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| Coastal Erosion from Space | | | | | |
|  | | | | | |
|  | | | | | |
| Coastal Erosion Phase 2 Project Management Plan  Ref: SO-RP-ARG-003-055-012  Date: 21/05/2020 | | | | | |
| Customer: ESA  Contract Ref.: 4000126603/19/I-LG | | | | | |
| **https://argans.co.uk/img/argans_logo.png** | | | | | |
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| BGS_Logo_magenta |  | |  | |  |

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# Signatures

|  | Name | Company or Institute | Date |
| --- | --- | --- | --- |
| Prepared by | Martin Jones | ARGANS | 06/02/2020 |
| Authorised by | Craig Jacobs | ARGANS | 06/02/2020 |

# General Information

|  |  |
| --- | --- |
| **Project Name:** | **Coastal Change Project Management Plan** |
| Client: | ESA |
| Prime Contractor: | ARGANS |
| ARGANS Project Lead: | Martin Jones |
| Project Team: | 1. ARGANS -PM – VNIR Service Gp 2. IsardSAT – SAR Service Gp 3. AdwaisEO – Data Service Gp 4. British Geological Society – User Gp 5. Geological Survey Ireland - User Gp 6. IH Cantabria – User Gp 7. ARCTUS – User Gp 8. IGN FI |
| Start Date: **(Phase 2)** | **3rd April 2019 (Phase 1 start = TO 0)** |
| Official End Date: | * Phase 1 **3 January 2020 (MTR 24 Jan 2020)** * Phase 2 **3 April 2021 (FR 18-22 Jan 2021)** |
| Current Estimated End Date: | * Phase 2 **30 Mar 2021** |

ARGANS Project Team

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Role** | **Name** | **Affiliation** | **Work package lead** | **% fte** |
| Project Manager | Martin Jones (MCJ) | ARGANS UK | Project Management | 50% |
| Technical Lead (EO) | Anne-Laure Beck (ALB) | ARGANS UK | EO lead | 75% |
| Technical Lead (Geomorphology) | Noelia A Zorrilla  (NZ) | ARGANS UK | Geomorphology lead | 100% |
| Technical Lead (Software Dev) | Dr Stephen Emsley | ARGANS UK | Data and Delivery | 50% |
| EO Scientist | Martina Polito (MP) | ARGANS UK | SDB | 100% |
| EO Scientist | Eszter Magyar (EM) | ARGANS UK | VNIR Waterlines and Pre-Processing | 100% |
| EO Scientist | Amine Taji (AT) | ARGANS Mor | Geolocation | 50% |
| EO Scientist | Scott Miles (SM) | ARGANS UK | Shorelines | 100% |
| EO Scientist | Gilbert Langois (GL) | ARGANS Fr | Erosion Rate | 50% |

Client Information

|  |  |  |
| --- | --- | --- |
| **Name** | **Role** | **e-mail** |
| Olivier Arino | ESA Technical Officer | [Olivier.arino@esa.int](mailto:Olivier.arino@esa.int) |
| Fabrizio Ramoino | ESA Dep Tech Officer | [Fabrizio.Ramoino@esa.int](mailto:Fabrizio.Ramoino@esa.int) |

Partners Information (User Group)

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Name** | **Role** | **e-mail** |
| BGS | Andres Payo | Lead contact and User Team Lead | a.garcia@bgs.ac.uk |
| GSI | Xavier Monteys | Lead contact | [Xavier.Monteys@gsi.ie](mailto:Xavier.Monteys@gsi.ie) |
| IHC | Jara Martinez Sanchez | Lead contact | [Jara.martinez@unican.es](mailto:Jara.martinez@unican.es) |
| Arctus | Thomas Jaegler | Lead contact | [tj@arctus.ca](mailto:tj@arctus.ca) |
| IsardSAT | Albert Garcia-Mondejar | Lead Contact | [albert.garcia@isardsat.cat](mailto:albert.garcia@isardsat.cat) |
| IGN FI | Benoit Kiene | Lead Contact | [bkiene@ignfi.fr](mailto:bkiene@ignfi.fr) |

Partners Information (Service Group)

|  |  |  |  |
| --- | --- | --- | --- |
| **Organization** | **Name** | **Role** | **e-mail** |
| IsardSAT | Albert Garcia-Mondejar | SAR Lead | [albert.garcia@isardsat.cat](mailto:albert.garcia@isardsat.cat) |
| AdwaisEO | Giovanni Corato | Data storage and processing lead | [giovanni.corato@adwaiseo.eu](mailto:giovanni.corato@adwaiseo.eu) |

Project Information

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| --- | --- | --- |
| **Funder** | ESA Science for Society Element of Earth Observation Envelope Program (EOEP-5, block 4) | |
| **Value** | Fixed Price for Phases 1 and 2   * Phase 1 – Euro 500,000 * Phase 2 – Euro 1,000,000 | |
| **Summary** | **Project Summary**:   * To develop and demonstrate innovative use of EO Products to be used by “user communities” responsible for monitoring and controlling coastal erosion. * Analysis of over 1,000 kms of coastline across four member states. * Extraction of shoreline and erosion trends over 25 years of ESA archive data. | |
| **List of deliverables** | Phase 1 | **MS#1 (50% Phase 1 payment): (KO+4)**   * Requirement Baseline Document (RB), |
| **MS#2 (50% Phase 1 payment): (KO+9)**   * Mid-term Report (MTR) * Technical Specifications (TS) * Product Validation Plan (PVP) * Product Delivery (Prod) |
| Phase 2 | **MS#1 (30% Phase 2 payment): (KO+13)**   * Validation product delivery (Prod) |
| **MS#2 (50% Phase 2 payment): (KO+18)**   * Product Delivery 1st series of AOI (Prod) |
| **MS#3 (20% Phase 2 payment): (KO+24)**   * Product Validation Report (PVR) * Final Report (FR) * Final Product Delivery (Prod) * Contract Closure Document (CCD) |

# Risks

|  |  |  |
| --- | --- | --- |
| **Issue/Risk:** | **Description:** | **Mitigation:** |
| **Risk:**  Access to Auxiliary data |  |  |
| **Risk:**  Access to TPM |  |  |
| **Risk:**  3D volume and erosion rate calculations |  |  |
| **Risk:**  Product/Service Dissemination |  |  |
| **Risk:**  Appropriate validation |  |  |
| **Issue:**  Data/product naming & metadata protocol |  |  |

# Project Plan

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Milestone** | **Deliverable** | **Deliverable description** | **Delivery**  **(Planned)** | **Delivery**  **(predicted)** |
|  | **Phase 2 Planning** | Internal **2-6 February 2020**  Service Providers **10 February 2020**  Full consortium **12 February 2020** |  |  |
|  | **Test Site processing** | All Landsat 5/8 and Sentinel 2 Images downloaded.  TPM received  Geolocation conducted, images correctly named and stored in AdwaisEO  Waterlines manufactured/named correctly and stored at AdwaisEO | **13 Mar 20**  **13 Mar 20**  **20 Mar 20**  **27 Mar 20** |  |
|  | Shorelines, Coastal Strip Feature Maps, SDB DTMs all manufactured | **3 Apr 20** |  |
|  | **Test Site Delivered** | Delivering WLs, SLs, Feature Maps, SDBs for all 6 test sites (El Prat, Tordera, StartBay, Wexford, Longue-Pointe de Mingan) for 25 years | **3 Apr 20** | **Complete** |
|  | **Service Group Webservice Mtg** | Data naming, file structure, metadata and data base design agreed | **11 Mar 20** | **Delivered** |
|  | **Progress Meeting** | Consortium Mtg and Progress Report # 6 | **19 Mar 20** | **Delivered** |
|  | **Progress Report #6** | Progress Report #6 (February and March 2020)  Ref: SO-RP-ARG-003-055-012  Date: 01/04/2020 | **1 Apr 20** | **DELIVERED** |
|  | **Web service development Part 1** | Initial webservice testing complete: Access to the phase 1 site data is via the GeoPortal on the Coastalerosion.argans.co.uk website | **3 Apr 20** | **Delivered** |
|  | **PRODUCTION** |  |  |  |
|  | **Phase 2 Ireland**  **(part 1)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **April 20** | **Delivered** |
|  | **Evaluation Report**  **(ER v1.0)** | User Evaluation Reports that shall be attached to the Product Validation Report. | **24 Apr 20** | **Delivered** |
|  | **Product Validation Review**  **(PVR v1.0)** | The results of the product validation shall be documented in the Product Validation Report (**Deliverable 2.2**) | **1 May 20** | **DELIVERED** |
| **MS#3** | **Validation Products** | Upon delivery and acceptance by the Agency of the 1st series of validation products | **1 May 20** | **DELIVERED** |
|  | **Service Group Webservice Mtg** | Data naming, file structure, metadata and data base design implemented | **13 May 20** | **Delivered** |
|  | **ENGAGE** | Maxar Conference | **19-20 May 20** | **postponed** |
|  | **GEO Business** | London Conference | **24-25 Sep 20** | **postponed** |
|  | **Progress Meeting** | Consortium Mtg and Progress Report # 7 | **27 May 20** |  |
|  | **VALIDATION & ANALYSIS** |  |  |  |
|  | **Phase 2 Ireland**  **(part 1 V&A)** | 4 week cycle to validate and conduct initial analysis. | **May 20** |  |
|  | **Phase 2 Canada**  **(part 1)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **May 20** | **In Progress** |
|  | **Phase 2 Canada**  **(part 1 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Jun 20** |  |
|  | **Phase 2 Spain**  **(part 1)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Jun 20** |  |
|  | **8th Symposium** | Livorno Conference | **19-21 Jun 20** | **postponed** |
|  | **Service Group Webservice Mtg** | User Group updates and amendments to the webservice agreed | **10 Jul 20** |  |
|  | **Phase 2 Spain**  **(part 1 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Jul 20** |  |
|  | **Phase 2 England**  **(part 1)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Jul 20** |  |
|  | **Phase 2 England**  **(part 1 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Aug 20** |  |
|  | **Phase 2 Ireland**  **(part 2)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Aug 20** |  |
|  | **Web service development Part 2** | Access (including User group amendments) to the all data is via the GeoPortal on the Coastalerosion.argans.co.uk website | **12 Aug 20** |  |
|  | **Progress Meeting** | Consortium Mtg and Progress Report # 8 | **10 Sep 20** |  |
|  | **WORKSHOP 1** | Location tbc | **Date tbc** |  |
|  | **GEO Business** | London Conference | **24-25 Sep 20** | **New Date** |
|  | **Phase 2 Ireland**  **(part 2 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Sep 20** |  |
|  | **Phase 2 Canada**  **(part 2)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Sept 20** |  |
|  | **Phase 2 Canada**  **(part 2 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Oct 20** |  |
|  | **Product Validation Review**  **(V 2)** | The results of the product validation shall be documented in the Product Validation Report (**Deliverable 2.2**) | **3 Oct 20** |  |
|  | **FINAL REPORT**  **(Draft v1.0)** | The Contractor shall summarise, in a final report (Deliverable 2.3), all findings of the project from the requirements collection up to the service roll-out analysis. | **3 Oct 20** |  |
| **MS#4** | **Product Delivery** | Upon delivery and acceptance by the Agency of 1st products for AOIs | **3 Oct 20** |  |
|  | **ICE Conference** |  | **Oct dtbc** |  |
|  | **WORKSHOP 2** | Location tbc | **Date tbc** |  |
|  | **Phase 2 England**  **(part 2)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Oct 20** |  |
|  | **Phase 2 England**  **(part 2 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Nov 20** |  |
|  | **Phase 2 Spain**  **(part 2)** | 4 week cycle download Landsat 5&8/Sentinel 2 (L1 -Sen2Cor to L2) & L2, geolocate, derive WLs, SLs, SDB, Coastal Strip Maps | **Nov 20** |  |
|  | **PILOT DEMONSTRATION SERVICE** | Coastalerosion.argans.co.uk  GOES LIVE **- FULL DEMO**  The service demonstration shall include the generation of all service products (**Deliverable 2.1**) specified in the Technical Specifications | **5 Nov 20** |  |
|  | **WORKSHOP 3** | Location tbc | **Date tbc** |  |
|  | **Phase 2 Spain**  **(part 2 V&A)** | 4 week cycle to validate and conduct initial analysis. | **Dec 20** |  |
|  | **WORKSHOP 4** | Location tbc | **Date tbc** |  |
|  | **FINAL REPORT**  **(Final v2.0 Privileged)** | The Contractor shall summarise, in a final report (**Deliverable 2.3**), all findings of the project from the requirements collection up to the service roll-out analysis. This privileged version, with company-related particulars is for ESA internal use. | **14 Dec 20** |  |
|  | **FINAL REPORT**  **(Final v2.0 Public)** | A public version for public dissemination for publication on SSEP web site. | **14 Dec 20** |  |
|  | **Progress Meeting** | Consortium Mtg and Progress Report # 9 (**FR Planning**) | **9 Dec 20** |  |
|  | **Final Review** | Frascati 2 day conference | **18-22 Jan 21** |  |
|  | **Contract Closure Doc** |  |  |  |
| **MS#5** | **FINAL REVIEW CONFERENCE** |  | **3 Feb 21** |  |

# Conclusion

This Project Management Plan is a live document and it will be used to track progress and to ensure that all requirements of the Statement of Work and the Contract are delivered.