



## Cloud Collaborative Manufacturing Networks

### Editorial

*C2NET project is almost finished; during the last months, the service offered is becoming more and more mature thanks to the support of the pilots. C2NET cloud solution is being tested using real shop floor equipment, where users are trying to solve their daily work problems related to the supply chain management.*

*To get to this point, different validation scenarios were defined and now they are being assessed in the pilots. These validation scenarios are the final exam for C2NET. Once completed, pilots will give their opinion about the solution offered by C2NET. Specific questionnaires have been created, exclusively for this purpose. All C2NET project members are anxiously waiting for the questionnaire results.*

*But apart from this exam, there is another one left: the final Project Review Meeting. By the end of next February 2018, C2NET consortia will meet together for the last time in Brussels, at the European Commission facilities. It will be the turn for the Commission to judge if we have performed a good job during the last three years. But we are not worried about it; C2NET is ready, we have worked very hard since the beginning of the project, back in 2015. And the good results of previous reviews are the evidence.*

*We kindly invite you to get into this almost ultimate C2NET newsletter; you will find the most up-to-dated news of C2NET; the last integration camp (the fifth one), which took place in the lovely Tampere, or the industrial workshop (the second one) participated together with CREMA project are part of the information you will find if you continue reading.*

*Finally, we do not want to finish this editorial without wishing you a Merry Christmas and the very best for the New Year 2018 that is coming.*

*Please do not hesitate to visit our website, subscribe to C2NET Newsletter, follow us in Twitter and contact us if you wish to have further information about the project outcomes and benefits of the C2NET project developments.*

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Horizon 2020 is the biggest EU Research and Innovation programme ever with nearly €80 billion of funding available over 7 years (2014 to 2020) – in addition to the private investment that this money will attract. It promises more breakthroughs, discoveries and world-firsts by taking great ideas from the lab to the market.

#### More information on the H2020 programme

<http://ec.europa.eu/programmes/horizon2020/en/what-horizon-2020>

**C2NET** is a H2020 project  
**Starting date:** 01/01/2015

**Duration:** 36 months

**Partners:** 20

**Total costs:** 7.126.494 €

**EC funding:** 100 %

**Call:** H2020-FoF-01-2014 Process Optimisation of Manufacturing Assets

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## 5th Integration Camp and General Assembly

Once again, the partners of C2NET project gathered for the last time before the final technical review aiming to discuss both technical and management practices and activities. This time, Finland was the destination for these meetings where Tampere University of Technology hosted these meetings. For a period of three days, in the integration camp, C2NET developers tend to integrate the latest updates of their components in the one single deployment. The target was to check the Pilots satisfaction and to examine what should be tested. On the other hand, for 2 days, the C2NET consortium gathers to review the C2NET progress and to have glance about the final technical review in the general assembly meetings.



## 4th Cloud Collaborative Manufacturing Networks Seminar



The evolvement of the Information and Communication Technologies (ICT) has pushed the dependent fields to the farthest edges. The industrial automation domain is one of the main domains that exploits this leap. This created many challenges for several technology providers, research centres and universities to adapt with the modern concepts. In this context, many terms created in this manner. As an example, the 4th generation of the industry (Industry4.0), Industrial Cyber Physical Systems (ICPS), Internet of Things (IoT) and Knowledge-based Driven Systems (KBS). In fact, the Horizon 2020 organization (H2020) supports the aforementioned concepts with a dedicated call, which is known as Factories of the Future (FoF).



The Cloud Collaborative Manufacturing Networks (C2NET) Project is one of the projects that funded by H2020 under the FoF calls. The project aims at providing a platform for supply chain management activities. These activities include plans optimization, monitoring and assessment. This seminar is organized as dissemination activity of the project outcomes. In fact, it highlights the requirements and challenges for developing such a concept. Besides, a short demo will be presented in order to demonstrate the outcomes of the C2NET project.

This seminar presents a chance for Finnish Small and Medium Enterprises (SMEs) to engage in the possible exploitations activities. In other word, in C2NET project, we would like Finnish SMEs to provide a feedback for the developers and research centres. On the other hand, this seminar could be a great chance for Finnish SMEs to be closer for EU projects, which can lead for future international collaboration.



## 2nd Industrial C2NET/CREMA workshop

The 2<sup>nd</sup> Industrial workshop resulting from the tight collaboration among C2NET and CREMA H2020 EU projects has been held in Wales. The purpose of this event was to give to the European Industry a general overview about current and future trends related to digitalisation technologies under the new paradigm Industry 4.0.

Apart from listening to speakers of recognised standing coming from the industry sector (Siemens, Ford, Festo, Airbus, Balluf, Tenneco, etc.), both projects had the opportunity to present their objectives, scope of application and main findings generated until the date. Presentations and practical demonstrations were made to show project solutions in line with the main goal of this action that was to collect first-hand feedback from companies regarding the clarity and applicability of solutions presented.





## Events and Publications

### Events

- **4th Cloud Collaborative Manufacturing Networks Seminar** (VTT) 15/09/2017, Tampere, Finland
- **European Scenario Building Workshop** (Atos) 28/09/2017, Brussels, Belgium
- **Workshop 5: Data Platforms, IDP and PDP - Activity Group (AG22) of BDVA (ITI)**, 18/10/2017, Brussels, Belgium
- **2nd Industrial workshop CREMA – C2NET** (ATOS, FH, IKERLAN) 16/11/2017, Wales, England
- **European Big Data Value Forum** (ATOS) November 21st-23rd , 2017, Versailles, France



PRO-VE 2017

### Publications

- **SMC 2017** : Paper “*Semantic Maps for IoT Network Reorganization in face of Sensor Malfunctioning*” (UNINOVA) 5-8/10/2017, Banff, Canada
- **PROVE 17** (UPV), 18-20/09/2017, Vicenza (Italy)
  - “*A Holistic Algorithm for Materials Requirement Planning in Collaborative Networks*”
  - “*A proposal of Standardised Data Model for Cloud Manufacturing Collaborative Networks*”
- **SOCNE 2017**: Paper “*Connecting Web-Based IoT Devices to a Cloud-Based Manufacturing Platform*” (VTT), 29/10-01/11/2017, Beijing, China
- **IECON 2017**: Paper “*Including Human Tasks as Semantic Resources in Manufacturing Ontology Models*” (VTT), 29/10-01/11/2017, Beijing, China



European Big Data Value Forum



## C2NET Partners

