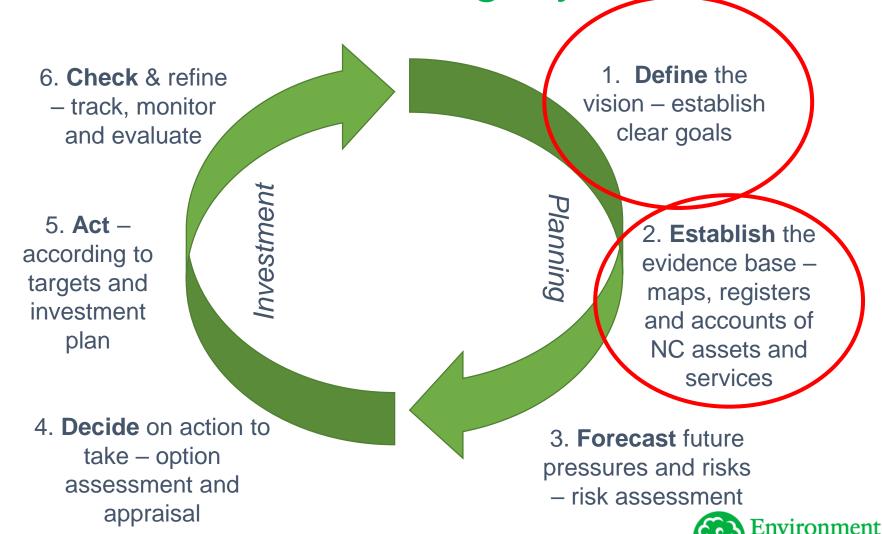
Natural Capital catchment register and accounts — trialling a natural capital approach within the environmental planning cycle

Kathrynne Moore Environment Agency Valuing Nature Annual Conference 2019



Natural Capital Approach within the Environment Planning Cycle



Natural Capital catchment register

- Provides a stock take of the quantity of natural capital assets in a place (catchment scale or greater)
- Corine Land Cover map
- Open source data for sharing with partners

NEA Broad habitat type (Corine 2012)	Quantity (Ha)
Coastal Margins	3000
Enclosed Farmland	120000
Freshwaters, Openwaters, Wetlands and Floodplains	60000
Marine	3000
Mountains, Moorlands and Heaths	54000
Semi-natural Grasslands	3000
Urban	21000
Woodlands	36000
Total	300000



Natural Capital catchment account

	Ecosystem Service	Measure	Avg Annual benefit (£m)	` '	Confidence (RAG)
<u>a</u>	Spiritual				
	Health				
ultural	Amenity				
Cul	Aesthetic / sense of place				
	Education				
	<u>Recreation</u>	Welfare gain from recreation	168	5,000	
ing	Agriculture - Arable	Associated production value	45	1,300	
sion	Agriculture - Livestock	Associated production value	77	2,300	
Provisioning	Water supply	Value of public water supply	8	224	
<u> </u>	<u>Timber</u>	Net value of sustainably managed timber	2	70	
	Climate regulation	Non-traded carbon value	7	580	
	Air quality - PMs	PM damage cost avoided	221	6,763	
ing	Air quality - SO2	SO2 damage cost avoided	0.24	7	
lat	Hazard regulation	Costs avoided of storage reservoirs	95	2,840	
egulating	Disease and pests				
٣	Pollination				
	Soil quality / erosion				
	Noise				
	Total quantifiable value		£623	£19,084	



Monetised values in the account

Ecosystem services	Benefits	Catchment account	
	Timber	Modelled timber harvest	
Provisioning	Water	Annual water abstraction for public water supply	
	Food	Modelled arable and livestock	
Cultural	Recreation Modelled no. of recreational visits to green space		
	Air quality	SO2 particulates absorbed per habitat	
		PM10 Particulates absorbed per habitat	
Regulating	Climate regulation	Storage of carbon per habitat	
	Flood regulation	Flood water storage provided by woodland	



Natural Capital scorecard

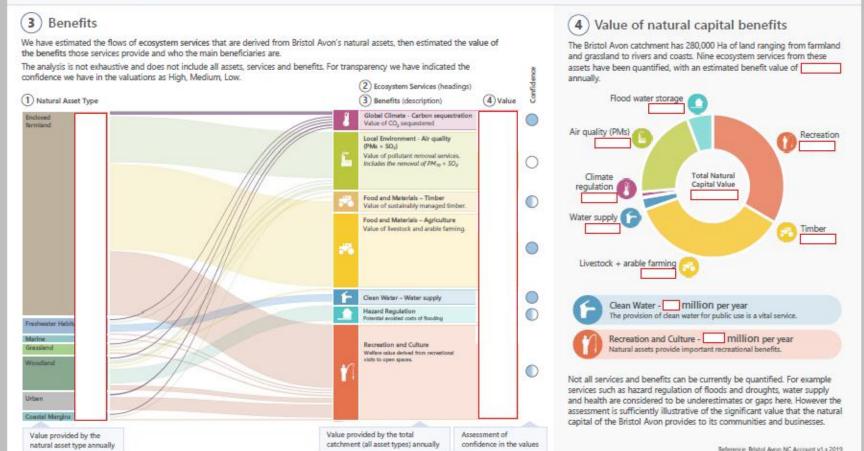
THE NATURAL CAPITAL APPROACH

A natural capital approach is the understanding that nature underpins human wealth, health, wellbeing and culture. Recognising the complex ways in which natural, social and economic systems interact helps us to use better evidence to support better decisions that protect and enhance natural capital so that it can continue to deliver the services and benefits we need.

Natural capital accounting can help support this approach by setting out a register of natural assets for a place, quantifying the flows of services from the assets, and estimating an economic value for the benefits derived. This value represents the longer term benefits for people from protecting and improving the environment.

For the Bristol Avon, we have produced a natural capital account for the catchment area, following the accounting framework set out by the Government's Natural Capital Committee.



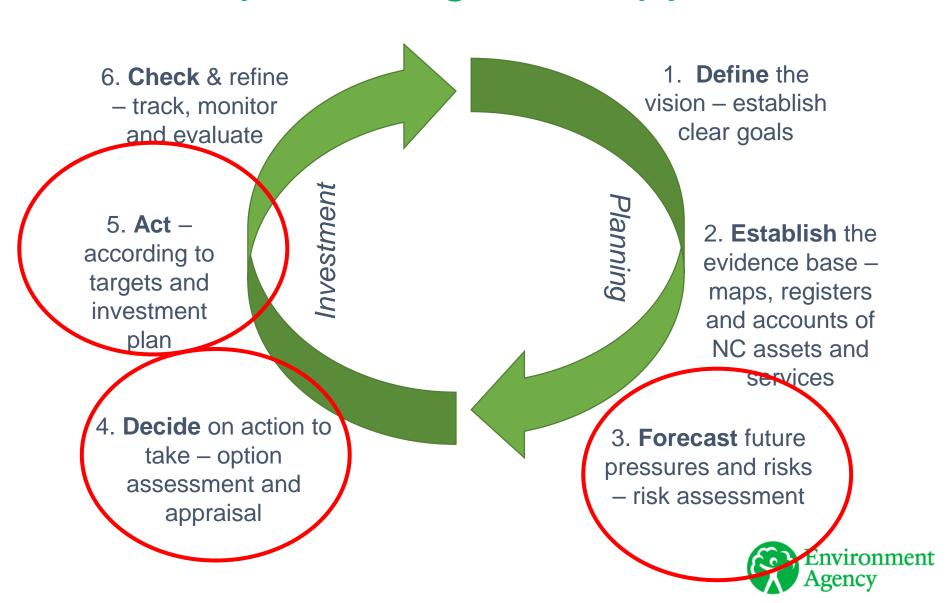


Next steps – publish, enhance, roll out

- Feedback
- Development:
 - Evidence base
 - Functionality
 - Capability
- Empower people to bring natural capital into their planning processes



Next steps – integrated appraisal



Questions?

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