

| Phase 1 Gateway Portal MVP & Metadata Catalogue FAQs - 25 July 2019 | | | |
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| No | Cat | Question | Response |
| 1 | Gateway | Could you clarify what is meant by : Skill to form technology partnership which could extend into Phase 2 of the Gateway development? | <p>After a successful MVP HDR UK are looking to form a technology partnership for future development (Phase 2 and beyond). Organisations which deliver elements of the Gateway should demonstrate the ability to work collaboratively with other organisations.</p> <p>Please note that HDR UK are not mandating that only organisation capable of forming a technical partnership should apply and its a desirable requirement rather than a mandatory requirement.</p> |
| 2 | Gateway | You refer to a need for experience in the use of modern UI frameworks and tools, e.g. Angular, JS, CSS, HTML 5. Do you require experience in these specific technologies or would more broad experience of modern interactive front-end work be sufficient? | The design brief is a modern, clean, extensible api driven system, to achieve this HRDUK believe that Angular, JS, CSS and HTML5 offers the best route. However HDR UK is not prescriptive in respect to the technologies, HRDUK believe that Angular, JS, CSS and HTML5 offers a strong base but we will consider other open and standards based approaches. |
| 3 | Gateway | Could you tell us in detail the scope of datasets in the data hub for the MVP? | <p>The datasets cover a plethora of health data, stored across multiple data custodians, which must be searchable. Within the MVP there will be no access to this data only the underlying metadata which will represent the initial datasets. The MVP must be extensible to support metadata from a wide range of structured, semi-structured and unstructured datasets from a range of modalities include EHR, imaging and genomics.</p> <p>Examples can be seen from the Health Data Finder http://www.hdf.nihr.ac.uk/</p> |

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| 4 | Gateway | Could you kindly provide details of the resources HDR UK will provide e.g. Scrum Master, Product owner, etc. | HDR UK will provide access to a hands on CTO together with solution architects who will acts as technical authorities and product owners. The supplier will co-develop with HDR UK and will be responsible for providing project management, with a scrum master is appropriate and an experience architect. They will collaborate with the HDR UK CTO and Technical Solutions Architect, and the HDR UK Programme Management Team. |
| 5 | Gateway | 3. Which environment (e.g.: production?) will the dev and integration works be done before the MVP release? | Environments covering Development, Staging / Integration, Testing and Production The project will be conducting using Agile methodology with a CI/CD approach. For the MVP we anticipate development and a deployment environment. Working and deployed code will be available at the end of each iteration will be demonstrated and discussed in an sprint review. |
| 6 | Gateway | Our assumption is that you will provide us with the cloud environment and access for the MVP development – is that correct? | Correct, we are currently evaluating our cloud provider selection. |
| 7 | Gateway | Can we use off-shore resources to deliver the solution? | The supplier is welcome to use a team that is a mix of UK and off shores resources provided that the requirement to be available for face to face weekly meetings in London can be met, and that attendance at this meetings will including the key project management and technical resources from the supplier. |
| 8 | Gateway | Are expenses included in the funding or is there funding available on top of the £250k? | No additional expenses will be provided beyond the 250K detailed in the requirements specification |

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| 9 | Gateway | What underlying access management system will we need to integrate with and Which identity providers will be in scope for the MVP? | Our current design assumption is that we will provide access management through integration with support from the UK Access Management Federation (https://www.jisc.ac.uk/uk-federation), However additional user profile management capability will be required beyond the capability from the UK Access Management Federation. |
| 10 | Gateway | Is the ontology service already available? If not, when will this be ready for integration? | Integration with the ontology server is not part of the MVP. However we are actively working with partners on ontology support. |
| 11 | Gateway | Do you have collaboration tools of choice available or is the expectation that this should be provided by the supplier (e.g. Jira, confluence etc.)? | Both Jira and Confluence will be provided.. |
| 12 | Gateway | Does the supplier also need to provide support of the gateway or is that out of scope for the MVP? | A key component of the MVP is first class documentation, coupled with a detailed handover. This should be planned by the supplier to allow HDR UK to support the MVP moving forward. |
| 13 | Gateway | Please can you give examples of the types of new software's you would expect to be shared as open source | All assets developed within the project, including but not limited to code, web assets, images, reference data is to be the intellectual property of HDR UK which will be open sourced. |
| 14 | Gateway | Can you confirm that suppliers' existing background IP will not be expected to be open sourced under this contract? | HDR UK anticipates that the development can be undertaken without a supplier bringing additional existing proprietary components with background IP. However suppliers are welcome to use open source from established projects. If the supplier with HDR UK's approval uses existing proprietary components, the supplier will not be expected to open source those component but would be expected to provide HDR UK with a free, non-exclusive, perpetual and assignable licence to those components. |

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| 15 | Gateway | Could you let us know the number of users at MVP go live, number of production users at end of 2019, 2020 etc. please? | The MVP will be developed with the input of a small group of expert users. The intention of the MVP is to rapidly deliver a prototype which can be iterated upon and to steer the thinking for further development. The MVP will be required to be able scale seamlessly, we need to support 100s of datasets, 1,000s of registered users but probably only 10 -100s of concurrent active users. |
| 16 | Gateway | Could you let us know of the Geographical location(s) of expected users please? | The MVP user community will be based in the UK. That said the solution must be accessible globally and the design and infrastructure must not preclude this. |
| 17 | Gateway | Are there specific asset libraries you would want us to use – for example, should we use GBS Asset library for the portal front end design? | HDR UK anticipates that the development can be undertaken without a supplier bringing additional existing proprietary components with background IP. However suppliers are welcome to use open source from established projects. If the supplier with HDR UK's approval uses existing proprietary components, the supplier will not be expected to open source those component but would be expected to provide HDR UK with a free, non-exclusive, perpetual and assignable licence to those components. |
| 18 | Gateway | Could you confirm what type of meta data we will be working on ? for example: admin, technical, etc | As outlined in the detailed specification on the HDR UK website, the metadata will include operational and business as well as technical metadata. All aspects of the datasets will be recorded as metadata so this will include for example provenance, dataset usage, access requirements, usage characteristics, quality information, user feedback as well as coded information on the elements of the dataset. It is anticipate that the metadata for a dataset will fully describe all aspects of the dataset and this will allow migration of metadata between catalogue and the generation of webpages to describe a dataset. |

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| 19 | Gateway | Will the successful supplier be expected to handle / process any data, especially PII data? | The supplier will not be responsible for processing of any data, they are supplying resources to work under the direction of HDR UK. |
| 20 | Gateway | What level of SLA, if any, will be required for the MVP beyond being “straightforward” and providing a “good user experience”? | Service Level Agreements cover availability, recoverability and are covered within Gateway specification. The successful supplier will be able to demonstrate a history of developing and delivering first rate uses experience and this must be evident in any proposal and subsequent interviews. Environments covering Development, Staging / Integration, Testing and Production will be provided. |
| 21 | Gateway | What relevant, what development environment and tools will be provided? | Environments covering Development, Staging / Integration, Testing and Production The project will be conducting using Agile methodology with a CI/CD approach. For the MVP we anticipate development and a deployment environment. Working and deployed code will be available at the end of each iteration will be demonstrated and discussed in an sprint review. In addition both Confluence and Jira will be provided. |
| 22 | Gateway | Which private cloud technology will be made available to develop and host the web application? | All development and deployment will be hosted in a public cloud environment. HDR UK will not be making use of private cloud technology for this application. |
| 23 | Gateway | Will HDR UK provide any Agile delivery tools (e.g. JIRA) to enable the delivery team to deliver fortnightly release increments? | Confluence and Jira will be provide to facilitate and manage agile design, development and product delivery. |
| 24 | Gateway | Has any design work been completed on the metadata APIs? If not, does responsibility for API design sit with the metadata catalogue project or the gateway MVP? | The required APIs will be described in the epics and user stories being developed in outline by HDR UK. HDR UK and the supplier will collaborate on the detailed design of the APIs. All APIs will be documented and made publicly available. |

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| 25 | Gateway | Should we assume that the discoverable elements of the metadata catalogue will be defined before the Gateway Portal MVP commences on 23/09/19? | Elements of the metadata catalogue will be available before 23/09/2019. However HDR UK and the project deliverables are agile so expect this to be extended and even changed during the process. |
| 26 | Gateway | Will HDR-UK manage the delivery and dependencies across the metadata catalogue and Gateway deliveries? | The HDR UK team will ensure that there is a harmonious relationship across the Catalogue and Gateway developmental and integration landscapes. However it is expected that developers in both landscapes will be proactive and communicate to resolve issues. |
| 27 | Gateway | Will a consistent Agile approach be used across both projects with the same tooling used to manage product backlogs and sprint deliveries? | HDR UK will be using a consistent Agile approach across the project. The details of tools and approach will be agreed with the supplier. |
| 28 | Gateway | Is near-shore or off-shore development allowed for this project, if supported by onshore UX expertise? | It is key to HDR UK that the project is executed in a agile scrum type fashion, for this reason its envisaged that regular sprint planning, review and retrospectives are required and for these to be face to face |
| 29 | Gateway | Is there a requirement to provide technical support to the MVP after phase 1 has been completed? | As key component of the MVP is first class documentation, this coupled with a detailed handover should be planned by the supplier to allow HDR UK to support the MVP moving forward. |
| 30 | Gateway | Will HDR UK 'administer' the platform (e.g. user accounts) once the MVP is completed? | HDR UK will own the operation responsibility for the MVP following acceptance of the final iteration. However the MVP will be expected to have self service for key administrative aspects such as user profile management and onboarding of datasets. |

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| 31 | Gateway | What volume of users are expected to use the MVP when it is completed? How many concurrent users? | The MVP will be developed with the input of a small group of expert users. The intention of the MVP is to rapidly deliver a prototype which can be iterated upon and to steer the thinking for further development. The MVP will be required to be able scale seamlessly, we need to support 100s of datasets, 1,000s of registered users but probably only 10 -100s of concurrent active users. |
| 32 | Gateway | Are there any IG constraints for sharing metadata that need to be considered when designing the MVP? | IG is not the responsibility of the supplier. HDR UK will manage the relationship with the data controller and the provision of metadata. |
| 33 | Gateway | What type of roles, if any, will be performed by HDR UK? Is there any shadowing and knowledge transfer in the MVP building? | HDR UK will provide access to a Hands on CTO together with solution architects who will acts as technical authorities and product owners. |
| 34 | Gateway | The MVP will follow the security and compliance policies from HDR UK? This will be cover by HDR UK roles? | Security and Compliance policies and processes will be managed by HDR UK. The developed gateway platform will need to demonstrate secure best practices in respect to encryption, access management and resistance to issues such as SQL Injection. |
| 35 | Gateway | What is the role of FAIR data in the MVP? | FAIR is a set of guiding principles covering the findability, accessibility, interoperability and reusability of the developed stack. Any proposal should detail how the supplier plans to design and deliver to meet these principles. Key principles of FAIR are detailed here https://www.force11.org/group/fairgroup/fairprinciples |
| 36 | Gateway | The MVP will include federated access (SSO)? | The MVP is not expected to support federate access, however this will be a key element of the Phase 2 Technology Partnership. |

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| 37 | Gateway | The MVP mentions: "Embed analytics capability to assess use in order to understand how to meet the needs of users and support further access to data." Is this part of phase 2? | The MVP will support logging of all queries and user interactions. Metrics from these will be used to inform the requirements of the design of Phase 2. Federated analytics on data is expected to be part of the Phase 2 development. |
| 38 | Gateway | The MVP integrates the meta data engine from the other project but also it needs to provide an engine on top to connect to information coming from other APIs (for example a university library API)? | All component of the MVP will be integrated via published APIs. It is also expected that the MVP will need to integrate with other service via APIs to support user identity management and the generation of metrics including potentially dashboard support. |
| 39 | Gateway | The workflow of access to data, depends on off-line decisions? And the Gateway is only used to receive the request and communicate the granted access? Can you provide an example of a flow? | In the MVP, the access request management is not expect to be beyond the initial submission of the request with the existing process handling the request from that point forward. As a stretch goal, we would extend to support the full workflow for a limited number of data controllers. Workflows for these controllers will be developed by HDR UK, however ultimately the gateway will be expected to provide a flexible workflow management and rules engine to support a configurable approach to front end the range of workflows from different controllers. |
| 40 | Gateway | The Audit and logging capabilities can be covered by an out-of-the-box solution, like google analytics? | HDR UK feels that to achieve the desired outcomes of auditing and logging the ELK stack made up of elastic search, log stash and Kibana would be best served to deliver this, we are open to considering other options. For the purposes of auditing and logging Google analytics will not be able to deliver this as it only covers web based analytics. Audit and Logging will be required to log errors and well as providing MVP based insights through configurable user driven dashboards. |

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| 41 | Gateway | Which are the “role model” websites with respect to User Experience for HDR-UK? | We would hope that any supplier would have a clear idea of this objective before submitting any proposal. HDR UK will provide and facilitate design thinking workshop to narrow in on this. Any proposal must demonstrate a track record UX lead development, delivering against principles such as Hierarchy, Consistency, Confirmation, User Control and Accessibility |
| 42 | Gateway | To be considered as a supplier do we have to be a member of the government approved suppliers and the Digital Outcomes and Specialists framework ? | Given the scale of the work (in excess of the EU threshold), we are required to use an existing framework or to follow a full OJEU procedure. Given the procurement restrictions, we are required to limit our selection to the pre-approved suppliers (over 2,500 on the marketplace). To engage outside of this framework is not possible without introducing the potential for challenge. I would encourage involvement in the marketplace framework, as it provides many opportunities to get involved in development activity in the public sector. |
| 43 | Metadata Catalogue | .In one of the Gateway Portal – MVP: Call FAQs (#14) responses on background IP, states that “If the supplier with HDR UK’s approval uses existing proprietary components, the supplier will not be expected to open source those component but would be expected to provide HDR UK with a free, non-exclusive, perpetual and assignable licence to those components.” Can you please confirm that for the Metadata Catalogue, if the supplier brings an existing product (with IP and licencing) that HDR are | If the supplier with HDR UK’s approval uses existing proprietary components, the supplier will may not be expected to open source those component. However they would be expected to provide HDR UK with a free, non-exclusive, perpetual and assignable licence to those components. |
| 44 | Metadata Catalogue | Can you please confirm when will you make the decision on which public cloud provider you will be using for the Gateway Development? | We are currently evaluating public cloud offerings, at the moment we do not have a decision date. We would expect that the metadata catalogue could run on standard platforms such as AWS, GCP or Azure using feature such as EC2, RDS as necessary. We are happy to open dialogue with a supplier on this if they are tied to a particular cloud platform. It would be ideal if the catalogue could run on two or more clouded infrastructures. |

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| 45 | Metadata Catalogue | When providing support for the Metadata Catalogue, will the supplier also be responsible for supporting and/or standing up the underlying infrastructure? | A key component of the MVP is first class documentation, coupled with a detailed handover. This should be planned by the supplier to allow HDR UK to support the MVP moving forward including the infrastructure. The provider must be able to provide second and third line support for bugs and issues with agreed SLAs. |
| 47 | Metadata Catalogue | Can you please provide more details around access to the test version of the proposed Metadata Catalogue solution for 3 days during the evaluation process? For example, would HDR agree with the supplier to a ½ day window for access during the evaluation time period (with associated onsite support for the supplier during this time period)? | We would welcome 0.5 days guided access with support during the evaluation process if its practicaly achievable for both parties. In addition we would need additional time to evaluate the product internally for up to two days. Its key to HDR UK that the procurement identifies the best metadata catalogue and to achieve this we need time to evaluate any solutions independently and really understand the product and tease out any limitation, questions and to provide feedback. |
| 50 | Metadata Catalogue | In HDR's responses to the Gateway Portal – MVP FAQs (#7), you have mentioned that the you expect all the resources (UK and off-shore) to be available for face to face weekly meetings in London. Is this condition the same case for the resources that will be used for the development of the Metadata Catalogue? If yes, can these meetings be conducted in part through Tele/Video conferencing? | The meetings can be conducted in part through tele and video conferencing however we would expect a significant amount of face to face contact throughout the process to build engagement and trust and create a first class collaborative structure between HDR UK and the supplier. |
| 51 | Metadata Catalogue | You have mentioned that all assets developed as part of the Gateway Development are to be considered IP of HDR. Can you please provide more details on how you envision IP ownership to be? For example, where do you see HDR retaining IP vs the supplier retaining the IP? | Foreground Ip developed during the process would be the property of HDR UK. Background IP may not become Hdr Uk property and this would be subject to further discussion. However Hdr Uk should be provided with a free, Non-Exclusive, perpetual and assignable licence to the tool, In order to ensure its continued use |

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| 52 | Metadata Catalogue | Will HDR perform the security assessment of the delivered solution or is this the responsibility of the supplier? | As part of contracted platform delivery HDR UK expect that the solution is developed making use of security best practices and for this to be included in the documentation. Once HDR UK are in possession of this we will conduct our own security review. The supplier should be ready to receive any questions and fix any components, deemed as a barrier to delivering a secure enterprise metadata catalogue. |
| 53 | Metadata Catalogue | Will all users who access the Gateway Portal and the Metadata Catalogue need to be registered or will anyone be able to access the gateway and only be required to go through the user registration if they want to use the data request form for access to data sets? | There may be a role for a very limited anonymous user in future incarnations of the whole technology stack. However for the purpose of the MVP including the metadata catalogue and the gateway, the supplier can assume that all of the access will have to go through an identity management provider |
| 54 | Metadata Catalogue | Will all users who access the Gateway Portal and the Metadata Catalogue need to be registered or will anyone be able to access the gateway and only be required to go through the user registration if they want to use the data request form for access to data sets? | There may be a role for a limited anonymous user in future incarnations of the whole technology stack where this satisfies information governance constraints. However for the purpose of the MVP including the metadata catalogue and the gateway, the supplier can assume that all of the access will have to go through an identity management provider |
| 55 | Metadata Catalogue | If the supplier is not successful in winning the phase 2 of the Gateway Development work, is the supplier required to hand over pre-existing solution to the new supplier/consortium? | Where this is appropriate we would expect the MVP to be handed over as fully working system, where there is a perpetual license we would expect this to be honored for 6-12 months |
| 56 | Metadata Catalogue | The requirements mention that "the catalogue will be delivered as a working MVP hosted on a public cloud platform". Will hosting be provided by HDRUK or would they like the supplier to host the platform on their own cloud infrastructure? | HDR UK will be provide a public cloud for the development, testing and production |

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| 57 | Metadata Catalogue | The requirements mention a "standardised way to locate network-accessible material, including but not limited to datasets, data transformation and models, integrated through open APIs. This must be scalable and support multiple concurrent queries." Can HDR UK elaborate on this requirement? | Beyond simple Datasets there is a requirement to be able to persist and retrieve other artefacts, for example storage and retrieval of data models to support model driven development. Data retrieval to locate material must be able to scale on demand to support multiple users. For the MVP there will be hundreds of users, as such only evidence of scalability is required. |
| 58 | Metadata Catalogue | The requirements mention "Contextual help to be provided and support through the Gateway user interface". How does HDR UK envisage this working? | <p>Front and centre to the gateway is delivery of first rate user experience. Rather than a support manual to guide and inform in isolation, we believe that Contextual help is central to a great user experience, guiding the user journey through smart visual cues and prompts Contextual help in the gateway includes but is not limited to the following</p> <p>Tooltips A tooltip is a small description that is displayed when a cursor is moved over an icon, hyperlink, etc. When a user moves the cursor on the 'question mark' icon, a tooltip pops up. In the context of the Gateway this would provide a description of a functionality/feature of a given data set property.</p> <p>Walkthroughs A walkthrough can be understood as a series of tooltips that appear one at a time, and provide step-by-step instructions to guide the user to complete his/her task right from the beginning until the end. HDR UK envisage using this for guiding the researcher for example in applying for access to a data set, where the application intelligentially guides the researcher consistent with a great user experience.</p> |

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| 59 | Metadata Catalogue | <p>Page 15 - section 1.2</p> <p>What is meant by "full range of multimodal data"? Does modal refer to data formats? If not how is the word 'modal' defined in this context.</p> <p>It refers to a variety of different data types.</p> | <p>It refers to a variety of different data types.</p> |
| 60 | Metadata Catalogue | <p>Page 13 - section Architecture Principles</p> <p>The items beginning with "The Gateway...." - Do these all apply to the metadata catalogue? or are they given as background?</p> | <p>These are principles which are applied where applicable and it makes sense to do so. HDR UK have established key architectural and process principles which can be used to guide and steer the thinking within the developmental lifecycle. The Metadata Catalogue forms part of the Innovation Gateway and must support the overarching principles which cover key themes such as scalability, standards, developmental approach and user experience.</p> |
| 61 | Metadata Catalogue | <p>Page 13 - section Process Principles.</p> <p>Can you describe how HDR UK envisages the use of DCAT, Schema.org and DataCite in the development of software? Is this implying use of a particular model driven framework based on these standards? If so which one?</p> | <p>This is not an exhaustive list nor is it prescriptive. HDR UK would expect for this to be a collaborative exercise in deciding which standards to adopt tactically and strategically. The use of standards is a key architectural principle at HDR UK and will be applied to all of the development and design undertaken.</p> |
| 62 | Metadata Catalogue | <p>Page 11 - section Components and functions</p> <p>Can you specify the SQL query language or DSL required? Is this a generic requirement encompassing existing query languages such as JSONiq, or is there a specification in mind?</p> | <p>There must be SQL like query language to search entities, we are not prescriptive over the specific of this, other than we expect that an equivalent query functionality exists or can be developed as part of a rapid development cycle.</p> |

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| 63 | Metadata Catalogue | Page 11 - section Security and Data Masking Item 4 - which international standards ? Is ISO27001 being referred to or another standard? | HDR UK are working towards being an ISO certified organisation and as part of this the platforms and solutions procured and developed will have a roadmap working towards data standards such as ISO 27001 which is the international standard for an ISMS (information security management system), provides an excellent starting point for achieving the technical and operational requirements necessary to reduce the risk of a breach. It is not critical for the MVP to be ISO certified only that it could be ISO compliant beyond the MVP and is a longer term goal |
| 64 | Metadata Catalogue | Page 11 section - Storage and Management, Item 1 and 2 - Are these intended to be separate? Item 1 refers to an administrative portal to allow "onboarding", and item 2 refers to a minimal administrative user interface to support management of the tool? Isn't 'onboarding of available metadata' part of the regular work of a metadata catalogue, rather than a specifically administrative task? Or is there a set of role requirements already defined? | Onboarding is the process in which data set metadata is extracted and transferred to the Metadata Catalogue and then made accessible within the gateway, we would expect this to be automated and for very little administrative end user oversight. Specific management of the tool is for platform administrators to view searches, data trends and other analytics insight to better understand how the Gateway is being used and to facilitate quality of service checks and improvements. |
| 65 | Metadata Catalogue | I'd like to understand more about how the budgetary figure has been calculated (from speaking with other vendors?). Given the deadline is Friday a swift reply would be most appreciated. | The budget calculated for the MVP including gateway was created using resource estimates, developmental costs and current market of comparable solutions. Please note that the first phase is an MVP, beyond that HDRUK would like to move to a partnership model where budgets will be calculated and apportioned as necessary. Estimated users for the MVP are within the hundreds with the ability to seamlessly scale up beyond this moving forward. |

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| 66 | Metadata Catalogue | How do you define data quality? | Data Quality is determined by the custodians and data controllers located throughout the UK. The custodians would augment the metadata as necessary with data quality scoring based on completeness, conformity, errors and sparsity amongst other measures. This is part of their information governance processes and protocols, the supplier will not be involved in this process. |
| 67 | Metadata Catalogue | Do we have other metadata ? (locations) | There will always be a single metadata catalogue. HDR UK may decide to distribute multiple copies of this for performance however they will be based on a single versioned and warranted metadata catalogue. |
| 68 | Metadata Catalogue | Are we supposed to authenticate the users? Are the users going to have different authorisations to access the data? | The Users will need to be authenticated, this will be using JISC https://www.jisc.ac.uk/ who at the time of writing are our preferred partner for identity management. There are two distinct personas, end users and administrators who will have different access levels. Please note that neither will have access to the underlying data sets only the metadata. |
| 69 | Metadata Catalogue | What type of support is required? User support? Adding functionalities, bug fixing, etc | There should be a handover and verbose documentation which enables staff at HDRUK to support the platform, the supplier must be available to fix and remedy bugs and other service level issues. Future development will be undertaken in the partnership and this extends beyond the scope of the MVP |

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| 70 | Metadata Catalogue | How the integration between the gateway and the catalog is supposed to work? | Integration will be by way of documented open RESTful APIs to communicate. The Metadata catalogue development work will commence before the Gateway and APIs will be developed in advance of this allowing the gateway to communicate and access the Metadata Catalogue. |
| 71 | Metadata Catalogue | Can you specify 'governance tools' requirements? | There are no requirements for the supplier to be involved in data or information governance |
| 72 | Metadata Catalogue | How many users are you forecasting to have? | The MVP we will have to support hundreds of users, beyond the MVP we expect to be able to support thousands of users across industry, government, research and the NHS |
| 73 | Metadata Catalogue | How the solution is supposed to be delivered? (Deployed on the cloud, Docker container, etc...) | This is something that would be discussed, however utilising container and container orchestration technologies such as Kubernetes and Docker together or separately would be fully supported by HDR UK |
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