

Call for tenders' details

Title: Data4Safety - big data platform.

Start date: 29/04/2017

Time limit for receipt of tenders: 12/06/2017

Contracting authority: European Union Aviation Safety Agency (EASA)

Status: Closed

Call for tenders question list

#	Submission date	Publication date	Question subject	Question	Answer
1	11/05/2017 18:00	18/05/2017 12:08	Tender Specifications Section 3.2.3 Technical & Professional Capacity / Experience of the Tenderer / 1.a	The overview of the services must be provided in Annex IV.b. Will you please clarify how (in which form, template, document) to provide the detailed description of the projects/contracts performed (including any research, analysis, reports, presentations etc. delivered)?	18/05/2017 The tenderer shall provide the information requested as to the description of projects/contracts performed within Annex IV.b (column: "Description of Services"). Should this template not provide for sufficient space an additional document, however, with a clear reference to this technical and professional capacity selection criterion 1.a and Annex IV.b, may be submitted with the tender.

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#	Submission date	Publication date	Question subject	Question	Answer
2	11/05/2017 18:01	18/05/2017 12:09	Tender Specifications Section 2.2, p. 17	The documents says "For all of the above main functions (WP#2 main function), provide the detailed lists of skills and categories of profiles required (no CVs of individuals) ..." Please clarify the sentence and especially the imperative "provide" since the skills and categories of profiles are detailed in the Call for Tenders itself, in the annex VI ""Professional Profiles"".	18/05/2017 The tenderer is requested to demonstrate how he intends to organise its work pursuant to "Section 3.3.1 – Organisation of work" of the tender specifications - Award criterion n° 5. In this context, the tenderer shall provide the respective information in his tender.
3	11/05/2017 18:03	18/05/2017 12:15	Tender Specifications Section 2.2, p.17	The document says "... and the amount of available capacity you have for each of these profiles. Please refer to section 3.2.3 for further details." According to 3.2.3, "2. Project Team / Expertise", an overview of the project team must be provided using the template of annex IV.d. That annex is actually a check list by which the tenderer confirms the availability of the team. Please clarify how the tenderer is expected to way to indicate the amount of available capacity.	18/05/2017 Please refer to the answer given to Question n° 2. The format to provide this information is not imposed and the tenderer can present the information in the best suitable format deemed appropriate. The Annex IV.d relates to the selection criterion n° 2 and is a checklist to help the tenderers not to forget any of the profiles of the project team and to confirm their availability for this framework contract.

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#	Submission date	Publication date	Question subject	Question	Answer
4	11/05/2017 18:04	18/05/2017 12:16	ANNEX IV.d – TECHNICAL & PROFESSIONAL CAPACITY - OVERVIEW OF PROJECT TEAM / PROPOSED PERSONNEL	Please confirm that completing the table "with indication of the availability" consists in ticking the checkbox to confirm the tenderer's capacity to provide the respective manager/expert for this contract.	<p>18/05/2017</p> <p>In compliance with the requirements set as per section 3.2.3, criterion 2.a) and b) of the technical and professional capacity selection criteria and Annex VI, the tenderer has to demonstrate that they have the requested project team and manager. Their availability needs to be confirmed by submitting the completed Annex IV.d.</p> <p>This Annex IV.d is also a checklist to help the tenderers not to forget any of the profiles of the project team. Checking the boxes will not be sufficient if not accompanied by the required evidence (see also Question 2).</p>

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#	Submission date	Publication date	Question subject	Question	Answer
5	15/05/2017 18:00	18/05/2017 14:54	Company working for several Consortium	<p>Could you please clarify :</p> <p>1) if a company can offer its services as subcontractor to two different consortia that will reply separately to the call for tenders ?</p> <p>2) if a company can offer its services as member of two different consortia that will reply separately to the call for tenders ?</p> <p>3) if a company can offer its services to two different consortia that will reply separately to the call for tenders, being member in one Consortium and Subcontractor in another ?</p>	<p>18/05/2017</p> <p>a)Yes, this is possible. However, as any sub-contractor they would have to take into account and comply with the set requirements (see especially section 1.6 of the tender specifications in this respect) and the statement below (Nota bene).</p> <p>b)Yes, this is acceptable provided that such a company complies with section 1.5 of the tender specifications and the statement below (Nota bene).</p> <p>c)Yes, however, take into account the answers a) and b) above and the Nota bene below.</p> <p>Nota bene: In any of the above cases, entering into an agreement with other (legal or natural) persons with the aim of distorting competition is strictly prohibited and any form of collusion must be avoided! Any participant (tenderer, leader, consortium member and/or subcontractor) shall not be in any situation which could give rise to a professional conflicting interest in what concerns the performance and/or implementation of the contract. The Agency reserves the right to exclude such tenderers in case one or</p>

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#	Submission date	Publication date	Question subject	Question	Answer
					exclude such tenderers in case one or the other case is proved.
6	15/05/2017 21:49	18/05/2017 14:56	Tender Specifications - Section 3.2.3	Section 3.2.3, Requirement (A) asks for an "overview of services performed within the past three years" including "detailed description of projects/contracts performed including any research, analysis, reports, presentations etc.". Could EASA please clarify the intent of this requirement? Is EASA asking for a summary of the tenderer's Big Data experience and contracts over the past three years?	18/05/2017 Yes, but the description shall be provided per project/client. Please also refer to the answer given to Question n° 1.
7	15/05/2017 21:49	19/05/2017 09:51	Executive Summary	Could EASA please clarify where in the tender offer we should place the Executive Summary?	19/05/2017 The tenderers may provide an Executive Summary in "Envelope B - Technical Documents".

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#	Submission date	Publication date	Question subject	Question	Answer
8	15/05/2017 21:53	19/05/2017 17:16	Tender Specifications - Section 2.5.1	Could the Agency please clarify the following wording in Section 2.5.1, the description of the Case Study: "The tenderer has to demonstrate in his offer how to address the main steps of such a case study [including] design and code the relevant algorithms that will enable..." In particular, does the Agency expect the software provider to design and code the algorithms, or will the "data analysts, data scientists, and aviation experts" mentioned in Work Package #1 be doing the designing and coding of the algorithms?	19/05/2017 The programme will function with Task Teams in charge of Case Studies. The Task Teams will gather experts from the DPPO, the data scientist/analyst team and the programme members (aviation experts). The design of the algorithms will require all these competences. The DPPO is expected to be the main integrator of the teams as the provider of the IT infrastructure, the software layers and the data extractions and data processing. The request is to understand how the tenderers will address the case studies.
9	16/05/2017 14:21	19/05/2017 17:18	D4S programme participation	Does bidding on this tender exclude a company from a future response on a call for tender in the context of the D4S program? E.g. for the Analyst Platform?	19/05/2017 Submitting a tender for this call (Big Data Platform) does not prevent replying to a future call, e.g. for the Analyst services.

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#	Submission date	Publication date	Question subject	Question	Answer
10	16/05/2017 14:22	19/05/2017 17:19	Case studies and profiles	The Tender refers to experience in readout of flight data recorders only besides the different IT-specialists. What technical & professional capacity is required regarding the development of the case studies mentioned in the section 2.5.1 of the tender specifications? There seems to be no profile specified that matches with the expertise needed to develop the case studies.	19/05/2017 The tenderer needs to demonstrate their experience as well as expertise in the frame of the selection criteria (section 3.2.3 of the tender specifications - technical & professional capacity). Please refer in particular to section 2.3.4 and to Annex IV c. Chapter 1.b) FDM Expertise and Competencies. The case study shall be addressed within the technical offer, making reference to the award criteria (section 3.3.1, criterion n°.2).
11	16/05/2017 14:23	19/05/2017 17:21	Span of "between 10 and 100 SPIs" may be developed.	The tender specifications state that in total, during the PoC, between 10 and 100 of such SPIs may be developed. This is rather a broad range which also has its reflection on the amount of work which will vary significantly between 10 or a 100 SPIs. Can EASA be more specific on the number of SPIs that are expected to be developed during the PoC, and the type of SPIs (e.g. are they similar to the hard landing case or more complex)?	19/05/2017 The exact number of SPIs will be determined at a later stage of the programme when more factual information would have been gathered on the data and algorithms. The SPIs may vary significantly in terms of complexity of algorithms and data required to compute them. As exposed in section 2.1.2 - General Principles, EASA is not in a position to be specific due to the innovative nature of this programme.

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12	16/05/2017 14:24	19/05/2017 17:25	Role or task distribution between the Big Data Platform and the Analyst Platform	The implementation of case studies requires design, development and coding of algorithms. What is the expected role or task distribution between the Big Data Platform and the Analyst Platform in that respect?	19/05/2017 Please refer to the answer given to question n°. 8 and section 2.1.2 of the tender specifications ("the role of the IT Provider includes a strong coordination with the Analysts Provider and the Data Providers which implies a good understanding of EASA's core business...").
13	16/05/2017 14:52	19/05/2017 17:27	Data source and costs	Regarding the FDM data, during implementation of the contract: (i) Is all of the data to come from the service provider OR (ii) some of the data shall be provided by EASA. Who shall bear the cost of gathering the FDM data?	19/05/2017 (i) None of the data are expected to come from the service providers. The programme targets aviation safety data. (ii) It is possible, however not planned at this stage. (iii) The FDM data will be provided free of charge by the participating airlines. The "gathering" of the data is part of the services required under this tender (referred as "data collection").

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14	16/05/2017 15:19	19/05/2017 17:29	Partners Vs Sub-contractors providing qualifying references	<p>We take note of the Technical and Professional capacity Selection criteria, and the split of:</p> <ul style="list-style-type: none"> - Big data references to be proven in Annex IV.b; and - Proven FDM expertise and competence - to be proven in Annex IV.c. <p>When two separate legal entities respond, organised as, either:</p> <p>(i) two partners deliver the professional experience of bid data and FDM (one partner each); OR</p> <p>(ii) a sub-contractor providing one or other of these two (bid data OR FDM) experiences, and the lead-organisation delivers the other.</p> <p>Will these two constructions be considered as equally qualified, or would one be considered better than another?</p>	<p>19/05/2017</p> <p>The distinction between (i) and (ii) of your question makes no difference for complying with the respective SELECTION CRITERIA on Technical and Professional capacity (see also sections 1.5 and 1.6 of the tender specifications).</p> <p>However, the main services requested by this call for tenders are strongly relying on the Big Data capacities. The FDM expertise and competence being a necessary complement.</p> <p>For the purpose of assessing the TECHNICAL QUALITY of their offer, tenderers are requested to clearly lay down their proposed Methodology/Solution including sub-contracting arrangements foreseen/ description of the input from each of the consortium members (see section 3.3.1 – award criterion n°. 2) as well as their Organisation of work (see section 3.3.1 – award criterion n°. 5).</p>

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#	Submission date	Publication date	Question subject	Question	Answer
15	16/05/2017 18:14	19/05/2017 17:30	Annex V Model Financial offer - pages to sign and include	In the Tender Specifications, file name "EN-Part I.1 Tender Specifications_EASA.2017.HPV.05_D4S_BD Platform", on Page 61 - there is a section requiring signature. Have we understood correctly, that the pages 60 and 61 of the above named file are to be signed, and included along with the signed and completed file named: EN-Annex V_Financial Offer Scenario Response?	19/05/2017 Yes, this is correct. As to the excel document, please make sure you complete, sign and submit all tabs of that file.
16	16/05/2017 18:46	19/05/2017 17:31	Technical and Professional capacity: ongoing experience	In the selection criteria, section 3.2.3 on Experience of the tender - as evidenced in ANNEX IV.b, is it a requirement that projects/contracts have ended, for them to be used as evidence of experience in this offer? For the Annex IV.c on FDL expertise and competencies - is it necessary for the projects to have ended, or may we also including ongoing references please?	19/05/2017 It is acceptable to provide ongoing experience/projects, provided some tangible deliverables have been achieved, if not the full project/programme.
17	16/05/2017 18:48	19/05/2017 17:32	Geographic scope of data sources	Is it considered to be advantageous having sources of FDRs from multiple geographic locations?	19/05/2017 The FDR/FDM data will be provided by the participating airlines.

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18	16/05/2017 22:36	19/05/2017 17:33	Tender Specifications - Section 2.7.7.2	In Section 2.7.7.2, the Agency requests that the tenderer provide a "Description of available network connections to the internet or the Agency's premises including bandwidth, technology and protocols. The tenderer should provide a variety of different options related to bandwidths (1 Mbps, 10 Mbps, 100 Mbps, 1 Gbps), technologies (leased copper or fiber lines) and protocols (site-to-site VPNs) or MPLS solutions." Given that we anticipate hosting the in AWS/EC2, can the Agency please clarify how we should interpret the requirement for cloud-based software solutions?	19/05/2017 This requirement is to ensure that the tenderer has provisions for adequate and flexible bandwidth solutions available for reasonable cost in case links between the Agency and the DPPO are needed for DPPO on-premises partial solutions.

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#	Submission date	Publication date	Question subject	Question	Answer
19	17/05/2017 18:43	24/05/2017 12:30	Interpretation of the IP clauses	<p>In “EN-Part II.1 - Tender Specifications_EASA.2017.HPV.05_D4S_BD Platform” page 19 para 2.3.6: All the content and the intellectual property produced for the project will be entirely delivered to EASA and will be considered as EASA property (see section 2.7.7.6.2.).</p> <p>Para 2.7.7.6.2 just points to two clauses in “EN-Part III - Draft Framework Contract_ Big Data Platform”.</p> <p>Clause I.13.2 states that "All pre-existing rights incorporated in the results, if any, are licensed to the Agency as set out in Article II.23.2.". To create the results requires a huge amount of software and supporting data files, so "rights incorporated in the results" could be interpreted as all the software and configuration files etc. used to create the results.</p> <p>In clause II.23.2, Licensing rights on pre-existing materials, the Union, although not acquiring ownership, licenses all pre-existing rights on a royalty-free, non-exclusive, irrevocable, worldwide basis for the duration of intellectual property rights protection. The license so created permits all forms of</p>	<p>24/05/2017</p> <p>As per Art. I.13.1 of the Draft Framework Contract, the Agency may use the results for the mode of exploitation such as: rights to authorise, license, or sub-license in case of licensed pre-existing rights, the modes of exploitation set out in any of the points (a) to (e) to third parties.</p> <p>It is thus not the software as such, but the modes of exploitation as referred to above.</p> <p>Pursuant to Art. II.23.3 (I) the Agency acquires exclusive rights “where the results are or incorporate software, including source code, object code and, where relevant, documentation, preparatory materials and manuals, in addition to the other rights mentioned in this Article:</p> <p>(i) end-user rights, for all uses by the Union or by subcontractors which result from this FWC and from the intention of the parties;</p> <p>(ii) the rights to decompile or disassemble the software”.</p> <p>Further, please also refer to Art. II.23.9. - Copyright notice for pre-existing rights:</p> <p>“When the contractor retains pre-existing rights on parts of the results, reference must be inserted to that effect when the result is used as set</p>

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				<p>created permits all forms of exploitation, including, see I.13.1(f), the right to sub-license pre-existing rights to third parties.</p> <p>So my question is this: Does the FWC allow the Union to sublicense all the software used for the project?</p>	<p>effect when the result is used as set out in Article I.13.1, with the following disclaimer: '© — year — European Union. All rights reserved. Certain parts are licensed under conditions to the EU', or with any other equivalent disclaimer as the contracting authority may consider best appropriate, or as the parties may agree on a case-by-case basis. This does not apply where inserting such reference would be impossible, notably for practical reasons."</p>

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20	15/05/2017 21:51	24/05/2017 12:38	IP Ownership and Licensing	<p>Is the Agency willing to consider a proven COTS solution as a basis for the infrastructure and software layers of the Data4Safety program, coupled with modifications and toolsets custom-built for EASA for the analysis of aviation data? Benefits of this approach include lower long-term risk, lower cost, faster delivery of the capability, and built in mechanism for enterprise-grade security and system management. The customized COTS platform model is incompatible with the current formulation of the tender, in particular with the requirement to declare that the contract is to be signed with the same terms and conditions and substantially in the form enclosed with the tender documents. If the customized COTS platform model proves to be more feasible according to the stated award criteria, is EASA willing to agree limited amendments to the contract around IP ownership and licensing to accommodate it?</p>	<p>24/05/2017 The Agency may consider a COTS (Commercial Off-The-Shelf) solution from a technical point of view. However, as referred to in the Tender Documents (Part I – Invitation to Tender, section 5. as well as Part II – Tender Specifications, section 1.14 and Annex I – Tender Submission Form, section 7.) submission of a tender implies acceptance of all the terms and conditions set out in the contract notice, the invitation to tender, in the tender specifications and in the draft contract and, where appropriate, waiver of the tenderer's own general or specific terms and conditions. It shall be binding on the tenderer to whom the contract is awarded for the entire duration of the contract.</p> <p>With regard to copyright and other intellectual property rights please refer to the Tender Documents: Part II – Tender Specifications, section 2.7.7.6.2 and Part III – Draft Contract, Art. I.13 and Art. II.23. Information as to the Data Sharing and Protection Agreement is contained in section 2.6 of Part II – Tender Specifications.</p> <p>Further, please refer also to the answer given to question 19.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
					answer given to question 19.
21	17/05/2017 18:53	24/05/2017 12:45	Negotiating the contract	The FWC document is entitled "EN-Part III - Draft Framework Contract_ Big Data Platform" but the declaration in Part II states "We are aware that there is no possibility of negotiating the contract". Are the terms of the FWC draft text and open to negotiation, or non-negotiable?	24/05/2017 The terms and conditions of the Framework Contract (as well as the invitation to tender and the tender specifications) are NOT negotiable. Part III refers to the "Draft" Framework Contract due to the fact that a set of information (such as for example name and address of the contractor, contact or bank account details) still needs to be included – at a later stage (i.e. after the award). Please refer also to the first part of the answer to question n°. 20.
22	19/05/2017 20:15	24/05/2017 12:58	Tender Specifications - Section 2.1.2 - Work Packages	Have Work Package #0 and Work Package #1, referenced in Section 2.1.2 of the Tender Specification, already been awarded? If so, could the Agency please provide additional context on the status of these Work Packages and elaborate on who was awarded each Work Package?	24/05/2017 It is not intended to launch a call for tenders for the services exposed in Work Package #0. The core services of WP#1 have not been awarded. A respective procurement procedure has not yet been launched. Further, please refer to the answers given to questions n°. 8, 9 and 12.

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23	22/05/2017 09:48	24/05/2017 13:00	Platform and coding of algorithms	Section 2.5.1 of the Tender specifications, the figure shows that coding of algorithms, performing computations, running queries etc. are a step in the processing of data. The figure gives the impression that these items are part of the Big Data Platform, is that correct? Are the steps, described in the blue text, part of the Big Data Platform?	24/05/2017 Yes, this is correct. Further, please refer to the answers given to questions n°. 8, 9 and 12.
24	22/05/2017 12:02	24/05/2017 13:02	Award Criteria format	Our understanding is that we can use our own template for the Award Criteria. Is this assumption correct?	24/05/2017 Yes, but tenderers are expected to submit a concise, to the point and clearly written technical offer tailored to EASA. The technical offer shall contain all necessary information to allow evaluation of the tender (according to the technical award criteria), be consistent with the technical specifications, be well-structured (e.g. containing list of contents and consecutive page numbering) and be signed by the tenderer.

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#	Submission date	Publication date	Question subject	Question	Answer
25	22/05/2017 18:35	24/05/2017 13:04	Draft framework contract - Liability	<p>Dear Sir or Madam, we take note of the clause II.6.2, under Liability, in the Draft Framework contract:</p> <p>"II.6.2 If required by the relevant applicable legislation, the contractor must take out an insurance policy against risks and damage or loss relating to the implementation of the FWC. It must also take out supplementary insurance as reasonably required by standard practice in the industry. Upon request, the contractor must provide evidence of insurance coverage to the contracting authority."</p> <p>For an organisation responding to this invitation to tender: (i), may it respond not having a professional risk indemnity insurance of 30 Million Euro, but secure it after the deadline for submission has passed, and the offer has been positively evaluate; OR (ii) must it have a certificate of professional risk indemnity insurance of 30 Million Euro, available before the submission deadline?</p>	<p>24/05/2017 As for any of the selection criteria (section 3.2 of the tender specifications), also the insurance coverage as requested per section 3.2.2 b. of the tender specifications needs to be demonstrated by the tenderer when submitting an offer under this procedure.</p>

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26	22/05/2017 18:56	24/05/2017 13:06	Cap on liability for any loss or damage	<p>Dear Sir or Madam, in the Draft Framework contract, under the clause II.6. Liability, we find this clause on the extent of liability:</p> <p>"II.6.3 The contractor is liable for any loss or damage caused to the contracting authority during or as a consequence of implementation of the FWC, including in the event of subcontracting, but only to an amount not exceeding three times the total amount of the relevant specific contract However, if the damage or loss is caused by the gross negligence or wilful misconduct of the contractor or of its personnel or subcontractors, the contractor is liable for the whole amount of the damage or loss."</p> <p>May we ask for a clarification on this part of that clause please: "... but only to an amount not exceeding three times the total amount of the relevant specific contract ...".</p> <p>Does the "specific contract" refer to the totality of the framework contract value of 15 Million Euro, or does a "specific contract" refer to projects within the framework contract - if we exclude "gross negligence and wilful misconduct"?</p>	<p>24/05/2017 The cap on liability refers to the amount OF THE RELEVANT SPECIFIC CONTRACT. As referred to in the tender specifications, the framework contract is implemented by individual successive specific contracts (see section 2.7 of the tender specifications). It is not intended to sign only one specific contract amounting to EUR 15 million. In case of gross negligence or wilful misconduct the contractor is liable for the whole amount of the damage or loss.</p>

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27	24/05/2017 08:31	24/05/2017 13:08	Annex V A3 Financial Offer, software	Is it allowed to add a column to provide more details? misconduct"?	24/05/2017 No modification is allowed as to the set template, except the insertion of prices where defined at the dedicated fields and of the name of the tenderer, the authorised signatory, date and signature. In case you see an indispensable need to further explain your financial offer, please submit an additional document making a clear and unambiguous reference to the item/s to be clarified. This shall, however, not result in any modification of the set structure/requirements of the template Annex V.

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28	24/05/2017 13:50	24/05/2017 17:02	Original signatures	<p>The original signed technical proposal:</p> <p>(i) needs to be signed in all pages or just the cover and some others?</p> <p>(ii) In the case of consortia, will the consortium leader legal representative signature be sufficient?</p>	<p>24/05/2017</p> <p>(i)The Technical and Financial Offer as well as any Annex to be submitted shall be signed by the authorised signatory of the tenderer. It is not requested to initial every single page. The tenderer, however, has to ensure that any copy shall be in full identical to the original.</p> <p>(ii)It is sufficient that the technical proposal is signed by the authorised signatory of the leader representing the consortium. All the other documents to be provided per consortium member pursuant to the tender specifications (such as e.g. the declaration of honour etc., see section 1.5) shall be signed by the authorised signatory of the respective consortium member.</p>

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29	24/05/2017 13:51	24/05/2017 17:06	Subcontractors rate declaration	The excel spreadsheet template for the budget does not include any field for providing subcontracting costs, in this case, how should we declare its expected cost in the financial offer (Envelope C)? Or, should we assume the rate calculation should already consider the potential subcontractor cost?	24/05/2017 The respective rates shall be all-inclusive, i.e. contain any potential costs, including the one(s) for subcontracting. The Agency will not accept any additional costs. Please take into account especially section 3.3.2 (Assessment of Price) of the tender specifications, containing information on the financial evaluation as well as instructions as to the financial offer.

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#	Submission date	Publication date	Question subject	Question	Answer
30	24/05/2017 12:46	29/05/2017 11:46	Eligibility	Regarding section 1.4 of the tender specifications – Eligibility: How are EASA perceiving bids made by UK entities and the UK's future involvement in the EU? This question is also relevant to other sections and elements specifically asking for services, data hosting etc. to be within the EU.	<p>29/05/2017 As per section 1.4 of the tender specifications, this “procurement procedure is open to any natural or legal person wishing to bid for the assignment and established in any of the European Union Member States, Norway, Iceland, Liechtenstein or Switzerland.”</p> <p>The eligibility of tenderers registered in the United Kingdom remains unchanged until the cessation of the UK membership in the European Union has been legally enforced and no correspondent agreement with the European Union has been concluded or respective alternative option found.</p> <p>In any case, all services, allocated servers, primary and back-up data centres, disaster recovery site etc. as requested per the tender specifications need to be within the EU during the entire contract duration (see e.g. sections 2.2.1, 2.3, 2.4.4, 2.7.6, 3.2.3 as well as Annex IV.e).</p> <p>Please take also note of the applicability of EU law (see e.g. sections 2.3.2, 2.3.3, 2.7.7.6.1, 2.7.7.6.3 of the tender specifications and Article I.11.1 of the draft framework contract) as well as section 2.3.9 with regard to missions.</p>

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					2.3.9 with regard to missions.
31	25/05/2017 17:43	01/06/2017 13:47	2.1.2 General Principles	The scope and associated resources will be limited for this first phase of test." We understand this phase is referring the three years, and the estimation must include setup of the platform and support to the development of the use cases, but not the use cases development itself. Is that correct?	01/06/2017 During the Proof of Concept (PoC) phase the number of programme members will be limited as well as the scope of the use cases, but the contractor is expected to fully support the implementation of the use cases selected for the PoC phase.
32	25/05/2017 17:44	01/06/2017 13:51	2.1.2 General Principles	Even though the Project Management is included in WP#0, it will be also estimated at WP#2 level, including a PMO for IT Infrastructure project?	01/06/2017 Project Management in WP#0 refers to the project management of the overall programme, whereas WP#2 contains also project management, but specific to the IT platform which is expected to be delivered by the successful tenderer. In this respect, please refer also to the selection criterion n°. 2 in section 3.2.3 / Annex VI. and the award criterion n°. 5 in section 3.3.1.

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#	Submission date	Publication date	Question subject	Question	Answer
33	25/05/2017 17:45	01/06/2017 13:52	2.1.5 Interactions between different stakeholders	<ul style="list-style-type: none"> - Included in the scope only the "DPPO Big Data Platform" but none of the others. - Missed 'Task Teams' description 	<p>01/06/2017 The programme will function with Task Teams in charge of Case Studies. The Task Teams will gather experts from the DPPO, the data scientist/analyst team and the programme members (aviation experts). These teams are launched by the Technical Board and report to this Board.</p>
34	25/05/2017 17:45	01/06/2017 14:06	2.7.5 Volume of the contract	We understand there is a maximum of 15 million euros specifically for WP2 (not for the complete PoC including other Work Packages). Is that correct?	<p>01/06/2017 This is correct. Please note that this is the estimated maximum and please refer also to section 2.7 of the tender specifications and especially the parts mentioned under the paragraphs "Important Note".</p>
35	25/05/2017 17:46	01/06/2017 14:14	2.1.3 Data Scope	We're considering the configuration of source data ingestion out of the scope of WP2. Is that correct?	<p>01/06/2017 No. Please refer to the answer given to question n°. 23 and section 2.5.1 of the tender specifications.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
36	26/05/2017 15:12	01/06/2017 14:15	Timetable	Regarding the Opening Session that is intended to be held in 19/06/2017, can you please expand on what this is?	01/06/2017 At the dedicated Opening Session, the Opening Committee will verify that the tenders submitted comply with the time limit for receipt and that they were received closed (in sealed envelopes), i.e. that their integrity and confidentiality were preserved. The parcels found in order/in compliance with the above will then be opened by the members of the Opening Committee. The Evaluation of the offers submitted will take place in separate evaluation sessions which are not open to the public.
37	29/05/2017 16:43	01/06/2017 14:16	Big Data Software pricing	We find it very hard to define a yearly pricing for the various categories of the Cloud infrastructure (A.2) and Big Data Software (A.3) parts without more detailed indications of volume. The figures provided in the call for tenders are highly insufficient to build a yearly pricing that is binding. Some additional figures would be highly appreciated.	01/06/2017 Tab B in "Annex V – Financial Offer – Scenario" contains an indication on the quantities possibly requested for one year. Within Tab A.2, the MONTHLY price shall be indicated, in Tab A.3 the YEARLY price. Further, the tender specifications contain indications as to the requested volume (see for example section 2.1.3 on the data scope or section 2.7.5 on the volume of the contract).

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#	Submission date	Publication date	Question subject	Question	Answer
38	30/05/2017 12:51	01/06/2017 14:17	Section 2.1.3 of the Tender Specifications: Data Scope	Regarding the Data Types section you discuss Safety Issues Occurrence Records - can you please be specific what these are? What sort of format do they come in?	01/06/2017 Accident and incident reports in aviation as collected in the European Central Repository (ECR). The format will be set at a later stage.
39	31/05/2017 17:40	01/06/2017 14:27	Infrastructure platform - volume on prem	Could you please provide more insights (volume) on the workloads to be run on the Physical dedicated server? Looking at the considerable sizing of the environment.	01/06/2017 Please refer to Annex V, tab A.2 containing information as to the technical configuration of the physical server. The respective volumes will be specified at the level of specific contracts.
40	31/05/2017 17:40	01/06/2017 14:29	Data volume	While the total data volume runs around 30TB a year, could an indication be given how this translates to the different environments proposed in your initial reference architecture: a. Average daily ingest, arriving in the landing zone b. Average daily ingest, moving to the VPC c. Average dataset size used for analytical workloads d. Average frequency of events pushed	01/06/2017 a.-d.: The repartition of the data volumes will depend on the final data architecture solution and the attributes of the respective specific contracts.

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#	Submission date	Publication date	Question subject	Question	Answer
41	31/05/2017 17:41	01/06/2017 14:42	Infrastructure platform - end state	<p>Could you please provide a view on the end state?</p> <p>a. Total amount of users (Data scientists/Data engineers/ Business analysts/ Report consumers/ External consumers)</p> <p>b. Expected future total amount of data to be ingested</p>	<p>01/06/2017</p> <p>a. The exact number will vary and will be defined during the PoC through the respective specific contracts. As a rough estimation the max. number of simultaneous access users should not go above 50.</p> <p>b. Please refer to section 2.1.3 of the tender specifications.</p>
42	31/05/2017 17:41	01/06/2017 14:43	Data retention needs	<p>Could a view be given on the data retention regulation and needs, with regards to archiving and the needed functionality on archived data.</p> <p>a. What percentages of the data could be archived each year?</p> <p>b. What is the needed functionality and availability on the archived dataset?</p>	<p>01/06/2017</p> <p>a. All data collected during the PoC shall be archived, except if specified differently in the Data Sharing and Protection Agreement (DSPA).</p> <p>b. Please refer to section 2.4.4 of the tender specifications.</p>
43	31/05/2017 17:42	01/06/2017 14:44	Infrastructure platform - technology preference	<p>What are the current technologies and coding languages used at EASA (R/Python/Scala/Java/.Net/...)?</p> <p>Could you please indicate the ones relevant to you and list them in order of preference?</p>	<p>01/06/2017</p> <p>For this programme no technologies or coding languages have been defined so far.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
44	31/05/2017 17:43	01/06/2017 14:46	Data arrival and processing workloads	<p>Could a view be given on the timings around data arrival and processing workloads.</p> <p>a. Are the workloads consolidated and batch oriented (%) b. Are the workloads near realtime(%) c. Is it Hub-and-Spoke pattern (via a dedicated hub) or direct (P2P) data transmission capabilities also desirable?</p>	<p>01/06/2017</p> <p>a. These questions shall most likely be part of the first specific contracts. b. Realtime is not targeted for the first phase of the PoC. c. These questions shall most likely be part of the first specific contracts.</p>
45	31/05/2017 17:53	01/06/2017 14:48	VIRTUAL PRIVATE CLOUD	<p>When using the cloud term VIRTUAL PRIVATE CLOUD “VPC” in this call are you referring to the concept or to a specific cloud provider technology solution?</p>	<p>01/06/2017</p> <p>We refer to the concept.</p>
46	31/05/2017 17:57	01/06/2017 14:50	Appendix .xls protected , need password	<p>Can you provide your file.xls (Appendix V financials offer scenario (3) without pw so we can respond in it?</p>	<p>01/06/2017</p> <p>Annex V, tab B is a Scenario. The tenderers shall not modify anything in this tab B since it is updated automatically once you insert the mandatory fields in tabs A.1, A.2 and A.3. Please refer also to section 3.3.2 of the tender specifications: Part B – Scenario is derived from the prices presented in Parts A.1 , A.2, and A.3.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
47	31/05/2017 18:14	01/06/2017 14:53	HW Evolution (financial offer)	In case of new Hardware needs, not already mentioned in the price sheet, required to support specific requirements during contract, will we be able to reflect this new HW price via a specific contract or is it capped through the price sheet (we are not sure to understand correctly the §II.19.2 & §II.19.6 of the Framework Contract)? Please provide guidance.	01/06/2017 Under certain circumstances the Agency might consider the introduction of new hardware under a specific contract. Please refer also to the answer given to question n°. 27.
48	31/05/2017 18:15	01/06/2017 14:55	Air Safety Report retrieval.	In the metrics use case (§2.5.1.a), is mentioned the possibility to either get the safety report from the different airlines or from the ECR. Is it safe to assume that, during this PoC contract, all ASR reports will be retrievable from ECR?	01/06/2017 Yes. Please refer to the answer given to question n°. 38.

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#	Submission date	Publication date	Question subject	Question	Answer
49	31/05/2017 18:17	01/06/2017 14:55	Blind-benchmarking (§2.5.1.b)	“The blind-benchmarking aims at providing the programme members with the capacity to autonomously visualise their data versus the data from their peers through the development and management of a web portal.” It is understood that the blind-benchmarking performed by an airline would only allow to benchmark D4S predefined SPIs (SPIs proposed in the frame of this D4S PoC), comparing the airline SPI values to the globally aggregated SPI value computed for all airlines. It is not envisaged that an airline can benchmark against any data or attribute collected from FDM. Do you confirm?	01/06/2017 Your interpretation of the use of the SPIs for the blind-benchmarking is correct. However, those SPIs might be computed using different sources of data including FDM data.
50	31/05/2017 18:22	01/06/2017 14:56	Business Continuity (BC)/Disaster Recovery (RC) services (§2.4.4)	Last sentence mentions a RPO of “one day (8 hours)”. Should we understand that it is expected that data is ingested by the platform only during opening hours, CEST? Is there any particular reason for not wanting to ingest data during non opening hours?	01/06/2017 Data collection and processing may happen 24/7. Consequently, data loss must be limited to 8 hours of activity. Please disregard the mentioning of “one day”.

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#	Submission date	Publication date	Question subject	Question	Answer
51	31/05/2017 19:06	01/06/2017 14:57	FDM data	Regarding the FDM data during the implementation of the contract: a. Does the data de-identification layer cope with RAW FDM data (binary files) provided by participating airlines? Or b. Are this data previously processed by airlines?	01/06/2017 The de-identification process to be used under the PoC is still under definition. The nature and the level of readiness of the FDM data to be de-identified will be set at the level of specific contracts.
52	01/06/2017 09:38	01/06/2017 14:58	Technical platform	What is your OS of choice, if any, for the on-premise dedicated server? If Linux, do you have a preferred distro?	01/06/2017 EASA has no preference at this stage.
53	01/06/2017 18:59	02/06/2017 14:38	Cloud infrastructure price sheet	The telecom services cost does not generally depend only on the bandwidth, but as well on the address of its termination points. Is it possible for the Agency to provide an indicative lists of addresses for Leased Lines and MPLS requested services ?	02/06/2017 The Agency cannot provide a concrete answer at this stage. Please note however, that as a pure, non-binding indication, the following locations might become relevant (non-exhaustive list): Germany, France, UK, Ireland, Spain, Belgium, USA.
54	01/06/2017 19:15	02/06/2017 14:39	§2.3 presenting the critical factors for the provision of Big Data/ IT services characterizes the IT Infrastructure Provider as "independent, third-party".	From which other parties should the IT Infrastructure Provider be independent from? Do the first two parties refer to ESEA and the Data Owners ?	02/06/2017 Yes, EASA and the data owners.

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#	Submission date	Publication date	Question subject	Question	Answer
55	01/06/2017 19:20	02/06/2017 14:40	Chapter 2.7.7.6.3 presents general security requirements as part of contractors 'obligations. It refers to "Agency's internal rules and policy".	Could the Agency share its current internal security rules and policy with candidates (or provide clues) to understand their precise scope and purpose?	02/06/2017 No, this is an internal document. As stated in section 2.7.7.6.3, §2 this applies to the selected contractor working at the Agency's premises and shall be provided to them upon their arrival at the Agency.
56	01/06/2017 19:22	02/06/2017 14:41	Chapter 2.7.7.6.3 refers to EASA Director Decision 2001-27 of 19 December 2011 (sic). Internet Inquiry in EASA Portal does not seem to contain such a reference in 2011.	Is it possible for the EASA to precise the content of the referenced decision, in so far it differs from EC No 45/2001 ?	02/06/2017 The selected contractor shall be provided with the respective information.
57	02/06/2017 10:09	02/06/2017 14:45	Tender Specifications, section 3.2.3 "Technical and Professional Capacity", criterion 1. d)	The Tenderer is requested to "demonstrate an active (continuous) cooperation with their proposed elastic cloud provider of at least one year" by providing "a copy of the letter of undertaking with these providers". This is ambiguous : why a copy ? Why the plural for "these providers" ? Please clarify.	02/06/2017 The tenderer is requested so submit a copy, not necessarily an original. Please disregard the plural. A letter from one provider is sufficient.

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#	Submission date	Publication date	Question subject	Question	Answer
58	02/06/2017 10:28	02/06/2017 14:48	Pricing, definition of the first specific request and execution	The price components structure represents a significant risks for the provider if ordered separately. In particular as the different software modules will not start simultaneously. Could you please explain how the EASA intends to constitute the first and subsequent requests for proposal ?	02/06/2017 This will be defined for the first and subsequent specific contracts.
59	02/06/2017 10:31	02/06/2017 14:51	Draft Contract	We kindly ask that the Government provide some clarifications on the draft contract: 1. Re Section I.1 (g) – please confirm what you mean by “specific tender”. Is the intention that the terms/pricing in your request for services supersedes the terms and pricing offered in the tender at Annex (II)? 2. Re Section I.18.2 (last sentence) – please confirm what you mean by “hosted equipment”. Is this the cloud hosting service? 3. Re II.1 (Specific contract) – do you envision the provision of maintenance services as outside of the remit of this framework contract?	02/06/2017 1.No. “Specific tender” in Art. I.1. (g) of the draft framework contract refers to the reply (offer) to a request for services for a specific contract. Please see also section 2.7.2.1 of the tender specifications, paragraph “Request for services”. 2. Yes. 3.No. Maintenance shall be part of the service. The details of the services shall be specified in a Specific Contract. Maintenance does not necessarily need to be further specified, as it is standard.

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#	Submission date	Publication date	Question subject	Question	Answer
60	02/06/2017 10:33	02/06/2017 14:53	Data Volume Page 12 of the tender Specification	You mention that the total volume to start with is 30 TB/year but the amount of fast and slow storage in the pricing scenario is not higher than 11 TB. The expected initial volume is important to know in order to calculate possible price reduction. Could you please clarify ?	02/06/2017 Not all data to be collected will need to be stored on fast storage volumes. Depending on the needs, the volume might evolve during the contract implementation. Tab B within Annex V is just a Scenario for evaluation purposes.
61	02/06/2017 10:34	02/06/2017 14:55	Data retention policies	What are the data retention policies ? How long should the raw data be stored ?	02/06/2017 Please refer to the answer given to question n°. 42.
62	02/06/2017 10:35	02/06/2017 14:55	Structured vs unstructured data	Could you please provide a ratio between structured and unstructured data ?	02/06/2017 At this stage such a ratio cannot be provided. The tenderer shall foresee an evolution of this ratio during the PoC.
63	02/06/2017 10:37	02/06/2017 14:56	Data Volume	We understand that the initial volume is 30 TBytes. Could please provide figured regarding the evolution of this data volume over the 3 (+1 eventually) of the project ?	02/06/2017 The volume of data to be added to the initial 30 TB is 30 TB per year.

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#	Submission date	Publication date	Question subject	Question	Answer
64	02/06/2017 10:38	02/06/2017 14:57	Data type	Which kind of data do you expect to store into an SQL database (only used to store processed data in datamarts used in the reporting/basic analytics layer or also used for data sciences and other deeper analytics context) ? If SQL database is used for deeper analytics, out of the 30 TB, how much data is expected to be stored into an SQL data base ?	02/06/2017 Only a small proportion of the 30 TB of annual data will be considered for storage in SQL data bases. These data will be mainly the result of processing or computations performed on the aviation safety data.
65	02/06/2017 10:38	02/06/2017 14:58	Data lifecycle	Can you describe the complete data lifecycle and the associated data volumes (for example, this type of data representing this volume will first be copied into a landing zone, then decoded (for raw data) and copied into a repository, then, it will be moved to hadoop for analysis, then results will be generated and copied into datamarts, ...) ?	02/06/2017 The definition of the detailed data lifecycle will be part of the implementation of the framework contract.
66	02/06/2017 10:40	02/06/2017 14:59	Data flow	How frequently will data be delivered by the Airlines ?	02/06/2017 This yet needs to be defined, however, realtime delivery is not targeted in the initial phase.
67	02/06/2017 10:40	02/06/2017 15:00	Team composition	How many data scientists will be working on the PoC ?	02/06/2017 At this stage, the number of data scientists is not set.

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#	Submission date	Publication date	Question subject	Question	Answer
68	02/06/2017 10:41	02/06/2017 15:01	Team composition	How many users should have access to the dashboarding/reporting portal ?	02/06/2017 Please refer to the answer given to question n°. 41.
69	02/06/2017 10:42	02/06/2017 15:03	Text analytics data volume	The RFP text mentions NLP, ... ? Is text analytics and Natural Language Processing (NLP)going to be performed on large volumes of data ? If yes, do you have an estimation ?	02/06/2017 No. The NLP technologies will be applied to high added value text data, with limited volumes.
70	02/06/2017 10:43	02/06/2017 15:04	Data Streaming	The text mentions Data streaming at point 2.4.2 but not in the functional architecture at point 2.1.6. Could you describe how data streaming will be used, for which kind of data, to perform which actions/controls/validations, in which volume .. ?	02/06/2017 Data streaming is listed under section 2.4.2 as one potential option only.
71	02/06/2017 10:44	02/06/2017 15:04	Tab A.2 of the pricing spreadsheet	Physical server with 128 cores: are these CPU Cores of vCores ? (line 15)	02/06/2017 CPU Cores.

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#	Submission date	Publication date	Question subject	Question	Answer
72	02/06/2017 11:19	02/06/2017 15:07	Clarification of the price components to quote in Annex V A.3	<p>Could you please clarify, what has to be quote for each row of the software list :μ</p> <ul style="list-style-type: none"> - Hadoop distribution & components: which components have to be considered ? - Big data processing: Could you please clarify the level of processing required ? - Data streaming: Could you please describe the sources, transmission mode and frequencies ? - Data transfer: Could you please describe the sources, transmission mode and frequencies ? - Metadata management: Could you please specify the catalogs, dictionaries, and taxonomies to be used ? - Cluster resource management: Could you specify how many cluster have to be managed ? - Machine learning libraries: Could you please specify which libraries ? Or, do we need to quote all MLL listed in the tender specification (MLlib, Mahout, Scikit-learn, Caffé, ...) - Deep learning libraries: Could you please specify which libraries ? - Multi-user BI & Visualisation: Could you please specify which tools (the price will vary significantly if an OS software (Giraph) is sufficient or a COTS (TABLEAU) is required ? 	<p>02/06/2017</p> <p>The solutions are expected to be provided by the tenderers.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
				<p>COTS (TABLEAU) is required ?</p> <ul style="list-style-type: none">- Graph databases: Could you please specify which database ?- Real-time search: Could you please specify which search engine ?- Real-time query: SQL / NoSQL Database : Could you please specify which search Database ?- NLP libraries : Could you please specify which NLP librairies needed to be quoted ?- Text Analytics: Could you please specify the analytical use case ?- Big data Security: Could you please specify the required security level and granularity ?	

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#	Submission date	Publication date	Question subject	Question	Answer
73	24/05/2017 20:10	06/06/2017 14:02	Intellectual property rights pertaining to COTS solutions	<p>Given the Agency's response that it will consider a COTS solution, but will not adjust the terms and conditions around intellectual property, please confirm the intended position under the draft contract in relation to IP ownership and licensing:</p> <ol style="list-style-type: none"> 1. Who acquires the ownership of the results and gets a license to the pre-existing materials? Is it EASA ("Agency" or "contracting authority" as suggested by Articles 13.1 and 13.2 in Part 1) or the European Union as a whole including all its other agencies ("Union" as suggested by Article 23.1 and 23.2 in Part II). 2. Please explain exactly what rights will the Agency or Union acquire and what rights it will get a license to in relation to pre-existing materials. 3. Please confirm whether "results" under the FWC includes pre-existing materials. Do you expect to acquire all the exclusive rights in Art II.23.3 in relation to pre-existing materials? We note that the pre-existing rights are licensed on a non-exclusive basis for the modes of exploitation set out in Art I.13.1 (Art II 23.2), but then the penultimate paragraph of 	<p>06/06/2017</p> <p>1.It is EASA (also referred to as "the Agency" or "the contracting authority"). Please also take note of the hierarchy of the Special and General Conditions (see Article I.1 (a) of the Draft Framework Contract).</p> <p>2.The respective rights are as laid down in the Draft Framework Contract, please see especially Art. II.23.3.</p> <p>Further please refer to the answers given to questions n°. 19 and 20.</p> <p>3.As per Art. I.13.2 of the draft framework contract all pre-existing rights in pre-existing materials incorporated in the results, if any, are licensed to the Agency.</p> <p>4.Please refer to the answer provided to question n° 19, in particular Art. II.23.3 (I) of the draft framework contract. Such rights are acquired only when pre-existing materials are incorporated in the results.</p> <p>5.What was meant is: the licenced rights are restricted to those which are necessary for the specific mode of exploitation and do not go beyond it.</p>

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#	Submission date	Publication date	Question subject	Question	Answer
				<p>then the penultimate paragraph of Art II 23.3 requests a warranty in relation to all of the exclusive rights in relation to pre-existing materials.</p> <p>4. Do you expect to acquire the right to compile or disassemble the software contained in pre-existing materials (Art II.23.3(I)(ii)) and to have access to the source code in pre-existing materials (Art I.13.1(f) looking at fourth bullet point under mode of exploitation (e) and (b) to some extent)?</p> <p>5. Please explain what you mean by the right to sub-license the mode of exploitation but "not the software as such" as referenced in your answer to question 19.</p>	
74	25/05/2017 17:46	06/06/2017 14:05	2.7.7.6.2 Copyright	<p>(i) Is it mandatory that 100% of the products suggested would be open source and/or property of AESA at the end of the contract?</p> <p>(ii) Would it be acceptable any commercial product?</p> <p>(iii) Is the intellectual property also including the source code of the products included in the architecture?</p>	<p>06/06/2017</p> <p>(i) Open source is not mandatory. With regard to property rights, please refer to the answer given to question n°. 73.</p> <p>(ii) Yes.</p> <p>(iii) Please refer to the answer given to question n°. 73.</p>

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