



KYKLOS 4.0

An Advanced Circular and Agile Manufacturing Ecosystem
based on rapid reconfigurable manufacturing process and
individualized consumer preferences

Deliverable D12.1

KYKLOS 4.0 Project Website

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Abstract:	The deliverable includes information about the structure, the content and the functionalities of the website developed in the framework of the Kyklos 4.0 project
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Terms and abbreviations

EC	European Commission
IIoT	Industrial Internet of Things
WP	Work Package

Executive Summary

The website of KYKLOS 4.0 project was created in February 2020 and is accessible online on <https://kyklos40project.eu/>.

The main objectives of WP12 are defined according to two parallel axes: (1) the effective and sustainable dissemination of knowledge among and beyond the members of the consortium (during and beyond the lifetime of the project), and (2) the promotion of the exploitable foreground of the KYKLOS 4.0 results.

This document provides a summary of the structure and functionalities of the website developed for the KYKLOS 4.0 project as a first step of the project's dissemination plan. The development of the project will contribute to raising public awareness of project achievements among the key user groups and stakeholders regarding the agile and sustainable manufacturing suite services and IIoT technology landscape (leading software industries, IIoT hardware vendors, industrial equipment manufacturers, production plants, etc.), the scientific community (focused mainly on machine learning and modelling, middleware design, data privacy methodologies, security, etc.), facilitators (EU institutions, public authorities, standardization bodies, associations, etc.), and the general public.

According to the dissemination plan, the website will be updated with developments and results throughout the project's duration as part of the general dissemination and exploitation strategy. Furthermore, it will be available, updated and maintained for at least 4 years after the project's completion.

1 Introduction

This deliverable includes information about the KYKLOS 4.0 website, its structure and its main elements. The KYKLOS 4.0 website was designed in such a way to provide easily the user critical information about the project's vision, objectives and technology, as well as updates and developments in the scope of efficiently disseminating the project's novelty and exploitation capabilities. The website is openly accessible to reach as many relevant targets as possible so that the content can be widely spread around the community and industry. In this light, the site will be maintained and updated on a regular basis and will remain active for at least 4 years after the finalization of the project.

In accordance with the description of work in WP12, the website includes the project description, prospects, a place for news & events related to the KYKLOS 4.0 topics and announcements, as well as a calendar to add information about forthcoming events and tasks (workshops, meetings, and deadlines). Furthermore, it contains a place for the download of public documents, including all project publications as well as links to other relevant sites, such as KYKLOS 4.0 partners relevant projects, relevant EC sites, platforms for various domains, etc.

Furthermore, the website was designed to ensure that all interested parties will easily reach the information and deadlines regarding the Open Calls, which will be organized to allow the creation of more prototypes taking advantage of KYKLOS 4.0 technology.

The project website includes also a direct link to the consortium's project management system/repository (Alfresco). This allows the on-line collaboration between partners facilitating the exchange of documents, exchange of messages in the form of e-mails, and support for discussion lists where partners can put articles about intermediate project results. All the intermediate results of the project (internal management/progress reports, deliverables, presentations, papers, data sets, software, etc.) will be available to the partners through the platform connected to the website.

The website will be updated to ensure that the project's objectives, developments and results will be efficiently spread as widely as possible.

2 Kyklos 4.0 Website

2.1 Technical specifications

The website is available at <https://kyklos40project.eu>. The domain name belongs to Tecnia and it was purchased from an external provider (domain duration: from 13/01/2020 to 13/01/2028). In addition to the domain name, the consortium can create 4 email accounts and configure 40 email redirects. For now one email address (info@kyklos40project.eu) has been created to enable/manage the messages coming from interested parties.

The website was developed using the Wordpress platform and contains all necessary tools and applications to manage (upload, update, upgrade, etc.) the various components. The virtual machine is based on VMWare deployed at Tecnia's VSphere.

In addition, the website is connected to Google Analytics platform to monitor and analyze the profiles of users and adapt/modify the content of the website to attract more visitors especially from targeted groups and sectors.

According to data protection policy, the consortium will process personal data (private and professional information) in compliance with applicable EU and national law on data protection.

2.2 Layout and items description

The website's menu consists of the following items:

About Kyklos

- Vision
- Objectives
- Work Packages
- Technology
- Pilots

Open Call

Who we are

Resources

- Deliverables
- Publications
- Promotion Materials
- Miscellaneous

News & Events

- News
- Calendar

Contact

- Contact Form
- Partner Login

Below snapshots and briefly descriptions of the main categories are provided.

In Figure 1, the website's launch page ("HOME") is shown. A slider enables a quick access to important categories such as projects objectives, technology and information about the Open Calls.



Figure 1: Website's launch page

The “ABOUT KYKLOS” menu (Fig. 2) contains all necessary information about the project vision (Fig. 3), objectives (Fig. 4), workpackages (Fig. 5), technology (Fig. 6), and pilots (Fig. 7).



Figure 2: The “ABOUT KYKLOS” menu



Figure 3: The “VISION” page

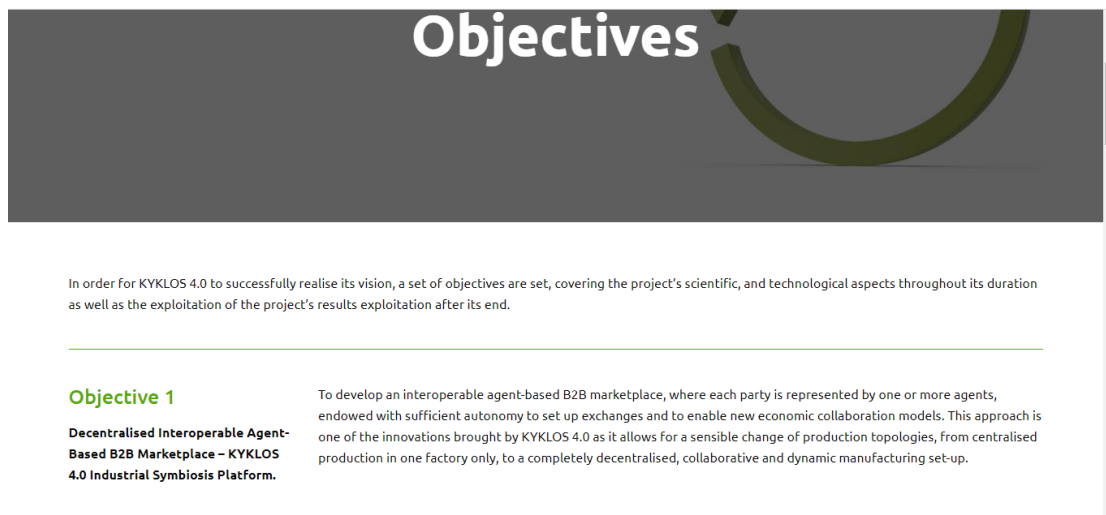


Figure 4: The page providing a brief description of project's "OBJECTIVES"

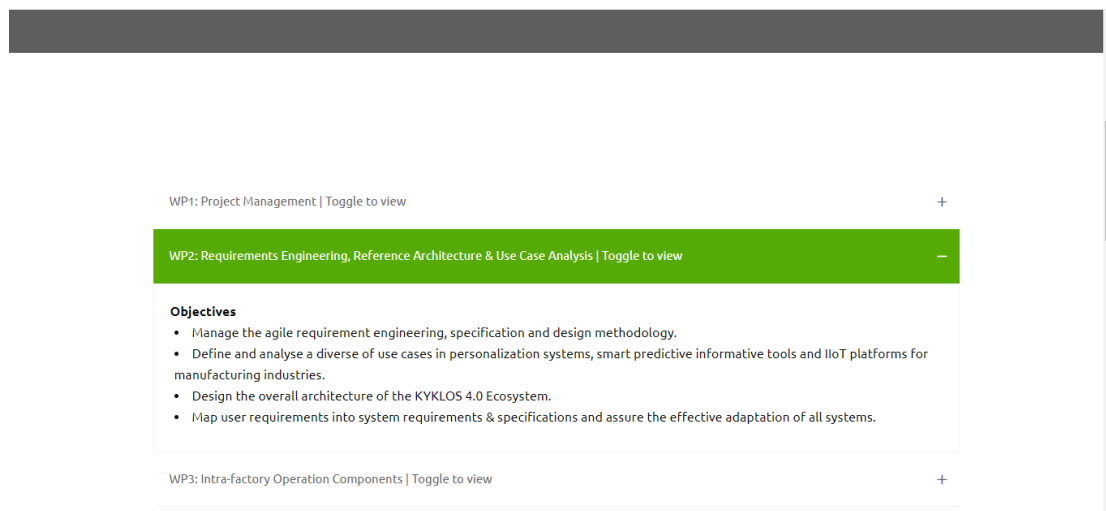


Figure 5: The page "WORK PACKAGES" providing information about the objectives of each work package

KYKLOS 4.0 aims at providing a system which automatically and autonomously creates the configurations, methodologies, production techniques, autonomous decision-making processes and actions at all different levels and stages of the manufacturing value chain.

Virtual Production Line Orchestrator

The "heart" of KYKLOS 4.0 ecosystem, as it will provide the digital interface within the KYKLOS 4.0 collaborative environment. The orchestrator and the connected smart gateways deployed in different factories; an automated virtual production line will be enabled.

The module will facilitate orchestration from user requirements, materials and service prices to selection of optimal production lines and controlling manufacturing equipment. The orchestrator, being a central node in the system, will work closely with other components too. Furthermore KYKLOS 4.0 will virtualize and orchestrate functions/ applications and services, increasing flexibility, scalability, adding automated, self-configuring capabilities, versatility and optimal management of production line IT resources. Key features of the Virtual Production Line Orchestrator are:

- Smart and Dynamic
- Continuous operation control, flexible and scalable maintenance
- Robot systems goal and mission setting
- Secure and encrypted design data

Figure 6: The page "TECHNOLOGY"

KYKLOS 4.0 Pilots will be divided into two main categories. Four pilots related to the Smart Manufacturing (SM) Framework and four pilots related to the Circular Manufacturing (CM) Processes for Energy Efficiency and Waste Management (Re-use).

SM Pilot Use Case 1: Medical Pilot

Custom and Smart Wheelchair Systems (PROMEDCARE Facilities – Italy)

We aim to apply the envisaged solutions for developing a new methodology and approach to design, produce and deliver the next generation of Customized Wheelchair integrating system with postural device. Wheelchairs specifically designed for an individual, with his/her specific needs in mind, by a fully automatized process, reducing the production/design time and reiteration/fine tuning of the final product.



Figure 7: The page "PILOTS" with information about the pilots to be developed

In the "OPEN CALL" page, more information is provided regarding the upcoming Open Calls for the creation of prototypes based on KYKLOS 4.0 technology (Fig. 8). Since Open Calls are a critical part of the dissemination & exploitation strategy as well as for the validation of project's technology. For this reason, an individual menu item was designed to efficiently promote this activity.

Submit your innovative project concept for funding!

Funding will be provided to projects led by small consortia (third parties) and targeting innovative concepts. Each project is expected to define their own project objectives while adhering to the larger objectives and vision of the KYKLOS4.0 project.

KYKLOS 4.0 will support the third parties' activities along the project duration, including those related to project management, product/ service development, tests and demonstrators, business development/ internationalization activities.

Additional details are provided below. Come back for up-to-date information or follow our social media accounts.

KYKLOS 4.0 – 1st open call	
Opening Date	Closing Date
April 2021	June 2021

Figure 8: The “OPEN CALL” page in which interested parties will find useful information about the upcoming calls for more prototypes creation based on Kyklos technology

In “RESOURCES” interested parties will be able to download non-confidential project deliverables and publications from the partners related to the project, as well as project promotion materials (logo, flyers, etc.).

In Fig. 9 the “NEWS” page (“NEWS & EVENTS” menu item) is shown in which the consortium partners will upload their latest posts regarding project’s activities. This information will be shown also on the first page. In addition, in “CALENDAR” page (“NEWS & EVENTS” menu item) the user can be informed about the upcoming events related to the project (Fig. 10).

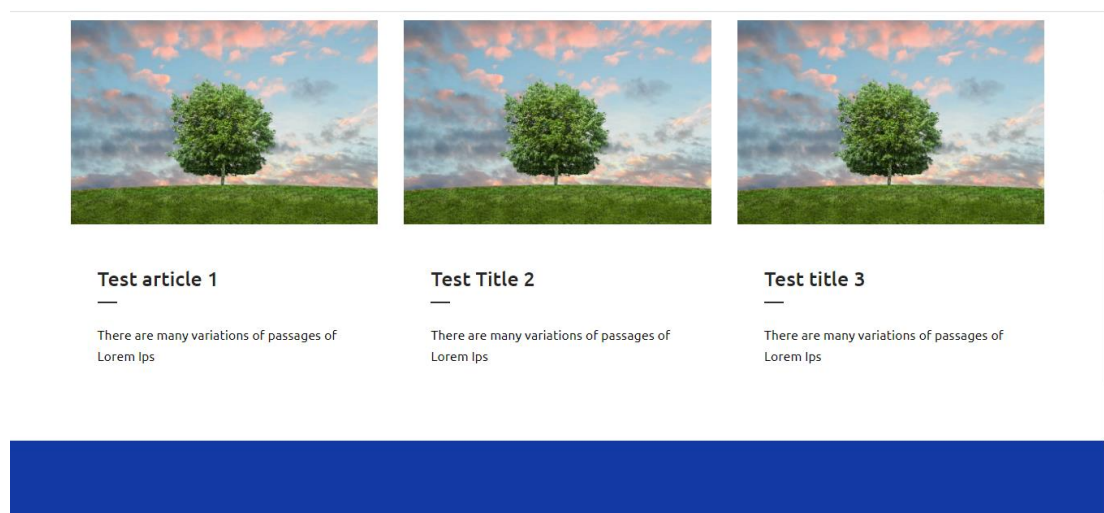


Figure 9: The “NEWS” page in which consortium’s latest activities related to the project will be uploaded

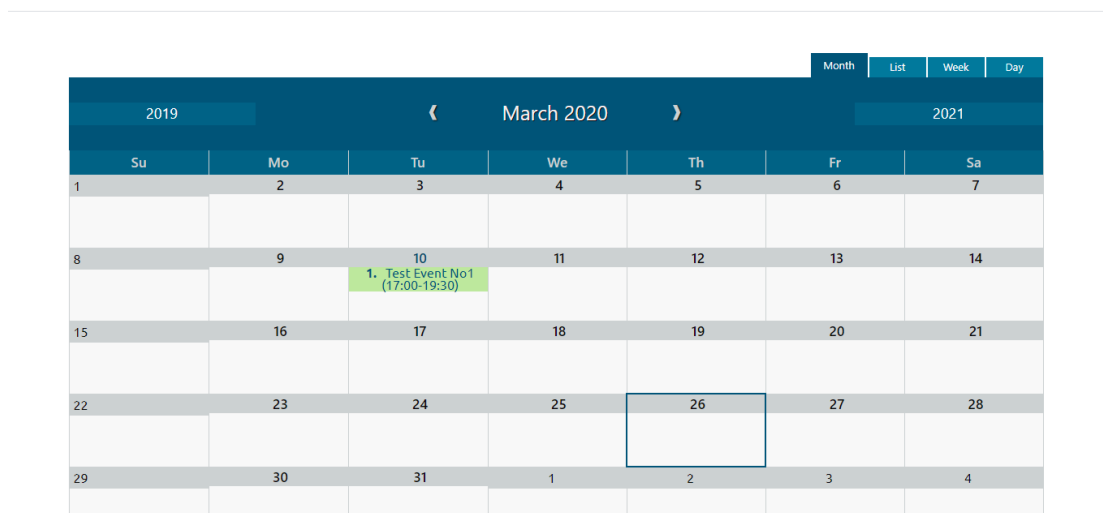
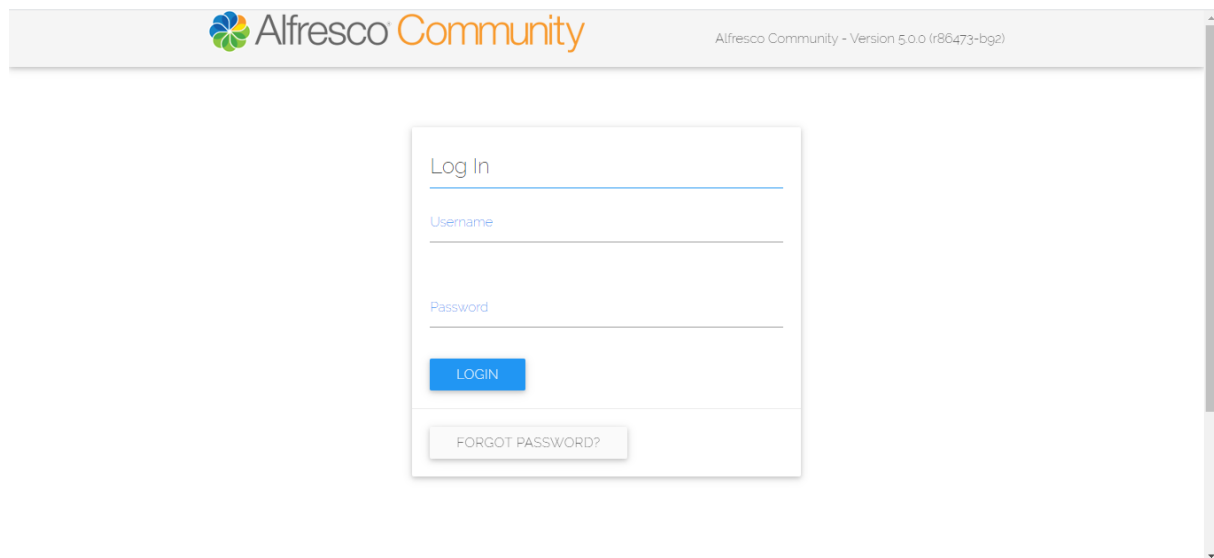


Figure 10: The “CALENDAR” page in which all upcoming events related to the project will be available

All interested parties can contact the consortium using info@kyklos40project.eu or by submitting a message through the contact form shown in Fig. 11 (“CONTACT”).

Figure 11: The “CONTACT” page

Finally, through “PARTNER LOGIN” section, the consortium partners can enter the KYKLOS 4.0 Alfresco platform (Fig. 12) using their credentials which allows the on-line collaboration between them including exchange of documents, exchange of messages, etc.



Alfresco Community

Alfresco Community - Version 5.0.0 (r86473-bg2)

Log In

Username

Password

LOGIN

FORGOT PASSWORD?

Figure 12: The login page of the KYKLOS 4.0 Alfresco platform for the on-line collaboration of consortium partners

3 Conclusions

KYKLOS 4.0 website is the main online tool to present and disseminate all the results and events under the framework of the project. It will remain available for 4 years after the end of the project. The website is carefully designed to address the identified target groups in the most effective way, and it is the easiest way to ensure the visibility of the project for the EU as well as target consortium, stakeholders and public.

The website will be fine-tuned to meet the needs of the project partners and users throughout the project life. The website will be continuously updated to include all project's updates, developments, publications, results and news in the scope of project's efficient dissemination plan. The website is also connected to KYKLOS 4.0 Alfresco platform which enables the online collaboration of partners.