns that use groundwater, especially from the alluvial groundwater systems.

2 Supplying water to high priority needs in the lower river system and connected valleys

The Macquarie River system is over 960km long and there are a range of high priority needs towards the end of the system, including:

- · the towns of Warren, Nyngan and Cobar
- internationally significant Macquarie Marshes
- · critical mineral mines
- landholders on rivers and creeks with stock and domestic water needs
- flows into the Barwon-Darling River that support communities, industries and the environment downstream

The long river system presents challenges for delivering water to the end of the system, particularly during dry periods, as a large portion of the water released from Burrendong Dam seeps into the dry riverbed and evaporates along the way.

A more variable and potentially drier climate will make it even more difficult to meet high priority needs towards the end of the river system, especially during dry periods.

3 Supporting a growing regional economy in a future of potentially reduced water availability

Agriculture and mining are major water-reliant industries in the Macquarie-Castlereagh region. The tourist economy is also important in the region's east and includes well-known food and wine destinations. Climate change could reduce water availability for these existing industries, leading to adverse economic and social impacts. While there is also significant potential for future development in high value industries, a shortage of reliable water supplies may hinder this growth.

4 Addressing barriers to Aboriginal water rights

The lands and waters of the Macquarie-Castlereagh region have been occupied by the Wiradjuri, Gomeroi, Ngemba, Wailwan and Ngiyamapaa Nations for over 60,000 years. They have always been closely linked to rivers, groundwater, billabongs and wetlands, and this relationship is essential to culture, community and connection to Country.

Water management arrangements, limited water ownership, and poor access to waterways and culturally important sites impact Aboriginal people's ability to care for Country. We need to support access to water improve our engagement with Aboriginal people, and secure flows for water dependent cultural sites—so we can all benefit from traditional knowledge in managing our water resources.

5 Maintaining and improving the health and resilience of the region's aquatic and floodplains ecosystems

Water infrastructure, water extraction, land management practices, and pest species have impacted water-dependent ecosystems and native species in the Macquarie-Castlereagh region. This includes the internationally Ramsar-listed Macquarie Marshes, which is ecologically, culturally, socially and economically important.

While water reforms have partially improved the condition and resilience of these environmental assets, there are parts of the catchment that are still in poor condition.

To maintain and improve the region's ecological assets into the future, we need to ensure that the right mix of flows are available at the times that they need them. This will become increasingly difficult under a drier future climate, where the potential for extended dry periods could increase the risk for many critical environmental assets.

Do you agree that these are the priority water challenges for the Macquarie- Castlereagh region that we need to focus on? (select one)				
• Yes No				
If no, please outline what you see as the priority water challenges in this region over the next 20 – 40 years?				

4. Addressing the challenges

We have developed three regional priorities with actions under each. We want to know which of the actions you support.

The regional priorities are:

- 1 Secure water supplies for growing regional cities and towns
- 2 Reduce water security risks in the region's west
- 3 Supporting industry and community climate adaptation
- 4 Best use of existing water for the environment

Priority 1: Secure water supplies for growing regional cities and towns

The actions shortlisted under this priority aim to:

- · make better use of the available resources
- · respond to the needs of a growing population
- · respond to the risks associated with climate variability and change.

Prop	osed action	Do you support this action?		
1.1	Confirm the level of water security needed to support regional cities	• Yes No		
1.2	Establish a governance framework to coordinate actions under Priority 1	• Yes No		
1.3	Develop guidelines for managing extreme events in the upper Macquarie	• Yes No		
1.4	Adopt a stronger focus on urban water conservation and efficiency	• Yes No		
1.5	Invest in innovative water supply options	Yes No		
1.6	Plan for the best long-term augmentation solution for the upper Macquarie	• Yes No		
1.7	Reduce uncertainty in groundwater security for the region's towns	• Yes No		
1.8	Support management of Oberon's town water quality issues	• Yes No		

A) Do you have any comments on the proposed actions identified?

	Refer to our se	perate submission	regarding the im	portance of Action 1.6.
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Priority 2: Reduce water security risks for the Lower Macquarie

The actions shortlisted under this priority aim to:

- deliver water more efficiently to high priority needs and reduce town water security risks in the lower Macquarie region
- · improve the drought resilience of industry in the lower Macquarie region.

Prop	osed action	Do you support this action?		
2.1	Investigate an additional off-river storage at Nyngan	Yes No		
2.2	Create water savings through changed operation of regulated effluent creeks	Yes No		
2.3	Continue to investigate regional water security solutions for the lower Macquarie	• Yes No		
2.4	Investigate ways to improve connectivity with the Barwon- Darling on a multi-valley scale	Yes No		

A) Do you have any comments on the proposed actions identified?

Our focus is on solutions for the Upper Macquarie, however we support any identified solutions supported by Councils in the Lower Macquarie that will improve water security for cities and towns in this part of the catchment. See separate submission for feedback on the need for a whole-of-catchment approach to water management.

Priority 3: Support industry climate adaptation

The actions shortlisted under this priority aim to:

• strengthen the resilience of the regional economy, including existing businesses, industries and communities, and their adaptation to a drier, more severe future climate.

Prop	osed action	Do you support this action?
3.1	Invest in continuous improvement to surface and groundwater modelling	• Yes No
3.2	Improve public access to climate information and water availability forecasts	• Yes No
3.3	Support adoption of on-farm climate adaptation and water efficiency measures	• Yes No
3.4	Undertake research to inform reviews of groundwater extraction and condition limits	• Yes No
3.5	Develop ongoing arrangements for participation of local Aboriginal people in water management	Yes No
3.6	Support place-based initiatives to deliver cultural outcomes for Aboriginal people	• Yes No
3.7	Support the development of new water related Aboriginal business opportunities in the Macquarie-Castlereagh region	• Yes No
3.8	Modernise the water management framework so it can continue to support sustainable economic diversification	Yes No
3.9	Improve public access to the Macquarie Marshes	Yes No

Do you have any co	**************************************		

Priority 4: Best use of existing water for the environment

The actions shortlisted under this priority aim to:

- limit or remove pressures and impacts related to water infrastructure
- · enable water for the environment to be delivered to its best effect during wet and dry periods
- build knowledge of the region's water dependent ecosystems and assets, and the impacts of climate change on their health and resilience
- · improve water resource health through better land management.

Prop	osed action	Do you support this action?		
4.1	Modify or remove barriers to delivering water for the environment	Yes No		
4.2	Reinstate natural channel profiles in selected streams in the southern Macquarie Marshes	Yes No		
4.3	Mitigate impacts to fish communities	Yes No		
4.4	Remediate unapproved floodplain structures	Yes No		
4.5	Provide clarity and certainty for environmental needs during drought operations	Yes No		
4.6	Assess gaps in the flow regime and identify cooperative actions to improve ecological outcomes	Yes No		
4.7	Fully implement the NSW Floodplain Harvesting Program	Yes No		
4.8	Identify regionally significant riparian, wetland and floodplain areas to protect or rehabilitate	Yes No		

A) Do you have any comments on the proposed actions identified?

See separate submission on the need for an integrated approach to water management across all water uses in a new climate future.

While the CNSWJO Board has no policy position on these specific actions, it broadly advocates for a balance in water use including to ensure the health of the environment - noting that in times of shortages, water for critical human need must be the priority.

5. Other comments
A) Should any proposed actions in this Consultation Paper not be shortlisted and why?
B) Should any other options in Attachment 1 of the Consultation Paper be shortlisted and why?
6. Implementation of the Macquarie-Castlereagh Regional Water Strategy An Implementation Plan will be included in the final Macquarie-Castlereagh Regional Water Strategy.
A) Which actions should be implemented first and why?
See separate submission.

Regional Water Strategies Public Exhibition 2 | Submission Questionnaire

Making your submission public

To promote transparency and open government, we intend to make all submissions publicly available on our website, or in reports. Your name or your organisation's name may appear in these reports with your feedback attributed.

If you would like your submission and/or feedback to be kept confidential, please let us know when making your submission.

If you request that your submission is to be kept confidential, it will not be published on our website or included in any relevant reports; however, it will still be subject to the *Government Information Public Access Act 2009*.

Your submission will be stored securely, consistent with the department's Records Management Policy and you have the right to request access to, and correction of, your personal information held by the department.

Further details can be found in our privacy statement available on our website. www.industry.nsw.gov.au/privacy

7	Information	on confidentia	ality and	privacy *
1.	momation	on connacina	atity and	privacy

I give permission for my	submission to be publicly	/ available on the NS\	N Department of Planning and
Environment website.			

YesNo

I would like my personal details to be kept confidential.

YesNo

8. Would you like to be kept updated on progress on the development and implementation of the Macquarie-Castlereagh Regional Water Strategy?

YesNo

If yes, please provide your details below.

9. How did you hear about the Public Exhibition of this strategy?

We are interested to know how you heard about the opportunity to make a submission. Please indicate the communication methods below:

	Newspaper	Radio Dep	artment of Planning and Environment websit
•	Direct email	Social media	Have your say NSW Government website
	Communication from peak body		Word of mouth
	Other (select and	provide details)	

10. Additional Information

If you would like to provide any supporting documents to help us understand your feedback, please email these from the same email you provided in this form or attach supporting documents to this form if you are returning your submission by mail.

All submissions on the draft Macquarie-Castlereagh Regional Water Strategy will be reviewed following the public exhibition period.

Please email your completed submission and any supporting documents to:

regionalwater.strategies@dpie.nsw.gov.au

CLICK HERE TO EMAIL SUBMISSION

Or post to:

Regional Water Strategies
Department of Planning and Environment
Locked Bag 5022
Parramatta NSW 2124

Submissions close Friday 18 November 2022, 11.59pm

Further details on all regional water strategies can be found on our website www.dpie.nsw.gov.au/regional-water-strategies



Thank you for your submission.





Central NSW

Joint Organisation
PO Box 333
Forbes NSW 2871

15 November 2022

Regional Water Strategies
Department of Planning and Environment
Locked Bag 5022
Parramatta NSW 2124

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To whom it may concern

Re: Macquarie-Castlereagh Regional Water Strategy - Public Exhibition 2 Submission

The Central NSW Joint Organisation Board (CNSWJO) thank the Department of Planning and Environment, Water (DPE, Water) for the opportunity to make comment on the Public Exhibition 2 draft of the Macquarie-Castlereagh Regional Water Strategy (the Strategy). We also thank you for the opportunity to meet face-to-face with our members in Dubbo on 8 November.

The region has welcomed the engagement by DPE with the CNSWJO and Councils in the upper Macquarie in the development of this important Strategy. Where inter-government collaboration on regional water management has long been the missing piece, it is a major step forward to have town water security recognised in the strategic framework for water.

We thank the Department for working with the CNSWJO and its member Councils to reach a shared understanding of the challenges for town water security and to identify options to address these in the Strategy. While it is generally agreed that more work is needed on the economic value of town water, it is assumed that Action 1.1 may provide this opportunity.

Further, we look forward to the sharing of data and modelling with Councils for local level planning. It is understood that this is being addressed through guidance on town water security for strategic planning by local water utilities being developed through the Town Water Risk Reduction Program. This alone will reduce duplication and costs in local level planning by ensuring one-source of truth used by both the department and Councils.

Where our member Councils will make separate submissions, the CNSWJO Board provides the following high-level feedback on the Consultation Paper.

While today the region battles with flooding on a scale not seen before, we know too well that now is the time to be planning for and implementing water security solutions in preparation for the next drought- which will come.

The CNSWJO Board urges the State Government through this Strategy to use this time of abundant water to work closely with Local Government to implement the options identified to secure town water

supplies and make these solutions a reality. The risks are too great, particularly for the large regional centres of Bathurst and Orange, not to act now. It is all too easy through changes in the political cycle and following periods of extreme rainfall to become complacent.

The slide provided as an attachment is from the CNSWJO Board Strategic Planning Conference held in Orange on 25 August 2022. The Conference was attended by newly elected Councils and Councillors from across the region who identified water security and water for productive use as the priority head and shoulders above all other priorities for the region.

In terms of the prioritising of actions detailed in the Consultation paper, it is suggested that if work on Action 1.6 is contingent on completion of Action 1.1 it needs to be progressed as a priority. Based on the region's experience through the droughts, Action 1.6 is critical for the regional centres of Orange and Bathurst and surrounding towns and villages, given they came so close to running out of water in 2020.

Through necessity our Councils have achieved great outcomes in water efficiency in the past (far greater than those in metropolitan Sydney, for example). Work continues to improve water efficiency through programming that seeks to reduce non-revenue water loss in water distribution systems and achieve greater water and energy efficiencies and cost savings for communities. The focus is very much on 'doing more with less,' optimising existing infrastructure where at all possible and delaying the need for water infrastructure augmentation.

However, this region knows from first-hand experience, it's work on the Centroc Water Security Study (2009) and recent modelling through the Regional Water Strategies that it needs a multi-source approach to water security. Demand management, while crucial, must be supported by long-term augmentation solutions as described in Action 1.6. It is suggested that this must also be high on the list of priorities for early action.

Where there has been good collaboration on the development of the Strategy, the momentum *must* be maintained.

As the CNSWJO has advocated consistently, the success of these Strategies relies on their enablement through a Governance and Implementation Plan co-designed with Local Government to deliver on the options identified. Without this these place-based Strategies risk not delivering on the outcomes needed and, at worst, becoming shelf ware.

The CNSWJO thanks the Department for hearing our message and recognising it under Priority 1 – Secure Water Supplies for Growing Regional Cities and Towns, Action 1.2 as described below.

Action 1.2 - Establish a governance framework to coordinate actions under Priority 1

Establish a governance framework and arrangements in consultation with local councils and local water utilities to support coordination of actions under this priority and improve timely decision-making during extreme events.

While we welcome this action, the CNSWJO advocates that the governance framework and arrangements to coordinate actions needs to extend beyond just priority 1 to cover the delivery of the whole Strategy. It is only through this level of coordination that a fully integrated, whole of catchment approach to water management can be achieved. We need to move beyond the silos of the past and recognise that stakeholders need to work together to achieve the balance needed in water use in a new climate future.

As the managers of town water supplies for the Central NSW region, our members obviously see reducing water supply risks for regional cities, towns and villages as the highest priority, followed closely by supporting a growing regional economy in a future of potentially reduced water availability.

However, Councils as the champions and representatives of their communities also have an interest in ensuring that options that address barriers to Aboriginal water rights and that seek to maintain and improve the health and resilience of the region's aquatic and floodplain ecosystems are actioned.

The DNA of Local Government is Integrated Planning and Reporting (IP&R) which considers all priorities for Councils including for industry, the environment, health and well-being of its community inclusive of its Aboriginal community. While the regulatory role of IP&R is not well recognised by state agencies, there is a real opportunity that has been identified through the Town Water Risk Reduction Program for better engagement with Councils to deliver on its community's priorities for all water uses.

Where water for critical human need *must* be the highest priority in times of shortages, there needs to be a forum for ongoing communication and decision making enabled within the region about 'doing more with less' and achieving the balance that is needed for all stakeholders' areas of interest across the catchment. This includes the Aboriginal community, irrigators and industry and the environment. It is in our communities' interests to ensure that the right balance is struck in water management across all these areas with a new approach to the coordination and decision-making around the delivery of options in the Strategy.

Council representatives who attended the focus session in Dubbo reported of a productive discussion with the DPE staff and stakeholders from across the catchment. Comments included that it was good to understand the issues for stakeholders in the lower Macquarie catchment where clearly all stakeholders have an interest in ensuring the 'health' of the catchment as a whole to enable the balance needed in water management. This is a view supported by the Federal Productivity Commission.

As has been evident through the collaboration with Local Government in the development of the Regional Water Strategies and through the Town Water Risk Reduction Program, much can be achieved by established forums of stakeholders represented at the appropriate level and supported by good governance. Relationships built through good and regular communication and mutual trust can support and enable decision making informed by local knowledge in times of crisis ensuring the right outcomes.

In the Lachlan catchment, the CNSWJO works closely with the Lachlan Valley Water Association through an established communique and regular meetings. While at times our views may differ, most of the time we agree and support each other's positions. Our interests are not conflicting, to the contrary Councils are committed to supporting and enabling their agricultural sector as the economic heart of our region while conversely our farmers don't want to see their towns run out of water. The relationship is mutually beneficial.

The same applies to industry, the health of the environment and our Aboriginal communities. Strong, resilient communities need water for all these uses and need to be able to negotiate how the balance is struck in times of critical shortage. Building these relationships with, for example, Environmental Water Advisory Groups and industry groups now will be beneficial to all stakeholders, particularly in times of critical shortage.

It is noted that the proposed action 1.2 would, in consultation with local councils and local water utilities in the Macquarie Castlereagh region, establish a governance framework to support the actions under this priority of the Macquarie—Castlereagh Regional Water Strategy. It would consider council and local water utility capacity and capability to contribute to governance framework and take responsibility for actions. The aim of this action is to support the drought resilience of local councils by improving coordination of water management actions and planning processes that support town water security across different levels of government. This could build off existing governance structures already set up in the region.

Based on the above commentary the CNSWJO is of the view that the governance framework should provide for a forum (Committee or Group?) to facilitate a 'whole of government' integrated strategic planning approach to ensure sustainable water management for the Macquarie catchment now and into the future inclusive of all areas of water use.

Representation should include local/regional subject matter experts and local/regional/state water professionals to address the complex relationships for sustainable water management as a multi-disciplinary team that looks at building community resilience from many perspectives. The aim being to deliver the actions identified in the Strategy and water resource management during extreme events.

As the CNSWJO has advocated previously, what is needed is a committee or the like with representatives at a suitable level (i.e. Regional Manager/Director).

Representation could include from:

- DPE Water (various divisions)
- CNSWJO representing its members in the Upper Macquarie
- Water Infrastructure NSW
- Water NSW
- Natural Resources Access Regulator
- NSW Health
- NSW EPA
- Regional NSW
- Central Tablelands Water
- Local Water Utilities (not necessarily all Councils but potentially subject matter experts)
- Industry
- Environmental Water Advisory Groups
- Aboriginal Water Groups

In Central NSW, a Strategic Regional Transport Group is chaired by Cr Ken Keith, Mayor of Parkes and includes representation from Transport for NSW, RDA Central West, DPIE Regional, NSW/ACT Roads, Infrastructure Investment Division and the Department of Infrastructure - Inland Rail Division. It provides a good model that could be used for strategic regional water management.

Our vision is that this forum will oversee and coordinate the implementation of the Strategies and drive preparedness for future extreme events.

The forum's role would be to:

- o Assist in the development of an implementation plan for Strategies
- Oversee and coordinate the implementation of the Strategies
- Provide accountability for the delivery of the Strategies
- Be kept informed of general progress and participate in delivery of priority actions
- Monitor and track the progress of implementing the Strategies
- o Where impediments are identified, collaborate for resolution
- Provide a forum to discuss and resolve implementation issues or action delivery in a changing regional policy environment
- Provide high level progress updates to key stakeholders
- Inform the preparation of the Annual Monitoring Report

- Identify strategic regional projects that contribute to water resilience and climate change adaptation, given identified future water scarcity predictions
- o Inform and participate in the three to four-year review of the Strategies (referred to on page 11)
- Provide recommendations for incorporation into the regional water strategies development,
 implementation and review process
- Improve regional preparedness by developing strategic regional contingency plans (i.e. Plan B & Plan C) that can be enacted during extreme events
- Develop strategic regional drought response emergency projects to the point of ready to implement so that minimal time is required for delivery should they be necessary
- Guide, assist and support regional participation (pilot projects) in the development of new initiatives being progressed under the Town Water Risk Reduction Program

Its outputs would be to:

- Identify and delegate actions with timeframes
- Deliver actions and present progress, results, outputs
- Communicate across all levels of government on the direction, alignment and tasks achieved
- Action plan for building regional water resilience, with actions flowing
 - o from the Lachlan and Macquarie regional water strategies
 - to or from local water utility strategies
 - o to or from the Regional Town Water Strategy.

The forum could be supported by outcome specific groups that bring together appropriate personnel to provide advice on specific issues or projects such as reviews of the Water Sharing Plans, the DPE Water Efficiency Program and work on the Groundwater Strategy.

It could be that sub-groups for the Upper and Lower Macquarie catchments are formed that meet separately but come together annually to discuss whole of catchment issues.

There a numerous governance structures that can be put in place and existing groups to manage concerns regarding the size of this forum. Again, this is something that really needs to be discussed with the key stakeholders in the region through a co-design exercise.

It is important that the forum is supported by a secretariat and guided by Terms of Reference developed collectively by the group. Strong governance including meeting dates set at the first meeting of the year, agendas including supporting material circulated a week prior to the meetings and minutes highlighting actions and responsibilities for achieving these distributed within a week of the meeting would be essential to ensure this forum delivers on its objectives and is transparent and accountable.

The CNSWJO notes advice in the Consultation Paper (page 109) as follows:

After public consultation, we will develop an implementation plan that sets out when we will commence each action, and what we will achieve by when. The implementation plan will also identify key partners for delivering these actions, including local councils, government agencies, local community and industry groups and local Aboriginal communities. Not all actions will commence at once. The availability of funding and the progress of existing government commitments will be a key consideration in planning when and how the actions will be implemented. The regional water strategies will be a key tool in securing funding as future opportunities arise.

Given the implementation plan will identify local councils, local community and industry groups and local Aboriginal communities as key partners to delivering these actions, the CNSWJO Board restates its long-held advocacy position that this implementation plan must be co-designed preferably with these stakeholders. If the Regional Water Strategies are to be truly place-based they need to be enabled in the region through the co-design of the Implementation Plan to achieve the coordinated, fully integrated whole of catchment approach to water management that is needed.

In summary we reiterate that:

while action 1.2 is welcomed, the CNSWJO advocates that the governance framework and arrangements to coordinate actions needs to extend beyond just priority 1 to cover the delivery of the whole Strategy. It is only through this level of coordination that a fully integrated, whole of catchment approach to water management can be achieved. We need to move beyond the silos of the past and recognise that stakeholders need to work together to achieve the balance needed in water use in a new climate future.

Also, we highlight that on Page 8 of the Consultation Paper - in the snapshot – reference to the major water storages is missing the Orange Water Supply Storages – Suma Park Dam, Spring Creek Dam and Gosling Creek Dam.

The CNSWJO has decades of experience including in inter-governmental collaboration and is now tasked with inter-governmental collaboration under the Local Government Act. We would be pleased to work with the department to facilitate the co-design of the Governance and Implementation Plan for both the Macquarie and the Lachlan Regional Water Strategies.

Again, we thank our colleagues in the Department for the good level of engagement in the development of the Strategy. It sets a solid foundation for future collaboration.

If you require further information or clarification on comments, please do not hesitate to contact

Yours sincerely,

