



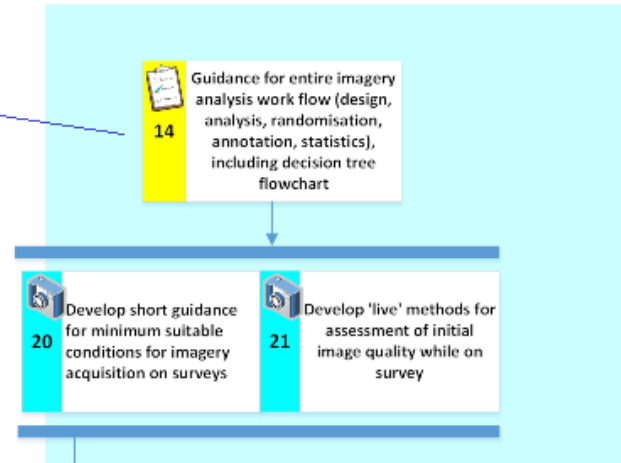
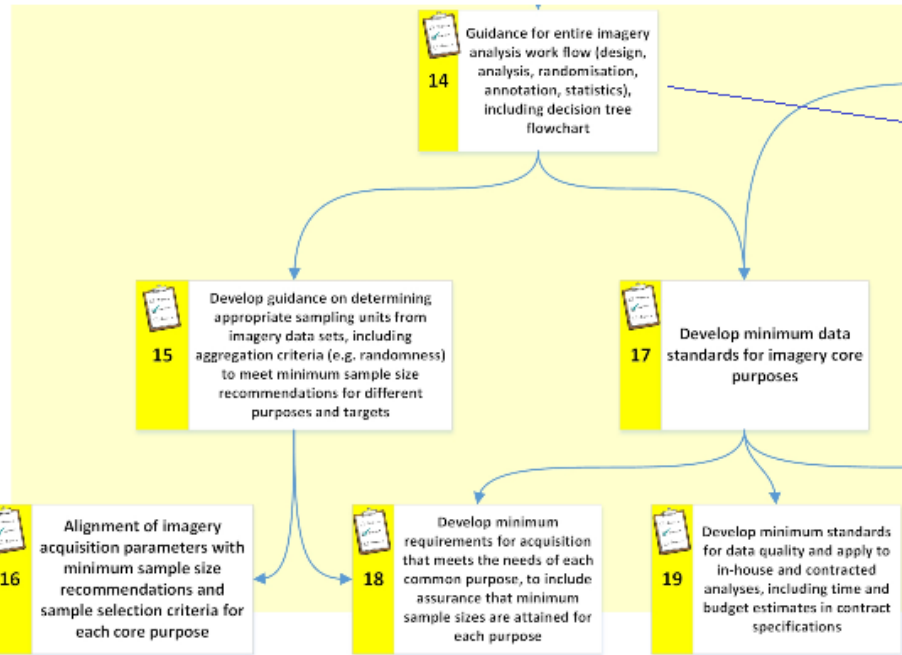
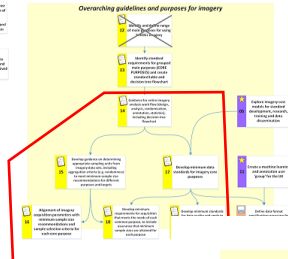
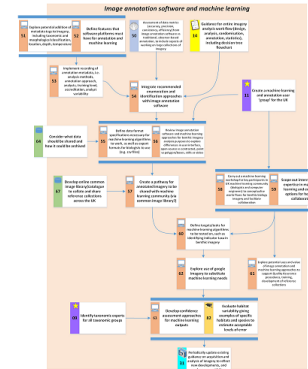
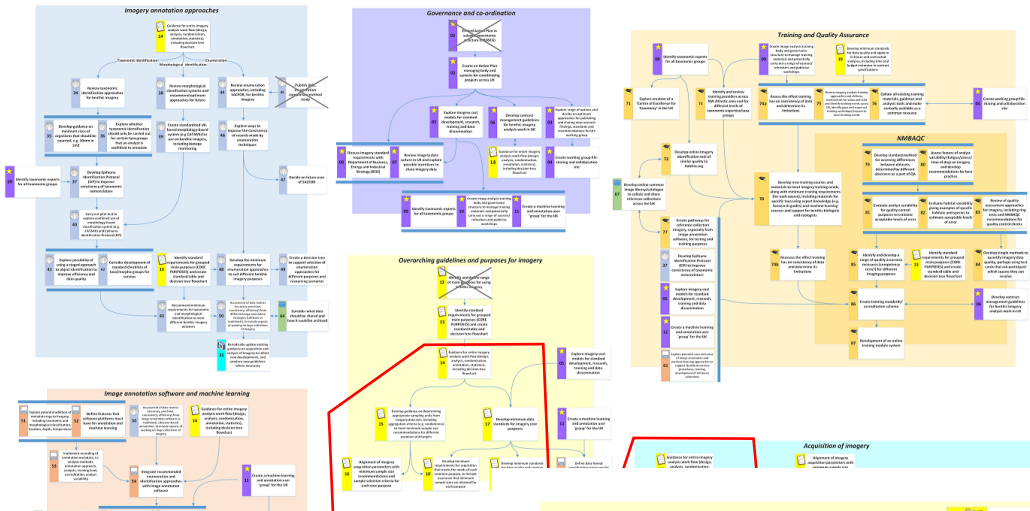
# Project Working Group: Benthic Imagery Workflow Guidance

Leads – Ross Bullimore (Cefas), Mike Fraser (Natural England, Environment Agency) & Nicola Foster (University of Plymouth)

Collaboration & Steering group participants – Expressions of interest:

UoP – Kerry Howell, Emma Sheehan, Jamie Davies, SEPA, Envision, NOC – Brian Bett & Jen Durden, PMSL, Eastern IFCA, Seastar Survey, Guardline, JNCC

# Benthic Imagery Workflow Guidance



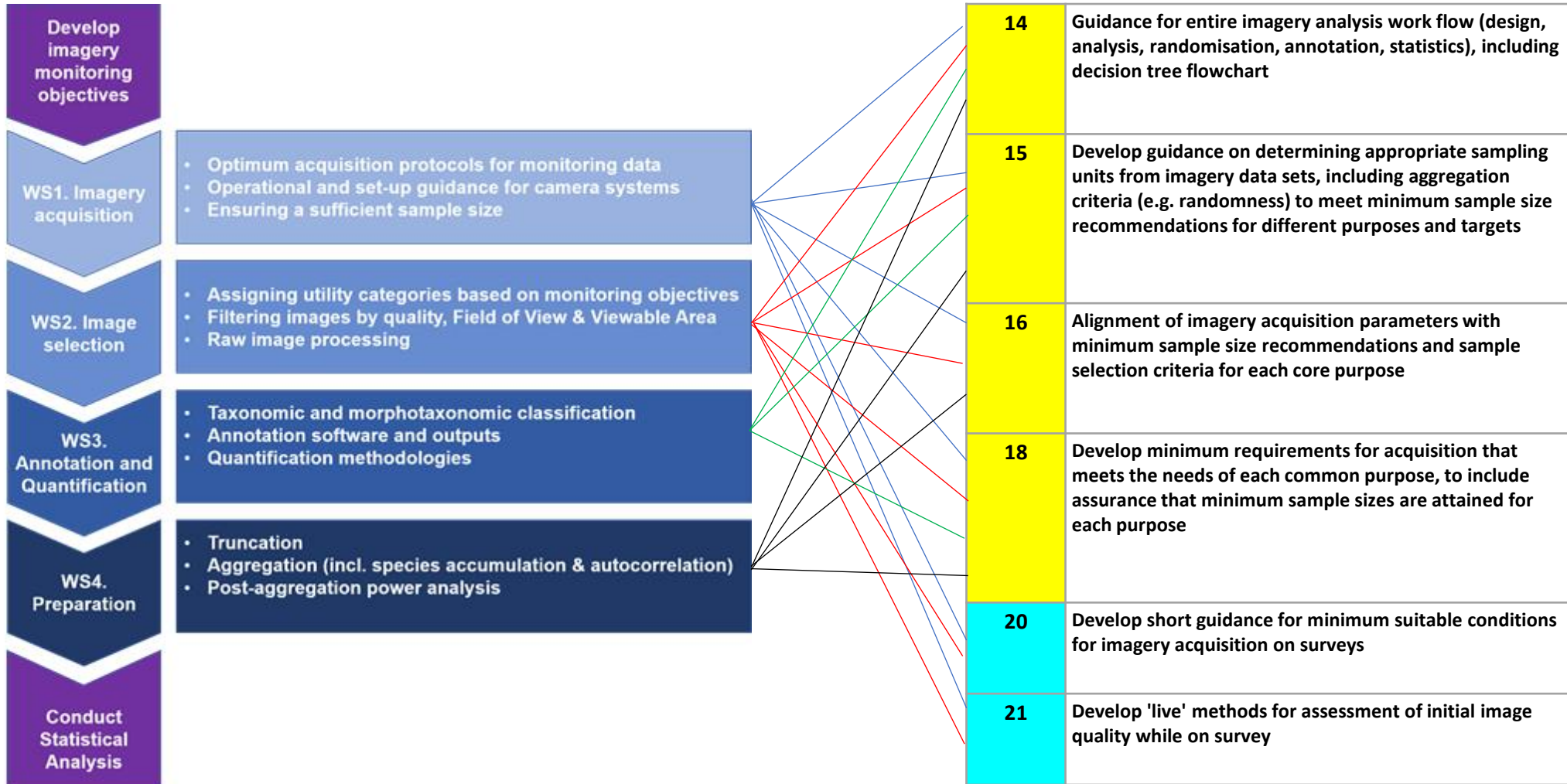
## Benthic Imagery Workflow Guidance



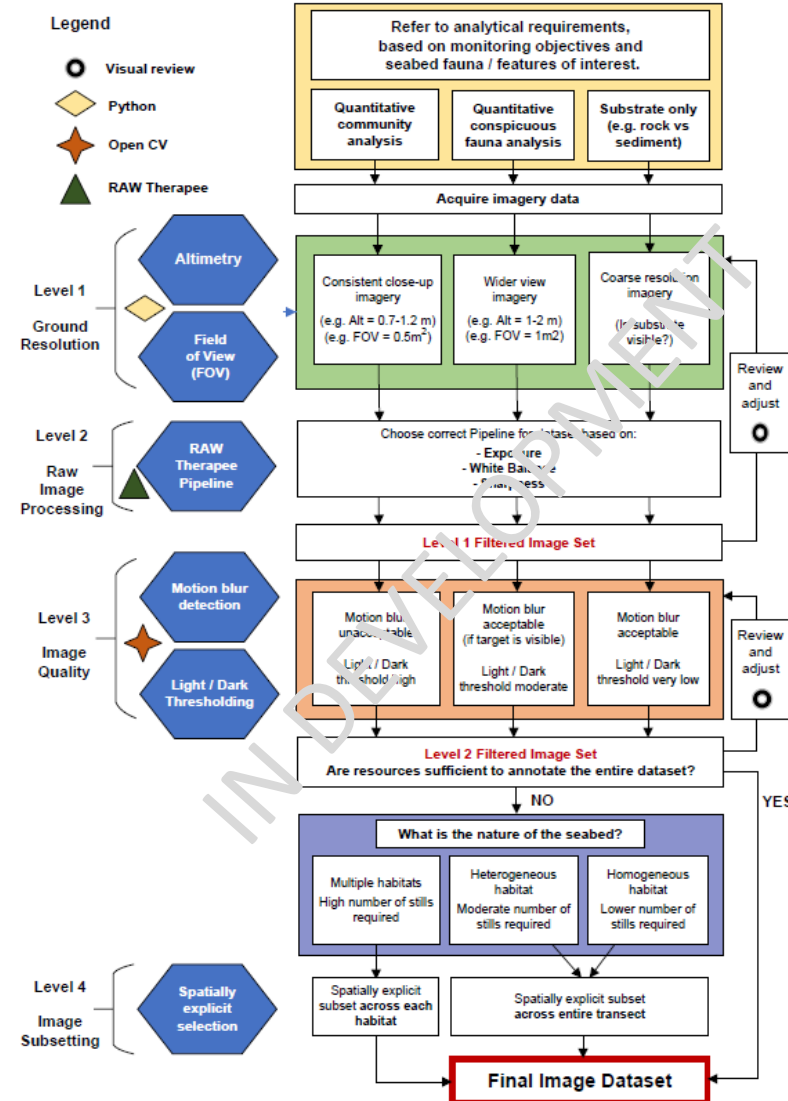
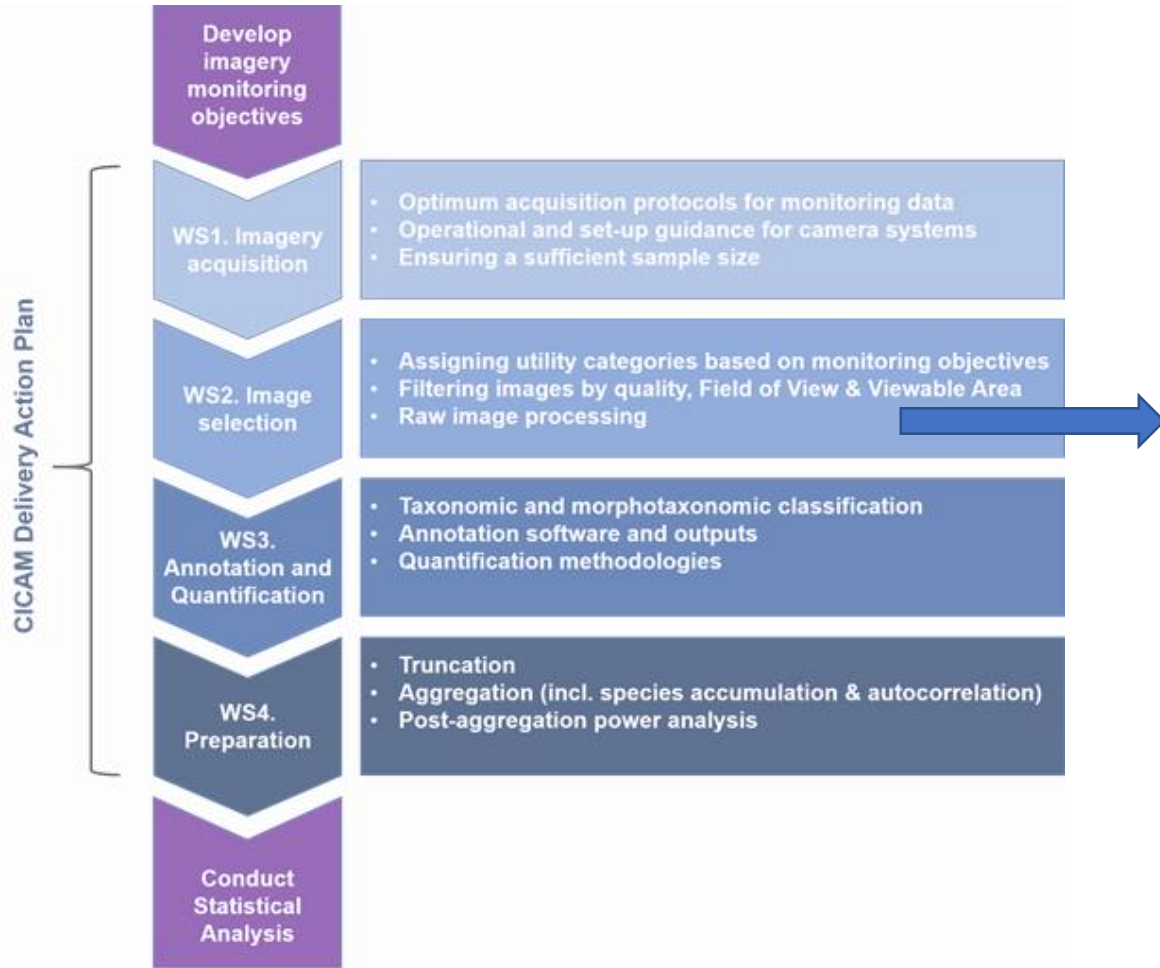
Overarching guidelines and purposes for imagery	<b>Benthic imagery workflow guidance</b>	<b>14</b>	<b>Guidance for entire imagery analysis work flow (design, analysis, randomisation, annotation, statistics), including decision tree flowchart</b>	Action	Annotation order of imagery randomised in procedures	<b>H</b>
Overarching guidelines and purposes for imagery	<b>Benthic imagery workflow guidance</b>	<b>15</b>	<b>Develop guidance on determining appropriate sampling units from imagery data sets, including aggregation criteria (e.g. randomness) to meet minimum sample size recommendations for different purposes and targets</b>	Project	Sampling unit guidance	<b>M</b>
Overarching guidelines and purposes for imagery	<b>Benthic imagery workflow guidance</b>	<b>16</b>	<b>Alignment of imagery acquisition parameters with minimum sample size recommendations and sample selection criteria for each core purpose</b>	Multiple projects	Acquisition practices aligned with sample size and selection recommendations	<b>H</b>
Overarching guidelines and purposes for imagery	<b>Benthic imagery workflow guidance</b>	<b>18</b>	<b>Develop minimum requirements for acquisition that meets the needs of each common purpose, to include assurance that minimum sample sizes are attained for each purpose</b>	Multiple projects	Minimum acquisition standards for standard purposes	<b>M</b>
Acquisition of imagery	<b>Benthic imagery workflow guidance</b>	<b>20</b>	<b>Develop short guidance for minimum suitable conditions for imagery acquisition on surveys</b>	Project	Minimum suitable conditions for imagery acquisition on survey	<b>M</b>
Acquisition of imagery	<b>Benthic imagery workflow guidance</b>	<b>21</b>	<b>Develop 'live' methods for assessment of initial image quality while on survey</b>	Project	Enhanced on-survey QA and QC of imagery	<b>M</b>



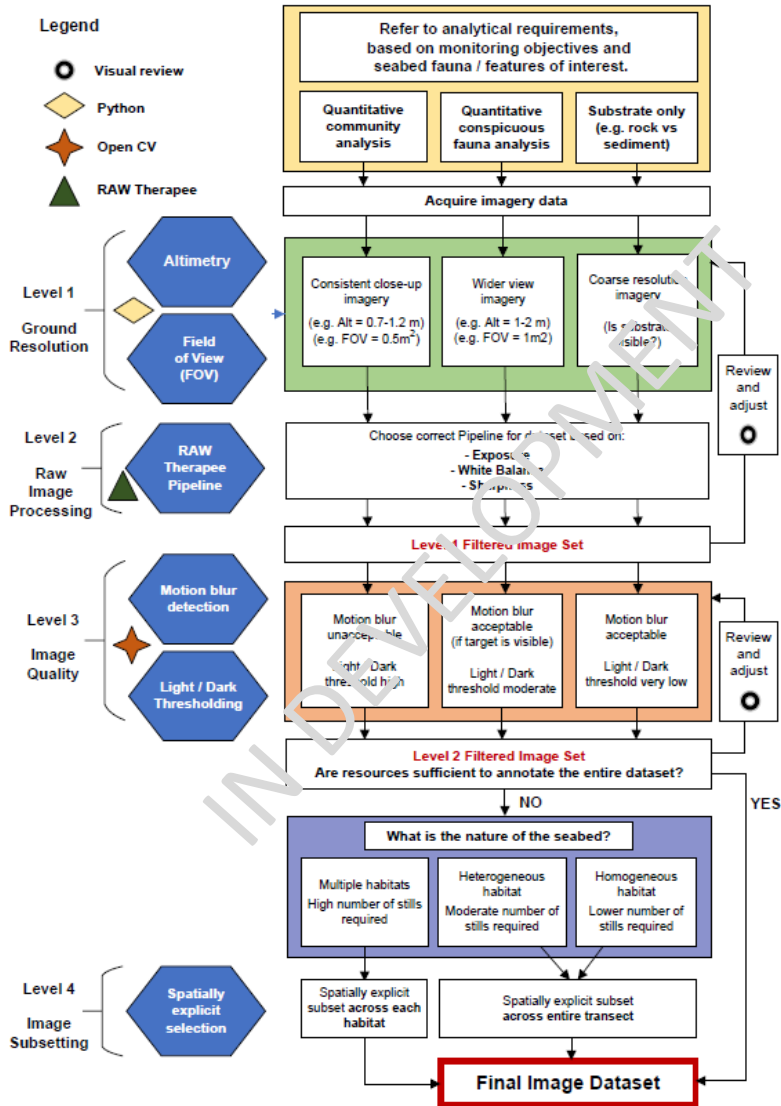
CICAM Delivery Action Plan



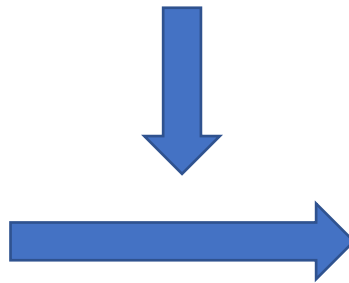
# Benthic Imagery Workflow Guidance



# Benthic Imagery Workflow Guidance



PWG(s)!



14	Guidance for entire imagery analysis work flow (design, analysis, randomisation, annotation, statistics), including decision tree flowchart
15	Develop guidance on determining appropriate sampling units from imagery data sets, including aggregation criteria (e.g. randomness) to meet minimum sample size recommendations for different purposes and targets
16	Alignment of imagery acquisition parameters with minimum sample size recommendations and sample selection criteria for each core purpose
18	Develop minimum requirements for acquisition that meets the needs of each common purpose, to include assurance that minimum sample sizes are attained for each purpose
20	Develop short guidance for minimum suitable conditions for imagery acquisition on surveys
21	Develop 'live' methods for assessment of initial image quality while on survey