



"This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 813884".



Project Number: 813884

Project Acronym: Lowcomote

Project title: Training the Next Generation of Experts in Scalable Low-Code Engineering Platforms

H – REQUIREMENT No.1

Project GA: 813884

Project Acronym: Lowcomote

Project website: <https://www.lowcomote.eu/>

Project officer: Anna Starace

Work Package: WP7

Deliverable number: D.7.1

Production date: 29/12/2019

Contractual date of delivery: 31/12/2019

Actual date of delivery: 6/01/2020

Dissemination level: Confidential, only for members of the consortium (including the Commission services)

Lead beneficiary: IMT Atlantique

Authors: Marie Chastanet, Prof. Manuel Wimmer, Prof. Johannes Sametinger, Massimo Tisi

Contributors: Denise Derrien-Péden, Robert Malek

HISTORY OF CHANGES		
Version	Publication date	Changes
0.1	Nov. 19, 2019	▪ Initial version
1.0	Dec. 29, 2019	▪ Final version

Project Abstract

Low-code development platforms (LCPD) are software development platforms on the Cloud, provided through a Platform-as a-Service model, which allow users to build completely operational applications by interacting through dynamic graphical user interfaces, visual diagrams and declarative languages. They address the need of non-programmers to develop personalised software, and focus on their domain expertise instead of implementation requirements.

Lowcomote will train a generation of experts that will upgrade the current trend of LCPDs to a new paradigm, Low-code Engineering Platforms (LCEPs). LCEPs will be open, allowing to integrate heterogeneous engineering tools, interoperable, allowing for cross-platform engineering, scalable, supporting very large engineering models and social networks of developers, smart, simplifying the development for citizen developers by machine learning and recommendation techniques. This will be achieved by injecting in LCDPs the theoretical and technical framework defined by recent research in Model Driven Engineering (MDE), augmented with Cloud Computing and Machine Learning techniques. This is possible today thanks to recent breakthroughs in scalability of MDE performed in the EC FP7 research project MONDO, led by Lowcomote partners.

The 48-month Lowcomote project will train the first European generation of skilled professionals in LCEPs. The 15 future scientists will benefit from an original training and research programme merging competencies and knowledge from 5 highly recognised academic institutions and 9 large and small industries of several domains. Co-supervision from both sectors is a promising process to facilitate agility of our future professionals between the academic and industrial world.

Table of contents

Project Abstract	4
Table of contents	5
Introduction	6
1. Procedures and criteria used to identify/recruit research participants	7
2. Informed consent procedures implemented for the participation of humans	7
3. Templates of the informed consent/assent forms and information sheets	7
Informed consent form	9
Information sheet	11

Introduction

The present document is a deliverable of the Lowcomote project (Grant Agreement n°813884), funded by the European Commission Research Executive Agency (REA), under the Innovative Training Networks Programme of the Marie Skłodowska Curie Actions (H2020-MSCA-ITN-2018).

The purpose of this document is to provide detailed information about strategy and procedures related to ethics issues in the project as referred to in the Ethics Summary Report issued on 7th May 2019 by the European Commission, and listed in the Grant Agreement of the project (Annex 1 part A). All ethical issues will be addressed in the context of Early-Stage Researcher (ESR) 7 “Mining Interaction Processes in Low-Code Engineering Platforms”, planning user studies to verify the efficiency of the developed interaction mining framework.

In particular, the Ethics Summary Report highlighted in “humans” (H) section that “It is not explained how the participants for the user studies are recruited. Also, information about the informed consent procedures and information sheets is lacking.” (p.1)

Therefore, the present document will detail solutions for the following issues as listed in the Grant Agreement (Annex 1 part A):

- 2.1. The procedures and criteria that will be used to identify/recruit research participants
- 2.2. The informed consent procedures that will be implemented for the participation of humans
- 2.3. Templates of the informed consent/assent forms and information sheets (in language and terms intelligible to the participants)

1. Procedures and criteria used to identify/recruit research participants

In the context of ESR7 "Mining Interaction Processes in Low-Code Engineering Platforms", hosted by Johannes Kepler University of Linz (JKU), user studies are planned to verify the efficiency of the developed interaction mining framework. These users will be selected among the people directly involved in Lowcomote as well as students from the different academic partners. All users will receive an informed consent form explicitly stating the purpose of the study and the personal data which will be recorded. The data will be anonymized before usage. Furthermore, the participants will have the right to withdraw at any point in time and request the deletion of any kind of stored data about their participation. We will fully ensure compliance with GDPR, by applying the guidelines concerning data protection and privacy of JKU. The whole process will be monitored by the DPO of JKU appointed to the project.

Participants for the studies will be recruited from students attending courses of project members. Participation is completely voluntary and has no effect on the results of the lectures.

2. Informed consent procedures implemented for the participation of humans

Consent is the **lawful basis** in order to process personal data in WP7 of the project. An information sheet with information about the research project will be provided to the participants. Also, an informed consent form will be provided that has to be filled out by participants and signed in order to signal consent for participating in the study.

3. Templates of the informed consent/assent forms and information sheets

A template for informed consent has been provided including the following points:

- Identity of the controller.
- Contact details of the DPO
- Purpose of each processing operation where consent is the legal ground.
- Data and type of data that will be collected and used through consent.
- Recipients or types of recipients of the personal data.
- Duration of storage of personal data or how that duration is determined.
- The fact that there is a right to withdraw consent.
- Notification regarding the right to access, rectification, erasure, restriction of processing, objection to processing and data portability.

When one of the partners will collect personal data, consent from participants will be obtained by the partner. For that purpose, the template will be adapted to the specific data collection activity. The data that will be shared with other members of the consortium or with the research community will include only curated data to remove any possibility to retrieve private information.

Scientist in Charge at JKU: Manuel Wimmer, manuel.wimmer@jku.at, +43 732 2468 4241

DPO at JKU: Johannes Sametinger, johannes.sametinger@jku.at, +43 732 2468 4251

Informed consent form

You are being asked to take part in a research study conducted by Prof. **Wimmer and colleagues** to evaluate the usefulness of **Z**. During the study, you will receive the training material needed for using the tool. At the end of the experiment, we will do **Y**. You are supposed to be familiar with **X**. In case you do not understand the *purpose of the experiment*, do not hesitate to ask the research staff.

Task description...

Your participation in the study is completely voluntary. At the end of the experiment, you will be informed about the full purpose of the study and we will provide you an answer that we consider is valid for the task.

The experiment will require about **X of your time**. You have the right to withdraw from the study at any time without penalty. During the experiment, you will be asked to **fill a set of questionnaires**. Some of the questions are about your personal background (e.g., level of education/professional experience) for statistical purposes. All the collected data will be guarded for research purposes, and anonymity is guaranteed.

If you want to withdraw from the experiment, please tell the research staff and leave the room. If you would like to withdraw after you have submitted your answers, please contact with the research staff.

In the case you decide to follow with the experiment, you are giving your *informed and voluntary consent* to take part in this research study and we will maintain a copy of this consent and the results obtained for our records.

Please tick the appropriate boxes

Yes No

1. Taking part in the study

I have read and understood the study information dated **[DD/MM/YYYY]**, or it has been read to me. I have been able to ask questions about the study and my questions have been answered to my satisfaction.

I consent voluntarily to be a participant in this study and understand that I can refuse to answer questions and I can withdraw from the study at any time, without having to give a reason.

I understand that taking part in the study involves **the participation in an experiment as well as filling out a questionnaire**.

2. Use of the information in the study

I understand that information I provide will be used for reports and publications.

I understand that personal information collected about me that can identify me, such as my name or where I live, will not be shared beyond the study team.

If you want to use quotes in research outputs, add: I agree that my information can be quoted in research outputs.

3. Signatures

Name of participant [IN CAPITALS]	Signature	Date
-----------------------------------	-----------	------

I have accurately read out the information sheet to the potential participant and, to the best of my ability, ensured that the participant understands to what they are freely consenting.

Name of researcher [IN CAPITALS]	Signature	Date
----------------------------------	-----------	------

4. Study contact details for further information

Scientist in Charge at JKU: Manuel Wimmer, manuel.wimmer@jku.at, +43 732 2468 4241

DPO at JKU: Johannes Sametinger, johannes.sametinger@jku.at, +43 732 2468 4251

Information sheet

1. General information about the research and the collected research data

- Purpose of the research

Lowcomote aims to train professionals in the design, development and operation of new Low-Code Development Platforms (LCDPs), supporting the development of large-scale applications, using artefacts coming from a large number of users, integrating with models coming from different engineering disciplines. The project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 813884.

- Type of research intervention, e.g. questionnaire, interview, etc.

XXXXX

- Voluntary nature of participation

Participation is completely voluntary. If students are asked to participate, then participation or non-participation has no effect on any classes taken.

- Procedures for withdrawal from the study

If a participant decides to withdraw from the study, he/she can do so at any stage during the data collection, by simply telling the data collector. Later, he/she can contact the data collector, the scientist in charge or the DPO and ask for having the collected data removed. As the data of an individual can no longer be identified after collection, this can only be done when asking for the assigned code after data collection.

- Usage of the data during research, dissemination and storage, including how the information will be shared with participants and any access and benefits-sharing that may be applicable (e.g. traditional knowledge under the Nagoya protocol)

Collected data will be shared among project members and also made publicly available for other researchers. Participants will also have the possibility to access data, but will not be able to identify their own data unless having the assigned code.

- Future publishing, archiving and reuse of the data.

Collected data will be deposited internally and shared among participating institutions of the Lowcomote project. A decision on where to publicly make the data available had not been made yet.

- Contact details of the researcher, as well as their organisation, funding source, how to file a complaint.

Manuel Wimmer, Johannes Kepler University, manuel.wimmer@jku.at, +43 732 2468 3241

Johannes Sametinger, Johannes Kepler University, johannes.sametinger@jku.at, +43 732 2468 3251

Complaints can be filed to any of the persons mentioned above via email.

2. Additional information if personal information is collected from participants

- Personal data from participants will only be collected in reduced form. Data like professional experience will be collected, but not any other information like names. Professional experience is important, because it has an influence on the performance of the assigned tasks. The data will be assigned to consecutive numbers so that this information can be evaluated together with other data collected.

3. General Data Protection Regulation considerations

- Data like professional experience will be stored separately from any other collected data and will only be assignable via an arbitrary number. Therefore, the data are not anonymized but pseudonimized. Access to the mapping table will only be given to PhD candidate and supervisor.