EUROPEAN COMMISSION

HORIZON 2020 PROGRAMME - TOPIC LC-SC3-RES-23-2019

Development of next generation biofuel and alternative renewable fuel technologies for aviation and shipping

GRANT AGREEMENT No. 883753

IDEALFUEL

Lignin as a feedstock for renewable marine fuels

IDEALFUEL – Deliverable Report

D8.1 – Project Management Plan

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| **Deliverable No.** | D8.1 |  |
| **Related WP** | WP 8 |  |
| **Deliverable Title** | Project Management Plan (Project Handbook) |  |
| **Deliverable Date** | 30-06-2020 |  |
| **Deliverable Type** | REPORT |  |
| **Dissemination level** | Confidential – consortium members only (CO)  |  |
| **Lead Beneficiary** | UNR |  |
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| **Status** | V1 |  |

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This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883753. The information and views set out in this publication does not necessarily reflect the official opinion of the European Commission. Neither the European Union institutions and bodies nor any person acting on their behalf, may be held responsible for the use which may be made of the information contained therein.

**Summary**

Deliverable D8.1 concerns the Project Management Plan (Project Handbook) for the IDEALFUEL project. The Handbook contains an overview of management bodies and documents needed in the day-to-day project practise. The document is based on the Description of the Action (DoA), the Grant Agreement, and the Consortium Agreement. Next to summarising the project structure, all procedures relevant to the project execution are described. These procedures are intended to improve decision making, progress monitoring, communication and management of changes, innovations, and risks. They intend to assure a high quality and timely delivery of all deliverables in the IDEALFUEL project. There are no deviations from the description of this deliverable as given in Annex I of the Grant Agreement.

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# Project Management Plan

Deliverable D8.1 concerns the Project Management Plan (Project Handbook) for the IDEALFUEL project. The deliverable is part of Work Package (WP) 8 - Project management, administration, and technical coordination. In addition to D8.1, WP8 includes two updates to the Management Plan (D8.3 and D8.4 planned for M17 and M29, respectively) and a Risk and Mitigation Plan (D8.2, planned for M12).

The Project Management Plan is based on Annex I to the Grant Agreement (the “Description of the Action” (DoA)) and further agreements proposed by the management team and discussed during the project Kick-off Meeting (28 May 2020). It is meant to be a clear, sharp, comprehensive, and easily accessible guideline for the IDEALFUEL project.

## Structure of Work Packages

This section describes how the tasks in the IDEALFUEL project, organised in Work Packages, are related to each other. Additionally, the IDEALFUEL management structure will be addressed.

Overall, the IDEALFUEL project activities are divided into eight Work Packages. These WPs consist of 1 management WP, 1 WP concerning ethics requirements, 1 WP for dissemination, communication, and exploitation activities, and 5 technical WPs. An overview of the WP structure and interdependencies is presented in Figure 1‑1.

****

Figure ‑ Work Package Structure

**WP1 – Ethics requirements** ensures compliance with the ethics requirements.

**WP2 – Extraction of lignin from biomaterials** aims to set up a production line and optimise the process for the production of oligomers.

**WP3 – Catalytic processes for the upgrade of CLO to HFO-like marine fuels** aims to develop, synthesize, and shape for piloting activities a robust solid catalyst, and determine optimal reaction process conditions therefor, for the hydrotreating of concentrated methanolic crude lignin oils into a biogenic fuel and to produce 2 metric tons of a sulphur-free CLO-based biofuel.

**WP4 – Characterisation of lignin-based engine fuels** aims to characterise and benchmark Bio-HFOs and the side-streams and evaluate their technical potential for other applications.

**WP5 – Technical Feasibility of lignin-based fuels in ship engines** aims to assess the technical feasibility of lignin-based fuels in ship engines.

**WP6 – Guidelines for market uptake** aims to evaluate technical and economic aspects such as efficiencies and costs compared to fossil fuels, sustainability and environmental impacts and to perform a market assessment and provide recommendations on standardization issues and legislative framework.

**WP7 – Dissemination, Communication and preparative Exploitation activities** aims to establish an appropriate and effective communication of the project results to relevant stakeholders, industries, suppliers and the fuels and ports community in general and to pave the way to exploitation of the IDEALFUEL results. Further, the Sounding Board setup and management is included in this WP.

**WP8 – Project Management** focuses on the efficient execution of the IDEALFUEL project, the maintenance of the Consortium Agreement and the Grant Agreement, and the protection of the intellectual property rights (IPR) of the consortium.

The Gantt chart in Figure 1‑2 presents an overview of the schedule for each WPs and their (sub)tasks. The chart also includes the timing of deliverables and milestones.





Figure ‑ Gantt Chart

## Management Structure and Consortium Bodies

The project coordination is based on a philosophy of management by objectives, in which delegation of responsibility, communication, trust and realistic objectives are the key of the management structure. Partners are requested to provide frequent feedback on their progress and any potential problems. The focus is on communication, cooperation, and shared responsibility. The overall goal is to identify problems early and undermine any negative effects efficiently and effectively before unwanted consequences become unavoidable. An overview of the management structure and the different Consortium Bodies is presented in Figure 1‑3. The following sections will present each of the Consortium Bodies and their function.



Figure ‑ Management structure

### General Assembly

The General Assembly (GA) is the ultimate decision-making body of the consortium. The GA will discuss and decide on overall project management, strategic management issues and contract amendments. Typical subjects for GA meetings are: project status and evolution, review of resource status, major changes in the work plan including re-distribution of budget, major changes in dissemination and exploitation strategy, and co-operation with third parties and related projects. Furthermore, the GA will be an effective and efficient communication hub. The GA is composed of one representative of each consortium partner. Each of these will have one vote in the GA. More detailed voting mechanisms and detailed responsibilities can be found in the Consortium Agreement Section 6 – Governance structure. GA meetings will be convened every 6 months. The meetings will be chaired by the Project Coordinator. A summary of GA functions is presented in Table 1‑1.

Table ‑ Overview of composition, roles, responsibilities, and meeting schedules for the General Assembly and the Work Package Leader's Board

|  |  |  |
| --- | --- | --- |
| General Assembly (GA) | Structure | Work Package Leaders’ Board (WPLB) |
| One representative per partner | **Members**  | All Work Package Leaders |
| Project Coordinator | **Chair** | Project Coordinator  |
| Decision body and high-level steering of the project in terms of scientific goals, progress, finance, quality, dissemination and exploitation | **Tasks** | Keep track of monthly progress, preparation of changes to the project in terms of scientific goals, finances, quality, risk management, dissemination and exploitation |
| Every 6 months, additional meetings when needed | **Meeting intervals** | 1x per month (mostly teleconferences) |
| Chairperson, in writing no later than: 45 calendar days before, 15 for extraordinary meeting | **Notice** | Chairperson, in writing no later than: 15 calendar days before, 7 for extraordinary meeting |
| Chairperson distributes (WPLB prepares), 21 calendar days before, 10 for extraordinary meeting. Adding agenda items: 14 days before, 7 for extraordinary meeting, anonymously add item at meeting | **Agenda** | Chairperson prepares and distributes, 7 calendar days before. Adding agenda items: 2 days before |
| Chairperson, draft to all members within 10 days of meeting. Accepted: if no objection within 15 days of sending. Chairperson distributes accepted minutes to all members and coordinator  | **Minutes** | Chairperson, draft to all members within 10 days of meeting. Accepted: if no objection within 15 days of sending. Chairperson distributes accepted minutes to all members and coordinator. Coordinator sends accepted minutes to GA members for information |
| 2/3 members must be present/represented2/3 majority vote (unanimous for new party)  | **Voting**  | 2/3 members must be present/represented2/3 majority vote (unanimous for new party)  |

### Work Package Leader’s Board

The Work Package Leader’s Board (WPLB) is the supervisory body for the project execution at an operational level. It is composed of the Work Package Leaders (or deputies) and the Project Coordinator and shall report to and be accountable to the General Assembly. Work Package Leaders will report on the research progress of their WP to the WPLB. Work Package Leader’s Board meetings will take place monthly by telecon. The following tasks will be carried out by the Work Package Leaders’ Board:

* Monitoring and control of the technical progress in the work packages, project schedule and deliverables;
* Assuring cooperation and integration between the work packages;
* Providing methodological and technical assistance to all work packages and tasks;
* Regular risk analysis and preparation of contingency plans, if required;
* Conducting periodic progress meetings on a monthly basis via teleconferences;
* Conducting meetings with the Sounding Board (2-4 meetings at least);
* Prepare changes which need decisions to be taken in the General Assembly.

 A summary of WPLB functions is presented in Table 1‑1.

### Work Package Leaders

The Work Package Leaders (WPLs) will coordinate the activities related to their WP and will oversee and lead the technical developments, overall coherence, and technical implementation of the WP tasks (together with the Task Leader) to ensure that WP goals are met on time and within budget restrictions. The WPLs will coordinate and chair their own WP meetings. Each WPL has the following tasks:

* Maintaining monthly contact with the task leaders and coordination of the activities within the work package;
* Ensuring completion of work package activities and deliverables on time, within budget and of high quality;
* (In)formal reporting on work package progress, quality and risk status to the coordinator and WPLB.
* Reviewing and approval of all formal work package deliverables;
* Managing of risks within the work package;

For **task leaders** a similar set of tasks as for work package leaders is valid, be it on a task level.

The names of the appointed WP Leaders (and deputies) are listed in Table 1‑2.

Table ‑ Work Package Leaders and deputies

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WP No. | WP Title | Lead Beneficiary | WP Leader | WP deputy |
| WP1 | Ethics requirements | TUE | Roy Hermanns |  |
| WP2 | Extraction of lignin from biomaterials/ Biomass conversion to CLO | VERT | Panos Kouris | Michael Boot |
| WP3 | Catalytic processes for the upgrade of crude lignin oil into HFO-like marine fuel | CSIC | Marcelo Domine | Gonzalo Pietro |
| WP4 | Characterisation of lignin-based engine fuels | OWI | Sangeetha Ramaswamy |  |
| WP5 | Technical feasibility of lignin basedfuels in ship engines | TUE | Bart Somers | Roy Hermanns |
| WP6 | Guidelines for market uptake including policy recommendationsand a sustainability chain evaluation | GOOD | Rianne de Vries |  |
| WP7 | Dissemination, communication, and preparative exploitation activities incl. market uptake | UNR | Eva Bøgelund | Irene Lamme |
| WP8 | Project management, administration and technical coordination | TUE | Roy Hermanns | Eva Bøgelund |

### Project Coordinator

The designated Project Coordinator (PC) of the IDEALFUEL project is Roy Hermanns, Program Manager at Eindhoven University. The Project Coordinator’s most important task is to ensure *completion of the work* *in time, within budget, and to a high quality*. The PC is the *primus inter pares* and as such responsible for the overall project management, including coordination of the scientific and technical work plan, innovation management, and preparative exploitation activities. Of course, all consortium partners have their responsibility to perform the tasks they are assigned to *in time, within budget, and to a high quality*. The Project Coordinator is also the intermediary between the consortium partners and the EC Project Officers.

The following tasks will be carried out by the Project Coordinator:

* Overall technical coordination of the scientific and technical work plan;
* Maintaining contact with the EC (via the project officer);
* Notifying the project officer of developments that may require amendments of the Grant Agreement;
* Providing overviews of the work progress to the EC project officer;
* Final review and approval of deliverables submitted to the EC and material to be disseminated (together with the WP leaders);
* Chairing General Assembly, Work Package Leaders’ Board and Sounding Board meetings;
* Preparing and attending scheduled review meetings with the EC project officer.

### Management Support Team

A Management Support Team (represented by UNR) will assist the Project Coordinator and Work Package Leaders’ Board with managerial, organisational and secretarial duties, administration and archiving work, such as:

* Support the Project Coordinator in the daily management of the project;
* Act as contact point for all partners and maintaining a high level of communication within the consortium;
* Organising and documenting project meetings such as General Assembly, Work Package Leaders’ Board, and Sounding Board meetings, including distributing documents before and after meetings;
* Managing deliverables and administrative documents, e.g. financial plans, (progress) reports and presentations;
* Producing and updating overviews of consortium expenses and deviations and keeping track of financial transactions between the EC and the consortium;
* Coordinate the preparation of the periodic management reports and the final report;
* Collect, check, and send to the EC the required cost statements, on basis of the scheduled plan, using the systems as provided by the EC.

### Sounding Boards

A Sounding Board (SB) has been established to advise and help guide the process of defining the recommendations for implementation of the Bio-HFO developed within IDEALFUEL. The Sounding Board will be invited to 2-4 specific meetings/workshops to provide feedback on intermediate results, milestones, critical risks and input from an end user/stakeholder perspective, like market developments. Consortium partner GOOD is responsible to organise specific meetings/workshops of the Sounding Board.

The current members of the Sounding board are listed in Table XXX

Table of SB members:

International Maritime Organization (IMO),

* Concawe,
* BICEPS Network,
* Maersk,
* Port of Rotterdam,
* Platform Duurzame Biobrandstoffen and Bremen,
* PTB.

New members can be added upon unanimous approval of the General Assembly.

### Innovation Management Team

Innovation management is a process which requires an understanding of both market and technical problems, with a goal of successfully implementing appropriate creative ideas. Consortium partner TUE will lead as main innovation manager. Together with the other project’s innovation managers: GOOD, T4F, and VERT with the support of UNR, TUE will undertake the innovation management in the IDEALFUEL project. In the table below the roles per partner are identified.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Partners/Task | TUE | GOOD | T4F | VERT | UNR |
| Lead innovation team | R | S | S | S | S |
| Identification of results | R | I | I | S | S |
| Overview of intellectual property | R | I | I | S | S |
| Exploitation | S | S | S | R | S |
| Dissemination | S | S | S | S | R |

R (responsible), S (support), I (information exchange)

# Management Procedures and Progress Monitoring

In this chapter, all management procedures and tools for the general management and progress monitoring of the project will be addressed.

## External project monitoring

The external project reporting covers all formal periodic reports (PR1: from M1-M18, PR2: from M19-M30, and PR3: from M31-M48) and continuous reports (deliverables and milestones). The content of these reports will be outlined in the following sections. Further details can be found in the Grant Agreement, Article 20 – Reporting.

### Periodic reporting

The periodic report must be submitted by the PC to the EC within 60 days following the end of the reporting period. The report must contain:

1. A technical report including:
* a summary
* an explanation of the work carried out during the reporting period
* an overview of the progress towards the project objectives, justifying the deviations from the work expected under Annex I of the Grant Agreement, if any
* an overview of communication activities and updates to the plan for exploitation and dissemination of results, if any
* answers to the ‘questionnaire’ in the context of the Horizon 2020 key performance indicators and the Horizon 2020 monitoring requirements;
1. A financial report consisting of structured forms from the online grant management system, including:
* individual financial statements (Annex 4 to the GA) for each beneficiary
* an explanation of the use of resources and the information on subcontracting and in-kind contributions provided by third parties, from each beneficiary during the reporting period
* a periodic summary financial statement including the request for interim payment.

In addition to the periodic reports, the PC must submit the Final Report within 60 days following the end of the last reporting period.

### Continuous Reporting: Deliverables and Milestones

The Project Coordinator must submit the Deliverables and Milestones identified in Annex 1 of the Grant Agreement in accordance with the timing and conditions set out wherein. More information on the monitoring, preparation, quality review, and submission of Deliverables and Milestones can be found in Chapter 4 – Quality Assurance.

## Internal project monitoring

General Assembly (GA) meetings will be held on a regular basis to facilitate the progress monitoring. The consortium has established the following GA meeting calendar to supervise the progress of the activities:

Table ‑ Project progress monitoring: tentative GA meeting schedule

| Meetings | Month | date | Participants | (Proposed) location |
| --- | --- | --- | --- | --- |
| GA 1: Kick off | 1 | May 2020 | All partners and EC officer (invited) | Remotely via GoToMeeting |
| GA 2  | 6 | Oct 2020 | Partner representatives and EC officer (invited) |  |
| GA 3 | 13 | May 2021 | Partner representatives and EC officer (invited) |  |
| GA 4& Review meeting | 18 (or later) | Oct 2021 (or later) | Partner representatives and EC officer  | Brussels |
| GA 5 | 24 | April 2022 | Partner representatives and EC officer (invited) |  |
| GA 6 | 30 | Oct 2022 | Partner representatives and EC officer (invited) |  |
| GA 7& Review meeting | 36 (or later) | April 2023 (or later) | Partner representatives and EC officer  | Brussels |
| GA 8 | 42 | Oct 2023 | Partner representatives and EC officer (invited) |  |
| Final Event | 48 | April 2024 | Partner representatives and EC officer (invited) |  |
| Final review meeting | 48 (or later) | April 2024 (or later) | Partner representatives and EC officer  | Brussels |

In addition to the GA meetings, all consortium partners are requested to complete a short internal progress report every 6 months. This report should indicate any problem regarding meeting deadlines, completing the work as planned, and budgets. The purpose of the internal progress report is to set up and maintain an ‘early-warning’ system (for possible technical and financial risks) via clear, simple and transparent procedures. Reporting will involve:

* Progress made in the partner’s work in specific WPs
* Deviations from the DoA (if any)
* Status of Deliverables
* Status of Milestones
* Financial report (via EU-fin, see following sub-sections): a simple overview (per pertner) of the costs and PMs spent in the specific period, including short clarification. Deviation from Annex I of the Grant Agreement with respect to the budget should also be reported.

Furthermore, WP Leaders will be requested to provide a brief report on the major achievements, (novel) risks, and problems encountered (critical or not critical) of the WP. When relevant or deemed necessary, the internal progress reports will be discussed during GA meetings.

 In addition, the status of risks as identified in the risk management table (Table 1.3.5 of Annex 1 of the GA) will be evaluated at all General Assembly meetings. This evaluation should indicate whether risks are properly addressed or whether actions are needed are needed (see Section X on risk management); if necessary extra risks (unforeseen during the proposal preparation) will be added and monitored.

The following sections will introduce the management tools that will be used for internal project monitoring and reporting. UNR will setup and prepare these tools.

### Management tools

### Mett

The management tool [Mett](https://uniresearch.mett.nl/h2020%2Bprojects/safelimove/default.aspx) will be used as platform for the partners to exchange and archive documents. Special pages are dedicated to the different documents of the project (deliverables, periodic reports, video and photos, contact list etc). An impression of the Mett interface is presented in Figure XXX

Meet figure

### EU-fin

This tool allows the coordinator to generate automatically cost reports comparing e.g. the actual expenses versus the budget per beneficiary, WP, activity, etc. Other functionalities are creating charts for comparing deliverables planned vs. actual, budget planned vs. actual, etc.

At the beginning of the project, a financial planning will be prepared (by UNR) in EU-Fin. In there the total project costs for each period will be divided among the different WPs (according to the budget file prepared during the proposal preparation) and categories. Every 6 months the partners will be asked to report on project costs. This information will also be used to complete the official periodic reports (after M18, M36 and M48).

## Decision making

The project will be governed by the Grant Agreement signed with the European Commission and the Consortium Agreement (CA) signed among the partners, both before the project’s official launch. The CA, based on DESCA model, covers all the relevant issues necessary for the proper execution of the project such as the responsibilities (including Project Coordinator, GA, Exploitation and Innovation Manager and individual parties), liabilities, voting rules, joint-ownership, background knowledge, intellectual property rights, knowledge management, grant distribution, rules for publishing information, conflict resolution, admission of new partners, etc.

The voting rules and quorum for the GA are:

* The GA shall not deliberate and decide validly unless two-thirds (2/3) of its members are present or represented (quorum).
* Each member of the GA present or represented in the meeting shall have one vote.
* Decisions shall be taken by two-thirds (2/3) of the votes with exception of decisions concerning the entry of a new Party, any amendment to the Grant Agreement or the exclusion of a party in which cases the votes have to be unanimous.

## Change management

In this collaborative project, involving 15 partners, a shift in the 48 months’ planning or a change in the budget may happen. This is quite normal but these changes shouldn’t come as a surprise. Therefore, the project management team and the entire consortium are committed to maintain an open and transparent communication system.

### Changes in budget

Each partner is requested to:

* Report immediately, as soon as the possibility of a budget modification is considered, to the coordinator.
* Provide the financial report each 6 months and clearly report on the expenditures and financial planning.

The coordinator together with the project management team will evaluate the situation, propose scenarios and possible solutions, and inform accordingly the Project Officer for further discussion and alignment.

Below a list of the most common situations which may raise:

* Budget shift at partner level (only one partner involved, the total costs are not changing): some budget needs to be shifted from one WP to another or from one category to another (e.g. from travel to ‘other direct costs’) -> in principle no amendment to the Grant Agreement will be necessary, but this should be discussed with the Project Officer. Convincing justification should be provided.
* Budget shift between partners -> in principle no amendment to the Grant Agreement will be necessary, but this should be discussed with the Project Officer. Convincing justification should be provided.
* Changes in subcontracting/new subcontracting. An amendment to the Grant Agreement is probably necessary. Partners should inform the project management team as soon as possible and provide convincing justification. The project management team will contact the Project Officer.

### Changes in personnel or roles

A project contact list is available on Mett and maintained updated by UNR with inputs from all partners. Changes in personnel need to be communicated to the project management team (this project is dealing with confidential research information and in case someone leaves the team it is important to remove his/her access to the project document database).

Furthermore:

* Changes at GA and WPL/WPLB level need to be presented and discussed during the GA/WPLB-meetings.
* In case of change of the Coordinator an Amendment to the Grant Agreement will be necessary.

### Changes in technical content and timing

Each change related to the technical content and timing needs to be reported to the Project Officer (via the Project Coordinator).

Minor re-planning and re-alignment of the activities may be implemented but in case of changes in the scope/objectives of a specific WP an Amendment to the Grant Agreement will be necessary.

Partners are requested to immediately report possible changes to the WP Leader who will evaluate the situation and inform the management team.

# Risk management

As part of the overall management plan for the IDEALFUEL project, this chapter describes the risk management plan. It identifies conditions that may put the project at risk and provides guidance for managing these. It also provides methods for the risk management process and establishes roles and responsibilities of all participants in this process.

## Risk Analysis

Since the probability of failure in research and innovation projects is considerable, risk factors in the IDEALFUEL work plan should be analysed on a regular basis. Therefore, WP8 contains the Deliverable 8.2 which is dedicated to the Risk and Mitigation Plan. D8.2 will include a detailed risk management plan and will aim to identify possible risks that may hamper the project outcomes or in broader sense the market introduction of the IDEALFUEL project. The Risk and Mitigation Plan will be updated throughput the project.

Risks are approached according to the steps which together form the “circle” of risk management:

* Identify 🡪 In this step, risks are identified, with the moments at which they could occur and the specific symptoms of the risks.
* Analyse 🡪 Here, the risk is analysed further, looking also into the potential effects and consequences of the risk.
* Plan 🡪 In this step, plans are developed for management of the specific risk, as well as contingency plans.
* Monitor 🡪 The actual status of the risk is monitored, using e.g. the risk symptoms as identified in the first step.
* Respond 🡪 The specific risk management plan is put into action, when the monitoring step has shown the need for this. Actions are taken here to prevent the risk from happening full force or to avoid undesired consequences of the risk.

The risk management circle formed by these five steps will continuously be performed during the project.

## Critical risks and risk mitigation

In table 5, an overview is presented of the most important risks and potential mitigation strategies (as listed in section 1.3.5 of the Grant Agreement Annex 1 (part A)). Other risks may materialise and will be reported during the internal and periodic project reporting moments, as described above.

Table 3‑1 Identified risks and their mitigation measures

| Risk No. | Description of risk | WP Number | Proposed risk-mitigation measures |
| --- | --- | --- | --- |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## Role of the partners and the Project Coordinator in risk management

The monitoring of risks, and the reporting of new, as yet unidentified risks, will be a task of everyone involved in IDEALFUEL. The General Assembly assesses the possible occurrence of the risks and decides on the mitigation measures or, when required, a modification of the work plan.

The roles and responsibilities in risk management are:

* **Task Leaders**: will identify risks, develop mitigation strategies and contingency plans for their tasks and monitor risks. Report potential risk factors to their Work Package Leader.
* **Work Package Leaders**: will consolidate risks and develop mitigation strategies and contingency plans on WP level. WPLs will report potential risk factors to the Project Coordinator and to other WPLs via the WPLB.
* **Project Coordinator**: is responsible for the risk management of the whole project. Identifies risk, develops mitigation strategies and contingency plans, monitors risk and reports risk status in the periodic progress reports to the EC, including planned contingency measures.

# Quality Assurance

## Quality Assurance for Deliverables

The term “Deliverables” refers to the formal IDEALFUEL project Deliverables as described in the Grant Agreement Annex I (part A). An overview of all formal IDEALFUEL Deliverables is presented in Table 5. To ensure their quality, all Deliverables will undergo internal review before submission. This review is conducted by the Leader of the WP to which the Deliverable belongs, 2 experts from the consortium who are working in the WP but not directly involved in the writing of the Deliverable, and the Project Coordinator.

Each reviewer will use the standard review form (see Annex A of this document) to document his/her review findings. After reviewing, the reviewer sends his/her comments to the Deliverable authors. The author(s) revises the Deliverable according to the quality assurance review form within a maximum of seven days after receiving the review request. The WP Leader ensures that requested improvements are implemented by the author(s). The Project Coordinator performs the final review.

Once the Deliverable is approved by the Project Coordinator, the Project Coordinator/Management Team submits the deliverable to the EC in electronic form (PDF) via the SyGMa portal. The project Management Team stores the submitted Deliverables on Mett (section Documents / SUBMITTED DELIVERABLES / Dx.x /).

All Deliverables will show to have followed the Quality Assurance procedure by indicating in the Deliverable itself the review form and the names of the persons who have performed the quality review.

A template for Deliverables will be provided by UNR. The template will include the following section which are mandatory for all technical Deliverables:

* Public executive summary
* Core content (approx. 10-15 pages): core technical development of Deliverable with clear description of the work carried out, results, and discussion (based on the provided technical information)
* Risk table: overview and description of encountered risks (if any) and mitigation actions.
* Conclusions and recommendations for future work including foreseen risks/challenges.

### Timeline for Review and Approval

The review and approval of Deliverable should recognise the following timeline and steps to ensure that all Deliverables are of high quality and submitted on time:

|  |  |  |
| --- | --- | --- |
| **Submission Date** | **Action** | **Action by** |
| **D- XX** | Check on timely planning and prepare for supporting actions as necessary | WP Leader with Authors |
| **D-21** | Present full draft of Deliverable for quality review to Reviewers | Author |
| **D-14** | Comments returned to Author (in case of major modifications following the first round of reviews, revisit review procedure and take measures as necessary) | Reviewers |
| **D-7** | Updated Deliverable to WP Leader for approval | Author |
| **D-2** | Finalised Deliverable to Project Coordinator for approval | WP Leader |
| **D** | Submit deliverable to EC | Project Coordinator  |

Figure ‑ Overview of deliverable review process

Table 5 presents an overview of project Deliverables and assigned reviewers.

Table of deliverables with reviewers

## Approval Procedure for Milestones

WP Leaders are responsible for the achievement of WP related milestones. WP Leaders report to the WPLB if they think a milestone has been achieved and the means of verification as reported in the DoA have be met. The Milestone will be discussed in the WPLB and presented at the following General Assembly. The partner responsible for the Milestone will provide a short report to describe the Milestone achievement. When a Milestone has been achieved, the Project Coordinator/Management Team will report it to the EC. The Milestones are listed in Table X.

Table 4‑2 List of milestones

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| MS | MS title | WP number | Lead beneficiary | Due date (month) |
|  |  |  |  |  |
|  |  |  |  |  |
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|  |  |  |  |  |

# Communication

Internal communication will be stimulated as much as possible by the Management Team and the GA members. Frequent teleconferences and meetings will be organised among partners.

## Acknowledgement of EU funding

*From Article 29.4 of the Grant Agreement:*

Unless the Agency requests or agrees otherwise or unless it is impossible, any dissemination of results (in any form, including electronic) must:

1. display the EU emblem and

(b) include the following text:

“This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 883753”.

When displayed together with another logo, the EU emblem must have appropriate prominence. For the purposes of their obligations under this Article, the beneficiaries may use the EU emblem without first obtaining approval from the Agency. This does not however give them the right to exclusive use. Moreover, they may not appropriate the EU emblem or any similar trademark or logo, either by registration or by any other means.

*From Article 29.5 of the GA:*

Any dissemination of results must indicate that it reflects only the author's view and that the Agency is not responsible for any use that may be made of the information it contains.

## Early information of planned dissemination

*From Article 8.4.1.1 of the Consortium Agreement:*

During the Project and for a period of 1 year after the end of the Project, the dissemination of Results by one or several Parties including but not restricted to publications and presentations, shall be governed by the procedure of Article 29.1 of the Grant Agreement subject to the following provisions.

Prior notice of any planned publication shall be given to the other Parties at least 21 calendar days before the publication. Any objection to the planned publication shall be made in accordance with the Grant Agreement in writing to the Coordinator and to the Party or Parties proposing the dissemination within 21 calendar days after receipt of the notice. If no objection is made within the time limit stated above, the publication is permitted.

## Internal communication

Some simple rules for internal emails:

* Start your message subject with: IDEALFUEL
* Use e-mail responsibly: do not overuse/spam
* Use Mett for sharing large documents
* Make clear what you expect from others (detail, timing, how to receive)
* Confidentiality: mark your messages if the info is confidential

Contact list:

* Contact list is maintained by UNR
* Partners are to make sure the correct info is at UNR
* Contact list can be found on Mett

# Risks

At this stage, no risks linked to D8.1 have been identified.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Risk No. | What is the risk | Probability of risk occurrence1 | Effect of risk1 | Solutions to overcome the risk |
| WP8 | n/a |  |  |  |

1) Probability risk will occur: 1 = high, 2 = medium, 3 = Low

# IPR

Any identified IDR? Set up a standard session in deliverable to report on this.

# Acknowledgement

The author(s) would like to thank the partners in the project for their valuable comments on previous drafts and for performing the review.

**Project partners:**

|  |  |  |
| --- | --- | --- |
| # | Partner | Partner Full Name |
| 1 |  |  |
| 2 |  |  |
| 3 |  |  |
| 4 |  |  |
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| 6 |  |  |
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| --- | --- |
| http://elastic.studioh2o.nl/image.php/userdata/image/ec_1.gif?width=150&height=150&image=/userdata/image/ec_1.gif | *This project has received funding from the European Union’s Horizon 2020 research and innovation programme under Grant Agreement no. 883753* |

# Annex A – Quality Assurance Review Form

The following questions should be answered by all reviewers (WP Leader, reviewer 1, reviewer 2, and the Project Coordinator) as part of the Quality Assurance procedure. Questions answered with NO should be motivated. The deliverable author will update the draft based on the comments. When all reviewers have answered all questions with YES, only then can the Deliverable be submitted to the EC.

NOTE: This Quality Assurance form will be removed from Deliverables with dissemination level “Public” before publication.

|  |  |  |  |
| --- | --- | --- | --- |
| Question | WP Leader | Reviewer(s) | Project Coordinator |
|  | NAME | NAME | NAME |
| 1. Do you accept this Deliverable as it is?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is the Deliverable complete?
* All required chapters?
* Use of relevant templates?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Does the Deliverable correspond to the DoA?
* All relevant actions preformed and reported?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is the Deliverable in line with the IDEALFUEL objectives?
* WP objectives
* Task Objectives
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is the technical quality sufficient?
* inputs and assumptions correct/clear?
* Data, calculations, and motivations correct/clear?
* Outputs and conclusions correct/clear?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is created and potential IP identified and are protection measures in place?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is the Risk Procedure followed and reported?
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |
| 1. Is the reporting quality sufficient?
* Clear language
* Clear argumentation
* Consistency
* Structure
 | Yes / No (elaborate) | Yes / No (elaborate) | Yes / No (elaborate) |