Project Working Groups and looking ahead

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NMBAQC SINCC

THE BIG PICTURE

Benthic Imagery Analysis Group

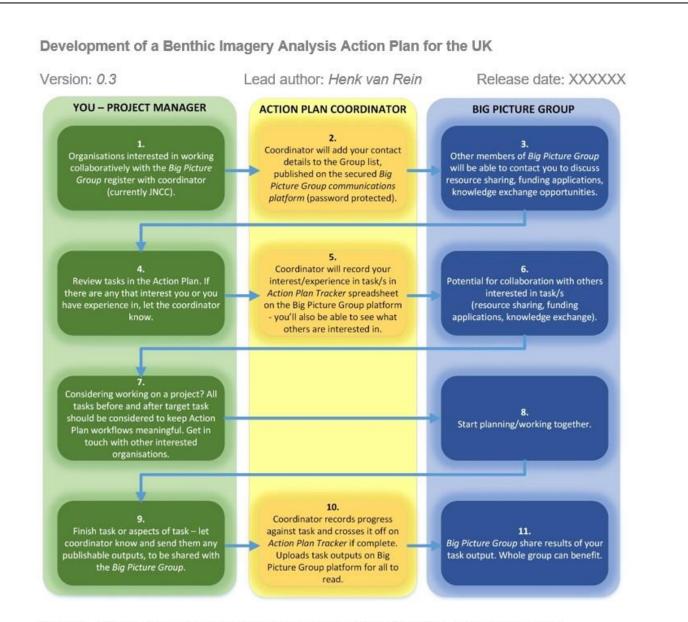


Figure 1. Proposed stages of carrying out a task from the Action Plan, including roles and requirements for each role at each stage.

Implementation of Benthic Imagery Action Plan

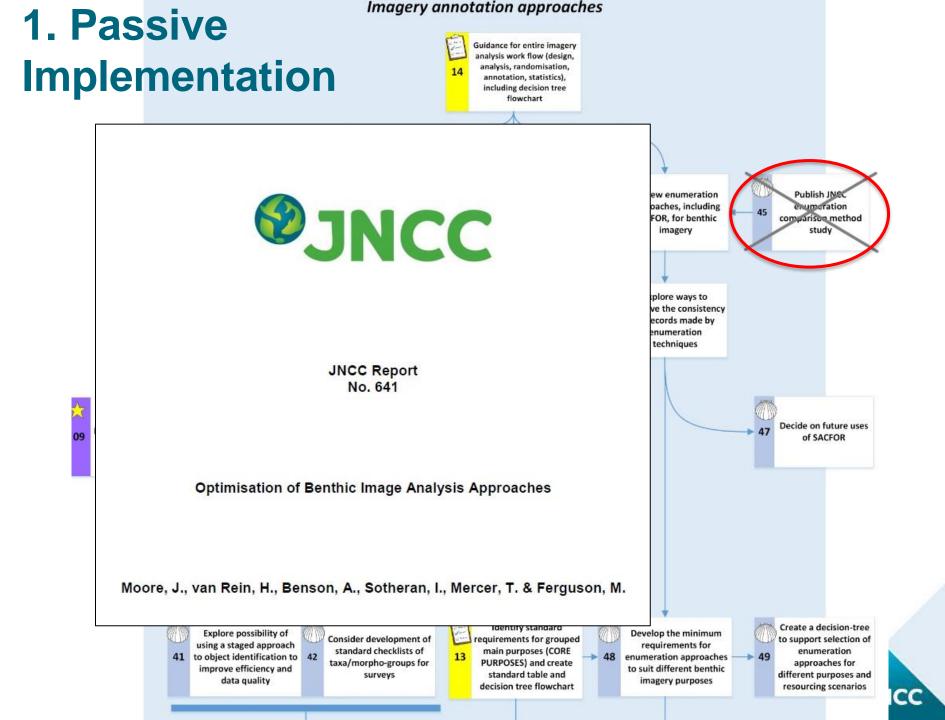
- 1. Carried out by organisations across the Big Picture Group
- 2. Identify Action Plan Coordinator role and Benthic Imagery Action Plan Task Tracker
- 3. Big Picture Group (BPG) needs to agree mutually beneficial ways of working

BPG Terms of	'Spirit of cooperation'	Collaboration		
Reference	essential among participating organisations	platform		
	(shared resources, solutions and opportunities)			

3. Shift away from central facilitation to autonomous group work and coordination by Action Plan Coordination Committee

Two strategies for implementation:

- 1. Align current work with Action Plan tasks and share outputs (Passive)
- 2. Organise ourselves into working groups with shared goals, to secure funding to tackle Action Plan tasks and then share outputs (**Active**)



2. Active Implementation

- 1. Active engagement within Big Picture Group required:
 - What everyone's up to (stock take)
 - What useful information we already have (current resources)
 - Who has time to work on Action Plan tasks (future resources)

Benthic Imagery Action Plan Tracker Spreadsheet (Sept 2020)



2. Assemble cross-organisation Project Working Groups (PWGs) to tackle Action Plan tasks

BPG November workshop (end Nov 2020)



BIG PICTURE II workshop (Mar 2021)



Benthic Imagery Action Plan Tracker

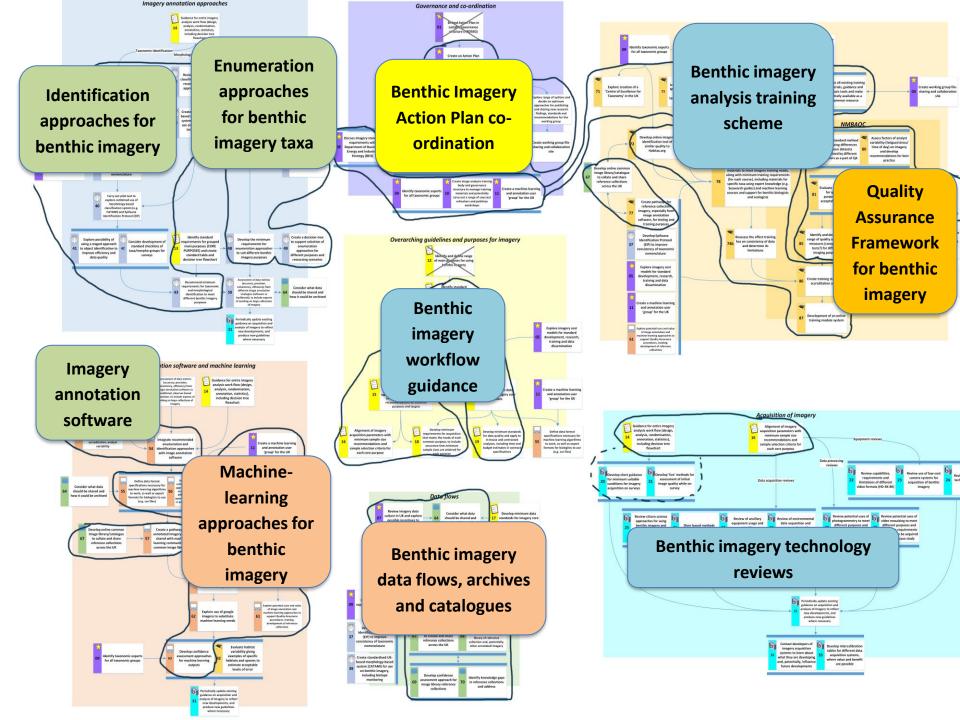
ACTION PLAN TASK INFORMATION						TASK OUTPUTS	TASK DEVELOPMENT				ADDITIONAL TASK INFORMATION		
Theme	Tas k		Proposed way of	Suggested deliverat	Priori Task sta ty	tu Output link (weblink to download files)	Fask leads current/future interest)	Task collaborators/team (current/future interest)	Task steering group (ourrent/future interest)	Task funding source	Project name	Current work in task area	Notes for task
Bovernance & co- ordination	1	Embed Action Plan in suitable governance structure (HBDSEG)	PDG working	HBDSEG Benthic Imagery Action Plan	H Complete	http://www.nmbagcs.org/scheme: components/epibiota/benthic-imagery: action-plan/	INCC	Cefas, NOC, Envision Ltd, NRW, MSS	The Big Picture Group	Defra	Defra Marine Methodologies		
Governance & co- ordination	2		Group coordination	HBDSEG Benthic Imagery Action Plan Coordinator	H In progress		NCC, NMBAQC						
Bovernance & co- ordination	3	Explore range of options and decide on optimum approaches for publishing and sharing new research findings, standards and recommendations for the working	Coordination	Recommended information sharing routes for imagery work	L In progress		PDG; Big Picture group						
Bovernance & co- ordination	4	Create working group file-sharing and collaboration site	Lead action	File-sharing and collaboration site for Big Picture Group	M On-going		NCC		The Big Picture Group	Defra	Defra Marine Methodologies	JNCC have been trialling a collaboration site on Vicrosoft Teams since July 2019.	Other options under consideration are Huddle and Slack.
Governance & co- ordination	5	Explore imagery cost models for standard development, research, training and data dissemination	Coordination/ Review	Options for imagery cost models for standards development	H Under considerati	on		JNCC					
Governance & co- ordination	6		Lead action	Improved imagery analysis contract specifications	M Under considerati	n		JNCC	SNH			SNH - have stills analysis guideline examples	Task supported by CMA/SNCBs
Bovernance & co- ordination	7	Review imagery data culture in UK and explore possible incentives to share imagery data		Range of options for incentives for sharing of imagery data across UK	L Hasn't star	ed		JNCC			3		Task supported by CMA/SNCBs
Governance & co- ordination	8	Discuss imagery standard requirements with Department of Business, Energy and Industrial	Coordination	BEIS collaboration for standard setting	L Hasn't star	ed							
Governance & co- ordination	9	Identify taxonomic experts for all taxonomic groups	Group action and coordination	List of benthic taxonomic experts	M In progress		NCC						The Big Picture Group could collectively create this list
Bovernance & co- ordination	10	Create image analysis training body and governance structure to manage training materials and potentially carry out a range of courses/refreshers and publicise	Coordination	Imagery training body	L Hasn't star	ed							Shouldn't this be the NIMBAQC?
Bovernance & co- ordination	11		Coordination	Machine learning and imagery annotation user group	M Hasn't star	ed		JNCC					Potentially split this into separate ML and annotation
Dverarching guidelines and purposes for imagery		Identify and define range of main purposes for using benthic imagery	Project	Defined range of standard purposes for using benthic imagery	H In progress		NCC	The Big Picture Group via questionnaires and interviews	The Big Picture Group	Defra	Defra Marine Methodologies; Development of a		
Dverarching guidelines and purposes for imagery	13	Identify standard requirements for grouped main purposes and create standard table and decision tree flowchart	Project	Core purposes for using benthic imagery and minimum requirements for each purpose	H In progress		INCC	The Big Picture Group via questionnaires and interviews	The Big Picture Group	Defra	Defra Marine Methodologies; Development of a Epibiota QA system		
Dverarohing guidelines and purposes for imagery	, 14	Guidance for entire imagery analysis work flow (design, analysis, randomisation, annotation, statistics), including	Action	Annotation order of imagery randomised in procedures	H Hasn't star	ed		JNCC					Could be supported by NMBAQC and MEDIN regarding data flows and standards
Dverarching guidelines and purposes for imagery	⁹ 15	Develop guidance on determining appropriate sampling units from imagerg data sets, including aggregation criteria (e.g. randomness) to meet minimum sample size recommendations for	Project	Sampling unit guidance	M Hasn't star	ed		JNCC					Should link to guidelines in Task 18
Dverarching guidelines and burposes for imagery	, 16	Alignment of imagery acquisition parameters with minimum sample size recommendations and sample selection criteria for each	6 100	Acquisition practices aligned with sample size and selection recommendations	H Hasn't star	ed		JNCC					
Dverarching guidelines and purposes for imagery		Develop minimum data standards for imagery core purposes	(5. 1995	Imagery data output standards for standard purposes	H In progress		NCC			Defra	Development of a Epibiota QA system for NMBAQC		MEDIN proformas and BIGLE data outputs (JNCC) useful
Dverarching		Develop minimum requirements	Multiple projects	Minimum acquisition	M Hasn't star	ed			JNCC				Should build on existing NMBAQC guidelines,

Action Plan Task Ta Information Task Outputs

Task Development

Additional Information





Interest in Action Plan tasks

Proposed Project Working Group	Identification approaches for benthic imagery	Benthic imagery data archives and catalogues	Imagery annotation software	Machine- learning approaches for benthic imagery	Benthic imagery workflow guidance	Benthic imagery data flows	Benthic imagery analysis training scheme	Enumeration approaches for benthic imagery taxa
Action Plan Tasks	6	9	7	6	10	4	4	8
Organisation A	100.0%	55.6%	14.3%	33.3%	70.0%	75.0%	75.0%	0.0%
Organisation B	83.3%	44.4%	14.3%	83.3%	90.0%	75.0%	25.0%	25.0%
Organisation C	0.0%	22.2%	14.3%	0.0%	20.0%	25.0%	0.0%	0.0%
Organisation D	0.0%	33.3%	14.3%	33.3%	0.0%	50.0%	0.0%	12.5%
Organisation E	83.3%	55.6%	57.1%	50.0%	70.0%	0.0%	25.0%	25.0%
Organisation F	33.3%	100.0%	85.7%	0.0%	0.0%	50.0%	0.0%	0.0%
Organisation G	33.3%	55.6%	0.0%	0.0%	30.0%	0.0%	25.0%	12.5%
Organisation H	100.0%	11.1%	14.3%	0.0%	40.0%	25.0%	75.0%	25.0%
Organisation I	50.0%	11.1%	0.0%	33.3%	50.0%	0.0%	75.0%	75.0%
Organisation J	50.0%	11.1%	71.4%	66.7%	70.0%	100.0%	25.0%	50.0%
Organisation K	66.7%	66.7%	42.9%	66.7%	20.0%	25.0%	25.0%	25.0%
Organisation L	100.0%	55.6%	71.4%	0.0%	100.0%	25.0%	25.0%	75.0%
Organisation M	66.7%	66.7%	14.3%	16.7%	30.0%	0.0%	25.0%	12.5%
Organisation N	33.3%	33.3%	42.9%	16.7%	50.0%	25.0%	0.0%	0.0%
Organisation O	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	25.0%	0.0%
Organisation P	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%



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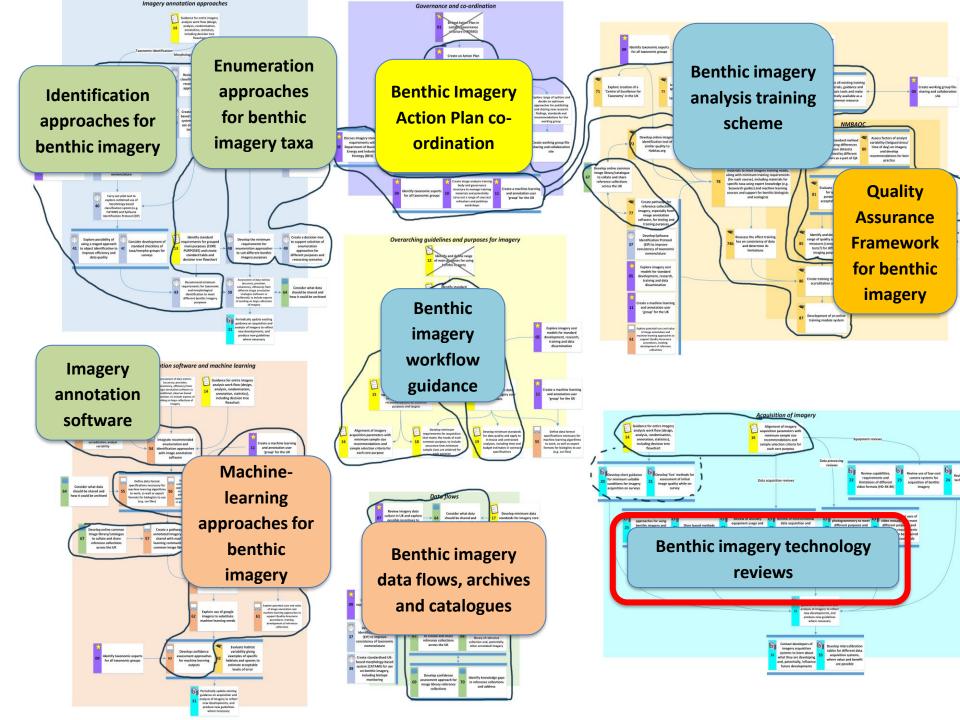
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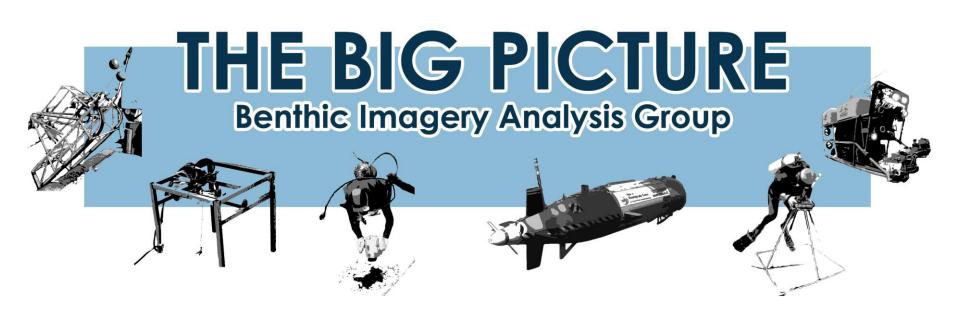
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WJNC



Questions?





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