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|-----------------------------------|---|---|--|---------------------------|--------|------|-------------|------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|------|------|------|------|
| MS16 | HIPP data available on AusSeabed portal | HIPP data ingested through GA local hub and made available through portal | 3. Increased number of recognised processes relying on AusSeabed products and services 5. Increased number of datasets accessible through the AusSeabed data hub | GA/AHO | Jun-21 | 0.75 | | | | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 0.75 | | | | | |
| Infrastructure development | | | | | | | 5.98 | \$135,000 | 5.3 | 6.3 | 5.5 | 5.8 | 4.5 | 4.5 | 6.8 | 7.5 | 7.0 | 6.5 | 6.0 | 6.3 | 6.0 | | | | | |
| MS17 | AusSeabed Coordination Tool used on a regular-basis by stakeholders and outputs displayed live on portal | 1) Specific training to key stakeholders to encourage and support utilisation of the tool | 3. Increased number of recognised processes relying on AusSeabed products and services 7. AusSeabed tools are used by key stakeholders and end-users | GA/FrontierSI | Aug-20 | 0.21 | \$5,000 | | 0.3 | | | | | | | | | | | | 0.02 | | | | | |
| | | 2) User feedback engagement accompanied with outcome reports providing a prioritised list of changes required to better service the community | | | Feb-21 | | | | | | | | 0.3 | 0.5 | | | | | | | | | | 0.06 | | |
| | | 3) New release of Coordination tool | | | Apr-21 | | | | | | | | | | | | | | 0.5 | 0.5 | 0.5 | | | | 0.13 | |
| MS18 | Package services for multibeam data submission used by key stakeholders | 1) Scope file packaging tool business and technical requirements through stakeholder workshop | 2. Workshop outcome reports and associated implementation plans are delivered 3. Increased number of recognised processes relying on AusSeabed products and services 4. Increased number of data submitted to AusSeabed data hub that are consistent with | GA/FrontierSI/AHO | Dec-20 | 0.38 | | | | | | | 0.5 | | | | | | | | | 0.04 | | | | |
| | | 2) Workshop report providing requirements and implementation plan | | | Dec-20 | | | | | | | 0.5 | 0.5 | | | | | | | | | | | 0.08 | | |
| | | 3) File packaging tool on AusSeabed website and through ASB GitHub organisation | | | Dec-20 | | | | | | | | | 1.0 | 1.0 | 1.0 | | | | | | | | | 0.25 | |
| MS19 | QA services for multibeam data is used by key stakeholders | 1) QA tool for multibeam data (raw and gridded for most common and open data format agreed by AusSeabed) available as desktop application on the AusSeabed website, the AusSeabed GitHub repository and synced with CCOM/NOAA public repositories | 3. Increased number of recognised processes relying on AusSeabed products and services 6. Decreased turnaround time in making data discoverable and/or accessible on the AusSeabed data portal 7. AusSeabed tools are used by key stakeholders | GA/FrontierSI/AHO/CSIRO | Jul-20 | 0.33 | \$10,000 | 1.0 | 1.0 | 1.0 | | | | | | | | | | | | 0.25 | | | | |
| | | 2) Key Stakeholders training | | | Aug-20 | | | | 0.3 | 0.3 | | | | 0.3 | 0.3 | | | | | | | | | | 0.08 | |
| MS20 | Automated processing pipeline for multibeam data used to deliver standardised processed datasets | 1) Scoping document identifying requirements (software, platform) and implementation plan for delivering MBES datasets according to AusSeabed standards | 2. Workshop outcome reports and associated implementation plans are delivered 6. Decreased turnaround time in making data discoverable and/or accessible on the AusSeabed data portal | GA/CSIRO/AHO | Jul-20 | 0.44 | | 0.5 | 0.5 | | | | | | | | | | | | | 0.08 | | | | |
| | | 2) First iteration of automation processing pipeline delivered according to implementation above and code published through ASB GitHub | | | Oct-20 | | | 0.8 | 1.3 | 1.3 | 1.0 | | | | | | | | | | | | | | 0.35 | |
| MS21 | Distributed Data Warehouse connecting GA, CSIRO and IMSA as 'local hubs' allowing data access to data 24/7 through AusSeabed portal | 1) 2-3 'local hubs' connected and delivering consistent data through portal along with the technical capability to connect with other hubs when and if required. This includes reporting and monitoring capabilities | 3. Increased number of recognised processes relying on AusSeabed products and services 4. Increased number of datasets from various sources submitted to AusSeabed data hub that are consistent with AusSeabed guidelines | GA/CSIRO/IMSA/AODN | Dec-20 | 1.08 | \$100,000 | 2.0 | 2.0 | 2.0 | 1.5 | 1.5 | 1.0 | | | | | | | | | 0.83 | | | | |
| | | 2) AusSeabed data available through the AODN portal | | | Mar-21 | | | | | | | | | | | | 1.0 | 1.0 | 1.0 | | | | | | 0.25 | |
| MS22 | AusSeabed portal delivering services according to key stakeholders, in particular industry, and estate manager and policy maker | Delivering functionalities identified from user engagement in milestones 8 and 9 | 7. AusSeabed tools are used by key stakeholders and end-users | GA | Mar-21 | 0.38 | | | | | | | | | | 1.0 | 1.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.38 | | | | |
| MS23 | Capability for bathymetric compilation-on-the-fly made available to stakeholders | 1) Host a technical workshop to scope capabilities of the Global Multi-resolution Topography (GMRT) platform and process to meet the needs of AusSeabed for compilation-on-the-fly | 2. Workshop outcome reports and associated implementation plans are delivered | GA/LDEO/Deakin/CSIRO | Oct-20 | 0.75 | \$15,000 | | | | 1.0 | | | | | | | | | | | 0.08 | | | | |
| | | 2) Scoping document reflecting workshop outcomes and if necessary, business and technical requirements for adoption with implementation plan | | | Dec-20 | | | | | | 0.8 | 0.3 | | | | | | | | | | | 0.08 | | | |
| | | 3) Possibly host visiting scientists and developers from Lamont-Doherty Earth Observation (LDEO) for an extended period (3-4 weeks) to commence development of the capability | | | Feb-21 | | | | | | | | | 2.0 | 2.0 | | | | | | | | | | | 0.33 |
| | | 4) Prototype functionality available as per findings and recommendations | | | Apr-21 | | | | | | | | | | | | | 1.0 | 1.0 | 1.0 | | | | | | 0.25 |
| MS24 | Crowd-sourced bathymetry (CSB) incorporated into AusSeabed Data Hub (caring in 21/22) | 1) Workshop to define requirements and priorities with outcome report and implementation plan for all hub components (QA, warehouse, processing, portal) | 2. Workshop outcome reports and associated implementation plans are delivered 3. Increased number of recognised processes relying on AusSeabed products and services 4. Increased number of datasets from various sources submitted to AusSeabed data hub that are consistent with AusSeabed guidelines 5. Increased number of datasets accessible through the AusSeabed data hub | GA/FrontierSI/AHO/JCU/AHO | Mar-21 | 0.73 | \$5,000 | | | | | | | | | | 1.0 | 0.5 | | | | 0.13 | | | | |
| | | 2) QA and package services associated with CSB added to existing desktop MBES tools and delivered via ASB website and GitHub organisation, and synced with CCOM/NOAA public repositories | | | Jun-21 | | | | | | | | | | | | | | | | 0.5 | 1.0 | 1.0 | | 0.21 | |
| | | 3) Key stakeholder training | | | Jun-21 | | | | | | | | | | | | | | | | | | | 0.3 | 0.02 | |
| | | 4) Data warehouse accepting and publishing JCU node data on portal | | | Jun-21 | | | | | | | | | | | | | | | | 1.0 | 1.0 | 0.5 | | 0.21 | |
| | | 5) Expansion of MBES processing pipeline | | | Jun-21 | | | | | | | | | | | | | | | | 0.5 | 1.0 | 0.5 | | 0.17 | |

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| MS25 | QA and packaging services cloud enabled and reviewed for all bathymetry data type | 1) Cloud enablement of the QA service for integration into the seamless AusSeabed platform delivered via ASB GitHub organisation or as agreed with NOAA | 3. Increased number of recognised processes relying on AusSeabed products and services 6. Decreased turnaround time in making data discoverable and/or accessible on the AusSeabed data portal | GA/FrontierSI/CSIRO/AHO | Dec-21 | 0.40 | | | | | 1.3 | 1.3 | 1.3 | | | | | | | | | 0.31 |
| | | 2) 360 review of the QA and package tool with recommendation report and implementation plan for next iteration | | | Jun-21 | | | | | | | | | | | | | | | | 0.5 | 0.5 |
| MS26 | Data Warehouse delivering all major bathymetry data types and connected to terrestrial data hub (ELVIS) | Provide data management for all levels of bathymetry processed data type from multiple local hubs, including connection to terrestrial topographic data repository (ELVIS) and integration with international hub, i.e. IHO DCDB | 3. Increased number of recognised processes relying on AusSeabed products and services 5. Increased number of datasets accessible through the AusSeabed data hub | GA/CSIRO/AHO/AAD/AODN | Jun-21 | 0.21 | | | | | | | | | | 0.5 | 1.0 | 0.5 | 0.5 | 0.21 | | |
| MS27 | Annual report delivered | Draft report submitted to SC for release in July 21 | | GA/CSIRO/AHO/SC | Jun-21 | 0.08 | | | | | | | | | | | | | | 1.0 | 0.08 | |
| | Operation | Includes maintenance and operation activities once any part of the infrastructure is in place. | | GA/CSIRO | Jun-21 | 1.00 | | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.00 |
| | | | | | | Total | 9.55 | \$255,000 | 10.25 | 11.45 | 10.20 | 9.95 | 9.00 | 7.70 | 8.95 | 10.20 | 10.00 | 9.20 | 8.70 | 8.95 | 9.55 | |

Travel
MS21 Storage and Egress
Estimated cost for workshop, training, work planning
Estimated Cost associated with having data stored into AWS or NCI and downloading