

15th Eur-INBO Conference
25th International INBO Conference
Grand Hotel Malahide, Fingal, Dublin, Ireland
19th to 23rd September, 2017

Roundtable 1: 2.00 p.m. to 3.45 p.m.

EU Water Framework Directive Review
Impacts and Resilience of Economic Sectors

New Paradigm for Integration
Strategic Environmental Assessment Development/Implementation of Plans &
Programmes

Ray Earle, Eur-INBO Co-ordinator
Ireland

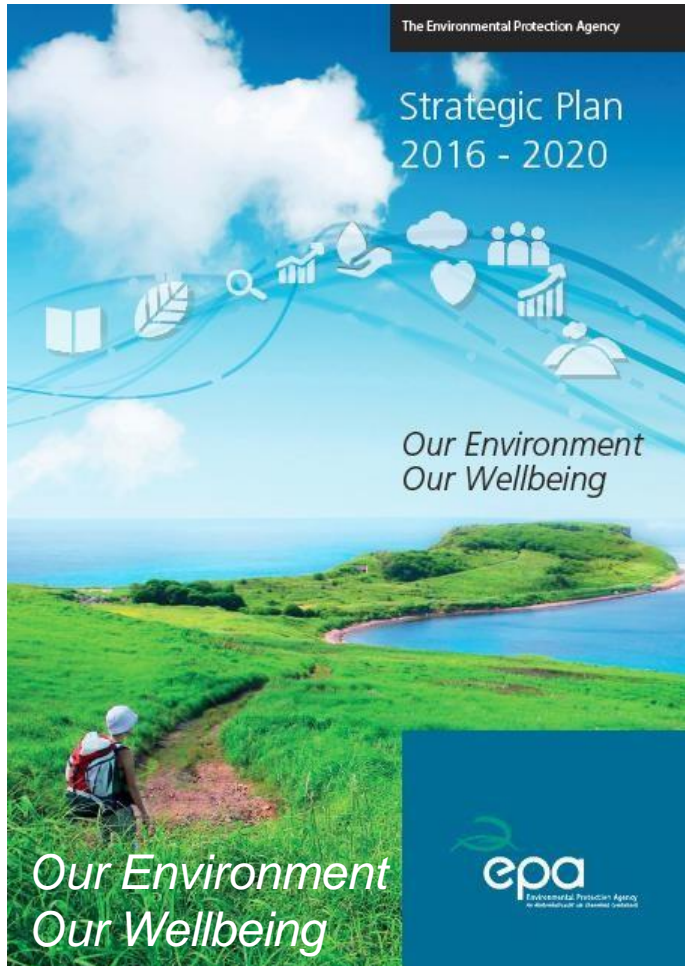
EU Water Framework Directive Review

Impacts and Resilience of Economic Sectors

Strategic Environmental Assessment

- **SEA Introduction**
- **SEA and Sectors**
- **Sector Plans / Programmes**
- **Ireland's Environment – Key Actions**
- **Implementation, Review and Monitoring**
- **SEA and NPF Benefits and -Opportunities**

Ireland's Environmental and Wellbeing Strategic Plan 2016 -2020



Vision:

“A *clean, healthy and well protected dynamic, integrated, shock-ready State supporting a sustainable, resilient, robust society. Environment and Economy*”

Mission:

To *protect and improve the environment as a valuable asset and defend against Ecosystem/Natural Capital Degradation for the People of Ireland*

To *protect our people and the environment from the harmful effects of radiation and pollution*

SEA Directive - Objective

Provide for

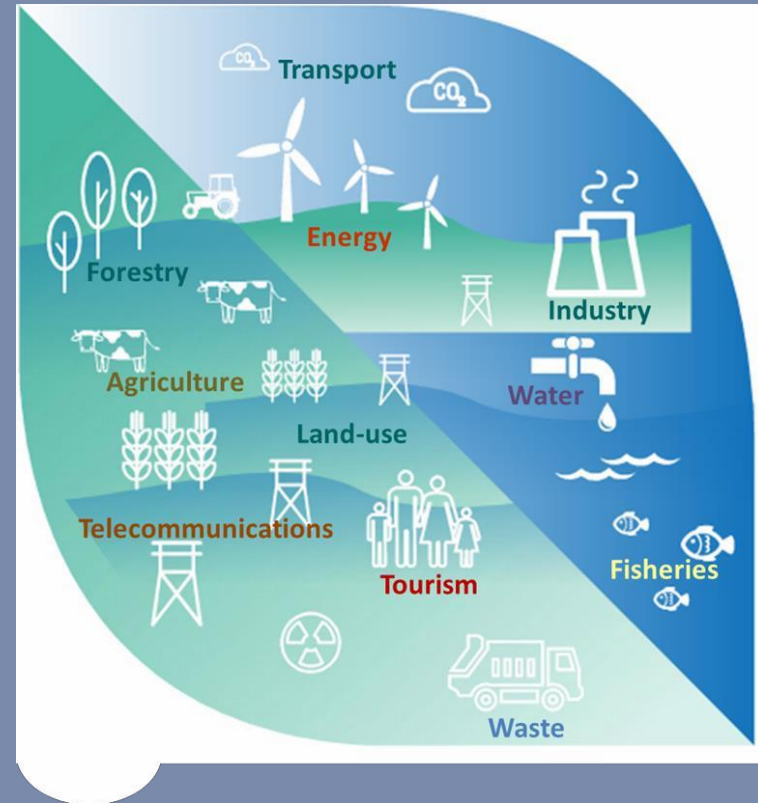
a high level of protection of the environment

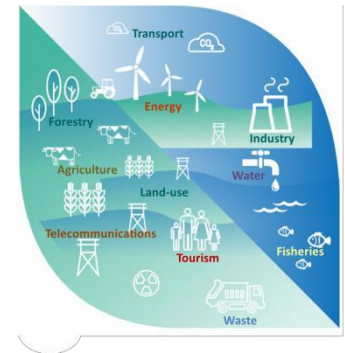
and to contribute to the

integration of environmental considerations

into the preparation and implementation of plans and programmes---including operational licensing and aftercare surveillance as appropriate

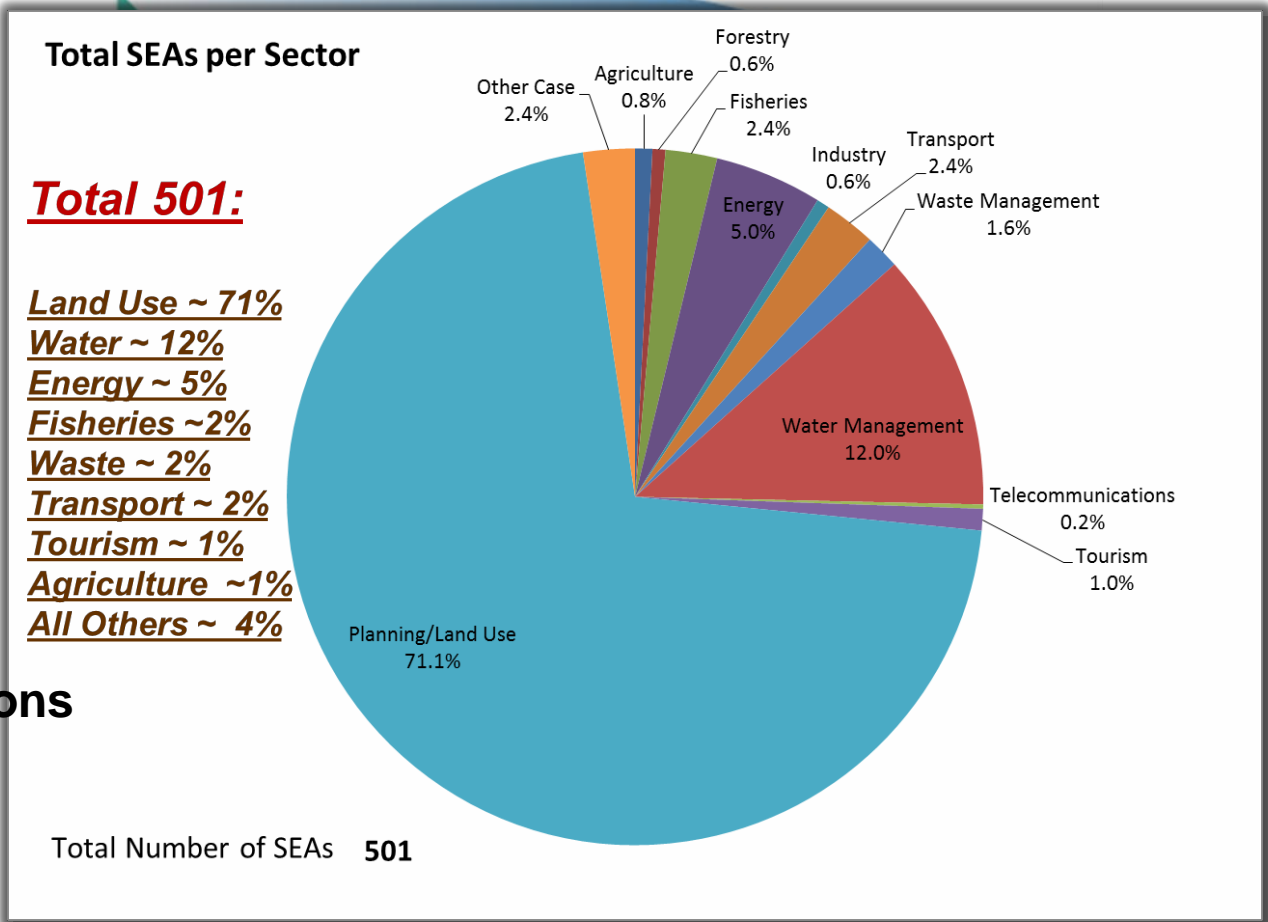
with a view to promoting sustainable, resilient and robust development measured by GNP, Green Accounting and Wellbeing/Happiness Index.





SEA – 11 Sectors

Trans**S**port
Water
Tour**R**ism
Plan**A**ning
Waste
Fish**E**ries
Energy
Industry
Tele**C**ommunications
Fore**E**stry
Agriculture



Waste

SEA Topics



Population & human health



Biodiversity, flora & fauna



Soil



Water



Air



Climate



Material assets



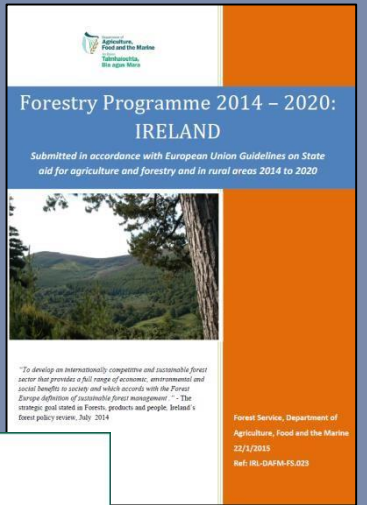
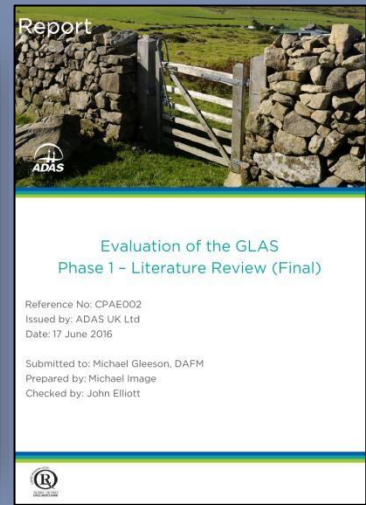
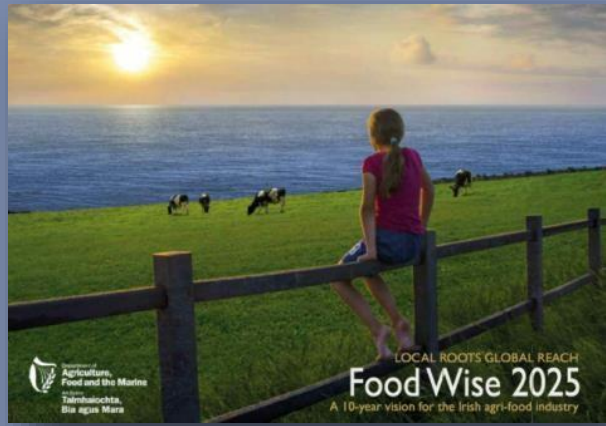
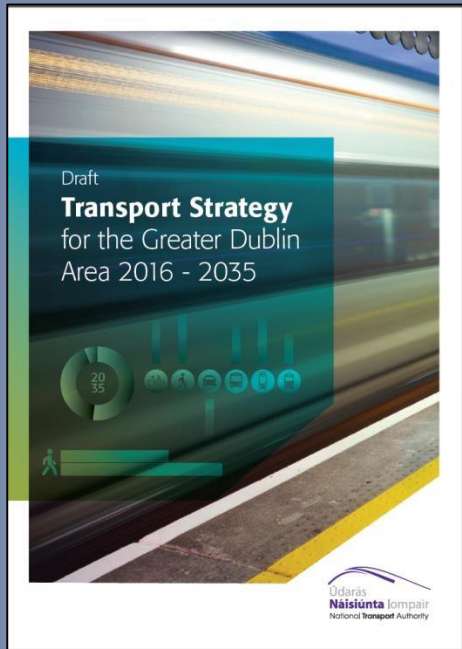
Landscape



Cultural heritage

Interrelationships between the topics

SEA – Some Key Sector Plans/ Programmes Rural Development , Agriculture, Forestry, Waste, Transport



SEA – Some Key Sector Plans Energy Climate Related

Offshore Renewable Energy Development Plan

A Framework for the Sustainable Development of Ireland's Offshore Renewable Energy Resource

February 2014

HARNESSING OUR OCEAN WEALTH

An Integrated Marine Plan for Ireland

Roadmap
New Ways
New Approaches
New Thinking

July 2012

Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádurtha
Department of Communications, Energy and Natural Resources

Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádurtha
Department of Communications, Energy & Natural Resources

Ireland's Transition to a Low Carbon Energy Future

2015-2030

Roinn Cumarsáide, Gníomhaithe ar son na hAeráide & Comhshaoil
Department of Communications, Climate Action & Environment

Briefing Document on Ireland's First National Mitigation Plan

Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádurtha
Department of Communications, Energy & Natural Resources

Draft Renewable Electricity Policy and Development Framework

DRAFT STRATEGIC ENVIRONMENTAL ASSESSMENT SCOPING REPORT - 2016

Draft Bioenergy Plan

October 2014

Roinn Cumarsáide, Fuinnimh agus Acmhainní Nádurtha
Department of Communications, Energy and Natural Resources

Irish Offshore Strategic Environmental Assessment (IOSEA) 5
Environmental Report

Prepared for:
Department of Communications, Energy and Natural Resources
Dublin, Ireland

Prepared by:
ENVIROON
UK

Date:
August 2015

Project or Issue Number:
UK18-20107

SEA – Some Key Sector Plans

Water Related



**PUBLIC CONSULTATION
ON THE RIVER BASIN
MANAGEMENT PLAN
FOR IRELAND (2018-2021)**

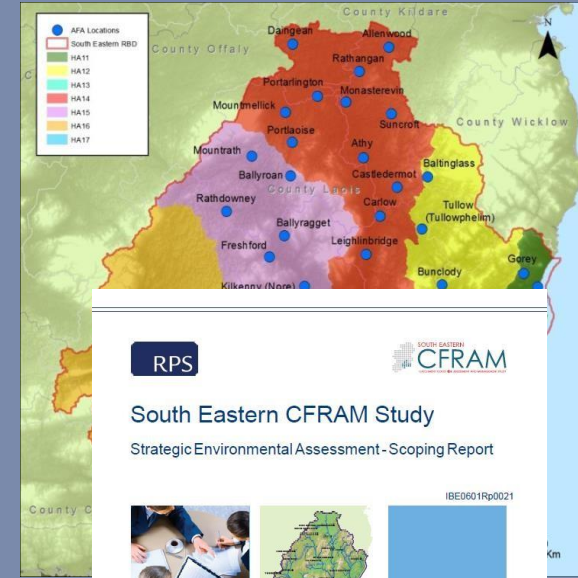
UISCE
WATER

Water Services Strategic Plan

A Plan for the Future of Water Services

Customer 	Water 	Wastewater
Environment 	Growth 	Investment

Safeguarding your water for your future



OPW
The Office of Public Works
1997-2015

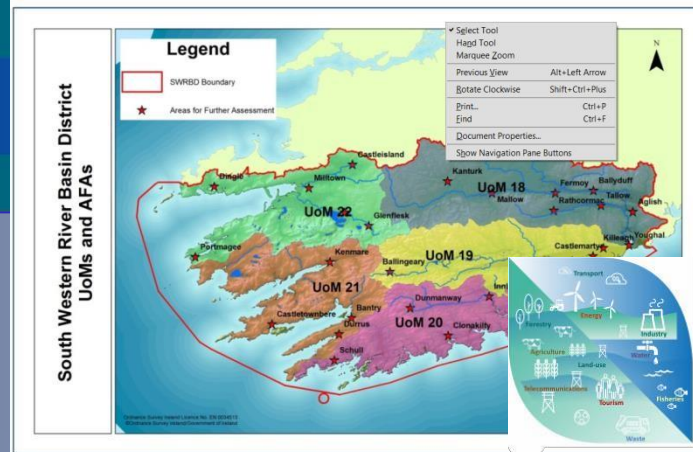
UISCE
WATER

Draft Lead in Drinking Water Mitigation Plan

Safeguarding your water for your future

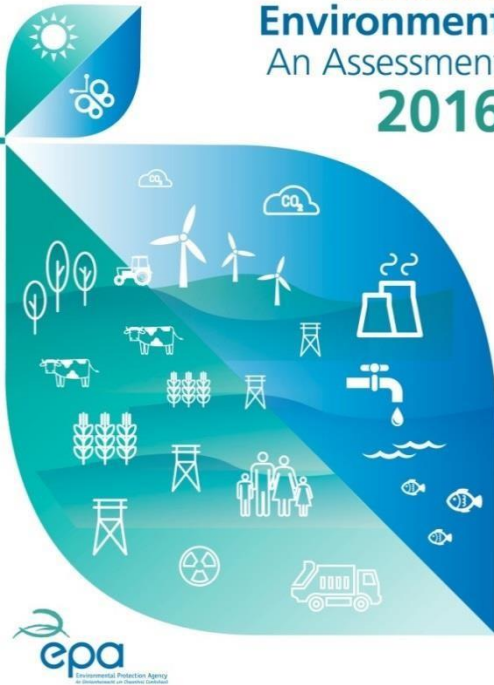
Eastern River Basin District River Basin Management Plan

2009 - 2015



Ireland's Environment Reporting on the State of Ireland's Environment

Ireland's
Environment
An Assessment
2016



Aspects Reported on : Environmental Assessments:

- Air Quality
- Climate Change
- Nature
- Inland and Marine Waters
- Waste
- Land and Soil

Environment, Health & Wellbeing incl

- Clean Air & Health
- Clean Water & Health
- Radioactivity in the Environment



Ireland's Environment Reporting on the State of Ireland's Environment



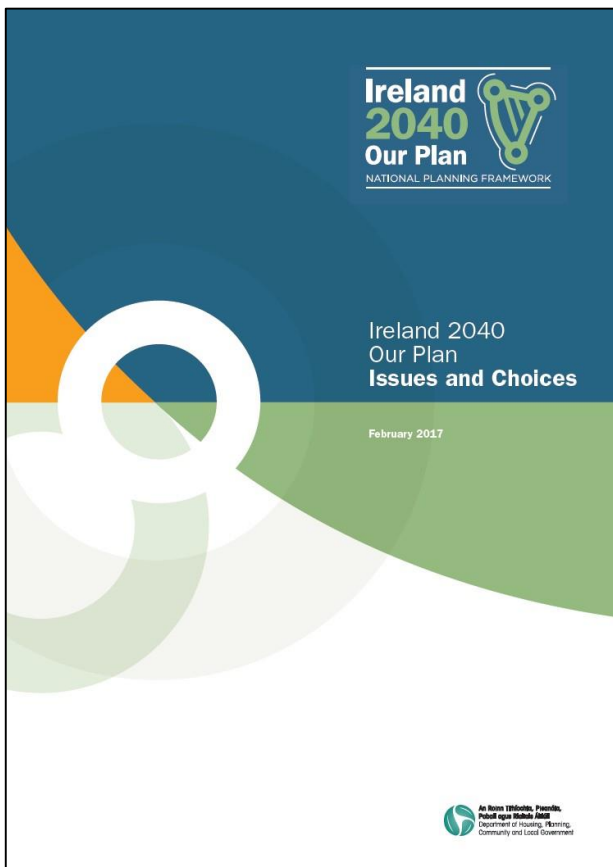
Aspects Reported on:

Environment and the Economy:

- Transport
- Energy
- Agriculture



National Planning Framework Issues and Choices



Ireland's National Planning Challenges

Peoples Health and Well being

A Place - Making Strategy

Ireland's Unique Environment Sustainability

Equipping Ireland for Future Development – Infrastructure

Enabling the Vision Implementation

Ireland 2040 Our Plan Issues and Choices

Minister's Foreword

1.0 Introduction

2.0 Ireland's National Planning Challenges

- 2.1 Future Change and Growth
- 2.2 Recent Development Pattern
- 2.3 Business as Usual
- 2.4 Learning from our Experience

3.0 People's Health and Well-Being

- 3.1 What does the NPF mean for Health and Well-Being?
- 3.2 Trends Influencing our Health and Wellbeing
- 3.3 Linking Health and Well-Being to Place

4.0 A Place-Making Strategy

- 4.1 Our Capital, Cities and Towns
- 4.2 Opportunities for our Regions
- 4.3 The Potential of Rural Ireland
- 4.4 Ireland in an All-Island Context
- 4.5 Integrated Land and Marine Development

5.0 Ireland's Unique Environment – Sustainability

- 5.1 Development and Land Use Change
- 5.2 Climate Action
- 5.3 ReEnergising Ireland
- 5.4 Heritage and Landscape
- 5.5 Green Infrastructure and Biodiversity

6.0 Equipping Ireland for Future Development - Infrastructure

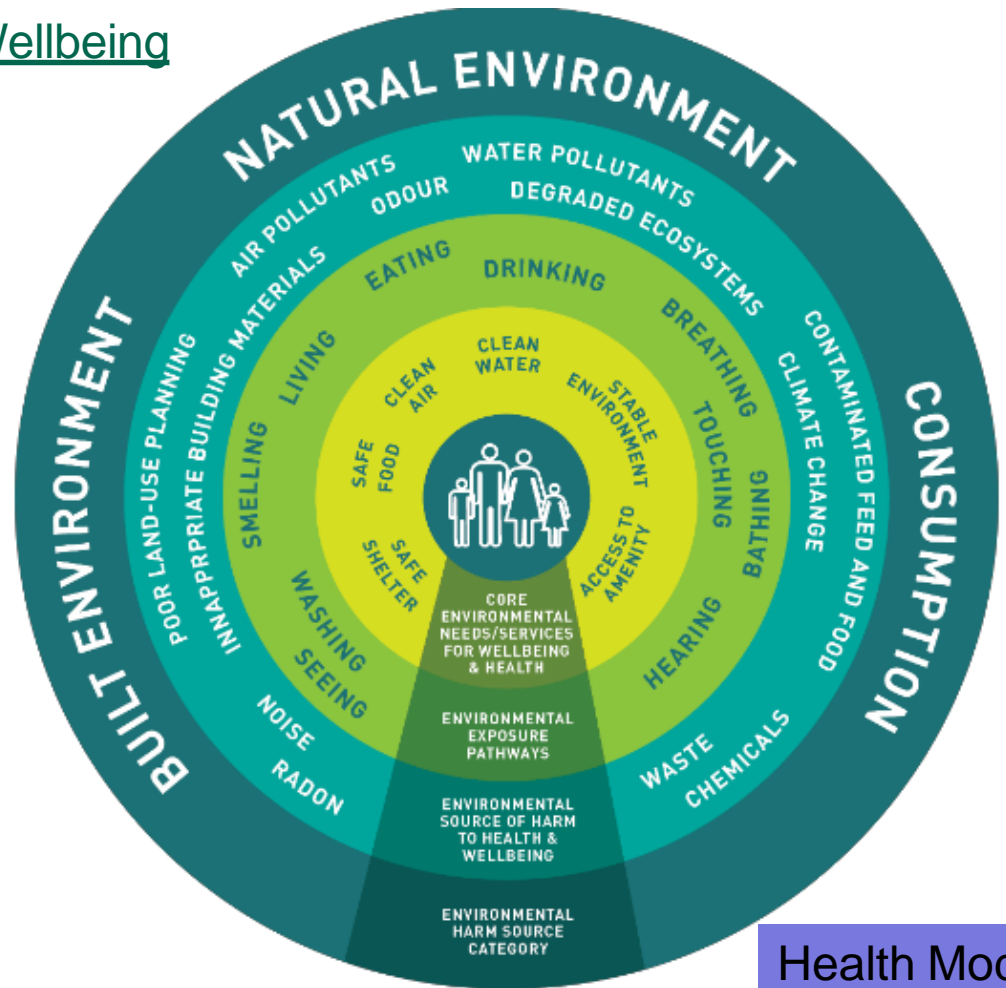
- 6.1 Setting the Bar
- 6.2 Scale and Impact

7.0 Enabling the Vision – Implementing the National Planning Framework

- 7.1 Commitment and Structures
- 7.2 Key Policy Considerations

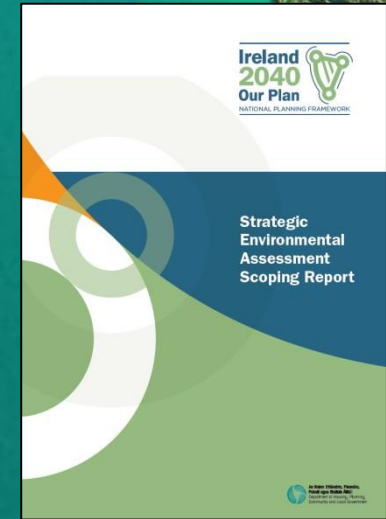
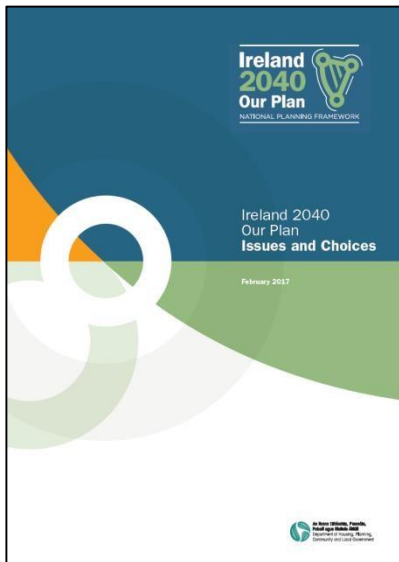
Ireland's Environment

Our Environment, Our Health, Our Wellbeing



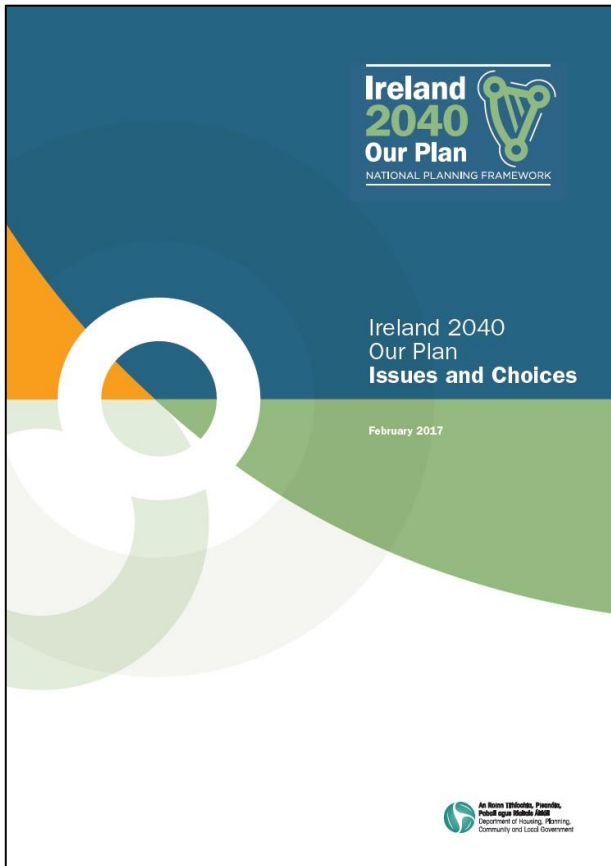
Health Model

National Planning Framework SEA Scoping Report



National Planning Framework

Ireland's Unique Environment- Sustainability



Development and Land Use Change

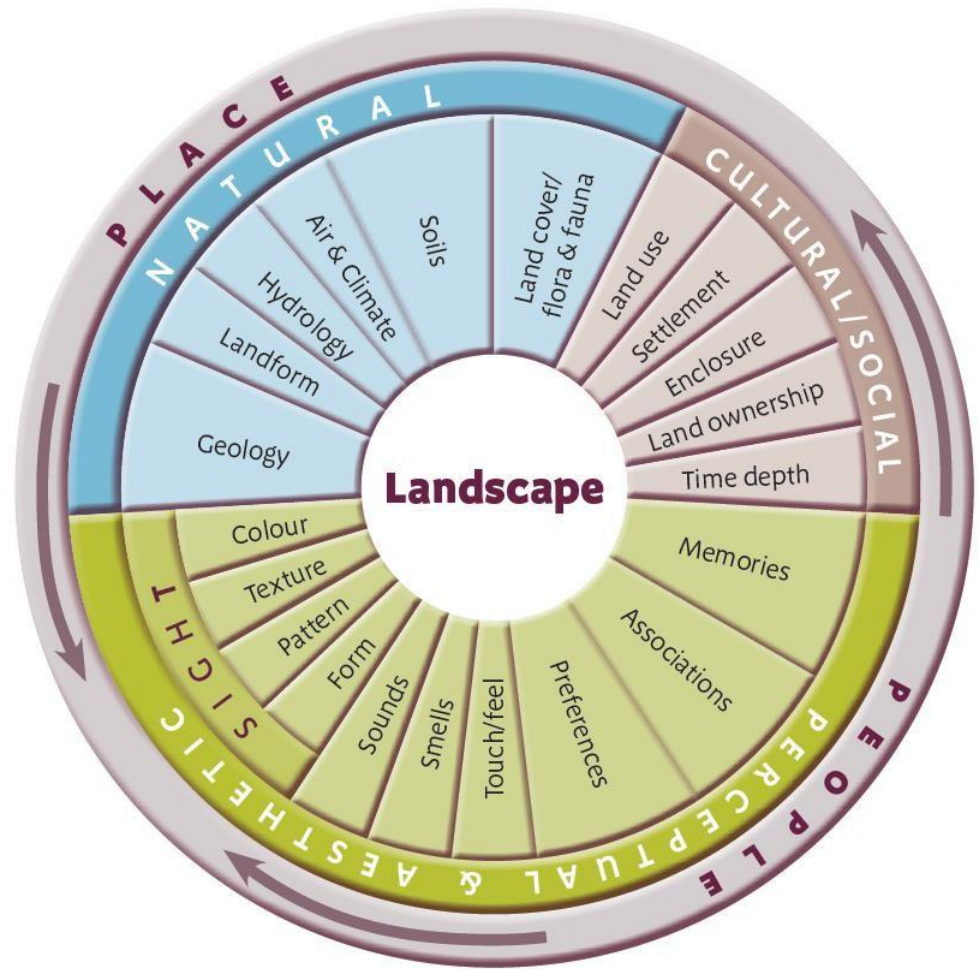
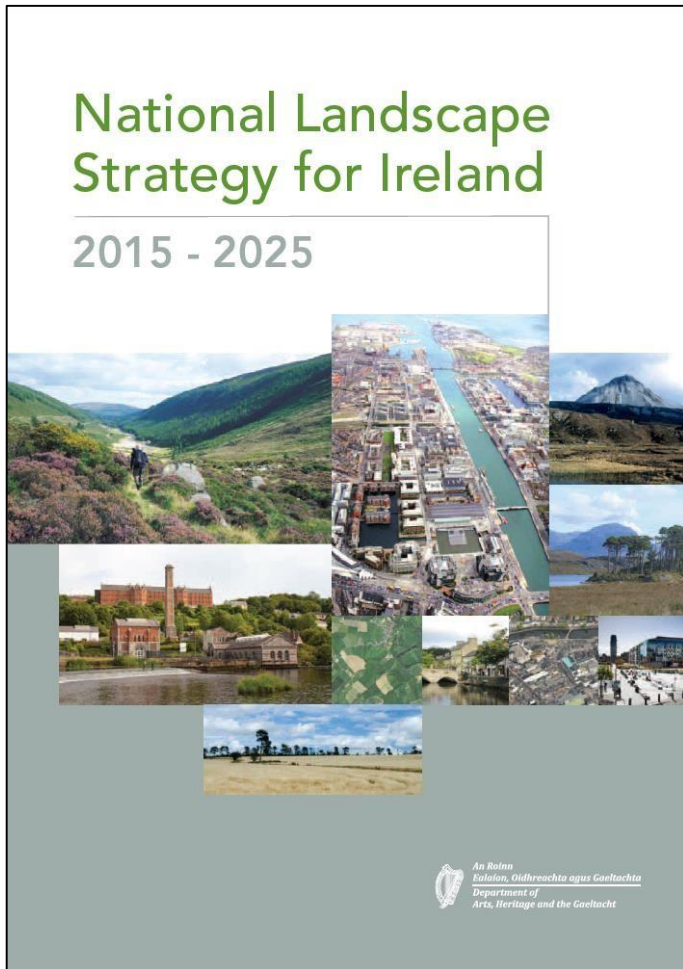
Climate Action –Mitigation & Adaptation

Re- Energising Ireland- Renewable Energy

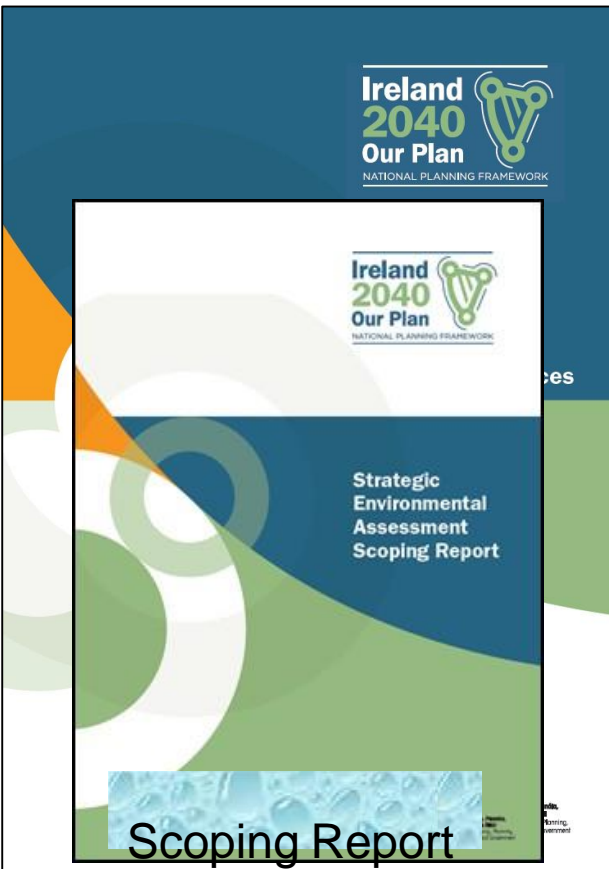
Heritage and Landscape- National Landscape Strategy

Green Infrastructure and Biodiversity

Ireland's Environment Land and Soils



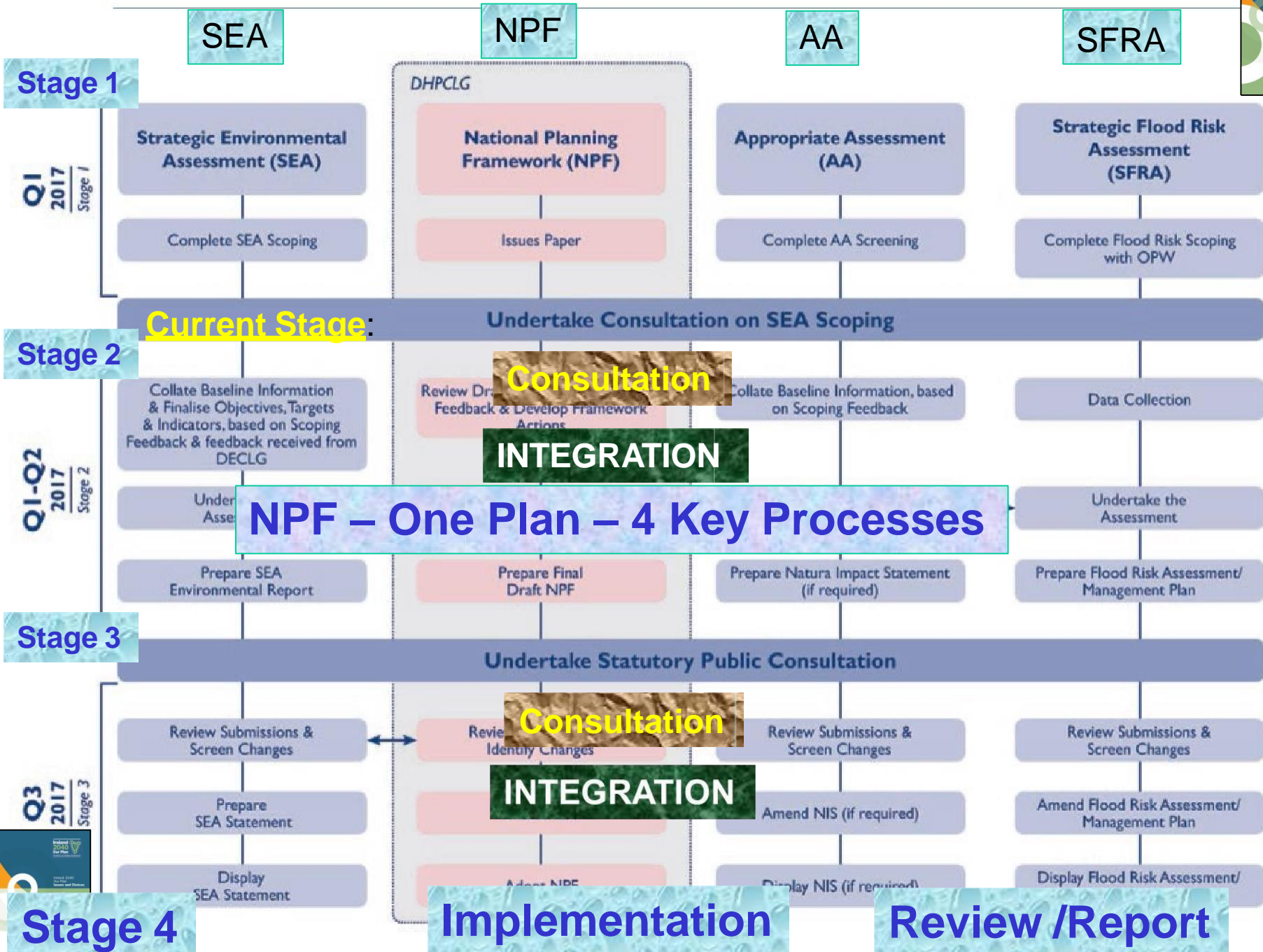
National Planning Framework Overview of SEA Process



Current Stage



Integration of Plan, SEA, AA and SFRA



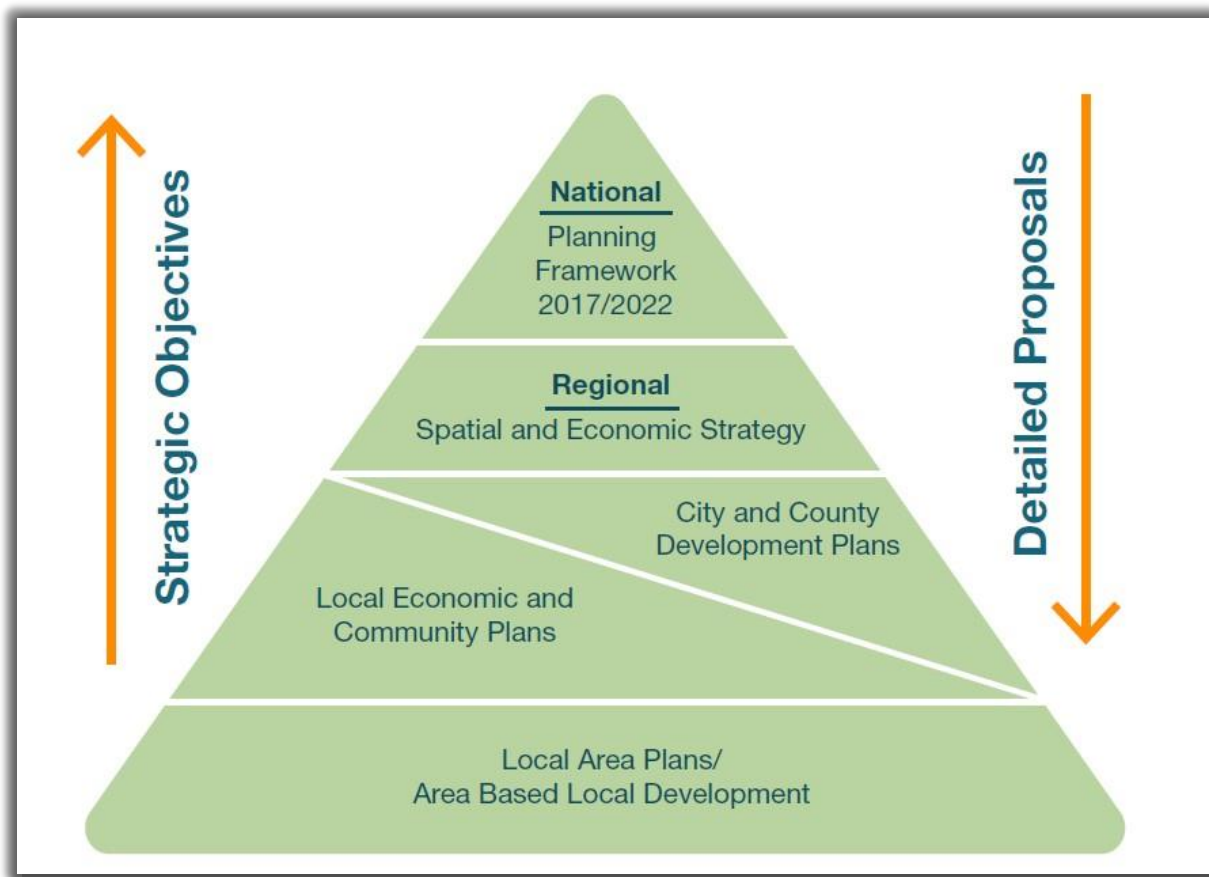


Figure 1.1 Seven Key Environmental Actions for Ireland on the State of the Environment in 2016

SYSTEMIC
MESSAGES



*Environment and
Health & Wellbeing*

Recognition of the benefits of a good quality environment to health and wellbeing.



*Climate
Change*

Accelerate mitigation actions to reduce greenhouse gas emissions and implement adaptation measures to increase our resilience in dealing with adverse climate impacts.



*Implementation
of Legislation*

Improve the tracking of plans and policies and the implementation and enforcement of environmental legislation to protect the environment.

TOPIC
MESSAGES



Restore & Protect Water Quality

Implement measures that achieve ongoing improvements in the environmental status of water bodies from source to the sea.



Nature & Wild Places

Protect pristine and wild places that act as biodiversity hubs, contribute to health and wellbeing and provide sustainable tourism opportunities.



Sustainable Economic Activities

Integrate resource efficiency and environmental sustainability ideas and performance accounting across all economic sectors.



Community Engagement

Inform, engage and support communities in the protection and improvement of the environment.

Ireland's Environment 2016

Key Action 1: Environment & Health & Wellbeing



Recognition of the benefits of a good quality environment to health and wellbeing.

Environment and Health inextricably linked

We need to be fully aware our health and well being are supported by a clean and well protected environment

Protecting Air Quality

We should not be complacent about our Air Quality

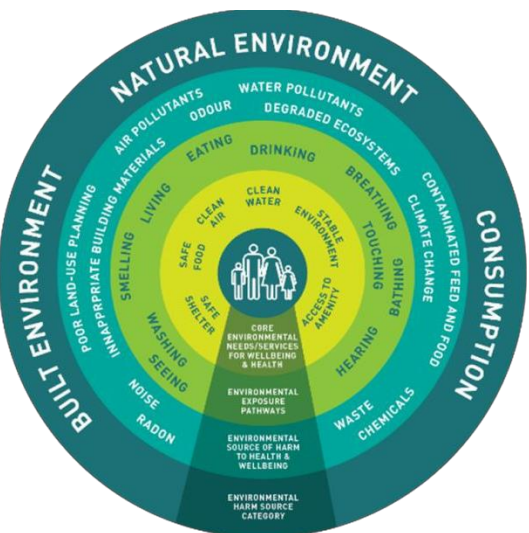
Drinking Water

We need to have safe and secure supplies of drinking water.

This will require significant investment

Environmental Nuisance

Local Action Plans are needed to deal with specific problems - odour, noise, and litter



Ireland's Environment 2016 Key Action 2: Climate Change – Agriculture/Transportation/Energy/Waste



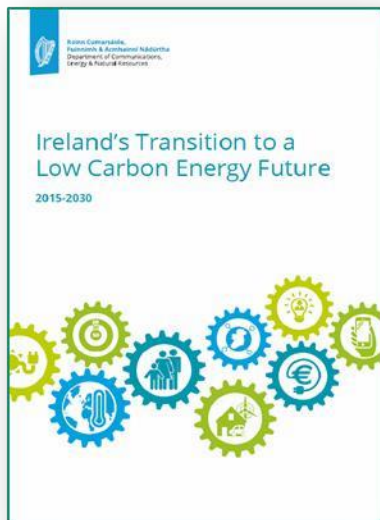
Accelerate mitigation actions to reduce greenhouse gas emissions and implement adaptation measures to increase our resilience in dealing with adverse climate impacts.

Urgent Action is needed around Climate Change including the work necessary to protect ourselves from its inevitable consequences including:

- Higher risk of polluted waters “unfit for purpose”,
- Dangerously contaminated food web/famine/pandemic,
- Critical biodiversity loss and threat to nature/evolution
- Extreme flooding/drought---extent, depth, velocity, losses
- Self propagating/ temperature rises
- Extreme storm events

There is a **pressing need** to develop , implement and monitor progress on these measures to understand trend, cause effect and appropriate remedial mitigation/adaptation

New **Green Metrics** (Green Accounting vs. GDP) and Secure Digital Methodologies re Sensoring, Event Data Capture, Data Assessment and Verification/Security are needed in the coming decades

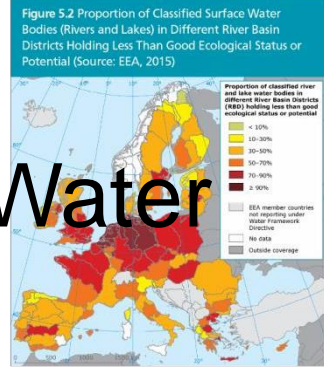


Briefing Document on Ireland's First National Mitigation Plan



Ireland's Environment 2016

Key Action 4: Restore and Protect Water Quality



Implement measures that achieve ongoing improvements in the environmental status of water bodies from source to the sea.

Protecting and improving our waters will present significant challenges in the future

Integrating coastal and estuarine policies with nature and water protection will benefit environmental protection

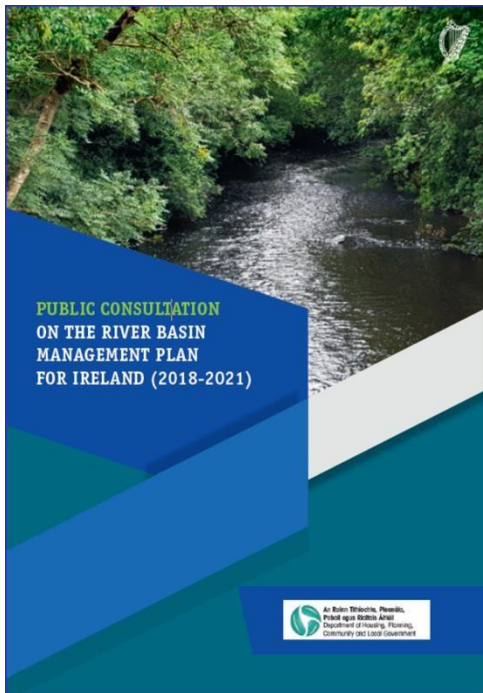
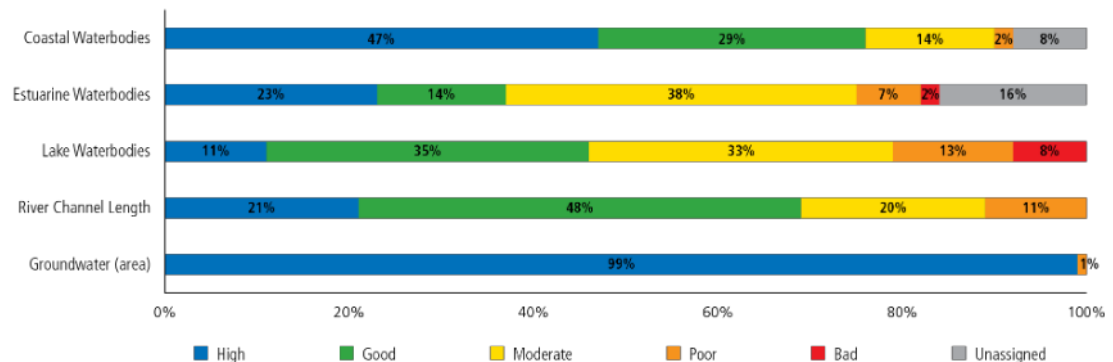


Figure 5.6 Water Assessment for Rivers, Lakes, Estuaries Coastal Waters (2013-2015) and Groundwater (2010-2012)³ (Source: EPA, 2016a)



Ireland's Environment 2016

Key Action 5 – Sustainable Economic Activities



Sustainable Economic Activities

Integrate resource efficiency and environmental sustainability ideas and performance accounting across all economic sectors.

Economy

We need to move from linear to dynamic circular economies for Utility Infrastructure and with Reuse of Materials at the end of a product's initial productive life but perhaps at a new level of Sustainability following a Climate Change "Shock"---Resilience

Waste Management Capacity

Vulnerability to external forces due to dependency on export market for treatment of recyclable waste

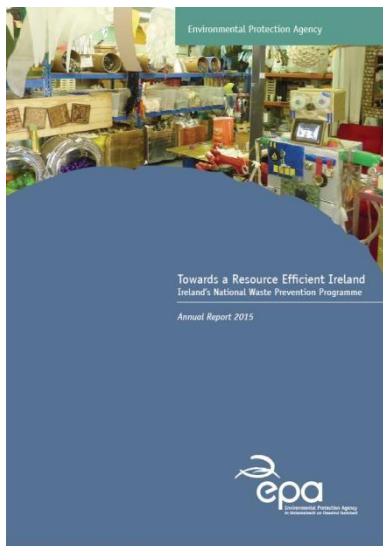
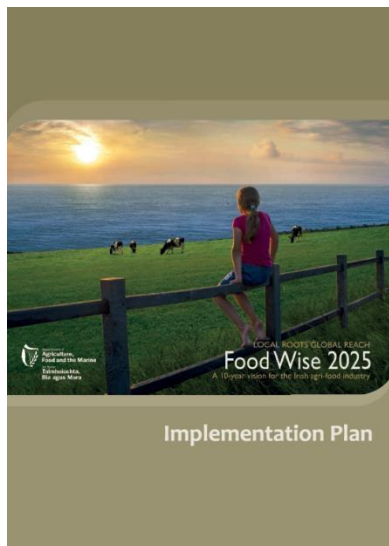
Agriculture

A need for policies to promote the right farming in the right place

Transportation

Electric Driverless Vehicles vs. Biofuels/Additives

The SEA process is a key tool integrating resilient environmental factors in plans & programmes



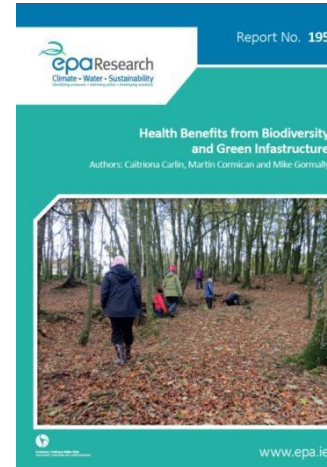
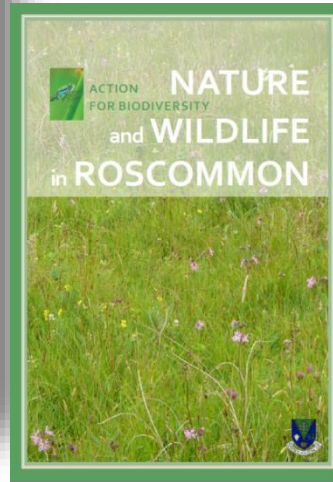
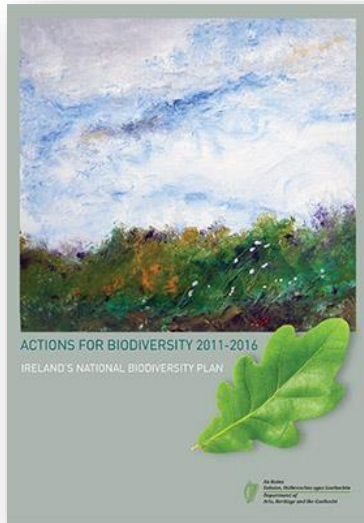
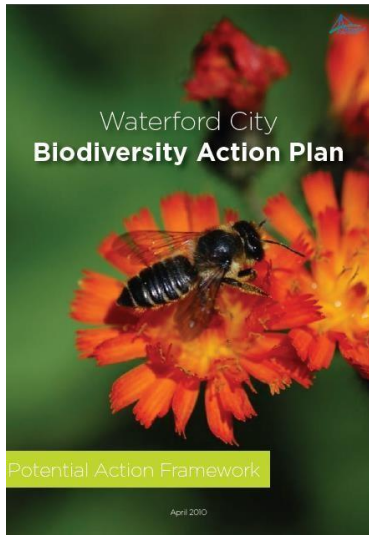


Nature & Wild Places

Protect pristine and wild places that act as biodiversity hubs, contribute to health and wellbeing and provide sustainable tourism opportunities.

KEY Action 6: Nature Protected Areas, Pristine Waters and Wild Scenic Unique Sites

We need to protect our remaining wild places that act as Biodiversity Hubs, contribute to Health and Well being and provide Tourism opportunities



Ireland's Environment 2016

Key Action 7: Community Engagement

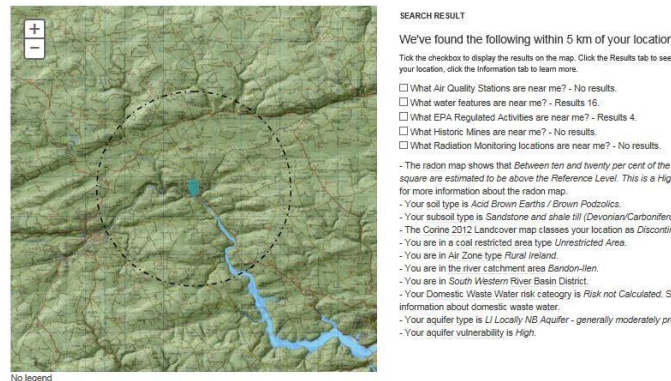
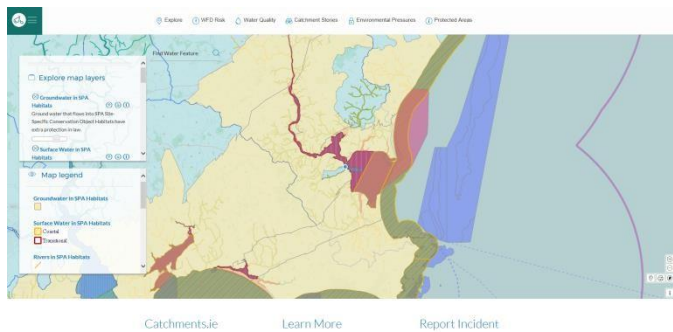
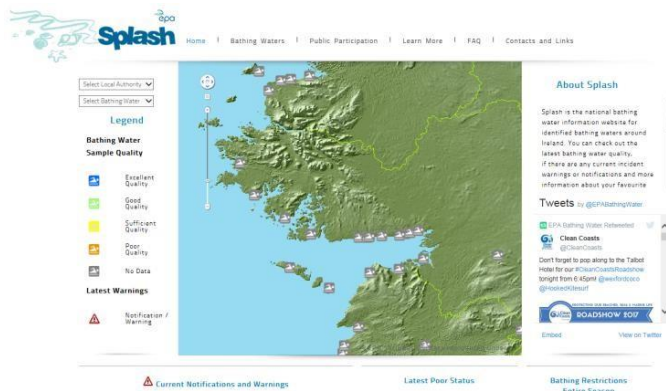


Inform, engage and support communities in the protection and improvement of the environment.



•

∴ We need to continue to develop better provision of online, upto date and accessible information on the environment



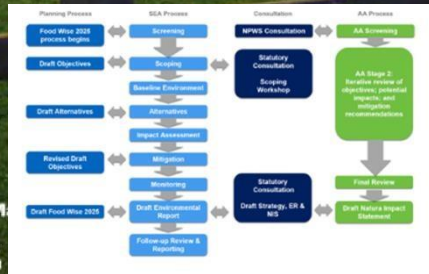
Food Wise 2025: A 10- year vision for the Irish agri –food industry



FOOD WISE
2025
Strategic Environmental Assessment
Environmental Report

Philip Family & Co

Department of Agriculture, Food and the Marine
An Boinn Talmhaíochta, Bia agus Mara



LOCAL ROOTS GLOBAL REACH
Food Wise 2025
A 10-year vision for the Irish agri-food industry

Department of Agriculture, Food and the Marine
An Boinn Talmhaíochta, Bia agus Mara

Implementation Plan

LOCAL ROOTS GLOBAL REACH
Food Wise 2025
10-year vision for the Irish agri-food industry

Food Wise 2025 Implementation

Strategy Implementation

- High Level Implementation Committee –Govt. Depts /State Agencies
Composition Specified & Chaired by Minister
- Food Wise 2025 Environmental Sustainability Committee
Chaired by Assistant Secretary

Offshore Renewable Energy Development Plan

A Framework for the Sustainable Development of Ireland's Offshore Renewable Energy Resource

February 2014

Part Two – Strategic Environmental and Appropriate Assessment of Ireland's Offshore Renewable Energy Potential

Section 1 – Overview of Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA) Processes

Section 2 – Overview of Key Findings from the Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA)

Section 3 – Plan Level Mitigation Measures

Section 4 – Suggested Project Level Mitigation Measures

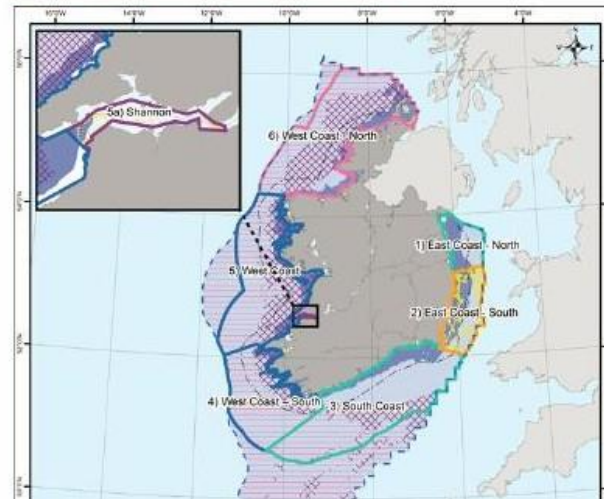
Section 5 – Overview of Responses to the Public Consultation on the OREDP

Glossary



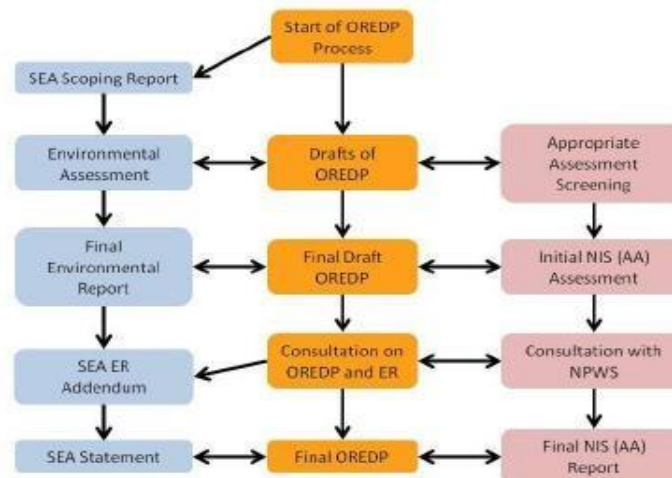
Roinn Cumarsáide, Fuinnimh agus Acmhainní
Department of Communications, Energy and Climate Change

Figure 12. Map of SEA Assessment Areas. (Source: SEAI, AECOM)



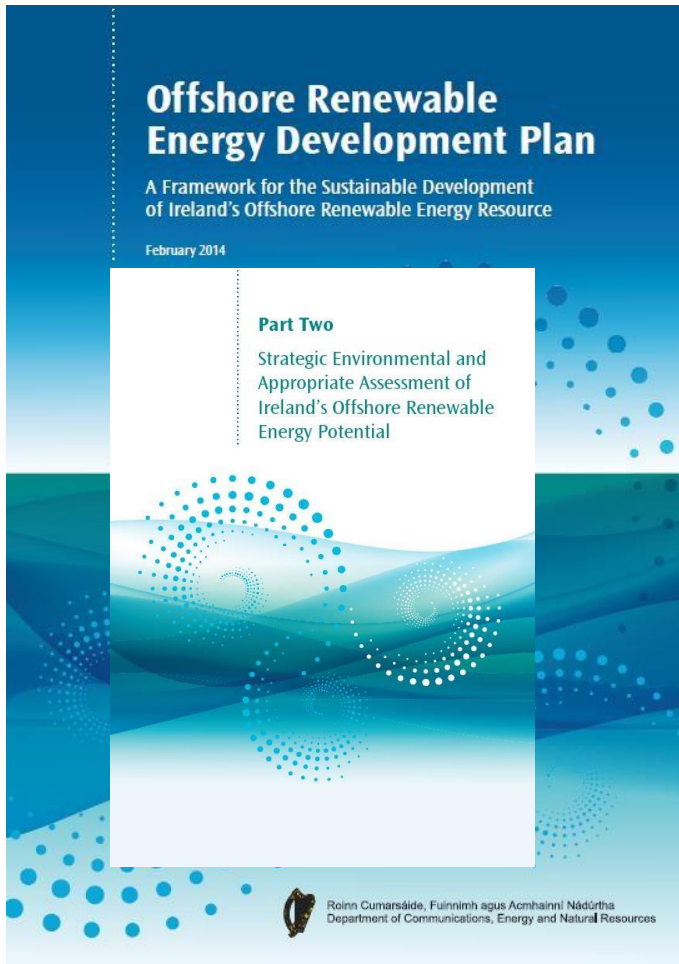
Part Two

Strategic Environmental and Appropriate Assessment of Ireland's Offshore Renewable Energy Potential



OREDPA

Integration and Implementation



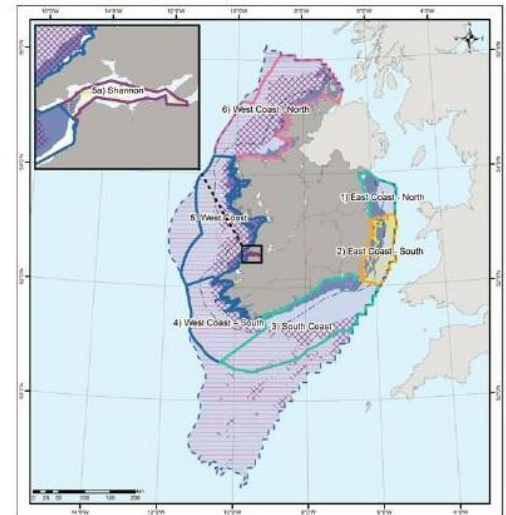
Integration:

- Plan Level Mitigation
- Project Level Mitigation

Implementation Work Groups :

- Environment
- Infrastructure
- Job Creation
 - Work Plan
 - Budget
 - Reporting

Figure 12. Map of SEA Assessment Areas. (Source: SEAI, AECOM)



**STAGE 1
PROPOSITION AND
BRAND DEVELOPMENT**



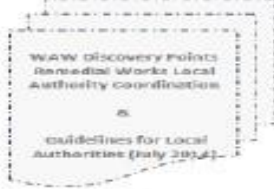
**STAGES 2 & 3
(INITIAL) IDENTIFICATION
OF ROUTE &
WAYFINDING STRATEGY**



SEA and AA not required as:

- Stages 1-3 do not provide a decision making framework and will not give rise to works or physical effects that could impact on the environment; and
- None of the outputs are considered a 'plan' as per the Bird and Natural Habitats Regulations.

**STAGE 4
DELIVERY OF DISCOVERY
POINTS**



SEA and AA to be undertaken on Operational Programme:

- as it is considered a 'plan' under the Birds and Natural Habitats Regulations; and
- in order to consider inter-regional and inter-county environmental effects



Project level EIA, as relevant

Project level AA, as relevant

**STAGES 5 & 6
SELLING WAW EXPERIENCES &
MARKETING AND COMMUNICATIONS**

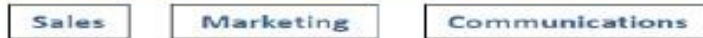
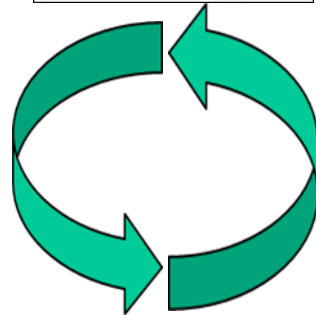
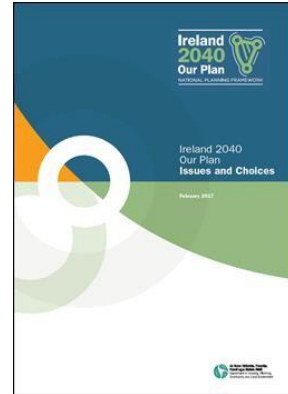


Figure 2: SEA and AA Requirements³

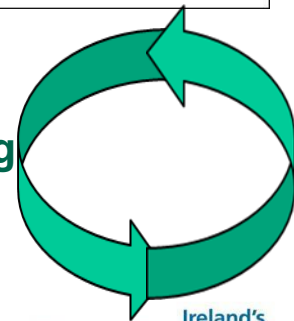
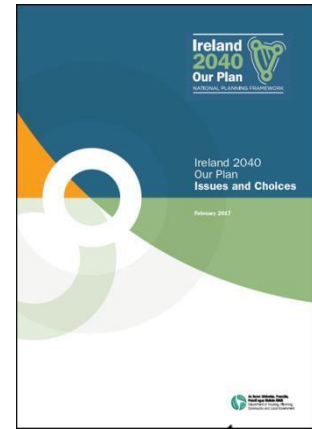
Benefits and Opportunities of SEA at NPF level :

- **Systematic, transparent, collaborative, dynamic, cyclical**
- **Protection of Ireland's Environment an integral part of the process**
- **Linking Environmental Quality with Health and Wellbeing**
- **Contributing to addressing the 7 Key Environmental Actions for Ireland**
- **Guide development to least sensitive areas**
- **Focus on Better Environmental Outcomes**
- **Consideration of Cumulative – In Combination Effects**
- **Ensuring development and Scale of Development appropriate**



Benefits and Opportunities of SEA at NPF level

- **Joined up approach to Planning, Assessments, and Plan making**
- **Consideration and Integration of relevant aspects of Sector Plans**
- **Potential to inform and positively influence a Hierarchy of Plans –RSES's**
- **Promote an Evidence Based Approach to Plan making and Decision Making**
- **Consideration of Reasonable and Realistic Alternative scenarios**
- **Formal approach to cross government implementation**
- **Formal Provisions for Monitoring, Review and Follow up**



At NPF level

- **Consistent Language, Terminology and Acronyms**
- **Joined up thinking, Assessments, Planning and Plan making**
- **Evidence Based Plan and Decision Making**
- **Development and Assessment of Reasonable and Realistic scenarios**
- **Guide development to least sensitive areas**
- **Environmental Sensitivity Mapping/ GIS Based Approach**
- **Focus on Better Environmental Outcomes**
- **Provisions for Monitoring, Review and Follow up**
- **Thank you for your attention**