|  |  |  |
| --- | --- | --- |
|  | |  |
| Grant Agreement Number: 825030 | | |
| **QU4LITY Open Call 2** | | |
| Full Title of your proposal  Acronym of your proposal (optional) | | |
| Main target of proposal | “TYPE A” or “TYPE B” | |
| Date of preparation of your proposal: | dd/mm/2021 | |
| Version number (optional): |  | |
| QU4LITY Topic addressed | Topic | |
| Your organization(s) name(s): | Your organization(s) name(s) | |
| Name of the coordinating person: | Name of the coordinating person | |
| Coordinator telephone number: | Coordinator telephone number | |
| Coordinator email:  [This is the email address to which the Acknowledgment of receipt will be sent] | Coordinator email | |

Note: Grey highlighted areas need to be filled

Statistical Information for the European Commission`s Initiative

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1**  **Participant (Organisation name)** | **2**  **Participant short name** | **3**  **Country** | **4**  **Type**  **(SME /MID )** | **5**  **First time EU project?**  **(Y/N)** | **6**  **PIC number** | **7**  **Total cost** | | **8**  **Requested funding**  **(max 70% of the total** | |
|  |  |  |  |  |  |  | |  | |
| **TOTAL** | | | | | | |  | |  | |

**Instruction**

**[Please delete these instructions in the submitted version]**

1. Participant: Insert the name of the organisation.
2. Participant short name
3. Country: Insert the 2-letter country code (using the Eurostat country codes: <http://ec.europa.eu/eurostat/statistics-explained/index.php/Glossary:Country_codes>).
4. Type: Insert
   1. SME for an SME,
   2. MID for a mid-cap enterprise,
5. Fill in Y if this would be the first European project for that partner, N otherwise.
6. Provide the PIC number here if available.
7. Specify the total costs in Euros (0 decimal places)
8. Specify the requested funding in Euros (0 decimal places[[1]](#footnote-1)). Winners will receive maximum 70% funding of the eligible costs presented in the proposal. The maximum contribution is:

* **Type A**:
* **EUR 72,500.00** for single applicant
* **EUR 100,000.00** for a consortium of 2 participants, with a maximum of **EUR 60,000.00** for participant.
* **Type B**:
* **EUR 72,500** for single applicant

Summary

(Suggested: 0.5 pages)

Concept and innovation

(Suggested: 2,5 pages)

*Instruction*

**[Please delete these instructions in the submitted version]**

*This section should explain how the proposal addresses the concept of Autonomous Quality proposed by the project, the topic, for type A, or the challenge, for type B, addressed, enablers to be used and the innovation introduced by the applicant with its new pilot for type A, or application for type B.*

**Indicate clearly for which type you apply:**

***TYPE A: New Autonomous Quality Pilot***

*Calls for new autonomous quality pilots using the QUALITY digital platforms, open APIs and/or their own technologies and enablers. The calls will invite candidates to propose novel pilots that align to the QU4LITY autonomous quality concept, notably pilots that implement features and functionalities that are not available as part of the large- scale pilots of the consortium partners.*

*Please, specify which topic you address and the alignment of your proposal to the topic:*

*Topics*

* *Topic A1: Data Driven AI for pattern recognition in Zero Defect Manufacturing for high performance product*
* *Topic A2: Data Driven AI in Human Machine Collaboration for Zero Defect manufacturing*
* *Topic A3: Integration of Data driven inline Autonomous Quality in solutions for Zero Defect Manufacturing*
* *Topic A4: Edge and/or real time solutions for Zero defect Manufacturing*
* *Topic A5: Ensuring Quality Management in supply chain trough blockchain based technologies.*
* *Topic A5: Ensuring Quality Management in supply chain trough blockchain based technologies.*
* *Topic A6 Integrating ZDM solutions in Mass Customization and Lot Size One Manufacturing processes*

***TYPE B: Expansion of QU4LITY pilot systems***

*The objective of the TYPE B call is to expand the scope of existing digital platforms and pilots with new functionalities and features and address one or more challenges posed by Qu4lity pilots. The SMEs selected for funding will be given the opportunity to validate their solutions in the project’s experimental infrastructures and testbeds.*

*Specify how you intend to address the challenge raised by the pilot lead by Whirlpool*

*The challenge faced by the pilot that should be addressed by the applicant is related with the absence on the market of a graphical editor tool allowing industrial engineers to:*

*• Edit the functional model of a system of components and store the result of the graph in a machine readable format. The graph consist in two type of elements: materials and external entities (represented by rectangles and hexagons) and functions, represented by named arrows.*

*• Edit the Process Map of a production system using IDEF-0 or other suitable standard representations*

*• Associate each Function mapped with a specific process step*

*• Define a set of Quality performances and associate them to a set of components, functions, process.*

Industrial relevance, potential impact and exploitation plans

(Suggested: 3 pages)

Instruction

**[Please delete these instructions in the submitted version]**

*This section should describe the industrial relevance of the pilot for the manufacturing industry, its contribution to meet QU4LITY’s goals and objectives, how the proposal will contribute to expanded the QU4LITY ecosystem and broadening the solutions QU4LITY portfolio in the market platform: Proposers should describe their solution and how it will be made available through the QU4LITY market platform and Virtualized Innovation Hub.*

Description of the workplan

(Suggested: 2 pages)

Instruction

**[Please delete these instructions in the submitted version]**

*This section should include a Gantt and a detailed planification of the development and demonstration activities Funded third parties will be requested to submit several mandatory deliverables to demonstrate the reached maturity level according to Table 1. Please design your workplan accordingly. Applicants are free to issue more deliverables if needed.*

|  |  |  |  |
| --- | --- | --- | --- |
| *Status of development* | *Timing* | *TYPE A*  *Deliverables* | *TYPE B*  *Deliverables* |
| *Pilot Maturity Level 1* | *M2* | * *Proof of concept* * *Alignment with the reference architecture* * *Alignment with the Qu4lity Autonomous Quality concept* * *M2 cost statement* | * *Proof of concept* * *Alignment with the Qu4lity Autonomous Quality concept* * *Integration strategy in the reference pilot* * *M2 cost statement* |
| *Pilot Maturity Level 2* | *M7* | * *Complete development of the pilot* * *Demo and dissemination material (video, ppt)* * *Participation to demo event organized by the consortium* | * *Complete development and integration in the Q of the pilot* * *Demo and dissemination material (video, ppt)* * *Participation to demo event organized by the consortium* |
| *Pilot Maturity Level 3* | *M9* | * *Business model* * *Integration in the Quality marketplace* * *Business Plan* * *M9 cost statement* | * *Business model* * *Integration in the Quality marketplace* * *Business Plan* * *M9 report* |

*Table 1 - Pilots Maturity level*

|  |
| --- |
| **Workpackage 1** |
| **Description:**  **Goals** |
| **Task 1.1 Task name**  Task description.  ***Deliverable****: Deliverable short description (Experiment Month nn (i.e. within months 1 to 9 of the experiment))* |
| **Impact and Outputs**  *(Output = concrete results from the experiments, such as, but not limited to, application release, business case, analyses/reports of the experiment, validation report.*  *Impact = explanation of the use of project results and the related business impact, enhanced capabilities or potential for service offerings, etc.)* |
| **Efforts (PM):** |

PM = Person Months

Background and qualification

(Suggested: 1 pages)

Instruction

**[Please delete these instructions in the submitted version]**

*This section describes the proposer and its qualifications, technical expertise and other information, including CVs, previous projects and relevant publications, to allow the reviewers to judge the proposer’s ability to design and implement the pilot.*

Justification of costs and resources

(Guideline: 1 page)

Instruction

**[Please delete these instructions in the submitted version]**

*Please include a short description of how the resources will be allocated.*

|  |  |  |
| --- | --- | --- |
|  | **Total PM** | **Cost (**€**)** |
| 1. Direct Personnel costs |  |  |
| 2. Other direct costs[[2]](#footnote-2) | |  |
| 3.Total direct costs (sum of row 1 and row 2) | |  |
| 4. Indirect costs[[3]](#footnote-3) (25% of row 3) | |  |
| 5. Total costs (sum of row 3 and row 4) | |  |
| 6. Requested funding[[4]](#footnote-4) | |  |

List of figures

List of tables

References

1. i.e. rounded to the nearest Euro [↑](#footnote-ref-1)
2. Costs for experimental facilities of the applicants, if any, are included in “Other direct costs”.

   Costs for subcontracting and other direct costs, such as travel, equipment, need to be clearly explained. [↑](#footnote-ref-2)
3. Indirect costs are to be calculated as 25% of direct costs (i.e. personnel costs + other direct costs). [↑](#footnote-ref-3)
4. Funding rate 70% of eligible costs, max contribution Type A: EUR 72,500.00 for single applicant, EUR 100,000.00 for a consortium of 2 participants, with a maximum of EUR 60,000.00 for participant. Type B: EUR 72,500 for single applicant [↑](#footnote-ref-4)