DESTINI

SMART DATA PROCESSING AND SYSTEMS OF DEEP INSIGHT

DESTINI
Smart Data Processing and Systems of Deep Insight

Deliverable 4.10

Stakeholders Training Material and Webinars 2

Document details:

Editor:	CUT
Contributors:	CUT, UNIROMA, JADS
Date:	30/09/2022
Version:	6.0

Document history:

Version	Date	Contributor	Comments
1.0	18/06/2022	A.S. Andreou S. Mappouras A. Christoforou P. Christodoulou M. Pingos	Initial document, structure and content
2.0	21/07/2022	A.S. Andreou S. Mappouras	Additions and corrections
3.0	05/08/2022	A.S. Andreou Partners	First review
4.0	07/09/2022	S. Mappouras	Additions and corrections
5.0	05/09/2022	A.S. Andreou	Final review
6.0	30/09/2022	Partners	Final review & approval

Contents

1. Introduction

1.1 Purpose

The present deliverable is part of Work Package 4 (WP4) that describes the actions needed to be taken from the consortium to engage industrial and business stakeholders and establish direct communication channels for feedback and collection of real-world data that will facilitate experimentation and validation, and prepare the road for future piloting.

This document presents the second series of webinars created by the consortium of DESTINI mainly to be provided for training purposes to the stakeholders of DESTINI and other collaborators. The purpose of the training is to present to the stakeholders outcomes from the projects so as to give ideas for future collaboration in regards to applied research. In certain cases, a follow up telco was facilitated so as to answer questions on the topics of the webinars, and brainstorm on the topics.

The material provided is accessible through the links provided under each topic. The online talk/webinar is provided through DESTINI's YouTube channel and can also be accessed by the general public.

1.2 Definitions, Acronyms, and Abbreviations

CUT: Cyprus University of Technology

RPA: Robotic Process Automation

1.3 Overview

The rest of the document is structured as follows: In Section 2 and section 3 include material from the online training webinars with the partners, while section 4 concludes the document.

2. Workshop of Sapienza Universität di Roma

2.1 First Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	Basics of RPA:
Link:	https://youtu.be/CSvU-2lClFY
Facilitator/Presenter:	Simone Agostinelli (PhD candidate)

Subject / Short Description
In This webinar provides the user with an introduction to RPA by going through the topic and finally runs some examples in UiPath Studio, one of the major vendors of RPA tools.

2.2 Second Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	Application of RPA on UiPath Part 1
Link:	https://youtu.be/rtTSlUL2g0A
Facilitator/Presenter:	Simone Agostinelli (PhD candidate)

Subject / Short Description
This webinar shows examples of the increasing complexity encoded within UiPath Studio. In particular, it is focused on recording and scraping facilities.

2.3 Third Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	Application of RPA on UiPath Part 2
Link:	https://youtu.be/XV6_6-K3Iog
Facilitator/Presenter:	Simone Agostinelli (PhD candidate)

Subject / Short Description
This part of the webinar provides examples of Excel/PDF automation and concludes with a real case study.

3. Workshop of Jheronymous Academy of Data Science

3.1 First Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	RADON: DevOps framework to optimally exploit serverless computing technologies | PyData Eindhoven 2020
Link:	https://www.youtube.com/watch?v=Jl2s9Emf5JI
Facilitator/Presenter:	Dr. Damian Tamburri

Subject / Short Description
PyData key data scientific community is engaged with industrial outlets to account for consulting (e.g., master thesis internships) or similar exploitation avenues to advance the use and refinement of JADS assets and IP part of the DESTINI project. The PyData community currently features the branch of the so-called JADS OpenDSE community---the Open data-science and Engineering group founded at JADS---which currently features about 45-50 practitioners attending regularly at OpenDSE events. JADS used such a practitioner base to refine its own DESTINI exploitable assets or look for interested parties for adoption and follow-up projects.

3.2 Second Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	DevOps and Continuous Architecting with TOSCA
Link:	https://www.youtube.com/watch?v=_NYwPIB5558
Facilitator/Presenter:	Dr. Damian Tamburri

Subject / Short Description
What happened to software architectures since DevOps came about? Pivoting around this research question the concept of continuous architecting is illustrated, clarifying the changed role of software architectures, the new roles and professionals around it as well as the properties and measurable quantities these entail. We illustrate continuous architecting using a well-known ever-evolving architecture: the World Wide Web of *open doors*, i.e., APIs

3.3 Third Online Training/Webinar

Workpackage:	WP4 – Team Building and Engagement of Stakeholders
Training Topic:	TOSCA Intent Models: Goal-Modelling for Infrastructure-as-Code
Link:	https://www.youtube.com/watch?v=bUa2Kk1K1dE
Facilitator/Presenter:	Dr. Damian Tamburri

Subject / Short Description
DevOps entails a set of practices that speed up the time needed to rollout software product changes. One such practice is automating deployment and delivery with infrastructure-as-code, i.e., automated scripts that ideally carry out 1-click deployment. Providing effective infrastructure-as-code poses the tricky issue in determining the modelling and information representation paradigm (e.g., Imperative, Declarative, etc.) most compatible with specifying infrastructural code. The OASIS TOSCA standard ("Topology and Orchestration Specification for Cloud Applications") is the de-facto and de-jure standard language for infrastructure-as-code, and adopts an innovative take called "intent modelling". This paper articulates the foundations of this modelling approach incorporating

the most related modelling paradigm, that is, goal-modelling. We elaborate on it with a real but simple industrial sample featuring the TOSCA language.

4. Conclusions

The second series of webinars prepared in the context of the Work Package 4, aimed to transfer scientific knowledge to the stakeholders in the area of smart data processing and specifically to automate routine tasks so as to give the time to the personnel to focus on more important tasks. Sapienza di Roma delivered a series of three webinars on Robotic Process Automation, which is shared within the stakeholders of the project, and the general public. JADS offered three webinars to capitalize the knowledge on DevOps framework in combination with specification models such as TOSCA.