**EOAC Future EO Mission/Instrument Opportunity Questionnaire**

# Part 1 – Mission Characteristics

**Your overall response must be limited to 2 sides of A4 for Qs 1-13 and 1 page for Q14, font size Arial 10.**

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| --- | --- | --- |
|  | **Topic** | **Response (not to exceed 2 sides of A4 for Q1-Q13 and one page for Q14)** |
| **Q1** | **Project Name** |   |
| **Q2** | **Lead UK Organisation** |   |
| **Q3** | **UK Points of Contact** |   |
| **Q4** | **Mission Concept** |  |
| **Q5** | **Main Products, Benefits and Beneficiaries** |  |
| **Q6** | **Instrument Concept** |  |
| **Q7** | **Calibration / Validation Concept** |  |
| **Q8** | **Instrument Hosting** |  |
| **Q9** | **Mission Requirements** |  |
| **Q10** | **Product Scientific Maturity** |   |
| **Q11** | **Mission Technology Maturity** |   |
| **Q12** | **UK Footprint** |   |
| **Q13** | **Mission Readiness** |  |

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| **Q14** | **Assessment of Overall Mission Cost and Complexity*****One page maximum for this question*** | Fill in table below (select one from each section with an ‘x’).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | **Constellation size or 1 spacecraft** |  |  | 6 | **Complexity (Space Segment)** |   |
| 2 | **Payload maturity** |  |  |  | Simple |   |
|  | Mature  |   |  |  | Intermediate |   |
|  | Minor evolution |   |  |  | Challenging |   |
|  | New critical elements |   |  | 7 | **Complexity (Operations)** |   |
|  | Highly innovative |   |  |  | Simple |   |
| 3 | **Ground Station Needs** |   |  |  | Intermediate |   |
|  | Single station |   |  |  | Challenging |   |
|  | Modest network  |   |  | 8 | **Complexity (Ground Segment)** |   |
|  | Multiple ground stations  |   |  |  | Simple |   |
| 4 | **Data Delivery** |   |  |  | Intermediate |   |
|  | Non urgent delivery |   |  |  | Challenging |   |
|  | Operational timescales  |   |  | 9 | **Overall Mission Cost Range** |  |
|  | Time critical  |   |  |  | <£1m |   |
| 5 | **Product chain maturity** |  |  |  | £1-10m |   |
|  | Mature service chains  |   |  |  | £10-50m |   |
|  | Development required |   |  |  | £50-100m |   |
|  | Research products  |   |  |  | £100-250m |   |
|  |  |  |  |  | £250m+ |   |

**Briefly** explain your choices here and provide any further information that you can on the overall mission cost. |

# Part 2 - Selection Criteria

**The information in this second table must be limited to two pages, font size Arial 10.**

|  |  |
| --- | --- |
| Describe the **principal** user need for the mission and any existing collaboration with the end user |  |
| Show how the project aligns with UK EO, national space policy or other UK industrial objectives (e.g. climate science, UK EO Technology Strategy, UK Industrial Strategy) |  |
| Describe the **principal** benefits that will result (e.g. leading science position; job creation; export growth; national prestige; etc) |  |
| Describe the **principal** innovative/ unique aspects of this project (science / technology / products / services) |  |
| Why is this mission / instrument achievable, realistic and cost-effective? (e.g. by comparison to previous missions) |  |

# Part 3 – Further Information

Following short-listing, proposers may be asked, **potentially at short notice (e.g. 2 weeks)**, to provide further information, including the areas listed below:

* Background information on the proposing organisation and consortium members
* Why public investment would be required to realise the mission
* Risk assessment
* High-level project management plan & key milestones
* Cost breakdown
* The exploitation pathway (e.g. route to market for commercial, or science data exploitation route for scientific)
* Any other relevant information

Please indicate, using the tick box below, if you would be able to provide such information at short notice.

# Part 4 – International Collaboration

**The information in this section must be limited to one page, font size Arial 10.**

|  |  |
| --- | --- |
| Outline the potential for international/bilateral collaboration, and the status of any related dialogue with potential international partners.  |  |
| Outline the potential for dual use (i.e. application to security and/or defense applications) of the technology, instrument or mission. |  |