Department for Environment Food & Rural Affairs

The Future of the Seas

NOC Association, 1st May 2018

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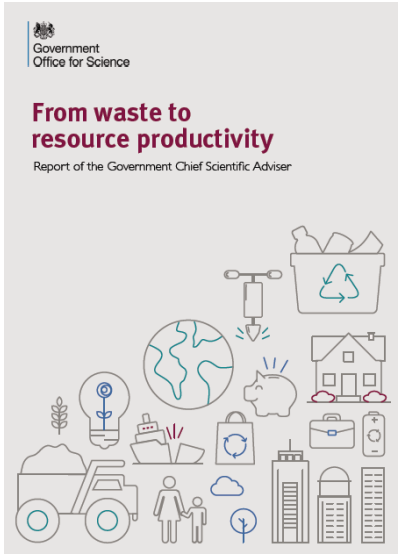
Forestry Commission England | NATURAL ENGLAND | Environment Agency

Strategic Context

- Environmental challenge
- Productivity challenge
- Social challenge
- National strategic challenge

- 25 Year Environment Plan
- Future of Farming Green Paper
- Industrial Strategy
- Clean Growth Strategy
- Resource Efficiency and Waste

Future of the Seas



- Why does the sea matter? Recent positive steps to protect Seas, but they are often “out of sight, out of mind”.
- Report covers the Economy, Environment, Governance, and Science
- Investigates trends and then recommendations

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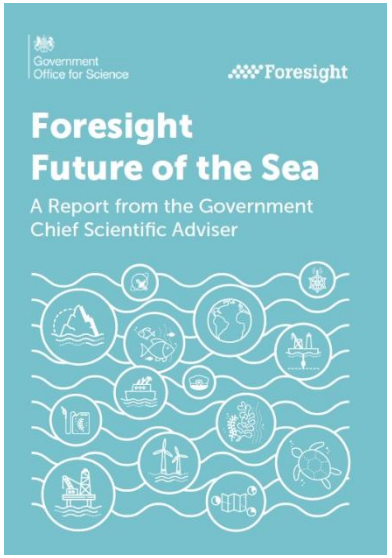

Future of the Seas

Economy

- Growing reliance of the sea for resources
- Doubling of the ‘ocean economy’ by 2030
- Busier seas
- Technological drive – autonomy & robotics
- Climate change – OA, sea level, weather

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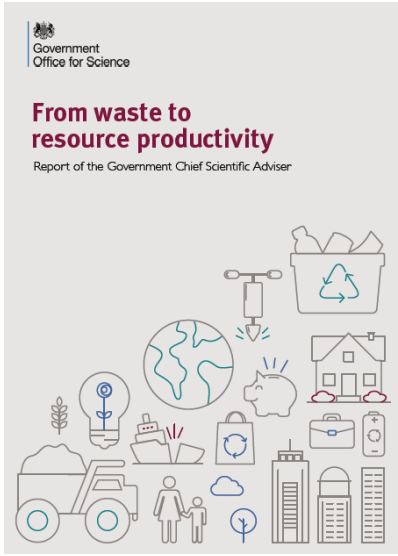

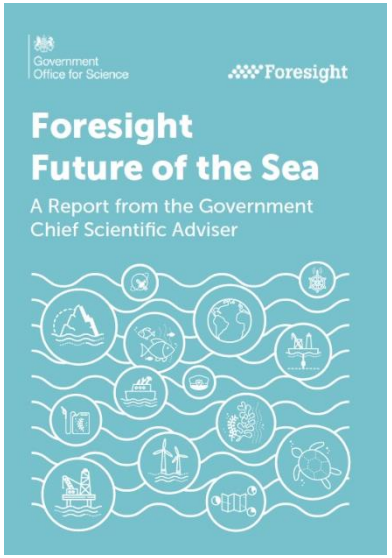

Future of the Seas

Environment

- Biodiversity
- Sea level rise & OA
- Ocean warming
- Plastics in the Ocean
- Chemical pollution

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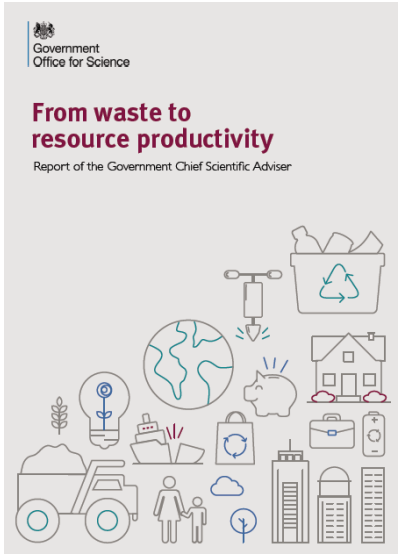

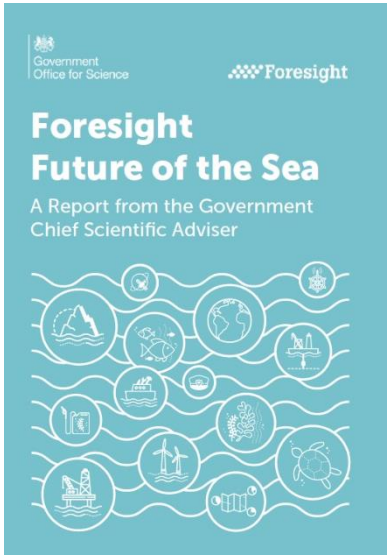

Future of the Seas

<u>Governance</u> (*International engagement)*

- Impacts of climate change
- Growth in the value of marine territory
- Monitoring illegal activity at sea
- Growth in to the deep sea
- Potential for global instability

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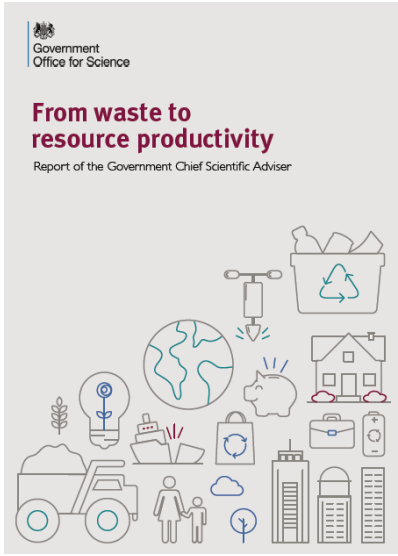

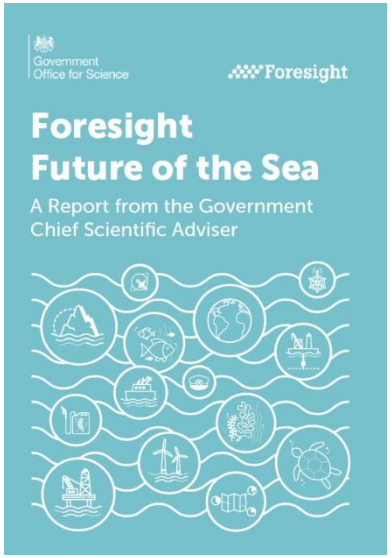

Future of the Seas

Marine science

- Rapid change in the seas
- Big data and modelling
- Increasing human presence (both direct and indirect)
- Demand for technological solutions

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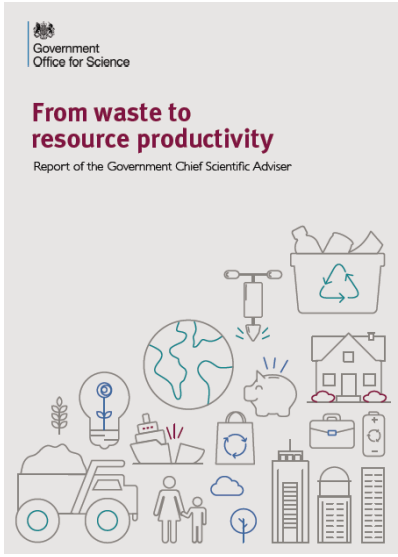

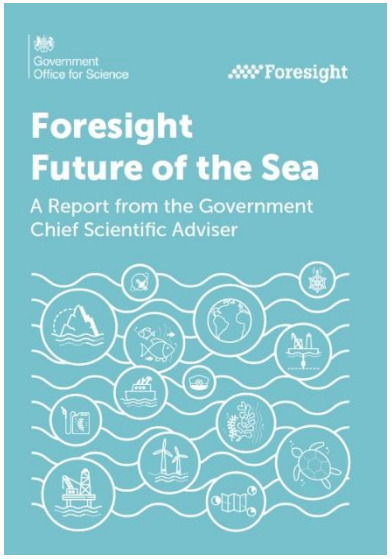

The Four Strategic Projects

Challenges include “The future of…”

Land Use

Air Quality

Livestock

The Seas

COMPASS: A Marine Strategic Project

- Bringing together professionals from a multiplicity of Science areas to transparently achieve strategic join-up of the needs of policymakers, academics and citizens and the work of scientists across the marine UK marine environment.

Collaborative
Open
Marine
Project
Achieving
Strategic
Science