KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

KYKLOS 4.0 - Open Call #1
Information webinar

25 March 2021 | 15h00 – 16h00 CET

Thank you for joining today.
The webinar will start in a few minutes.
Please make sure that you have your microphone and video turned off.
The webinar will be recorded and publicly disseminated; the slides presented will be made available after the webinar.
Welcome. Before we start:

• Rename yourself to first, last name and entity you represent. It will be easier to identify you during the Q&A.

• There will be a specific slot dedicated to Q&A. If you have a question, please use the “Raise Hand” tool. If we miss your signal, you can indicate you have a question in the chat box.

• The moderator will go through the raised hands and asks participants to turn on their microphones to ask their questions. Please wait for your turn.

• Make sure that you have your microphone and video turned off during the presentation.
Today’s agenda

1. KYKLOS 4.0 project overview
2. KYKLOS 4.0 – Open Call #1
3. Tips when preparing a proposal
4. Q&A
KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

KYKLOS 4.0 Project Overview

Jason Mansell Rementeria
TECNALIA
KYKLOS 4.0 Factsheet

<table>
<thead>
<tr>
<th>KYKLOS 4.0</th>
<th>An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Number</td>
<td>872570</td>
</tr>
<tr>
<td>Starting Date</td>
<td>01/01/2020</td>
</tr>
<tr>
<td>Project Duration</td>
<td>48 months</td>
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<tr>
<td>Call (part) Identifier</td>
<td>H2020-DT-2019-1</td>
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<tr>
<td>Topic</td>
<td>Digital Manufacturing Platforms for Connected Smart Factories</td>
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<td>Budget</td>
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# KYKLOS 4.0 Consortium

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<th>PARTICIPANT</th>
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Manufacturing companies **consume** high amounts of energy as well as **natural resources** in their product-making processes:

- The respective amounts and overall costs of product making are increasing
- EU energy prizes are continuously increasing
- Raw materials price trend is ascending, increasing short term volatility

**Optimizing** the manufacturing processes becomes “a must” to ensure **sustainability**
KYKLOS 4.0 Briefly

KYKLOS 4.0 aims at providing a **Technology Ecosystem** which creates and supports the configurations, methodologies, production techniques, decision and actions at all different levels and stages of the manufacturing value chain so as to achieve:

- **Increased energy efficiency**
- **Decreased use of raw materials (second use of parts or materials)**
- **Customer-centricity**
- **On-demand manufacturing**

Meeting Industry 4.0 objectives:

- **Operational excellence**
- **Mass customization and personalization**
- **Increasing efficiency**
- **Reducing waste**
- **Boosting competitiveness**
KYKLOS 4.0 will deliver an advanced configuration variants’ framework and state-of-the-art production paradigm, embedding key technologies into a unified platform Ecosystem to manage live product innovation.

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The following set of objectives are set, covering the project’s **scientific and technological aspects** throughout its duration as well as the **exploitation of the project’s results** after its end:

<table>
<thead>
<tr>
<th>Objective</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>01</strong></td>
<td>Decentralized Interoperable Agent-Based B2B Marketplace Platform</td>
</tr>
<tr>
<td><strong>02</strong></td>
<td>Virtual Production Line Orchestration Module &amp; Interoperative Fog Architecture Framework</td>
</tr>
<tr>
<td><strong>03</strong></td>
<td>Continuous Deep Learning Toolkit for Operational Metrics</td>
</tr>
<tr>
<td><strong>04</strong></td>
<td>Tailored Circular Manufacturing and Mass Customization Services</td>
</tr>
<tr>
<td><strong>05</strong></td>
<td>Big Data Aggregation and Integrated DSS for Optimizing Production Capacity</td>
</tr>
<tr>
<td><strong>06</strong></td>
<td>KYKLOS 4.0 Auditing Mechanisms</td>
</tr>
<tr>
<td><strong>07</strong></td>
<td>Product Data Management</td>
</tr>
<tr>
<td><strong>08</strong></td>
<td>Product Life Cycle Monitoring / Customer Feedback</td>
</tr>
<tr>
<td><strong>09</strong></td>
<td>KYKLOS 4.0 Production Line “Smartification” System</td>
</tr>
<tr>
<td><strong>10</strong></td>
<td>Additive Manufacturing Simulation Modules</td>
</tr>
<tr>
<td><strong>11</strong></td>
<td>KYKLOS 4.0 Vulnerability Assessment</td>
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KYKLOS 4.0 Technology & solutions

KYKLOS 4.0 technology involves a set of intelligent tools for real-time analytics & prediction, and recommendation systems, integrated into the KYKLOS 4.0 configuration environment.

- Rapid Reconfigurable Manufacturing Process
- Individualization of Consumer Preferences

KYKLOS 4.0 Technology:
- KYKLOS 4.0 Interface
- PLM Module
- Virtual Production Line Orchestrator
- Rapid Prototyping Module (RPM)
- Real-Time Simulation Module
- Rapid Prototyping Module (RPM)
- Rapid Transformable Manufacturing System
- KYKLOS 4.0 Marketplace
- KYKLOS 4.0 Maintenance Scheduler
- Lifecycle Simulation Element
- Integrated Decision Support System
- Hardware Smartification System
- Cyber-Physical Infrastructure

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KYKLOS 4.0 will **demonstrate** the transformative effects that Circular Production System (CPS), Product Life Management (PLM), Life Cycle Analysis (LCA), Augmented Reality (AR) and Artificial Intelligence (AI) technologies and methodologies will have to the **Circular Manufacturing** framework.

**Large-scale piloting** in 7 pilots to demonstrate the technical, environmental and economic viability of KYKLOS 4.0 Ecosystem

Pilots will be divided into two main categories: Pilots related to **Smart Manufacturing**, and to **Circular Manufacturing** (energy efficiency and waste management) framework.

### Smart Manufacturing Pilots

- **01** Aerospace Pilot
  - (GENERAL ELECTRIC and KANFIT3D facilities – Israel)

- **02** Electronic Devices/Equipment Pilot
  - (VESTEL facilities – Turkey)

- **03** Medical Pilot
  - (PRO MEDICARE facilities – Italy)

- **04** Electronic Manufacturer Pilot
  - (CONTINENTAL facilities – Romania)

### Circular Manufacturing Pilots

- **01** Automotive Pilot
  - (DIGRO facilities – Italy)

- **02** Shipyard Pilot
  - (ASTANDER facilities – Spain)

- **03** Food Industry Pilot
  - (PINDOS Cooperative facilities – Greece)
# KYKLOS 4.0 Dissemination & exploitation strategy

<table>
<thead>
<tr>
<th>Strategic pillar</th>
<th>Goal</th>
<th>Exploitation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Awareness</strong></td>
<td>Make the project and its vision known in the relevant target groups. Primary instruments will be the KYKLOS 4.0 website and the presence in social networks (Facebook, Twitter, LinkedIn, and YouTube), the participation to relevant conferences, the promotion of project activities, and the partnering of end users</td>
<td>KYKLOS 4.0 will facilitate the acceptance and utilization of the developed solutions by the market with:</td>
</tr>
<tr>
<td><strong>Consolidation of scientific and technological achievements</strong></td>
<td>Presentation of research articles and technical demonstrations at key conferences and workshops, peer-reviewed publications, presence in R&amp;D focused media, as well as building up a community of interested developers and scientists</td>
<td>- Ensuring compatibility and interoperability with what already exists in the market through standards</td>
</tr>
<tr>
<td><strong>Real case demonstrators</strong></td>
<td>Highlighting KYKLOS 4.0 ecosystem developed as a proof of concept. Primary target groups will be manufacturing industries / production plants as well as manufacturers and providers of industrial equipment or machinery. The goal is to demonstrate to the target groups the benefits and opportunities provided by KYKLOS 4.0</td>
<td>- Using the standardization system as a tool for dissemination of the project results and interaction with the market stakeholders</td>
</tr>
<tr>
<td><strong>Participation of users for further developments</strong></td>
<td>Mobilization and engagement of technology actors to utilize KYKLOS 4.0 results and develop new products</td>
<td></td>
</tr>
</tbody>
</table>

Communication and dissemination of results (according to the dissemination level defined)
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KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

KYKLOS 4.0 - Open Call #1

Samuel Almeida
samuel@f6s.com | F6S Network Limited
KYKLOS 4.0 - Open Call #1

Guide to submitting a proposal


| [7] Understanding the evaluation process |

| [8] Sub-project implementation |
The KYKLOS4.0 Open Call #1 is looking for **SME-led consortia of up to three entities** to submit project proposals for the development of innovative solutions to improve **digital manufacturing processes**.

The solution must be **validated and demonstrated in the pilot location**, which should be provided by one of the applicant’s **consortium partners**.

The proposed experiment must address the **digital manufacturing** domain and cover one or more **sub-domains**.

Experiments should clearly demonstrate the **role of the circular economy** within the manufacturing domain in their activities.
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Proposals must address at least one of the listed sub-domains.

[2] TARGET DOMAINS

DIGITAL MANUFACTURING

Artificial intelligence  Decision support systems
Augmented reality  Deep learning
Big data and data management  Life cycle analysis
Circular manufacturing  Product lifecycle management
Cyber-physical systems  Others related
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KYKLOS 4.0 - Open Call #1

[3] OPEN CALL #1 TIMELINE

Launch of Open Call #1
01 April – 30 June 2021

Evaluation and selection
01 July – 30 September

Open Call #1 submission and evaluation

Sub-project implementation phase

Planning
1 month

Implementation
3-4 months

Commercialisation & business sustainability
1-2 months
KYKLOS 4.0 - Open Call #1

[4] FUNDING SCHEME

- A total of €1 million is available, funding a minimum of seven (7) projects.

- Any budget not consumed in Open Call #1 will be made available for Open Call #2 (tentatively scheduled for June 2022).

- Proposals will be eligible to receive financial support up to €150,000 (for a consortium of three entities), with a limit of €60,000 per applicant.

- Activities that are already funded by other grants cannot be funded by KYKLOS4.0.

- There is a €100,000 maximum limit for companies receiving FSTP from the Smart Anything Everywhere and I4MS initiatives.
KYKLOS 4.0 - Open Call #1

[5] HOW TO PARTICIPATE (1/2)

• Sign up for account on F6S to submit your proposal!

• All applications must be submitted via F6S, where candidates must fill in an online application form and complete and upload additional annexes, including a technical proposal. Submissions received via any other channel will be discarded.

• English is the official language and submissions done in other languages will not be evaluated.

• Note that some questions have limited characters; the technical proposal (template) has a maximum number of pages.

• It is strongly recommended to not wait until the last minute to submit the proposal. The time of receipt of the application as recorded by the submission system will be definitive and no system/network failures will be accepted as a justification.

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Each applicant may submit up to two (2) proposals in the KYKLOS4.0 Open Call #1. In case more than two proposals are submitted, the first two submitted to the system will be those considered.

Applicants may participate in a maximum of one (1) accepted sub-project in the KYKLOS4.0 Open Call #1. Applicants that participate and are funded in the KYKLOS4.0 Open Call #1 are not eligible to participate in the KYKLOS4.0 Open Call #2, even if a different sub-project proposal is submitted.

Applicants may re-submit to the KYKLOS4.0 Open Call #2 a proposal that was not funded in Open Call #1.
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1. CONCEPT AND IMPLEMENTATION

NOTE: MAXIMUM OF 4 PAGES, COVERING SECTION 1.1 AND 1.2

1.1. Concept and objectives

Describe the overall concept and objectives (general and specific) of the project within the scope of the open call and KYKLOS4.0 project, addressing the challenge proposed by the project and the selected subelement(s). Include also:

- The technical challenges and barriers expected to be solved, aligned with the KYKLOS4.0 project concept.
- Expected project outcomes, which should be justified, measurable and realistic within the timeframe of the project implementation.
- The innovation potential, and how the project is novel.
- The technology readiness level of proposed experiments/prototypes.

1.2. Implementation

Describe the proposed workplan to be implemented towards the achievement of the objectives/results. Include also:

- The specific activities that will be implemented, the time required, and expected outputs.
- Relevant milestones and KPIs to measure achievement of results.
- External barriers/risks that may affect the workplan and compromise the project.

Table 1: Suggested outline for description of activities

<table>
<thead>
<tr>
<th>Activity title</th>
<th>Activity description</th>
<th>Planned duration</th>
<th>Expected output</th>
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<tbody>
<tr>
<td>Activity 1</td>
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<tr>
<td>Activity 2</td>
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</table>

NOTE: Any other (not mentioned in requests)

Table 2: Suggested outline for description of milestones

<table>
<thead>
<tr>
<th>Milestone name</th>
<th>Milestone description</th>
<th>Delivery month</th>
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<tr>
<td>Milestone 1</td>
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<tr>
<td>Milestone 2</td>
<td></td>
<td></td>
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</tbody>
</table>

NOTE: Any other (not mentioned in requests)

Annex 3.1 - KYKLOS4.0 OC01 proposal template [Mandatory to be included in the proposal]

2. IMPACT

NOTE: MAXIMUM OF 3 PAGES, COVERING SECTION 2.1 AND 2.2

2.1. Socio-economic impact

Describe the overall impact of the project. Include also:

- The relevance and socio-economic impact and benefits of your project and planned experiments/prototypes.
- The industrial relevance and market potential of the project and planned experiments/prototypes.

2.2. Exploitation and dissemination strategy

Describe the exploitation and dissemination strategy of the project. Include also:

- Planned activities (during and post-project) to ensure the exploitation and sustainability of expected project outcomes.
- The industrial relevance and market potential of the project and planned experiments/prototypes.

3. CONSORTIUM

NOTE: MAXIMUM OF 2 PAGES, COVERING SECTION 3.1 AND 3.1

3.1. Consortium structure and capacity

Provide the core consortium structure, including names of people per partner, in the table below. The people included in the proposal must be later involved in the execution. The involvement of additional people in the project implementation but not identified in the proposal is acceptable, but the core team provided below must be maintained.

Table 3: People-months allocated to the project

<table>
<thead>
<tr>
<th>Partner no./name</th>
<th>Name of person</th>
<th>Person months (Mb)</th>
</tr>
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<tbody>
<tr>
<td>Person 1</td>
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<td></td>
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<tr>
<td>Person 2</td>
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</tr>
<tr>
<td>Person 3</td>
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</tbody>
</table>

NOTE: Add rows as required (the persons identified in Section 2.2)

Provide a description of expected costs and the requested total contribution using the table.

Table 4: People-months allocated to the project

<table>
<thead>
<tr>
<th>Cost category</th>
<th>Partner 1</th>
<th>Partner 2</th>
<th>Partner 3 (if applicable)</th>
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<td>Travel costs</td>
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<td>Equipment costs</td>
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<tr>
<td>Indirect costs</td>
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</tbody>
</table>

TOTAL: (€)

NOTE: Estimates can be rounded to thousand euros maximum.

KYKLOS 4.0 - Open Call #1

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It is mandatory to upload Annex 3.1 – Technical proposal.

It is mandatory to upload Annex 4 (Declaration of Honour), Annex 5 (SME Declaration form), Annex 6 (Consortium Declaration of Honour) in PDF format as part of the application process.

Please review all items in the annexes and ensure you have provided all the required information (e.g., signatures, check boxes, tables, etc.). Other means of communication (e-mail) are not accepted.

KYKLOS4.0 is GDPR compliant. To process and evaluate the application forms, the minimum information needed to deliver the evaluation procedure is requested. A summary of the proposals and the participants’ information will be shared with the European Commission.
KYKLOS 4.0 - Open Call #1

[7] UNDERSTANDING THE EVALUATION PROCESS (1/2)

Open Call 1 submissions
1 April – 30 June 2021

Evaluation and selection
1 July – 30 September 2021

Proposal submission

Eligibility check
Is the proposal eligible?

External evaluation
At least 2 evaluators for each proposal

YES
YES

Positive review?

Sub-grant agreement

Acceptance letter

NO

Rejection letter

Rejection letter

The KYKLOS 4.0 project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 872570. This document reflects only authors’ views. The EC is not liable for any use that may be done of the information contained therein.
### UNDERSTANDING THE EVALUATION PROCESS

#### ELIGIBILITY CHECK
- Applicants are legal entities eligible for EC funding under H2020 rules
- Applicants are SMEs complying with EC recommendations
- Domain: digital manufacturing + one additional sub-domain
- All annexes are provided and filled out correctly
- Proposal and documentation in English

#### EXTERNAL (REMOTE) EVALUATION

All proposals are reviewed by two external experts

<table>
<thead>
<tr>
<th>FOUR CRITERIA</th>
<th>WEIGHT (%)</th>
<th>SCORING CRITERIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCEPT AND IMPLEMENTATION</td>
<td>30%</td>
<td>Objetives, novelty, workplan, level of innovation, alignment with KYKLOS 4.0.</td>
</tr>
<tr>
<td>IMPACT</td>
<td>40%</td>
<td>Industrial relevance, market potential, proposed commercialization and business strategy.</td>
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<tr>
<td>CONSORTIUM</td>
<td>20%</td>
<td>Competences, knowledge, technical capacity, roles, complementarity.</td>
</tr>
<tr>
<td>RESOURCES AND COSTS</td>
<td>10%</td>
<td>Justification of resources, distribution among partners.</td>
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</table>
In the contracting phase, KYKLOS 4.0 will discuss with the contracting parties the technologies that are available in the project and that could be integrated as part of the sub-project implementation.

Review experiment workplan and alignment with the KYKLOS4.0 project to benefit from technologies and components available within KYKLOS4.0.

Technical support on the integration of KYKLOS4.0 technologies and components in the experiment; support in addressing technical issues faced in the experiment implementation.

Business support in identifying activities (e.g., additional funding opportunities) and actors (e.g., investors) to support the commercialisation and business strategy.

30% Deliverable Detailed work plan

40% Deliverable Demonstration of experiment and results

30% Deliverable Commercialisation activities and business strategy
Tips when preparing a proposal
TIPS WHEN PREPARING A PROPOSAL

• Download and read carefully all the documentation relevant to the open call. Pay particular attention to Annex 2: Guidelines for Applicants, which provides detailed information on the scope of the project, objectives of the open call, all the requirements and processes to be carried out.

• Prepare a text document with all the information requested in the proposal form (in addition to the technical proposal). It’s easier to make changes in the document before putting it on the platform and submitting.

• Be clear and specific. Make sure the evaluators can understand the concept of your project, the objectives, what you want to deliver and how.

• The open call will run for three (3) months! Take your time, review carefully, clarify doubts, but submit well ahead of the deadline.

• Attend our webinars (and re-watch them) for information and to ask questions!
KYKLOS 4.0 - Open Call #1

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IMPORTANT LINKS AND CONTACTS

• More info at: https://kyklos40project.eu/about-kyklos/open-call/

• Apply via: https://www.f6s.com/kyklos4.0opencall01/apply

• FAQ: www.f6s.com/kyklos4.0 and https://kyklos40project.eu/about-kyklos/open-call/

• Online Q&A: https://www.f6s.com/kyklos4.0opencall01/discuss

• F6S support team (for platform issues during the application): support@f6s.com

• Other support: opencalls@kyklos40project.eu
KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

Q & A
KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

KYKLOS4.0 – Open Call #1 in a nutshell

- Up to €150,000 equity-free
  - Max 60k/ applicant
- Consortium of 2-3 entities
  - SME lead
  - Industrial partner
  - Pilot location
- Up to 7 projects funded
- Focus on digital manufacturing
- Access to KYKLOS4.0 technologies
- Business and technical support
- Visibility and promotion

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Keep in touch!
KYKLOS 4.0 – An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences

KYKLOS 4.0 - Open Call #1
Information webinar

25 March 2021 | 15h00 – 16h00 CET

Thank you for joining today.

Good luck!