ZDMP: Zero Defects Manufacturing Platform

ZERO DEFECTS

Manufacturing Platform

ZDMP

ZDMP

Guidance for Applicants

OPEN CALL 1

Abstract

This document is the Guidance for Applicants for the ZDMP project Open Call 1. It should be used by the applicants to understand all the features, requirements, and information about the ZDMP Open Calls. Information contained herein should be considered as the authoritative source.

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1   Introduction

This guide is designed to support applicants through the submission process for the first of two separate Zero Defect Manufacturing Platform (ZDMP) Horizon 2020 Open Calls. It is intended to be the main source of information for Open Call 1, and unless otherwise informed via the ZDMP/Call website and/or mails to registered submitters, its contents should be deemed authoritative.

If there are questions regarding the application process following reading this document, please refer to information available on www.zdmp.eu/calls and associated pages.

1.1   What is ZDMP?

ZDMP is a project funded by the H2020 Framework Programme of the European Commission running from January 2019 until December 2022. It initially engaged 30 partners (Manufacturers, Technology Providers, Consultants and Research Institutions) from 11 countries with a 31st Company, Industry 4 Factory Solutions (i4FS) joining during 2020. i4FS is a company formed by several members specifically for ZDMP's post project exploitation of the ZDMP platform. ZDMP will provide an extendable platform to support factories to help them reach a goal of zero defects with a focus on product and production quality assurance.
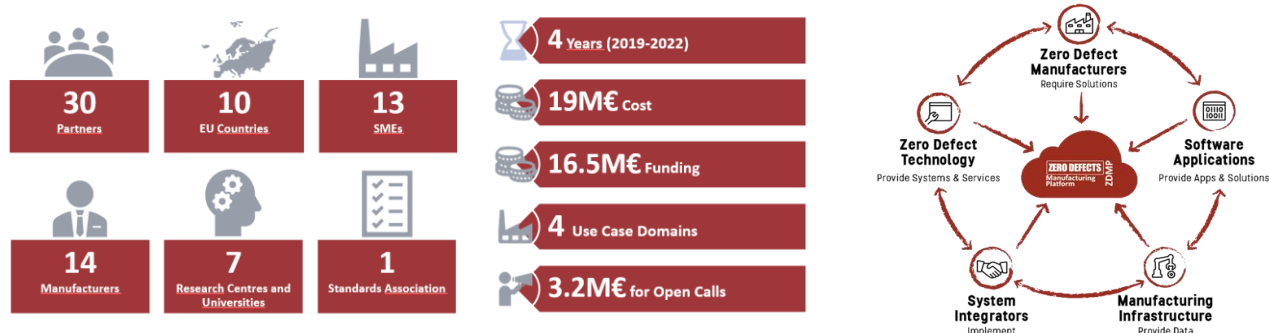
1.2   ZDMP Aims & Objectives

The main ZDMP objectives are:

- To provide an Industry 4.0 (I4.0) Platform for developing zero-defect solutions
- To ensure the quality of the product along the value chain of the manufacturing process by deploying advanced modelling, detection, inspection, and predictive techniques
- To provide developers a runtime platform including environment, marketplace, and service framework
- To deliver core Industrial IoT support of data acquisition, interoperability, and analytics supported by orchestration, monitoring and autonomous computing
- To ensure outstanding process quality, through equipment, resource, and energy efficiency, by deploying novel AI based solutions

2 Overview of the Open Calls

2.1 Headline Information

The ZDMP Open Calls consists of **two separate calls** consisting of a total of €3.2million. This Guidance for Applicants is for Open Call 1 only. A second Guidance for Applicants will be issued before the launch of Call 2.

	Open Call 1	Open Call 2
Opens	1st March 2021	2nd August 2021
Closes	5pm, CET, 31st April 2021	5pm CET, 30th September 2021
Funding split	One third	Two thirds
Funding range (per sub-project)	€50-150K	€50-150K
Sub-project start	August 2021	January 2022
Project duration	9 months (Fixed Duration)	9 months (Fixed Duration)
No. of sub-projects awarded	Approximately 10	Approximately 20

Note: All times are CET. Deadlines will be strictly adhered to. Any submissions past the deadline will not be considered.

2.2 Why join the ZDMP Open Calls?

Joining the ZDMP Open Calls will benefit you in a range of ways:

- You will receive between €50-150K funding and support to develop new services/products
- You will own what you produce and will be able to exploit outcomes across your business
- You will have the opportunity to develop new, working relationships with businesses in the Industry4.0 domain
- You will have access to a new sales channel through the ZDMP Marketplace provided via partner i4FS

3   Eligibility

3.1   Are you eligible to join the Open Calls?

This section provides a short summary of the eligibility criteria. For a full list of the eligibility criteria please see Annex 1.

In order to submit a proposal to the ZDMP Open Call:

- The call bidder, or lead partner if there are two organisations, must be a qualifying SME, and be the predominant partner in the bid. The SME must be established in an EU Member State, Associated Country or the UK, as defined in EU Law: EU Recommendation 2003/361 and be eligible for participation in H2020 programmes (see Annex 1 for eligible countries list)
- Must have no formal business partnership with any ZDMP partner (eg a part- or wholly-owned subsidiary or affiliate – NB Customer / supplier relationships are not considered as partnerships)
- Must not be proposing to make a direct profit from the Open Call funding
- Must be a financially stable, legal entity

The funding is primarily intended for single entities, however where bids adequately justify their reasoning, consortia of no more than 1 further entity and bids involving subcontracting (to no more than one other entity) will also be accepted.

All applicants, including multiple or subcontracted entities, will at proposal time be required to state their financial viability and if they win they will complete the European Union financial viability check and ZDMP reserves the right not to award funding if the viability check raises questions. ZDMP also reserves the right to solicit any other document that allows ZDMP to assess the financial health of the SME and its sustainability during and after the accelerator period.

Third Parties receiving financial support through the ZDMP Open Call programme will not become party to the ZDMP Grant Agreement (signed between the project and the EC), however they need to have a PIC number by registering with SEDIA.[1]

3.2   Target Audience

The following types of organisations are especially targeted to participate in the call:

- EU SMEs (including micro-SMEs)
- EU technology providers and software developers (including start-ups)
- EU manufacturing and supply chain companies
- EU Research Institutes, Universities, and Large Organising supporting SMEs or the target of SME activity

3.3   Eligible Types of Applications

- Single Applicant – single entities meeting all eligibility criteria may apply for funding

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[1] SEDIA is the EC Single Electronic Data Interchange Area (https://ec.europa.eu/info/fundingtenders/opportunities/portal/screen/how-to-participate/participant-register) where you can register to receive your Participant Identification Code (PIC number)

- Small Consortia – a small consortium of a maximum of two eligible organisations may apply for funding. For example, one Manufacturing company of any size may partner with one SME Technology/Software Provider, or two SME Software Providers / Manufacturers may jointly apply. The SME must be the lead partner in all Consortia bids and be the dominant party.

4 Qualifying Activities

4.1 Overview: 3 Types of Sub-project

Each call consists of three broad activity areas

- Develop
- Integrate
- Validate

These three activity areas will remain for both Open Calls, however, there is a slightly different focus within these three areas between the two Calls. Call 1 is focussed on the ZDMP Platform and its Components - zComponents, whilst Call 2 is focussed on ZDMP Applications - zApps. A separate Guidance for Applicants document will be released for Call 2 in August 2021.

Proposals should focus directly on a single area of activity, but ZDMP recognizes that minor inclusion of other activity areas may sometimes occur naturally in a sub-project.

All three activity areas will be considered equally and sub-projects will be awarded across all three areas without preference, dependent on the number and quality of proposals received in each activity area.

4.2 Activity Area 1: Develop

4.2.1 Call 1

Sub-projects for the development of digital manufacturing components and services for the ZDMP platform. These are sub-projects that develop new components or solutions that can be integrated into the ZDMP platform, or which combine/extend the functionalities of existing ZDMP components. In this type of sub-project the focus is on:

- Developing new Design-time / Run-time zero-defect smart manufacturing components that can be integrated with the ZDMP Platform and/or Marketplace (must be substantially different from those developed within the ZDMP project)
- Developing new AI/Machine Learning solutions and new algorithms for zero-defect smart manufacturing processes (must be substantially different from those developed within the ZDMP project)
- Development/Extension of existing ZDMP platform and/or components to provide added value to the platform and/or to reach new Industry4.0 domains (outside of ZDMP pilot domains – Automotive/Electronics/Machine Tools/Construction)

Aim: To create new components for the enhancement of the ZDMP platform, to provide new services to Industry4.0 and to give the opportunity to sub-project participants to build high quality components by leveraging existing functionalities and capabilities of the ZDMP platform.

Target Audience: SME technology providers, software developers, and start-up developers

Bid type: 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).

Funding Amount: 50,000 to 150,000 Euros

Experiment Duration: 9 months (fixed)

Technical Note: All new and/or extended components will need to be ZDMP platform compliant and able to connect with ZDMP Core Components (Portal, Marketplace, Service & Message Bus, Application Runtime, AI-Analytics Runtime, Storage; and Secure Installation, Communication & Authentication

4.3 Activity Area 2: Integrate

4.3.1 Call 1

Sub-projects to improve the ZDMP ecosystem by connecting multiple stakeholders.

The focus for this activity area is on:

- The integration of existing 3rd Pty zero-defect smart manufacturing Design-time and Run-time components / services with the ZDMP Platform
- The integration/interoperability of third-party platforms, including SMEs / Manufacturers with micro platforms, with the ZDMP platform
- The integration of existing ZDMP components with third party processes / components / tools / services in new manufacturing domains/scenarios

Aim: To extend ZDMP platform functionality by integrating with, existing components, services, or platforms.

Target Audience: SME technology providers / software developers, and/or companies of any size from either the manufacturing or supply chain domains that provide platforms or solutions that can be integrated with the ZDMP platform or who can integrate ZDMP components into existing services.

Bid type: 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).

Funding Amount: 50,000 to 150,000 Euros

Experiment Duration: 9 months (fixed)

Technical Note: the integration of components and 3rd Party platforms must use the ZDMP API Gateway

4.4 Activity Area 3: Validate

4.4.1 Call 1

Sub-projects for validation and/or testing of ZDMP platform and components in digital manufacturing domains.

The focus for this activity area is on:

1. Validation:

- Functional validation of ZDMP components InCloud and/or OnPremise – eg workflows, UI, integration with other ZDMP components, algorithms, data acquisition
- Scenario Validation: Deploy and run ZDMP components in a range of smart manufacturing domains/scenarios – eg 'real-world' validation using real-world data, security
- Technical Validation of ZDMP platform and components – eg Message Bus, API Gateway, SSO, marketplace

2. Testing:

- Performance Testing of ZDMP components in a range of smart manufacturing domains/scenarios – eg AI model prediction & result testing, security, data acquisition & ingestion
- Usability Testing of ZDMP components InCloud and/or OnPremise – eg certificate integration, UI

Aim: To test and validate ZDMP platform and components in additional use cases / domains / environments (Cloud vs Premises) in order to ensure the quality of ZDMP offerings to the broader community of end-users.

Target Audience: SME technology providers or software developers and/or companies of any size from the wider manufacturing domain.

Bid type: 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).

Funding Amount: 50,000 to 150,000 Euros

Experiment Duration: 9 months (fixed)

Technical Note: ZDMP provides an Experimentation Facility (see www.zdmp.eu/exp-facility) which can be used by sub-projects for validation and testing purposes.

5   Online Submission Process

5.1   Official Language

The official language of the Open Call is English. All applications must be submitted in English in all their mandatory parts, in order to be eligible. Otherwise, the entire application will be rejected. If any non-mandatory parts of the application are submitted in a language other than English, these parts of the proposal will not be evaluated, but the proposal may still be eligible.

5.2   Submission Platform

All applications are only to be submitted online via the F6S submission platform www.f6s.com/zdmp/apply. This can also be accessed from www.zdmp.eu/calls. Submissions received in any other way will not be evaluated.

Submitters will need to register their organisation on the F6S platform before being able to complete the online submission form.

5.3   Submission Support

To support the submission process, ZDMP also provides:

- A dedicated email submission support hotline – zdmp-opencall@zdmp.eu (response within 48 hours)
- Two question-and-answer webinars per Open Call:

  - Open Call 1: Expected: March 10th 2021 @ 15:00 CET & April 7th 2021 @ 11:00 CET
  - Open Call 2: TBC
  - Attendance may need to be registered - see www.zdmp.eu/calls-webinar for details

- Downloadable Call documentation, including the Guidance For Applicants, the Proposal Template; the Declaration of Honour and Ethics Statements – www.zdmp.eu/resources
- Links to ZDMP component technical information – www.zdmp.eu/technologies
- An online Frequently Asked Questions page (FAQs) – www.zdmp.eu/calls-faq
- General project (www.zdmp.eu) and pilot use cases information (www.zdmp.eu/use-cases)

5.4   Submission Rules

When completing the submission template/form, please follow these rules:

- "You may apply more than once (eg to the different sub-project types), but only the highest-ranking proposal will be funded (one award per applicant / consortium only). Note if a single party is part of two or more consortium then provided the other partners are different they could potentially win more than once. If the two proposals contain the same partners they can win only once"
- Answer each question. If a question does not apply to your case, explain briefly why

- Be clear and concise and respect the instructions about the length of each answer. Where applicable, use bullet points instead of full sentences or descriptive paragraphs
- Write for an informed audience that is familiar with the general Industry4.0 context, but not with the particulars of your business or market
- Visual elements (eg images, figures, tables, graphics…etc) can be included but care should be taken due to the limits on the proposal lengths
- Do not include any links to external documents to answer a question. Each proposal must be self-contained and describe everything ZDMP should know about your idea
- The proposal must comply with all eligibility requirements

5.5   Required Documentation

The following is the list of documents you need to provide at application time, which can be uploaded to the online submission platform on www.f6s.com/zdmp

- A completed online submission document including upload of the proposal template (see www.zdmp.eu/resources)
- Administrative information: Registration on the F6S portal
- Ethics declaration (See Annex 4: Ethics Statement and www.zdmp.eu/resources)
- For sub-project type 2 proposals ONLY: A statement showing the existing relationship and rights of access to the platform/service which you propose to integrate with ZDMP. Acceptable statements include one of the following:

  - Copy of an existing contract.
  - A Memorandum of Understanding (MoU) signed by the legal entity representing the platform/service
  - An email from a relevant person within the legal entity owning (or anyway representing) the platform/service stating that the applicant has access to the platform/service
  - A self-signed statement by the legal entity owning (or anyway representing) the platform/service stating that the applicant has access to the platform/service

- For proposals including the use of third-party datasets that are NOT Open Access or provided by ZDMP ONLY: A statement showing an existing relationship with the data owner and a right of access and use them. Acceptable statements include one of the following:

  - Copy of an existing contract
  - A Memorandum of Understanding signed by the legal entity owning the data
  - An email from a relevant person within the legal entity owning data stating the right to access such data

- For proposals requiring access to 3rd party industrial facilities not provided by ZDMP User partners or the ZDMP Experimentation Facility ONLY: A statement showing an existing relationship and a right of access to the industrial facility. Acceptable statements include one of the following:

  - Copy of an existing contract
  - A Memorandum of Understanding signed by the legal entity owning the industrial facility
  - An email from a relevant person within the legal entity showing the right to access the industrial facility for the purposes of the sub-project

6   Selection and Evaluation Process Overview

Applications meeting the eligibility criteria (See Annex 1) will be evaluated by one internal (ie from the ZDMP consortium) and one external expert evaluator. Evaluators will use the evaluation criteria (See Annex 2) to submit an evaluation report for each proposal via the F6S submission platform. Only those proposals that are finally selected will receive feedback in the form of their final evaluation score and where relevant ZDMP edited comments; all other proposals will receive a standard rejection email offering an opportunity to develop and improve their submission for Call 2. This would not apply for proposals rejected in Call 2.

Where evaluator scores are divergent, proposals will be mediated by the Open Call Steering Committee and a final decision reached and documented by them. Proposals will be ranked according to final evaluation score within the three qualifying activity areas. Sub-projects will be awarded according to rank in each qualifying activity area, dependent on the number and quality of proposals, and in alignment with ZDMP project priorities and objectives to, for example, avoid multiple sub-projects in the same domain and activity area or those with overly similar outcomes or which use the same zComponents/zApps. Once awards have been made for Open Calls 1 and 2, ZDMP will publish the outcome of the Open Calls within one month of the end of the evaluation and selection period at www.zdmp.eu/calls.

Proposals failing to reach the threshold, or those which met the threshold but were not awarded, will receive a standard rejection email as per those proposals failing the eligibility check. No other forms of feedback will be provided and ZDMP will not operate an evaluation appeals procedure. However, if applicants feel that submissions procedures were not followed correctly, an opportunity to contact ZDMP via email within one week of the evaluation results being announced will be provided. Any such procedural issues raised in this way will be addressed by the Open Call Steering Committee whose decision shall be final.

Proposals awarded funding will receive a copy of their final evaluation score and, as determined by ZDMP, may also be provided with edited evaluation comments where those comments would be of benefit in the development of the sub-project workplan for that proposal.

Selection and Evaluation for Call 1 will occur during May and June 2021.

7   Sub-project Obligations & Support from ZDMP

7.1   Winning Proposals

If an application is awarded funding, a period of contracting and workplan development will be entered with the submitter. Contracts will only be signed once the workplan has been finally approved by ZDMP. Contracts will cover only the period of the sub-project (always fixed at 9 months). New contracts must be drawn up and agreed between i4FS (the ZDMP platform management company) and the Open Call winners to cover post-project exploitation and requirements.

There is a single contract for all Open Call winners (See Annex 6) which is not negotiable. In limited and exceptional cases, determined solely at ZDMP Open Call Steering Committee discretion, there may be specific minimal adjustments according to the exact nature of the individual sub-projects permitted if this is clearly visible at proposal time or could be inferred.

Upon funding being awarded, the applicant will be notified at approximately 2 weeks from final approval and will be asked to provide a workplan within a maximum 2 weeks of notification. If this is not provided, or in general winners are un-responsive, at ZDMPs sole discretion the award can be withdraw and another proposal selected according to previously stated criteria A workplan template will be available to winners on www.zdmp.eu/resources.

ZDMP will nominate an Advisor from within the project with whom you will collaborate over workplan development (and on-going sub-project support - see figure 1 below).
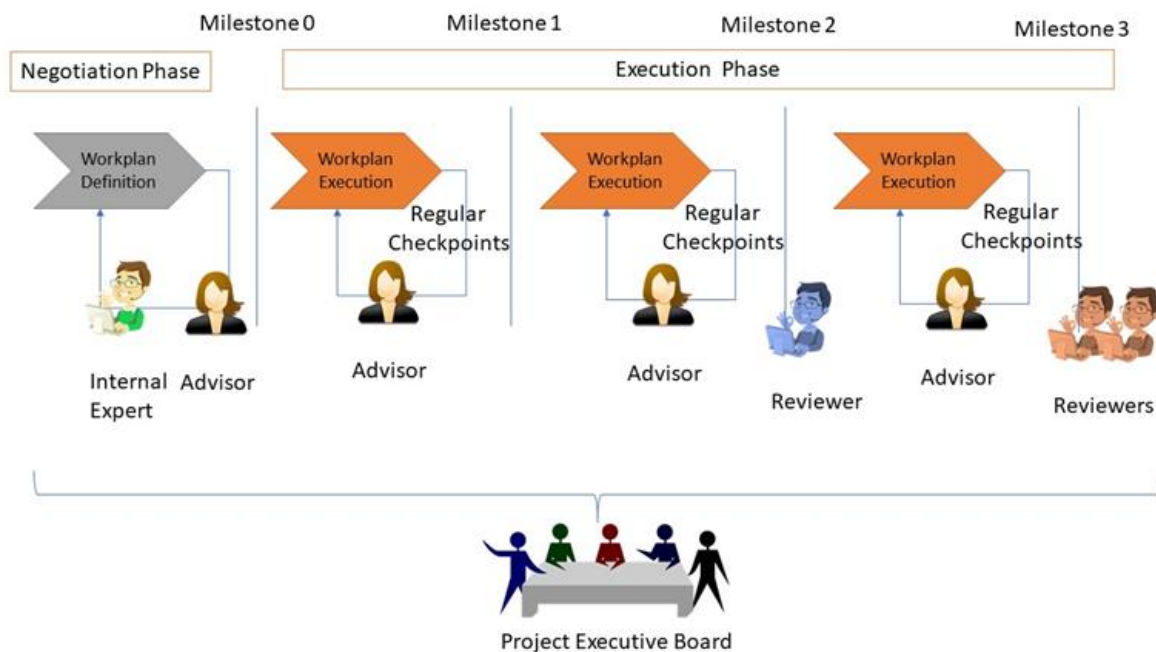

Figure 1: Sub-project Support & Monitoring

ZDMP will assist the development of workplans where required by answering process queries and facilitating conversations with ZDMP technical or user partners if requested. The Open Call Steering Committee will review the workplans to ensure that they are accurate, measurable, and achievable, and provide feedback where necessary, iterating until final approval is reached. This process should take no longer than two weeks, after which, if there is no agreement then the funding award may be withdrawn at ZDMPs discretion.

The workplan will include the requirement to produce regular progress reports according to the following general schedule:

- D1. Requirements specifications – Month 2 (M2)
- D2. Sub-project setup – M3
- D3. Sub-project implementation – M5
- D4. Sub-project execution and validation – M8
- D5. Exploitation plan and sub-project results – M9
- D6. Open Deliverable (where relevant) – M9

Sub-project progress will be assessed via a series of Milestones as agreed and defined in the workplan. Sub-project continuation and payments will be dependent upon successfully meeting the relevant Milestones. Reports will be used to evaluate the current level of activity, progress towards targets and outcome implementation. Progress will be assessed against the targets, indicators and outcomes as agreed in the workplan and lumpsum payments may be withheld if progress is insufficient.

Reports on Sub-project results and outcomes (in the form of the Milestone 3 deliverable report – see Section 6 below) must be provided free of charge to anyone for one year after the end of the ZDMP project available on the ZDMP platform.

Sub-projects will be required to complete an end-of-project satisfaction and feedback survey.

Additionally, ZDMP or the European Commission may ask you to present your work as part of ZDMP project meetings, public relations, dissemination and/or networking events. If you will incur in travel costs for these activities (maximum 2), they will be considered a claimable cost within the award envelope.

Accurate timesheets and effort/resource use records must be kept. These will not be required by the ZDMP project, but submitters may be audited at any point by the EC under standard EC regulations.

7.2   Additional Documentation

Once funding has been provisionally awarded for a sub-project, confirmation of the below must be submitted within 1 month:

- Financial Capacity Self-check (available on https://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-forfunding/register-an-organisation/financial-capacity-check_en.htm)

Note: ZDMP reserves the right to request any other document that allows ZDMP to assess the financial health of the lead SME and its sustainability during and after the accelerator period and the right to decline funding where financial viability cannot be assured.

8 Sub-project Funding & Payments

Funding will be provided on the following basis:

- The total financial support awarded to sub-project winners will be according to the standard IA funding rate for each bidding organization (eg 70% applied to profit companies and 100% to non-profit organizations)
- 70-80% of the Open Call funding is for eligible SMEs only, including consortia or sub-contract bids
- Consortia are subject to the same funding restrictions as govern standard IA funding rates for bidding organizations
- Sub-contracted parties will typically be funded at 100% by the sub-project beneficiary, however, this would be as agreed between those parties and the sub-project beneficiary. Regardless, the sub-project beneficiaries will only be funded according to standard IA funding rates. Further clarity is pending from the EU Project Officer on this point and any updates will be posted on the ZDMP website

The funding can only be spent on costs as detailed in the original proposal and workplan which would primarily be on personnel costs. Expenditure on some equipment may be possible but ZDMP would anticipate that most bidders would have this and so this exception would need to be justified and the costs should follow participants normal practices (eg depreciation and then only for the project duration).

Subcontracting of technical work is allowed provided it is included in the proposal and then only to one additional party to a maximum value of around 20% with suitable justification. This call does not accept expenditure on consumables or travels and if undertaken should be part of the bidders normal business expenses. Subcontracting to other supporting parties (eg for marketing, training, or legal support) is not allowed. Indirect expenditure – overheads (including office space, office infrastructure, admin staff, printing and photocopying, heating, electricity etc.) is calculated as 25% of the total direct costs.

Synergies with other sources of funding, including other Horizon 2020 projects, are encouraged if the grants are used for complementary, not overlapping purposes and double-funding of this sort is not permitted.

Payments will be dependent on progress, which will be assessed against the targets, indicators and outcomes as agreed in the workplan (see Section 7). Lumpsum payments may be withheld if progress is insufficient. This will be determined by the Open Call Steering Committee in conjunction with project mentors. Sub-projects awarded funding for both Calls will receive lumpsum payments, as follows:

Schedule	Payments
1st payment	Lumpsum payment of 50% of total award Within 45 days of signing contracts Subject to agreed workplan
2nd payment	Lumpsum payment of 15% of total award Within 45 days of M5 deliverable approval

	Subject to successful mid-project review
3rd payment	Lumpsum payment of 20% of total award
	Within 45 days of approval of M9 deliverables
	Subject to successful project completion
4th payment	Lumpsum payment of 15% of total award
	Within 45 days of overall ZDMP project completion
	Subject to successful ZDMP project completion

9   Intellectual Property Rights (IPR) and Exploitation

ZDMP expects the following conditions to apply to all relevant sub-projects:

- Sub-project winners will own the outputs of their Open Call activity (eg zApps, Components, validation results, testing methodologies, and/or integrated services) and will be free to exploit them across their business
- Where relevant, sub-projects will host outputs on the ZDMP Marketplace free of charge, both for the third party and for the ZDMP project, for one year after the end of the project with any Marketplace sales generating revenue for the sub-project's business and commission for the ZDMP Marketplace
- Following that, relevant sub-project outputs will need to be hosted for one year after the end of the ZDMP project on the ZDMP platform
- Ongoing hosting will be subject to bilateral negotiations where all costs will need to be part of the hosting agreements between the sub-project parties and i4FS (the management company for the ZDMP platform post-project)
- Validation results (eg test reports) must be provided free of charge to anyone for a limited period after the end of the project

Detailed IPR conditions relating to individual ZDMP components can be reviewed on www.zdmp.eu/ipr-for-subcalls

10 Technical Information

Detailed technical information is available on www.zdmp.eu/technologies by viewing/following links to the Components and Open API sections. ZDMP Environment Overview

An overview of the ZDMP environment is given Figure 2 below. This shows the architecture for technical components as well as actors and data sources involved.
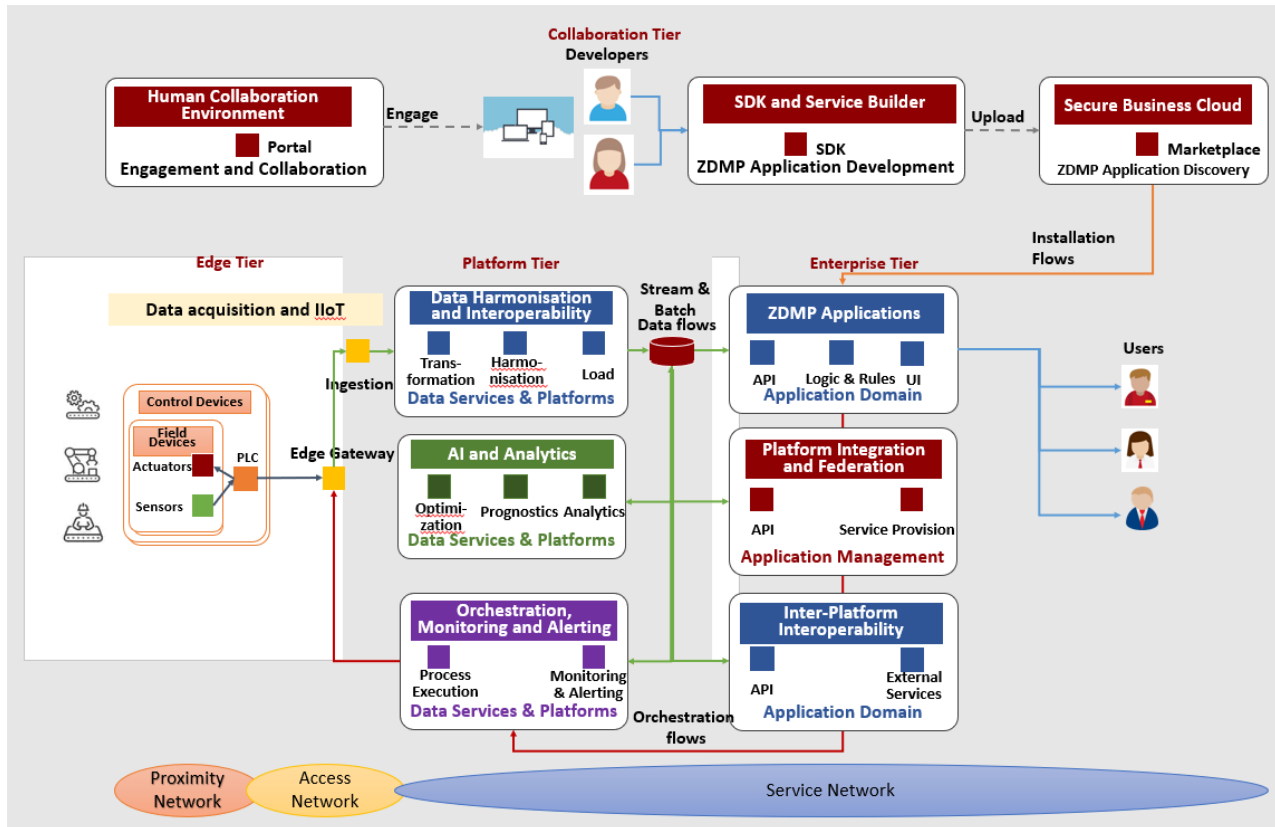
Figure 2: ZDMP Architecture / Environment

10.1 Components

ZDMP consists of a series of software components (See Figure 3 below) which can be used were relevant to combine into new ZDMP Applications – zApps, or integrated with 3rd Party components / tools / services. ZDMP components can be deployed on-premises or in the Cloud (or both).
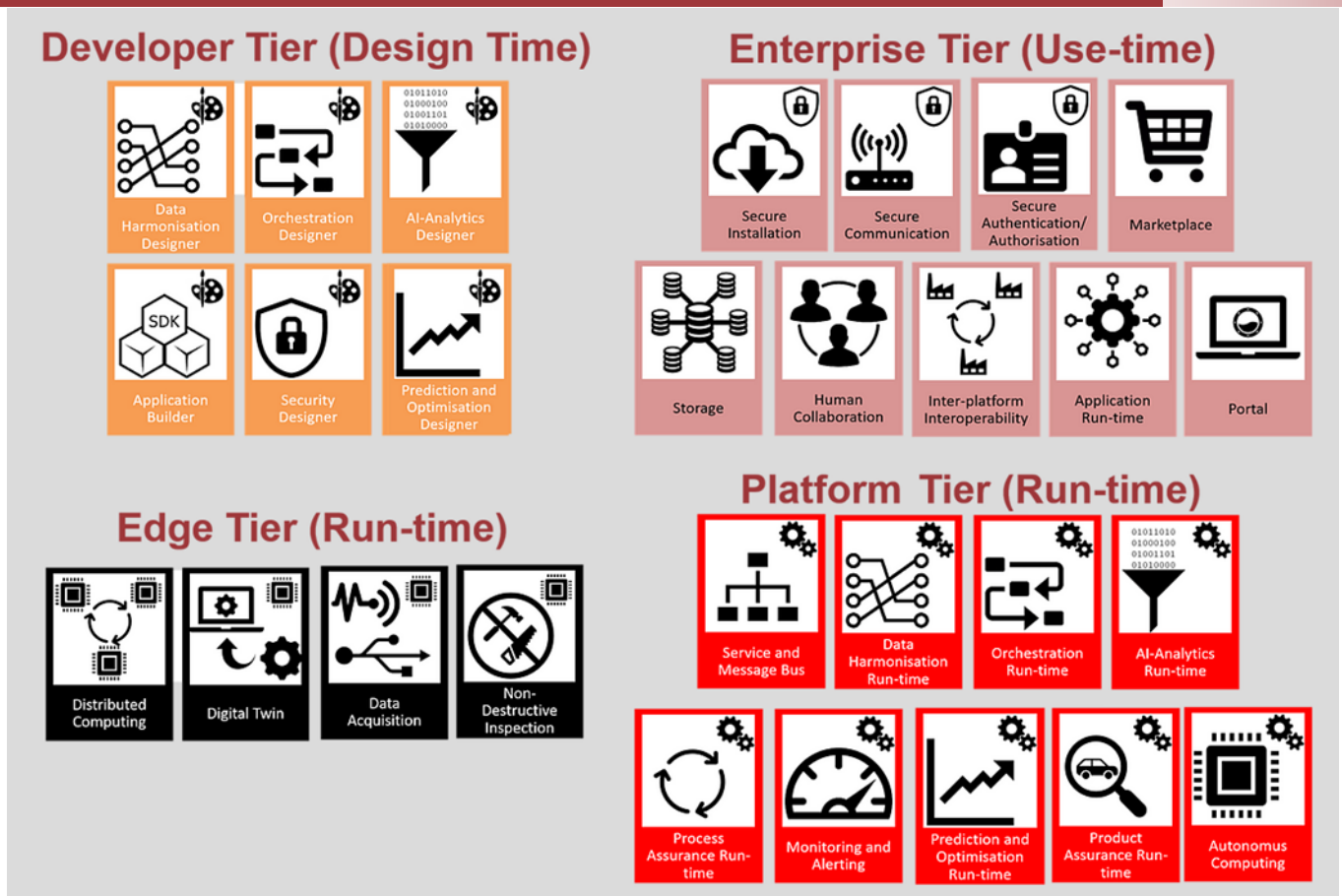
Figure 3: ZDMP Components

10.2   Experimentation Facility

An open facility with industrial equipment (ie production lines, machines and devices) where Industry 4.0 services and ZDMP modular software components can be tested and validated to ascertain their functionalities and capability, is available to sub-projects. For more information on this facility please visit www.zdmp.eu/exp-facility.

11   Useful Links and Contacts

Submission Platform:

www.f6s.com/zdmp/apply   - the *only* place to submit your proposal

Contact:

zdmp-OpenCall@zdmp.eu   - the *only* email address to use for questions
                                                                     about the Open Call (max. 48 hour response time)

Information and Documents:

www.zdmp.eu   - home page

www.zdmp.eu/calls   - information and links about the Open Call, including
                                                                     the promo video

www.zdmp.eu/resources   - all the documents relating to the Open Call,
                                                                     including the Guidance for Applicants and the
                                                                     Proposal Template


www.zdmp.eu/technologies   - high-level technical description of ZDMP components

www.zdmp.eu/documentation &   - detailed technical information on the ZDMP
https://software.zdmp.eu/docs/   components

www.zdmp.eu/faqs   - answers to commonly asked questions about the
                                                                     Open Call

www.zdmp.eu/calls-webinars   - register here to attend our monthly application
                                                                     support webinars and ask the ZDMP Team any
                                                                     questions you may have

www.zdmp.eu/ipr-for-subcalls   - read the IPR for ZDMP components here

www.zdmp.eu/exp-facility   - information about the experimentation facility ZDMP
                                                                     provides for Open Call projects

Annex 1: Eligibility Criteria

To be eligible to apply for cascade funding through the Open Calls, applicants must pass a series of eligibility tests. All proposals will be initially screened for eligibility by members of the Open Call Steering Committee as well as by checklist on the F6S submission form. Proposals failing to meet these criteria will not be considered for evaluation. The criteria have been defined as follows:

- Proposal addresses primarily one of the Qualifying Activity areas and clearly fits with EU and ZDMP project objectives. This will be assessed based on responses in the relevant sections of the online submission forms
- Proposal does not (heavily) duplicate existing ZDMP components, planned testing/validation activities, use of the Experimentation Facility (WP11), or zApps produced during ZDMP Pilot projects. This will be assessed by comparison between proposed actions and existing ZDMP activity
- Proposal adheres to EC/H2020 standards of transparency, equality, conflicts of interest, confidentiality, GDPR and ethics. This will be assessed based on responses in the relevant sections of the online submission forms
- Proposal is from an SME, and if with another Partner/subcontractor, it is orientated towards that SME, and where all entities are established in an EU Member State, Associated Country, or the UK, as defined in EU Law: EU Recommendation 2003/361 and is eligible for participation in H2020 programmes - Guidance on the associated countries can be found here: (http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cpart/h2020-hi-list-ac_en.pdf)
- The proposer is a financially stable, legal entity. Initially, this will be assessed based on applicant self-declaration on the F6S submission form. Subsequently, those applicants awarded cascade funding will be asked to complete the European Union financial viability check during contracting. It shall be at the sole discretion of the Open Call Steering Committee to identify and potentially eliminate financially insecure partners below a certain viability score as applied equally across all such Open Call winners
- The proposer has no formal business partnership with any ZDMP partner (eg be a part- or wholly owned subsidiary or affiliate) noting that normal business relationships (customer, supplier.) are not classed as a business partnership. This will be assessed based on self-declarations in the relevant sections of the online submission forms
- Consortia or sub-contract proposals must have the lead partner as a qualifying SME and consist of no more than 2 partners total

Annex 2: Evaluation Criteria

Evaluation criteria consist of three main areas: Excellence / Impact / Implementation. Each area contains a number of sub-criterion which will be scored from 0 to 5 (including half points), as follows:

- 0 = Void. Proposal fails to address the criteria or cannot be judged due to missing/incomplete information
- 1 = Poor: The criteria are addressed in an inadequate manner, or there are serious inherent weaknesses
- 2 = Fair: While the proposal broadly addresses the criteria, there are significant weaknesses
- 3 = Good: The proposal addresses the criteria well, although improvements would be necessary
- 4 = Very good: The proposal addresses the criteria very well, although certain improvements are still possible
- 5 = Excellent: The proposal successfully addresses (nearly) all relevant aspects of the criteria in question

Each sub-criterion score will be multiplied by the weighting percentage shown for each of the three qualifying activity areas. Then sub-criterion scores will be summed, averaged, and weighted to provide an overall score for that area. Scores for each area will be summed to give a total proposal score.

Criteria	Sub-criterion	Weighting by Activity Area
Excellence **Threshold score: 3** **Criteria Weight: 30%**	How feasible and clearly defined are the sub-project's objectives, outcomes and Key Performance Indicators (KPIs)? (Are the objectives, outcomes and KPIs specific, measurable, achievable, realistic, and timely?)	Create: 15% Integrate: 15% Validate: 15%
	How clearly aligned is the sub-project to ZDMP project objectives and outcomes?	Create: 15% Integrate: 15% Validate: 15%
	To what extent does the state-of-the-art in the proposal indicate a cutting-edge understanding of the domain?	Create: 10% Integrate: 10% Validate: 5%
	To what extent does the proposal contain a high-level of innovation?	Create: 20% Integrate: 15%

	(Innovative proposals include, for example: Novel validation and testing methodologies, novel application to Industry sectors, integration of different technologies, creating new zero-defect solutions, creative use/validation of existing ZDMP components/services, creative application of new/cutting-edge technologies, innovative contributions to standardisation etc.)	Validate: 10%
	To what extent does the sub-project intend to make effective use of ZDMP components or services (including where relevant, the ZDMP Experimentation Facility)?	Create: 20%
		Integrate: 25%
	(This includes using them to create new platform components or new zApps, and/or testing and validating existing ZDMP components, zApps or services, and/or using the Experimentation Facility if applicable)	Validate: 40%
	To what extent will the proposed technological developments be able to produce added value?	Create: 20%
		Integrate: 20%
	(Is the sub-project a catalyst for future technologies or technological developments?)	Validate: 15%
Impact **Threshold score: 3** **Criteria Weight: 40%**	To what extent and how effectively does the proposal address a 'real-world' and/or concrete zero-defect manufacturing challenge/issue?	Create: 25%
		Integrate: 25%
		Validate: 35%
	How clearly presented is the impact of the sub-project on the wider Industry4.0 landscape or related paradigm? (Well described includes the detail, depth and extent of the impact of the sub-project output across all relevant or associated I4.0 areas, eg use of generic IOT, cyber physical systems, data analytics, standards…etc)	Create: 20%
		Integrate: 20%
		Validate: 20%
	How clearly described is the usefulness, usability and/or functionality of the sub-project's output for ZDMP project partners and/or end-users?	Create: 20%
		Integrate: 20%
		Validate: 15%
	How clearly defined is the market potential of the sub-project's output in the long-term, and is the proposed sub-project output able to be transferred to ZDMP Marketplace? For validation sub-projects, how clearly defined is the contribution the validation results will make towards developing ZDMP components for market readiness?	Create: 20%
		Integrate: 20%
		Validate: 15%
	How clearly described is the exploitation strategy?	Create: 15%

	(This includes differentiation, dissemination, business strategy, and/or future deployment of validated components in manufacturing scenarios)	Integrate: 15% Validate: 15%
Implementation **Threshold score: 3** **Criteria Weight: 30%**	How suitable are the capabilities of the proposing organisation to undertake the sub-project? (Capability includes describing infrastructure, availability of resources, equipment etc to be used)	Create: 20% Integrate: 20% Validate: 20%
	To what extent does the proposal include a commitment to providing own resources and/or additional funding? (Own resources includes providing own data in particular)	Create: 20% Integrate: 20% Validate: 25%
	How skilled and experienced is the proposing team? (Evidence of the suitability of the skills of the organisation/personnel involved in the proposal, including where relevant previous projects/grants, stage of growth, management track record, publications…etc)	Create: 10% Integrate: 10% Validate: 10%
	To what extent is the proposed implementation plan and/or validation methodology robust? (Robust means specific, measurable, achievable, realistic and timely)	Create: 20% Integrate: 20% Validate: 20%
	To what extent does the proposal include an appropriate allocation and justification of costs (personnel / equipment / indirect costs)?	Create: 15% Integrate: 15% Validate: 15%
	How well described is the IPR intent for sub-project outputs?	Create: 10% Integrate: 10% Validate: 5%
	Please rate the use and/or understanding of industry and/or software standards and the credibility of any possible contribution to standardisation described in this proposal.	Create: 5% Integrate: 5% Validate: 5%

Annex 3: Declaration of Honour

Declaration of honour regarding exclusion criteria and absence of conflict of interest

1. As legal representative it is declared that the entity is not:

   a) Bankrupt or being wound up, is having its affairs administered by the courts, has entered into an arrangement with creditors, has suspended business activities, is the subject of proceedings concerning those matters, or is in any analogous situation arising from a similar procedure provided for in national legislation or regulations

   b) Having powers of representation, decision making or controlling personnel being convicted of, or having been convicted of an offence concerning their professional conduct by a judgment which has the force of res judicata

   c) Having been guilty of grave professional misconduct proven by any means which the contracting authority can justify including by decisions of the European Investment Bank and international organizations

   d) Failing to be compliant with obligations relating to the payment of social security contributions or the payment of taxes in accordance with the legal provisions of the country in which it is established or with those of the country of the contracting authority or those of the country where the contract is to be performed

   e) Having powers of representation, decision making or controlling personnel having been the subject of a judgment which has the force of res judicata for fraud, corruption, involvement in a criminal organization or any other illegal activity, where such illegal activity is detrimental to the Union's financial interests;

   f) Subject to an administrative penalty for being guilty of misrepresenting the information required by the contracting authority as a condition of participation in a grant award procedure or another procurement procedure or failing to supply this information, or having been declared to be in serious breach of its obligations under contracts or grants covered by the Union's budget

2. I declare that the natural persons with power of representation, decision-making or control over the aforementioned legal entity are not in the situations referred to in

b) and

e) above.

3. Declared that the entity:

a) Is not subject to a conflict of interest with any member of the ZDMP consortium and will take all reasonable measures to prevent any situation where the objectives of the ZDMP project might be compromised due to undeclared shared interests

b) Has not made false declarations in supplying the required information to the project formally detailed as ZDMP, and have not failed to supply the required information

c) Is not in one of the situations of exclusion, referred to in the abovementioned points

a) to f).

4. Certify that the entity is:

a) Committed to participate in the aforementioned project as part of the legal entity detailed above

b) Have stable and sufficient sources of funding to maintain its activity throughout its participation in the aforementioned project, and will provide any counterpart funding necessary

c) Have or will have the necessary resources as and when needed to carry out its involvement in the project

d) Will comply with my responsibilities and obligations under the ZDMP project

e) Will respect any third party rights in relation to data provided for processing under the ZDMP project

f) Will abide by international, EU and national laws and regulations that might apply to the substance, or outcome, of data sharing arrangements as relevant to activities that I/my entity will be involved in under the ZDMP project

g) Will take all reasonable measures to safeguard data provided to me/my entity for use in the ZDMP project against possible misuse and unauthorized access

h) Will abide by international, EU and national laws imposing privacy and data protection requirements (including the General Data Protection Regulation **(**GDPR**)** (Regulation (EU) 2016/679)) as relevant. In particular, personal data shared under the ZDMP project will not be re-used for purposes outside the project without the explicit prior consent of the data controller

i) Will act in good faith as far as reasonably possible under the Project and fully apply the principles of the Ethics Statement

Annex 4: Ethics statement

This Ethics Statement underpins the ZDMP project in setting out specific rules and standards of conduct expected from recipients of ZDMP funding. Ethical conduct means acting consistently in a way that is ethical and fair and encouraging others to do likewise.

The standard of behaviour expected is additional to compliance with relevant legal rights and obligations arising automatically by virtue of law applying to each participant. It is also not intended to exclude or replace responsibilities agreed under contract with the ZDMP consortium (in case an application is successful), as well as the certifications/declarations set out in the Declaration of Honour.

As legal representative, certify that the entity/ies will adhere to the following principles as far as reasonably possible under the ZDMP project:

1.   Act in good faith

2.   Respect human rights

3.   Ensure research quality and integrity

4.   Ensure our actions are independent and non-discriminatory to any groups of individuals

5.   Not misrepresent credentials

6.   Demonstrate authenticity and validity of authorship

7.   Respect confidential information

8.   Secure any confidential information provided to prevent its misuse or unauthorized access

9.   Only share confidential information where necessary and only where the prior informed consent of anyone potentially affected by the disclosure of such information has been received

10.   Respect the privacy of any people identified from the findings of the ZDMP project as far as possible

11.   Avoid any conduct that may cause anyone harm, and seek relevant individuals' informed consent for any activities that might affect them directly

12.   Apply the applicable laws that may apply to our activities under the ZDMP

project and plan our activities in accordance with such laws as early as possible

13. Not collect or otherwise process any personal or sensitive data not essential for our ZDMP activities

14. Be fully transparent to the ZDMP consortium about the purpose, methods and intended possible uses of our ZDMP activities, and what risks, if any, are involved

15. Seek advice promptly from the ZDMP consortium where it is believed ethical and/or legal risks may be raised by our activities

Annex 5: Proposal Template

Your proposal should be created only according to the ZDMP proposal word template as defined in the attachment. This should be saved as PDF and then uploaded to the F6S submissions platform. **ALL applications MUST be made via this submissions platform: www.f6s.com/zdmp/apply** and not by any other means

The Proposal Template document can be downloaded from www.zdmp.eu/resources.

It may be possible that the template is replaced or augmented by an HTML form but the nature of it will not change.

You will also be asked for general information and declarations including:

General Information

1. Sub-project type (Activity) that your proposal is addressing.

2. Are you applying as a Single Applicant or a Consortium?

3. Where did you hear about the ZDMP Open Call?

4. Have you been involved with an EC H2020 project previously?

5. How many employees does your organisation have?

6. Please provide your PIC number

Declarations

7. Declaration that all parties in the proposer team are legal, solvent business entities, established in the EU, Associated Countries or the UK, and eligible for Horizon 2020 funding.

8. Declaration that there is no known conflicts of interest between this proposer and any member of the ZDMP Consortium.

Annex 6: Documentation

If funding is awarded for a sub-project, the submitter will be asked to submit a series of documents including.

- Confirmation of SME status

- Bank account information

- European Union Financial Viability Form

- Final Workplans

During negotiations, the ZDMP team will work with the SME to finalize a workplan for the sub-project. Receiving any amount of funding from ZDMP requires the SME to set and achieve a set of deliverables as detailed in the workplan and signed off in the contract.

Contract

Once the applicant is validated as an SME and has negotiated the workplan with ZDMP, they will be asked to sign a contract to formally join the ZDMP sub-projects. An example contract can be seen below but may be subject to further revision.

ZDMP SUB-GRANT AGREEMENT

PROJECT TITLE: WINNER PROPOSAL NAME,

[WINNER PROPOSAL ACRONYM]

Instituto de Desenvolvimento de Novas Tecnologias (UNINOVA), *Campus da FCT/UNL, Quinta da Torre, 2829-516 Caparica, Portugal*, represented by Virgílio Machado (President of the Administrative Board) and João Carlos Lima (Member of the Administrative Board), acting as Coordinator of the consortium concerning the project " Zero Defects Manufacturing Platform" (hereinafter referred to as "ZDMP")

hereinafter referred to as the "*Coordinator*"

of the **one part**,

and **[Institution]**, non-profit/private association, VAT Nº: XXXXXXX, established in *[Address], [Country]*, represented by [XXXXXXX], President of the Board and XXXXXXX, Member of the Board, or their authorised representative,

hereinafter referred to as the "*Subcall Party*"

on the **other part**,

WHEREAS

The European Commission (hereinafter referred to as the "*EC*") and the *Coordinator* on behalf of the consortium have signed the Grant Agreement Nº 825631 for the implementation of ZDMP project within the Horizon 2020 Programme of the European Union.

The ZDMP project provides, in accordance with the financial support of the Third Parties, duly selected.

Within the ZDMP project an Open Call for proposals was launched and after the evaluation process "WINNER PROPOSAL NAME" (WINNER PROPOSAL ACRONYM), from WINNER PROPOSAL INSTITUTION, was selected to be funded.

This preamble and annexes herein enclosed are an intrinsic part of this ZDMP *sub-grant agreement*.

<div align="center">

It is agreed as follows:

</div>

Article 1. Purpose of the sub-grant agreement

The *Subcall Party* shall carry out activities as described under Annex A of this agreement hereinafter enclosed related to (hereinafter referred to as the "Subproject") within the frame of ZDMP and under the conditions laid down both in Grant Agreement and in this ZDMP *sub-grant agreement*.

Article 2. Start date and Duration of the Project

The activities provided under Annex A shall be conducted from 1st May 2021 (hereinafter referred to as the "*start date*") to 31st July 2021 (hereinafter referred to as the "*end date*"). It will be subject to the terms and conditions set out in this *sub-grant agreement*.

Article 3. Maximum financial costs and contribution

The maximum costs that will be incurred by the *Subcall Party* in compliance with the financial rules of Horizon 2020, as provided by the Article 5 herein, shall be EUR XXXXX (XXXXX EURO).

The maximum financial contribution of the *Coordinator* to the *Subcall Party* shall be EUR XXXXX (XXXX EURO).

If the costs incurred by the *Subcall Party* and accepted by the *Coordinator* are lower than those as above provided, the contribution will be modified accordingly. If the costs incurred are greater, these additional costs shall not be funded.

Article 4. Obligations of the *Subcall Party*

The *Subcall Party* shall conduct the activities described under the Annex A, and, if required by the *Coordinator*, during the *Project* the *Subcall Party* shall:

• Participate at least in one meeting organised by the Consortium

• Attend webinars that will be put at their disposal for business development, investment readiness and technical implementation of the *Project*

During the *Project*, the *Subcall Party* shall provide the following deliverables, whose detailed description is contained in the Annex A:

• D1. Requirements Specification (Report) – M2
• D2. Setup (Demonstration) – M3
• D3a. Implementation (Mid Project) (Demonstration) – M5
• D3b. Implementation (Final) (Demonstration) – M8
• D4a. Execution and Validation (Report) – M8

- D4b. Execution and Validation (Demonstration) – M8
- D5. Exploitation Plan and Dissemination Results (Report) – M9
- D6. Additional Activity (Report) – M9

Any deliverable required by this *sub-grant agreement* shall be in English.

At least one party involved in the *Project* shall attend the kick-off and intermediate (if applicable)/final review meetings of the *Projects*.

These meetings are organized by the Contracting Authority to evaluate the work performed and to eventually move the *Project* to the next stages of the contract or present its final results. During the events, the participating party shall present the current results of the *Project* and the possible plan for the next phase if applicable.

Article 5. Payment Arrangements

1. The contribution of the *Subcall Party* shall be paid as follows with the understanding that final payments are dependent on EU funds being received by the contracting party:

Schedule	Payments
1st payment	Lumpsum payment of 50% of total award Within 45 days of signing contracts Subject to agreed workplan
2nd payment	Lumpsum payment of 15% of total award Within 45 days of M5 deliverable approval Subject to successful mid-project review
3rd payment	Lumpsum payment of 20% of total award Within 45 days of approval of M9 deliverables Subject to successful project completion
4th payment	Lumpsum payment of 15% of total award Within 45 days of overall ZDMP project completion Subject to successful ZDMP project completion

2. The bank account of the *Subcall Party* to which all payments of the financial contribution of the *Contracting Authority* shall be made is:

- Name of the account: (WINNER ACCOUNT NAME)
- Address of the account holder: (WINNER ACCOUNT ADDRESS)
- Name of the bank: (WINNER BANK NAME)
- Address of the bank: (WINNER BANK ADDRESS)

- IBAN number: (WINNER IBAN)
- SWIFT/BIC number: (WINNER SWIFT)

3. The final financial contribution to the *Subcall Party* shall be paid by the *Coordinator* subject to the following dispositions:

- A favourable resolution by ZDMP Open Call Steering Committee following assessment of the Evaluation Panel.
- The costs claimed by the *Subcall Party* shall comply with the financial provisions established within the legal base of the Horizon 2020, as especially those provided under the document " Annotated Model Grant Agreement" (http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf)
- The *Coordinator* shall be entitled to withhold the payments in case the *Subcall Party* does not fulfil with its obligations.
- Reasonable Banking and transaction costs related to the handling of any financial resources transferred to the *Subcall Party* by the *Coordinator* shall be covered by the *Subcall Party*.
- The *Subcall Party* must keep the documentation proving the sustained costs.
- Financial reports should be made using the template provided by the *Coordinator*.

Article 6. Communications

1. Any communication or request concerning this *sub-grant agreement* shall identify the nature and details of the request or communication and be submitted to the following addresses:

For the *Coordinator*: **Instituto de Desenvolvimento de Novas Tecnologias** – see address in first page.

For the *Subcall Party* – see address in first page

2. For information or documents to be transferred by e-mail, the following addresses shall be used:

For the Coordinator (send to both emails) : pass@uninova.pt
                                             mjl@uninova.pt

For the *Subcall Party*: (TO BE PROVIDED)

3. In case of refusal of the notification or absence of the recipient, the *Subcall Party* is deemed to have been notified on the date of the latest delivery, if notification to the *Subcall Party* has been sent to one of the addresses mentioned in paragraphs 1 and 2 and to their legal representative.

4. All communication shall be in English.

Article 7. Confidentiality

The *Subcall Party* shall comply with the confidentially obligations set out in Article 36 established in H2020 Programme, AGA – Annotated Model Grant Agreement in the following link:

https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf.

Article 8. Intellectual Property Rights

The results of the *Project* shall be owned by the *Subcall Party* carrying out the work. However, the *Subcall Party* ensures that it shall fulfil all the obligations regarding intellectual property rights and the relative access rights as established in the sub-project workplan.

Article 9. Information and Communication

The *Subcall Party* shall, throughout the duration of the *Project*, take appropriate measures to engage with the public and the media about the *Project* and to highlight the financial support provided by ZDMP. In all information and communication activities, the *Subcall Party* shall refer to ZDMP, using its logo and website in any communication material.

In addition, the *Subcall Party* shall respect the provisions of the Article 38 established in H2020 Programme, AGA – Annotated Model Grant Agreement in the following link: https://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf .

Article 10. Subproject duration extension conditions

Unforeseen delays to sub-projects once running, resulting from external factors beyond the control of the sub-project team can, in exceptional circumstances and by agreement between the ZDMP Coordinator and Subcall Party, lead to a reasonable extension in the duration of the experimentation period beyond the original end date.

However, if the Subproject is in Call 2, and would require a delay of more than 2 months, the Subproject will be cancelled. In this case, milestones met and work completed will be paid, and no further work will be expected and no further payments will be made.

Article 11. Termination of sub-grant agreement obligations

The *Coordinator* may terminate this *sub-grant agreement* in case of any substantial breach of the obligations of the *Subcall Party* arising from this Agreement.

The termination shall be effective after the communication notified to the *Subcall Party*.

Article 12. Limitations of contractual liability

The liability of either Party for any breach of this Agreement, or arising in any other way out of the subject-matter of this Agreement, shall not extend to incidental indirect or consequential damages or losses, including (without limitation) any loss of profits, loss of goodwill, loss of revenue, loss of data, loss of contracts or opportunity, whether direct or indirect, even if the party bringing the claim has advised the other of the possibility of those losses, or if were within the other party's contemplation.

Subject to the applicable law, the maximum limit of a Party's liability, whether in contrast, tort, negligence, breach of statutory duty or otherwise shall not exceed a sum equal to once time the aggregate of the contribution received by the *Subcall Party* under this Agreement. Such a limitation shall not be applicable in case of wilful act or gross negligence of *Subcall Party*.

Article 13. Applicable law and competent court

This *sub-grant agreement* shall be construed in accordance with and governed by the discipline of the Programme Horizon 2020 and the laws of Belgium.

The parties shall endeavour to settle their disputes amicably. All disputes arising out of or in connection with this agreement, which cannot be solved amicably, shall be finally settled by the ZDMP EXEC.

Article 14. Entry into force of the sub-grant agreement

This *sub-grant agreement* shall enter into force after its signature by the *Subcall Party* and the *Coordinator*, on the day of the last signature and shall be retrospective from the date of the start of the project

For the *Subcall Party*   *For the Coordinator*

....
[(NAME OF COMPANY,
NAME OF PROJECT,
ACRONYM OF PROJECT)   [UNINOVA signatory,
Name, date, and signature]   date and signature]

Contact Information

[Contact name]   Prof. Virgílio Cruz Machado,
                                                         President of Administrative Board,
[Organisation]   UNINOVA
[Telephone]   +351 21 294 85 10
[E-Mail]   pass@uninova.pt and
                                                        mjl@uninova.pt

                                                        Prof. João Carlos Lima,
                                                         Member of Administrative Board
                                                        UNINOVA
                                                        +351 21 294 85 10
                                                        pass@uninova.pt and
                                                        mjl@uninova.pt

Contract Enclosures:

Annex "A" Workplan

ZERO DEFECTS

Manufacturing Platform

ZDMP

www.zdmp.eu