

Name of lead organisation responsible for the reply (including contact details)

Department of the Environment, Community and Local Government (Noel Casserly - noel.casserly@environ.ie +35318882880)

We encourage involving other stakeholders with whom you work in filling out this self-assessment (e.g. researchers, EPAs, NGOs).

- **Environmental Protection Agency**

Part I: General statements on adaptation

1. In my country, in the past five years, the level of public awareness of the need for adaptation as a response to climate change has increased

☐ strongly agree ☐ agree ☒ neutral ☐ disagree ☐ strongly disagree ☐ don't know

2. In my country, the need for climate change adaptation has reached the national political agenda

☐ strongly agree ☒ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

3. In my country, the following influences have triggered adaptation (Please select three most important triggers)

- ☒ Extreme weather events
- ☒ Damage costs
- ☐ UNFCCC process
- ☒ EU policies
- ☐ Adaptation in neighbouring countries
- ☒ Scientific research
- ☐ Public pressure
- ☐ Lobbying from private sector
- ☐ Forerunner sectors
- ☐ Media coverage

4. In my country, the willingness to develop policies and to take adaptation actions at national level is

☐ very high ☐ high ☒ medium ☐ low ☐ very low ☐ don't know

5. In my country, in the past five years, there has been an increase in the amount of adaptation-related knowledge (e.g. in relation to vulnerabilities, adaptation options) generated with the aim of informing policy making

☒ strongly agree ☐ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

6. In my country, uncertainties in future projections (e.g. uncertainties regarding climate change) are explicitly addressed in the adaptation policy process

☐ strongly agree ☒ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

7. In my country, adaptation objectives are based on an understanding of the impacts, risks and/or vulnerabilities to climate change

☐ strongly agree ☒ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

8. In my country, integration of adaptation into sectoral policies and programmes is increasing

☐ strongly agree ☒ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

Please provide examples:

Guidelines are being developed on how to integrate climate change adaptation into the spatial planning process and through the SEA instrument. The EPA is also developing in house guidelines on climate change and SEA.

9. In my country, aspects that are relevant to climate change mitigation are taken into account in the adaptation policy process

☐ strongly agree ☒ agree ☐ neutral ☐ disagree ☐ strongly disagree ☐ don't know

Please provide examples:

In line with the 2011 Programme for Government which sets out a commitment to publish a Climate Bill, outline heads of the draft Climate Action and Low Carbon Development bill were referred to the Government Committee on Environment, Culture and the Gaeltacht in February 2013. The Committee is facilitating the debate on national policy and legislation in response to the outline heads of the bill. The proposed legislation places a responsibility to make arrangements by way of national low carbon roadmap (incorporating sectoral roadmaps from key sectors), aimed at achieving transition to a low carbon, climate resilient and environmentally sustainable economy over the period to 2050. Sectoral roadmaps will address both mitigation and adaptation measures required in this regard.

10. In my country, transnational co-operation is considered as an element in our adaptation policy process

☐ strongly agree ☐ agree ☒ neutral ☐ disagree ☐ strongly disagree ☐ don't know

Please provide examples:

Potential for further cross-border collaboration in adaptation with authorities and stakeholders in Northern Ireland

11. In my country, the following barriers for adaptation have been identified (Please select the three most important barriers)

- ☐ Lack of political commitment/will
- ☒ Unclear responsibilities
- ☐ Limited cooperation among stakeholders
- ☒ Lack of (financial, human) resources
- ☒ Uncertainties
- ☐ Lack of knowledge generation
- ☐ Lack of knowledge exchange
- ☐ Lack of data such as socio-economic, climate and other physical data
- ☒ Limited capacity in the policy, practitioner and/or research communities
- ☐ Conflicting values and interests
- ☐ No adequate adaptation options available
- ☐ Legal issues (e.g. conflicting legislations)

Please use the box below to provide any further comments and thoughts related to the questions above or any information that you wish to share with us (e.g. reports, references)

We have a clear policy direction on adaptation in the recently published Climate Change Adaptation Framework; this will be supported by appropriate climate legislation. The proposed Climate Bill, when enacted, can provide a clear legal mandate for sectors and levels of governance to operate. One of the main barriers, up to now, for successful adaptation is the unclear definition and delineation of responsibilities of the different authorities and stakeholders. The need to promote mainstreaming of climate change adaptation across governance frameworks and institutions will be reflected in future legislative changes to underpin national climate policy. It is envisaged that the legislation will deliver transparency and accountability by requiring relevant Ministers to provide annual reports on mitigation and adaption policies and measures. Public bodies will also be required to have regard to the national objective of mitigating emissions and adapting to the effects of climate change.

Part II: The adaptation policy process

12. In what stage of the adaptation policy process is your country in?

- ☐ Adaptation process has not started
- ☐ Agenda setting (i.e. adaptation is politically recognised as important)
- ☐ Formulation (i.e. responsible actors respond by formulating adaptation policies)
- ☒ Decision (i.e. policymakers have adopted an adaptation policy)
- ☐ Implementation (i.e. measures foreseen in the policy are being implemented)
- ☐ Monitoring and evaluation (i.e. review and updates of policy/actions)

Prepare the ground for adaptation

13. How would you assess the mechanism put in place at national level to coordinate the horizontal integration (i.e. integration into sectors) of the adaptation policy process?

- ☐ very effective ☐ effective ☐ medium effective ☐ less effective ☐ not effective ☐ no mechanism in place ☒ don't know

14. How would you assess the mechanism put in place at national level to coordinate the vertical integration (from national to local level) of the adaptation policy process?

- ☐ very effective ☐ effective ☐ medium effective ☐ less effective ☐ not effective ☐ no mechanism in place ☒ don't know

15. Please give a short description of the horizontal and vertical coordination of adaptation policy in your country. Please also indicate who has been involved and what mechanism for coordination has been used (please also indicate if these mechanisms have changed in the different stages of the process, e.g. from formulation to implementation).

Horizontal coordination

It is very early days to make an assessment. The National Adaptation Framework was published in December 2012. The Framework gives the mandate to the relevant Government Departments and Agencies to prepare sectoral plans (drafts of the sectoral plans must be prepared by mid 2014). Each Minister will promote an institutional environment, for their sector, that enables organisations and individuals to make effective and efficient decisions. The Department of the Environment will lead and coordinate national adaptation policy and implementation working, as appropriate, through the Cabinet Committee system.

Vertical coordination

As above, it's early days to make an assessment given that the National Adaptation Framework was published in December 2012. As local authorities review their city and county development plans they should integrate climate change adaptation (as well as mitigation) considerations into their statutory plans. Local authorities should aim to have the review process of their development plans underway by mid- 2014 (if necessary through amendment and variation procedures) to include climate change adaptation if this is not already adequately addressed. As part of this process, local authorities will continue to collect evidence, raise awareness, and create the necessary relationships and actions needed to deliver purposeful adaptation measures. The Department of Environment, Community and Local Government will support and facilitate this approach in the preparation of guidelines for integrating climate adaptation into development plans as well as guidance on adaptation proofing of Strategic Environmental Assessment. The City and County Managers Association (CCMA) will play an advisory role and facilitate the exchange of best practice in the implementation and development of climate adaptation policy at local level, fostering a shared approach to managing the impacts of climate change. Local authorities will continue to consult and encourage partnership with stakeholders when addressing adaptation matters at a local level, particularly

through the open and participative process for making development plans, into which local adaptation planning is to be integrated.

What was crucial for successful coordination?

no answer

What was challenging or missing?

no answer

Identify risks and explore options

16. Are risk assessments or vulnerability assessments available for your country?

☒ yes ☐ currently under development ☐ not yet, but planned ☐ no ☐ don't know

If yes: available at

☒ national level ☐ sub-national level ☐ trans-national level

Please provide references to relevant documents, also if available at sub-national or trans-national level (e.g. Länder, provinces, regions, communities, river-basin):

Please insert text and provide references to documents.

A national vulnerability assessment has been undertaken by the research community. The report is due for publication: Current and Future Vulnerabilities to Climate Change in Ireland (Coll and Sweeney, 2013)

Upload documents. Select files from your computer - they will be uploaded when you click the Save button at the end of this page.

17. In relation to the risk and vulnerability assessment available at national level, which of the following sectors have been covered?

Coverage / Sectors	Covered in the national assessment	Covered in sector-based assessment led by ministries in charge of this sector	Covered in sector-based assessment led by private sector or industry groups
Agriculture	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forestry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Biodiversity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Human health	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Marine and fisheries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mountain areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tourism	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Transport	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Energy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Built environment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spatial planning, urban planning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Disaster risk reduction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Civil protection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Industry	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business and services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial/Insurance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cultural heritage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cross-sectoral impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

18. In relation to the national assessment, how is/was the risk or vulnerability assessment process coordinated (e.g. who commissioned the work; who carried it out)? What methodological approach (e.g. literature review, modelling, expert appraisal) has been used? How have uncertainties been addressed?

Coordination

The research was commissioned by the EPA Climate Change Research Programme (CCRP). Work was undertaken by researchers at the National University of Ireland, Maynooth. The work was guided by an external steering group with international colleagues providing advice and a steer

Methodological approach

A preliminary first generation vulnerability assessment, strengthened by stakeholder input. Stakeholder engagement/consultation/advisory committee; Sensitivity Analysis; Expert Judgement; Modelling.

19. In relation to the national assessment, have you identified the costs of climate change impacts and the costs and benefits of adaptation?

No

20. In relation to the national assessment, what kind of information is still needed for risk or vulnerability assessments? Please select the three most important issues:

- ☐ Uncertainty estimates
- ☐ Local/community level information
- ☐ Consideration of different time periods
- ☒ Estimates of costs
- ☒ Estimates of benefits
- ☒ Information on interdependencies across sectors
- ☐ Consideration of social issues

21. In relation to the national assessment, do you plan to update the risk or vulnerability assessments?

- ☒ not planned ☐ planned but work has not started ☐ update of assessment has started ☐ update already available ☐ don't know

Are there requirements to do so on a regular basis? Please explain.

No, but we recognise that a detailed risk assessment of the key areas identified in the vulnerability assessment need to be interrogated further.

22. Have you identified and assessed adaptation options on the basis of risk or vulnerability assessments?

- ☐ yes ☐ currently under development ☐ not yet, but planned ☒ no ☐ don't know

If yes: available at

- ☐ national level
- ☐ sub-national level
- ☐ trans-national level
- ☐ sectoral level
- ☐ cross-sectoral level

23. How have you identified and assessed adaptation options?

- ☐ Expert judgement
- ☐ Participatory processes
- ☐ Cost and benefit assessment
- ☐ Multi-criteria analyses

24. Please indicate the types of adaptation options identified:

- ☐ Grey options (i.e. technological, such as river flood defence, beach nourishment)
- ☐ Green options (i.e. ecosystem-based approaches that use nature's multiple services, such as crop diversification, enhancing the ability of indigenous plant and animal species to move across landscapes)
- ☐ Soft options (i.e. managerial, legal and policy approaches, such as awareness-raising initiatives, passing legislation, creating early warning systems, insurance, planning instruments)
- ☐ Combined options

25. Have you prioritised adaptation options?

- ☐ yes ☐ currently under development ☐ not yet, but planned ☒ no ☐ don't know

26. If you have prioritised adaptation options, which methodological approach (e.g. expert judgment, multi-criteria analysis) has been used?

no answer

27. Have the adaptation options been included in an action plan?

no answer

Upload documents. Select files from your computer - they will be uploaded when you click the Save button at the end of this page.

Implementation, monitoring and evaluation

28. Please provide a maximum of three examples of what you would consider as 'good practices' in adaptation that have already been put in place in your country. Please indicate why they are considered to be 'good practice'?

Restoration of Bora Cutaway Bogland. The project prevented subsequent drying out of the peatland and addressed not only commercial interests but equally environment and socio economic concerns. Lower River Dodd Flood Defence: This project now affords protection to the National Standard of a combined 1. 200 year coastal and fluvial event for inter tidal areas and makes allowances for global warming to the year 2100.

29. What are your plans for integrating new information and insights into existing adaptation policies?

Our National Adaptation Framework provides that the proposed sectoral and local adaptation plans should be reviewed at least every five years. Each new plan will build upon experience gained and will take account of new research and policy on adaptation. The EPA will continue to lead in the development of a web based tool known as the climate platform (CIP). The platform will include details of all EPA funded research on adaptation and the associated findings. Other State Bodies will also provide specifics of their adaptation research for publication on the Platform.

30. In my country, monitoring, reporting and evaluating schemes for adaptation policies are ...

Monitoring

☐ not planned ☒ planned ☐ under development ☐ currently being implemented

Reporting

☐ not planned ☒ planned ☐ under development ☐ currently being implemented

Evaluation

☐ not planned ☒ planned ☐ under development ☐ currently being implemented

In case you have selected "Under development" or "Currently being implemented", please provide additional information and upload related documents.

In order to ensure efficient monitoring and review of sectoral and local plans, the National Adaptation Framework provides that the EPA's Climate Research Programme will take account of the need for adaptation indicators to assist in the monitoring and review of adaptation plans as well as allowing for comparisons across plans.

Upload documents. Select files from your computer - they will be uploaded when you click the Save button at the end of this page.

Part III: Level of adaptation and policy instruments in sectors

31. Please highlight the relevant sectors/areas in your country and assess the current state of adaptation at various levels:

Please score the state of adaptation using the following scale:

Selected Value Meaning

0 = adaptation is not relevant for my country

1 = need for adaptation not recognised and no measures implemented yet

2 = coordination activities for adaptation started

3 = some adaptation measures identified for the sector but not yet implemented

4 = portfolio of adaptation measures identified and implementation (of some) launched

5 = portfolio of adaptation measures implemented

6 = portfolio of adaptation measures in place and monitored/evaluated

Use the arrows or the keyboard to input digits from 0 to 6.

Levels / Sectors	Adaptation at national level	Adaptation at sub-national level (e.g. provinces, regions)	Adaptation at local or city-level	Priority sectors/areas for implementation	Please provide some examples if you have indicated that the adaptation state is 4, 5 or 6
Agriculture	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Forestry	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Biodiversity	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Human health	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Water	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Marine and fisheries	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Coastal areas	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Mountain areas	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="text"/>
Tourism	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Transport	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Energy	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Built environment	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Spatial planning, urban planning	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="text" value="2"/>	<input type="checkbox"/>	<input type="text"/>
Disaster risk reduction	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>

Civil protection	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Industry	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Business and services	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Financial/Insurance	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>
Cultural heritage	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="text" value="1"/>	<input type="checkbox"/>	<input type="text"/>

32. Are you using policy instruments (see question 33 below for examples) for implementing adaptation actions?

☒ yes
 ☐ under development
 ☐ no
 ☐ don't know

33. If you are already using instruments for implementing adaptation, what are the main instruments in the different sectors in your country?

Sectors / Instruments	Agriculture	Forestry	Bio diversity	Human health	Water	Marine fisheries	Coastal areas	Mountain areas	Tourism	Transport	Energy	Built environment	Spatial planning	Disaster risk reduction	Civil protection	Industry	Business services	Financial insurance	Cultural heritage
Information (e.g. dissemination, education, guidelines)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Main-streaming	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial support (e.g. subsidies, taxes)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Legislation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Partnering instruments (e.g. PPPs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Action plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Others: Management strategies	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
green technologies, development and demonstration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

34. If (additional) instruments for implementation are planned in your country, what are the main instruments you are considering?

Work on adaptation is well underway in Ireland either as a process of specific adaptation or relevant work that is being carried out for other purposes, not necessarily under the banner of adaptation. Many adaptative actions have already taken place by households, businesses, Local Authorities etc. although they may not be part of a strict portfolio of measures. The Department of the Environment, Community and Local Government continues to prioritise the filling of gaps in climate research to ensure that accessible information will continue to be provided to support the adaptation decision making process. Raising awareness and mainstreaming are regarded as vital tools in addressing the impacts of climate change in Ireland. Important policy instruments in our National Adaptation Framework are the development of Sectoral and Local Adaptation plans.

35. What are the most important financing mechanisms currently in place (or the mechanisms that will be considered in the future) for implementing adaptation in the sectors you have identified as relevant in your country?

Financing mechanisms / Sectors	Agriculture	Forestry	Biodiversity	Human health	Water	Marine fisheries	Coastal areas	Mountain areas	Tourism	Transport	Energy	Built environment	Spatial planning	Disaster risk reduction	Civil protection	Industry	Business services	Financial insurance	Cultural heritage
Explicit budgetary allocations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Project based public support	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Public-private partnerships	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insurance mechanisms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please use the box below to provide any further comments and thoughts related to the questions above or any information that you wish to share with us (e.g. reports, references):

The public expenditure implications of climate adaptation in Ireland will become clearer when local and sectoral plans on adaptation are finalised, Such expenditure will fall to be met through appropriate prioritisation by Department and Agencies within the overall public expenditure envelope agreed by Government.

Upload documents. Select files from your computer - they will be uploaded when you click the Save button at the end of this page.

36. In your country, how do you address transboundary issues? Which instruments facilitate your work (e.g. EU Regional Policy, EU Interreg projects, biogeographical regions and regional adaptation strategies)?

EU Regional Policy and EU Intereg Projects

37. In your country, how do you coordinate adaptation activities across regions or municipalities? Which instruments facilitate your work (e.g. River Basin Management Plans,

flood risks mapping, spatial planning taking account of the diversity of territories)?

no answer

Part IV: Involvement of stakeholders

38. Have you involved stakeholders in the adaptation policy process?

☐ No ☒ Yes

39. If yes, how would you assess the general contribution of stakeholders/actors engagement in the adaptation policy process?

☐ very important ☒ important ☐ neutral ☐ less important ☐ not important

40. The three tables below allow you to identify the stakeholders involved and the format of their involvement for the development (1st table), implementation (2nd table) and monitoring and evaluation (3rd table) phases of the adaptation process.

Level of involvement:

Information given	information has been provided to stakeholders (e.g. web-sites, newsletter, reports, informative meetings)
Information gathered	information has been collected from stakeholders (e.g. online-survey)
Consultation	feedback on policy draft proposals has been obtained from stakeholders (e.g. written feedback on policy drafts)
Active involvement	stakeholders have actively been involved in, and have had the possibility to shape decision-making in the adaptation policy (e.g. advisory committees)
Partnerships	decision-making power is redistributed through negotiation between responsible authority and stakeholders
Empowerment	final decision is in the hands of the stakeholders

From the national perspective, what has been the involvement of stakeholders in the development phase of the adaptation policy process?

Stakeholders / Format of involvement	Information given	Information gathered	Consultation	Active involvement	Partnerships	Empowerment
Governmental stakeholders from national level (e.g. policy makers, public administration, governmental agencies)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Governmental stakeholders from sub-national level (including local level)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private sector	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interest groups (e.g. farmers' association, NGOs)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scientists/researchers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From the national perspective, what has been the involvement of stakeholders in the implementation phase of the adaptation policy process?

Stakeholders / Format of involvement	Information given	Information gathered	Consultation	Active involvement	Partnerships	Empowerment
Governmental stakeholders from national level (e.g. policy makers, public administration, governmental agencies)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Governmental stakeholders from sub-national level (including local level)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private sector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interest groups (e.g. farmers' association, NGOs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scientists/researchers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General public	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



From the national perspective, what has been the involvement of stakeholders in the monitoring and evaluation of the adaptation policy process?

Stakeholders / Format of involvement	Information given	Information gathered	Consultation	Active involvement	Partnerships	Empowerment
Governmental stakeholders from national level (e.g. policy makers, public administration, governmental agencies)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Governmental stakeholders from sub-national level (including local level)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Private sector	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Interest groups (e.g. farmers' association, NGOs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Scientists/researchers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General public	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



41. From your experience, what are the three most important elements in running a successful stakeholders process?

no answer

Please use the box below to provide any further comments and thoughts related to the questions above or any information that you wish to share with us (e.g. reports, references):

Public Consultation was held in March/April 2012 on the development of national climate policy and legislation. Questions in the survey included some questions on the adaptation agenda. Our National Adaptation Framework requires an open, transparent and inclusive approach the development of Sectoral Adaption Plans with interested parties being given early and adequate opportunity to input into the process of preparing adaptation plans. The Framework also gives a mandate to Local Authorities to prepare, review, and amend local development plans to mainstream climate change adaptation to effect local adaptation planing and Local Authorities will continue to consult at local level.

Upload documents. Select files from your computer - they will be uploaded when you click the Save button at the end of this page.

Part V: Open questions on next steps

42. What are the next steps your country is planning? Please provide information on the following issues and the related timing (addressing both national and sub-national levels):

Risk or vulnerability assessments (e.g. consider other sectors)

A national vulnerability assessment has been undertaken by the research community. The report is due for publication: Current and Future Vulnerabilities to Climate Change in Ireland (Coll and Sweeney, 2013)

Legislation to support adaptation

Draft outline heads of a 'Climate Action and Low Carbon Development Bill' have recently been referred to a Government Committee for consideration and this Committee are due to report back to the Environment Minister in September 2013.

Implementation

The development of Sectoral and Local Adaptation Plans as provided for in the National Adaptation Framework.

Monitoring/reporting and evaluation

Future work under the EPA's Climate Change Research Programme will take account of the need for adaptation indicators to assist in monitoring and reviewing of plans as well as allowing for comparison across plans.

Updating strategy/plan

The National Adaptation Framework provides the policy context for our strategic national adaptation response to climate change and is designed to evolve over time as planning and implementation progresses and as further evidence becomes available. It recognises that adaptation is an iterative process and it proposes that Ireland follows a two phase approach to adaptation similar to that proposed by the EU. Phase 1 which is already underway is focused on increasing our understanding of the national impacts and national vulnerabilities associated with climate change. Phase 2 will focus on the development and implementation of sectoral and local adaptation plans which will form the key pillars of the national climate response to climate change adaptation. The plans will be informed by the outcome of phase 1 and will build on the progress made in terms of adaptation awareness and integration. The plans will be updated and refined over time as more data on impacts becomes available and as experience with dealing with adaptation issues increases.

Others

no answer

43. In your opinion, what are the key issues that will shape the adaptation policy process in your country in the coming years? Please provide a maximum of three issues:

EU policy is and will continue to guide our national approach to adaptation.

44. What kind of adaptation support (e.g. knowledge, information, decision support tools) would you need from the European level?

Financial support and decision support tools would be of great value to assist in delivering adaptation actions.