**ZDMP: Zero Defects Manufacturing Platform**

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| Open Call Proposal Template – Call 1 |
| [Proposal Title] |
| |  | | --- | | **Partners:** [Full Name 1, Acronym 1] [Optional: Full Name 2, Acronym 2] | |  |   **Activity Area:** [Develop OR Integrate OR Validate] |
|  |
| **Date:** [YYYY-MM-DD] |
| **Proposal Abstract (Max 10 lines, 700 Characters)**  [Abstract] |
|  |



Grant Agreement: 825631

# Before you begin

|  |  |
| --- | --- |
| General Remarks to be taken in account before start to use the document | * Please complete this template, and when final create a PDF and upload it to the F6S submission system. All fields are mandatory unless otherwise stated * If the proposal is not conformant with requirements it will be REJECTED IN ITS ENTIRETY; specifically: * The total size of the submission MUST NOT exceed 14 pages (15 pages if optional Task 6 is included). This limit includes ALL pages – for example, the front/end cover * Similarly, you MUST NOT abuse the formatting – eg but specially the font used MUST be “Arial” (not Arial Narrow etc), the font size must be 10, the line spacing 1 (ie normal), the margins minimum 15mm, footers and headers should not be resized and do not change the embedded permanent headers/subheader text nor Tasks grids. Failure to comply can mean FULL REJECTION * There can be no additional inclusions such as annexes of any kind except for other documents that may have been requested such as the Ethics declaration * Whilst some sections are ‘tight’ in terms of the eg page limits, you should focus on those aspects which most represent, and are key to, your specific proposal * The parties can be either a) Single SME Applicants or b) Small Consortia of a maximum of two partners led by an SME. In the case of (b) the consortium must consist of either another SME or an academic/research partner or large organisation. Academic/research partners and large organisations must be in a clear supporting role only (eg. an SME manufacturing/supply chain company (lead) and a large technology provider; or an SME technology company (lead) and a large manufacturer) * You will find further useful submission support at: [www.zdmp.eu/submissionsupport](http://www.zdmp.eu/submissionsupport) * Carefully read the evaluation form for how the proposal will be assessed and also the weightings given to each element * Delete example/explanation content that is there (in GREY), fill in all relevant fields, and any fields marked ‘[…]’ should be overwritten with final content. Each major heading is designed to start on a new page * If a particular concept to describe is not relevant simply say so and if applicable justify * Remember that ZDMP is an innovation action, and not a research and innovation action so the expectation is more geared towards direct exploitability vs research |

# Applicant Organisation Details

## Main Applicant Organisation Details

|  |  |
| --- | --- |
| Organisation Type | SME |
| Prefix (Mr, Mrs…) |  |
| First Name |  |
| Last Name |  |
| Position at the Organization |  |
| E-mail |  |
| Organisation Name |  |
| Organisation Address |  |
| Organisation Country |  |
| Organisation Phone No. |  |
| Organisation Description (5 lines max) |  |
| 5 keywords to describe your domain |  |
| Website |  |
| Number of employees |  |
| Number of employees in RTD |  |
| Foundation Date |  |
| H2020 experience  (2-3 sentances only) |  |

## Optional Secondary Applicant Organisation Details

|  |  |
| --- | --- |
| Organisation Type | [Partner or Subcontractor - Delete as applicable. Note if a subcontractor they would only be for tertiary activities] |
| Prefix (Mr, Mrs…) |  |
| First Name |  |
| Last Name |  |
| Position at the Organization |  |
| E-mail |  |
| Organisation Name |  |
| Organisation Address |  |
| Organisation Country |  |
| Organisation Phone No. |  |
| Organisation Description (5 lines max) |  |
| 5 keywords to describe your domain |  |
| Website |  |
| Number of employees |  |
| Number of employees in RTD |  |
| Foundation Date |  |
| H2020 experience  (2-3 sentences only) |  |

# Sub-project Description

**Maximum 1 Page covering all content**

**General Description:**

Describe your project idea in more detail here, including applicability to zero-defect manufacturing, and the use of the components you intend on using.

Demonstrate to what extent the sub-project benefits you and ZDMP.

Describe what makes your sub-project stand out (eg approach, novel concepts and approaches, new products, services or business and organisational models etc).

**ZDMP Components Used (LIST only):**

Specifically list each ZDMP component(s) you will utilise in your project – eg “Data Harmonisation Designer, Service and Message Bus”

# Excellence

**Maximum 1 Page covering all content**

In this section, provide information on the objectives to be addressed, the innovation component of the product/service, its differentiation on which it leverages, and/or the benefits of validations. You should also demonstrate the soundness of the idea you are proposing and how collaboration and integration of different innovation actors fits in it.

**Objectives, Outcomes KPIs of the sub-project:**

Describe the objectives and outcomes of your project and how they align with ZDMP's project goals and outputs. Also state at least 5 main Key Performance Indicators (KPIs) that you are going to use to measure the performance of the sub-project or which at least two should be quantitative.

**The state-of-the-art:**

Please describe the current state-of-the-art for the domain/challenges your proposal addresses.

**Innovation:**

Whilst this might not apply to every submission, especially those proposing validation activity, please describe the innovative aspects of your sub-project. This may include :

* Novel application to Industry sectors,
* Integration of different technologies,
* Creating new components,
* Creative use/validation of existing ZDMP components/services,
* Creative application of new/cutting-edge technologies,
* Innovative contributions to standardisation
* innovative use of the Experimentation Facility...etc.

**Future potential:**

Describe the possibilities for future technical development and/or added value production beyond the lifespan of this project.

# Impact

**Maximum 2 Page covering all content**

In this section, demonstrate the impact of the sub-project across a range of areas, including the Industry 4.0 sector, the business model, and commercial strategy.

**Addressable Problem:**

Describe in detail how the sub-project addresses a real-world and/or relevant zero-defect manufacturing scenario.

**Sub-project Impact on the Industry 4.0 or related paradigm:**

Describe the anticipated impact your project outputs will have on any relevant or associated wider Industry4.0 areas. This could include, for example, impact on the use of IoT in manufacturing, cyber physical systems, data analytics...etc.

**Usability and Functionality:**

Describe the usefulness / usability / functionality of your sub-project outputs for ZDMP project partners and/or end-users.

**Market Potential:**

Describe the market potential of your product and the ease of transfer to the ZDMP Marketplace (where relevant). For validation sub-projects describe how the validation results could potentially help develop ZDMP components for market readiness.

**Competition and Exploitation:**

Describe how you plan to exploit your sub-project's output (exploitation strategy) and how it fits with your overall business strategy going forward. This includes differentiation, dissemination, business strategy, scalability, and/or future deployment of validated components in manufacturing scenarios.

# Implementation

Resources

**Maximum 2 Pages**

In this section, demonstrate your management and leadership qualities, for example your ability to take a concept from ideas to market and your capacity to carry through ideas and understand the dynamics of the market. To accomplish this, you have to transform those ideas into a technical implementation plan.

Thus, a set of tasks and deliverables needed for the project implementation has to be described. Additionally, if there are several entities involved (eg other partners or subcontracts), you should also show their balance and commitment within the sub-project.

**Resources description**

Describe the quality and suitability of the resources you will bring to this project, including your commitment to providing own resources and/or any additional funding that you intend to bring. This, which includes infrastructure, software, the availability of any necessary other equipment, and/or the necessary data etc. that you will need to achieve the sub-project’s objectives.

**Consortium description**

Demonstrate the skills and experience of your team (including consortium partners) that ensures you are able to deliver the sub-project outcomes on time and in full. This includes describing the suitability of the skills of the organisation/personnel involved in the proposal, including where relevant previous projects/grants, business maturity, management track record, publications…etc.

**Implementation Plan**

Provide an outline of the implementation plan / validation methodology you will use, explaining how you will realistically achieve and measure sub-project outputs. This should include an early indication of implementation timings, KPIs / metrics and specific sub-project tasks.

**IPR and Standards**

Describe the intended IPR intent for the sub-project output.

Where relevant, describe how the sub-project might contribute to industry and/or software standards within the context of the project and/or the wider Industry4.0 domain.

**Budget and cost justification**

Fill the following tables.

No extra text should be added to this subsection

Travel and consumables cannot be included and should be taken from the overhead or normal business expenses.

Equipment costs (including depreciation) should be included according to your normal accounting practices.

Indirect costs (overheads) could be up to 25% of the direct cost. Subcontracting is not included in indirect cost calculations.

| **Budget** | **Partner 1** | **Partner/Subcontractor 2** | **Total** |
| --- | --- | --- | --- |
| **Personnel Cost[[1]](#footnote-1)** |  |  |  |
| **Equipment Cost[[2]](#footnote-2)** |  |  |  |
| **Indirect Cost[[3]](#footnote-3)** |  |  |  |
| **Total Cost** |  |  |  |

Table 1: Budget and cost justification

| **Budget** | **Partner 1** | **Partner/Subcontractor 2** | **Total** |
| --- | --- | --- | --- |
| **Task 1: Requirements** |  |  |  |
| **Task 2: Set up** |  |  |  |
| **Task 3: Implementation** |  |  |  |
| **Task 4: Execution** |  |  |  |
| **Task 5: Impact** |  |  |  |
| **Task 6: Additional (Optional)** |  |  |  |
| **Total of Person Months** |  |  |  |

Table 2: Person Months per Task/Partner

Work Breakdown Structure

**Maximum 5 Pages covering all content for Task1-5; if the optional Task6 is included an additional page is allowed**

Structure:

* Each Task description is composed of a similar table (Task and deliverable description) **and must not exceed one page** for each task **including** the static text/format of the template. Do not change the tabular template. The descriptions will thus be between around 1/3 and 1/2 page per task
* You do not need to exactly balance the tasks to be equal size; the person months should represent just the work involved
* To keep the proposal efficient and easy for the submitters, evaluators, and later assessment, the ZDMP proposal template is mandatorily fixed in terms of the tasks AND the nature of the tasks. You need to fit your proposal around it. The fixed statements are shown in the “lighter red “colour of the tables below. So, for example, Task 1 is predefined as “Requirements”, the Task Title is fixed and cannot be changed in scope, similarly the task’s duration is fixed, and naturally the Lead partner for this specific task (and most tasks) would be the primary beneficiary SME
* There is then the necessity of defining and augmenting this information via the ‘white’ boxes but -importantly- such texts should not “break” the scopes defined in the light red boxes. So, for example for the Requirements Tasks – the tasks duration cannot exceed Month 2
* In terms of duration, then obviously outputs can in practice be delivered earlier but not later. Similarly, tasks can start earlier if necessary. Project durations are -ALWAYS- 9 months regardless of if you finish, or could finish, earlier
* Project management as a whole and on each task, as well as technical management, is not explicitly itemised and expected to be included in the general activity of each task. The project as a whole must be lead and organised by the Primary SME (Partner)
* If Task 6 is not needed please remove this from the template

| **Task Number** | | **1: Requirements** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Define the scenario and requirements specifications of the project and what you hope to achieve including 5 KPIs to measure its success of which at least two should be quantitative | | | | | |
| Task duration | | Month 1 – Month 2 (M1-M2) | | | | | |
| Lead partner | | Main applicant of the proposal | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| The objective of the task is to define the scenario and the associated requirements specifications and KPIs of the project. The requirements shall describe in detail all software/hardware specifications needed for implementation | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D1 | Requirements specification | | Report | Confidential | | [To be completed by the applicants] | M2 | |
| Description of the deliverable | | | | | | | | |
| The deliverable will include the following sections and is expected to a maximum of 20 pages:   1. Scenario 2. Requirements 3. KPIs 4. High-Level Architecture / Specification of what will be implemented 5. Clear description of how it fits in to the ZDMP ecosystem of the future and which components will be used now | | | | | | | | |

| **Task Number** | | **2: Set Up** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Setup | | | | | |
| Task duration | | M2 – M3 | | | | | |
| Lead partner | | [To be completed by the applicants – most likely to be the Primary SME] | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| The objective of the task is to setup the technical aspects of the project. The specifications about the how, why, and where it will be implemented and if any specific procedures are followed, should be described in this task. Note that this is not just about the documentation of this, but any practical set up and configuration | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D2 | Experimental setup | | Dem | Confidential | | [To be completed by the applicants] | M3 | |
| Description of the deliverable | | | | | | | | |
| Whilst the deliverable is the projects practical set it, a set of presentation slides to explain this would also be required to be reviewed | | | | | | | | |

| **Task Number** | | **3: Implementation** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Implementation of the technical aspects of the project | | | | | |
| Task duration | | M3 – M8 | | | | | |
| Lead partner | | [To be completed by the applicants – most likely to be the Primary SME] | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| The objective of the task is to implement the technical aspects of the project. It could comprise of the development of software, the integration of components for testing purposes, and/or validation aspects. This task represents the main activity of the proposal which should align with the central objective of the call. Note that no document deliverable is expected only demonstration(s) | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D3a | Implementation Mid-project | | Dem | Confidential | | [To be completed by the applicants] | M5 | |
| D3b | Implementation Final | | Dem | Confidential | | [To be completed by the applicants] | M8 | |
| Description of the deliverable | | | | | | | | |
| [To be completed by the applicants] | | | | | | | | |

| **Task Number** | | **4: Execution** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Execution and validation | | | | | |
| Task duration | | M6 – M8 | | | | | |
| Lead partner | | [To be completed by the applicants] | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| The objective of this task is the deployment of the solution/component implemented/used and evaluation of its functional and business requirements to perform its validation. The way such validation would be accomplished should be defined in this task as well as the results against requirements and KPIs The reporting part of the deliverable is expected to be a maximum of around 10-20 pages | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D4a | Execution and Validation | | Report | Confidential or Public (Preferred) | | [To be completed by the applicants] | M8 | |
| D4b | Execution and Validation | | Dem | Confidential or Public (Preferred) | | [To be completed by the applicants] | M8 | |
| Description of the deliverable | | | | | | | | |
| [To be completed by the applicants] | | | | | | | | |

| **Task Number** | | **5: Impact** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Exploitation and Dissemination | | | | | |
| Task duration | | M7 - M9 | | | | | |
| Lead partner | | SME | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| The objective of the task is to analyse the impact of the project. The task and deliverables must include the below and is expected to be around 20 pages:   * A plan on the projects exploitation; for example, to seek public and/or private investment for commercial implementation of the results of the experiment; this should cover: * Whole Project * Each partner (not subcontractors) with 80% of focus on the SME partner(s) * IPR analysis * Dissemination undertaken * Any external contributions – eg to standard | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D5 | Exploitation plan and Dissemination Results | | Report | Confidential | | [To be completed by the applicants] | M9 | |
| Description of the deliverable | | | | | | | | |
| [As defined in the task] | | | | | | | | |

| **Task Number** | | **6: Additional Activity (Optional)**  **REMOVE THIS TASKS TEMPLATE/PAGE IF UNECESSARY. YOU WILL NOT BE PENALISED FOR ITS REMOVAL** | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Task title | | Additional Activity | | | | | |
| Task duration | | M1 - M9 | | | | | |
| Lead partner | | [To be completed by the applicants] | | | | | |
| Other partners (if any) | | [To be completed by the applicants] | | | | | |
| Resources allocation and role per partner | | | | | | | |
|  | | Partner 1 | | | Partner/Subcontractor 2 | | |
| Person-Months | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Main role | | [To be completed by the applicants] | | | [To be completed by the applicants] | | |
| Objective of the Task | | | | | | | |
| Any other tasks which are relevant and NOT covered in the above tasks. In addition, you may in certain circumstances be asked, on the condition of project sponsorships to manage and deliver additional requirements assigned by the ZDMP project based on the proposal evaluators’ feedback. | | | | | | | |
| Description of Work | | | | | | | |
| [To be completed by the applicants – if you do not have additional items please insert here and in the description of the deliverables – “No additional Activity” – note you will not be penalised for this unless it is clear from other tasks something would be expected there] | | | | | | | |
| Deliverable | | | | | | | | |
| # | Title | | Type | Dissemination Level | | Lead partner | Due date | |
| D6 | Additional Activity | | Report | Confidential | | [To be completed by the applicants] | M9 | |
| Description of the deliverable | | | | | | | | |
| [To be completed by the applicants] | | | | | | | | |

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1. Cost of the personnel realizing the deliverables [↑](#footnote-ref-1)
2. Equipment cost or depreciation should be included according to your normal accounting practices. [↑](#footnote-ref-2)
3. Indirect costs (overheads) could be up to 25% of the direct cost. Subcontracting is not included in indirect cost calculation [↑](#footnote-ref-3)