



# **BEMO-COFRA**

Brazil-Europe Monitoring and Control Framework

(Project No. 288133)

## **D8.2.2 Dissemination Report II**

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## 1. Executive summary

This deliverable is an updated version of the existing deliverable D8.2.1 Dissemination Report I which was submitted in month 12. It presents the project's dissemination activities and achievements from M13 to M30.

The dissemination strategy has not been changed in relation to the previous deliverable. The overall dissemination objectives, methods and target audiences remain. Focus continues to be on an active and effective dissemination based on agreed terms of use and strong coordination between partners.

The main tools of dissemination includes, among others, a project website, participation in conferences, workshops and trade fair, publication of scientific papers, a project brochure and a project newsletter.

The dissemination plan which set targets for the various dissemination activities has remained the same and all important targets have been met. In fact, the targets for participation in conferences, visit and downloading of project documents (e.g. public deliverables) have been overreached. The main targets for M13-M30 were:

Type of activity	Target M13-M30	Actual 13-M30
Scientific papers accepted	5	5
Conferences	5	5
Tradeshows	2	4
Downloads of documents	300	1333
Total number of unique visitors to the website per month	150	

A final and full demonstration of the BEMO-COFRA platform will take place in Brazil in March in connection with the final project review. Due to the complexity and high cost of the robots used in car manufacturing industry it is only possible to perform one full demonstration of the BEMO-COFRA platform. Although a review is usually restricted to only project partners, it was decided to invite the consortium of another EU-Brazil project, namely IMPRESS, as this project is related to BEMO-COFRA.

## 2. Introduction

Having a well-defined dissemination strategy is of very high priority to the BEMO-COFRA project. Dissemination is about creating awareness of and interest in the BEMO-COFRA project and its resulting products and services to all stakeholders. This deliverable presents the project's dissemination strategy and a dissemination plan. The dissemination strategy provides the project with a structured guideline of how to best disseminate the project's progress and results while the dissemination plan sets the targets for the various measurable dissemination activities in order to reach the objectives defined in the dissemination strategy.

### 2.1 Background

The BEMO-COFRA project is a 30 month EU-Brazil collaborative project that will develop an innovative distributed framework allowing networked monitoring and control of large-scale complex systems.

Heterogeneous smart objects, legacy devices and sub-systems will be integrated, cooperating to support holistic management and to achieve overall systems' efficiency with respect to energy and raw materials. The BEMO-COFRA project will address both technological aspects and user needs to promote a wider adoption of large-scale networked monitoring and control solutions.

The European manufacturing industry suffers a deep crisis due to an overcapacity of production, while in Brazil there is a steady economic growth that is pushing manufacturing companies to increase their production rates. Despite these differences, in both the geographic areas there is an increasing need for flexibility in production activities that must adapt to a continuously changing world market demand.

According to medium to long term European and Brazilian research roadmaps, ICT will enhance any real world object, even the simplest one, with sensing, actuation, embedded processing and communication capabilities. The resulting smart objects will be in principle heterogeneous with respect to energy, sensing/actuation capabilities as well as processing and communication resources. They will interact with each other and will get even smarter through cooperation, forming in such a way communities of self-organizing heterogeneous networked cooperative elements.

BEMO-COFRA strives for the realization of a large-scale distributed monitoring and control framework that eases the supervision and the optimization of physical processes. The potential impact of the developed solution will be made visible by demonstrating the capabilities of a BEMO-COFRA-enabled production monitoring and control system deployed in an actual manufacturing plant provided by COMAU.

The main envisaged outcomes and results will provide a highly relevant industrial impact, by improving factories productivity through the adoption of distributed control architectures and innovative MES systems. The project's progress and results will be widely disseminated to stakeholders throughout the project's lifetime.

### 2.2 Purpose, context and scope of this deliverable

This deliverable is the second of two Dissemination Reports produced by the BEMO-COFRA project. The first part of this deliverable, Chapter 3, describes the dissemination strategy including a definition of the objectives and methods that were employed in order to disseminate BEMO-COFRA's progress and results most effectively and to the appropriate target audiences. The dissemination strategy forms the basis for the planning and execution of dissemination activities and thus helps define the specific dissemination plans. The dissemination strategy was defined at the very beginning of the project and it has not been necessary to make any significant amendments as the project progressed.

The second part of this deliverable (Chapters 4 and 5) describes the dissemination plan, i.e. the targets that were set for the different measurable dissemination activities such as newsletter, published papers, participation in events etc. and the actual completed activities for the reporting period (i.e. M13-M30) are described.



### 3. Dissemination Strategy

The BEMO-COFRA dissemination strategy aims to ensure a wide awareness and interest in the project. Dissemination activities will be carried out throughout the project and as the project progresses and results are obtained dissemination efforts and activities will also increase and intensify. The efficient dissemination of the project's results is an important strategy in terms of facilitating exploitation after the project ends. The dissemination strategy is thus foremost intended to optimise dissemination of project knowledge and results to companies and organisations, which share an interest in the scientific results and the applications, or are potential service providers of BEMO-COFRA. A second aim of the strategy is to promote awareness about the EU-Brazil cooperation which may help to foster future research and exploitation opportunities between the EU and Brazil.

The dissemination strategy was also described in *D8.2.1 Dissemination Report I* and although no changes have been made to dissemination strategy we find it useful to repeat it here again. This way, the reader has access to the dissemination strategy and the plan in one place.<sup>1</sup>

#### 3.1 Objectives and methods

The goal of the dissemination is to foster a closer cooperation between component suppliers, solution providers, system integrators, manufacturing and processing plants, and R&D institutes in both Europe and Brazil. Dissemination will therefore also focus on promoting Brazilian knowhow and expertise in Europe and vice versa.

The dissemination will take various forms and use different media in order to reach the target audiences including:

- Use of European Commission and CNPq (Brazilian National Council for Scientific and Technological Development) dissemination channels such as newsletters and web sites
- Participation in and organisation of workshops, conferences, and tradeshow
- Publications of scientific papers and poster sessions
- Continuous updating of the project website with information on the project's progress
- Producing marketing material, e.g. project brochure, press releases and project newsletters
- Network and established distribution channels of the individual partners.

Particular attention will be paid to any disparities between European and Brazilian needs and interest, thus adjusting the available dissemination channels and media accordingly.

#### 3.2 Target audiences

The main target audience for the dissemination of BEMO-COFRA are 1) the industrial community including large industrial corporations and 2) the ICT research and scientific community. Secondly, the general public is also considered a target audience for the dissemination of widespread information about the project visions and development.

As the project progresses, dissemination efforts will also become targeted at individual partner's customer bases and research communities. These target audiences may include consultancy companies in manufacturing and logistics, funding bodies, universities and other research institutes.

One of the main channels for dissemination is the project's website which will be regularly updated as progress is made, deliverables produced and milestones achieved. Additionally, participation in

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<sup>1</sup> The management and protection of Intellectual Property Rights and a description of the relevant standardisation bodies have been described in detail *D1.4 Plan for Managing Knowledge and Intellectual Property* and in *D8.2.1 Dissemination Report I*. While *D4.1 Plan for Managing Knowledge and Intellectual Property* is confidential, *D8.2.1 Dissemination Report I* is a public deliverable which accessible here: [http://www.bemo-cofra.eu/viewpage.php?page\\_id=5](http://www.bemo-cofra.eu/viewpage.php?page_id=5)

external events such as conferences and workshops and publication of scientific articles in relevant journals will contribute to the effective dissemination of the project to the targeted audiences.

### 3.3 Dissemination responsibilities

Dissemination activities are led by the Dissemination Manager Eduardo Souto (UFAM) in close cooperation with Jesper Thestrup (IN-JET) who acts as Quality Manager. The Dissemination Manager is responsible for coordinating the widespread external dissemination of the knowledge resulting from the project.

Dissemination activities will be undertaken by the consortium as a whole, and by each partner on an individual basis. All partners will therefore actively engage in dissemination activities within their areas of expertise. Partners will work together in identifying and carrying out dissemination activities as appropriate.

### 3.4 Managing dissemination

The Dissemination Manager is responsible for the overall management of dissemination activities within the consortium.

A Wiki repository has been established for coordination purposes. The wiki is a web-based space which enables partners to keep track of related activities in order to submit contributions at the right time and place and which allows participants to cooperate. All partners are requested to enter information about national and international events (workshops, conferences, etc.) and journals that they are contributing to with information originating from BEMO-COFRA funded work. Partners can also enter proposed events that they seek partners for.

In order to register the amount of press coverage on the project, each partner will closely monitor the web and written press for any coverage of the project and add articles/links on the BSCW (project repository) in the folder: *Work in Progress / WP8 / Dissemination activities*. Press releases produced by the partners should also be published here (see chapter 4.1.1 for more information).

*D8.2.1 Dissemination Report I* for detailed guidelines for press releases including a template). Press coverage will feature on the website on a page dedicated to media coverage.

### 3.5 Deliverable classification

The deliverables that the project consortium will produce are classified according to type and dissemination level. Most deliverables will be made publicly available in order to achieve a maximum impact. Only in cases of special legitimate protection of interest of consortium partners will deliverables not be made publicly available.

All deliverables are listed on the project website and the one marked PU (public) will be available for downloading once they have been accepted by the European Commission.

Any major deliverable that will be disseminated to the outside world usually requires external reviewing before being published.

### 3.6 Acknowledgement of EU and CNPq funds and use of logos

When disseminating the project acknowledgement of the source of funding will always be clearly displayed. This includes the following:

- Acknowledgement of EU and CNPq funds in all reports and publicity material (including the ones produced by every partner in the name of its company within the framework of the project).

Example: The BEMO-COFRA project is partly funded by the European Commission under the 7th Framework Programme in the area of EU-Brazil Research and Development cooperation under Grant Agreement no. 288133 and by the Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq) in Brazil.



- Use of logos: The EU emblem or the European Commission DG INFSO logo and the CNPq logo must be used on all publications and promotional material. In case of power point presentations you can use the EU log and/or the FP7 logo:



- The project logo should be present on all publications related to the project. Either of these two formats may be used:



- Disclaimer. When a partner mentions the BEMO-COFRA project in any publication, report, article, etc. the following disclaimer must be added:

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## 4. Dissemination Plan

The dissemination plan outlines the measureable goals for dissemination in order to reach the objectives of dissemination and in order to define a targeted approach to selected strategy elements. The Dissemination Manager is responsible for monitoring the progress.

### 4.1 Measureable targets for dissemination activities

The following chapters describe the annual targets set for the various dissemination activities followed by a description of the actual activities completed from M13 to M30 (project end). The activities completed during the first year of the project (M01-M12) have been reported in D8.2.1 Dissemination Report I.

#### 4.1.1 Targets for marketing activities

Marketing activities include a project brochure, newsletter and press releases. Marketing material will be published in both English and Portuguese.

Type of activity	Target M01-M12	Actual M01-M12	Target M13-M30	Actual M13-M30	Partners involved
Newsletter	1	1	3	3	UFAM/IN-JET/All
Press release	1	-	4	2	All
Brochure	1	1	-	-	UFAM/IN-JET
Website enrichment	1	1	1	1	IN-JET
Prototype demonstrator	-	-	1	1	All

Table 1: Annual targets for marketing activities

From the onset of the project, partners agreed to follow a set of specific guidelines with regards to the launching of press releases, namely that:

- No partner may refer to the names of other partners without the prior consent of that partner. If you need to refer to the other partners, then a reference to the project's website, where the approved partner description is provided, is the best solution
- If the press release contains explicit reference to another partner, the press release should be sent in its original language with an English translation to the Dissemination Manager, Eduardo Souto (UFAM), who will contact the mentioned partner. The only exception is when two or more partners issue a joint press release
- News about significant project results should be cleared with the Project Coordinator before it is released to the press. This applies to press releases in both national and international media.
- A copy of press releases should be circulated and placed on the BSCW in the folder: *Work in Progress/WP8/Dissemination activities* as soon as the release has taken place

A template for press releases has been made available to all partners (please see All press coverage will be collected and made available on a dedicated page on the project website ([http://www.bemo-cofra.eu/viewpage.php?page\\_id=11](http://www.bemo-cofra.eu/viewpage.php?page_id=11))).

In order to register the amount of press coverage on the project, each partner will closely monitor the web and written press for any coverage of the project and add articles/links on the BSCW (project repository) in the folder: *Work in Progress / WP8 / Dissemination activities*.

## 4.2 Targets for conferences, tradeshows and other events

Project partners will participate in relevant conferences and tradeshows as these are good channels for creating awareness about and interest in the project. Conferences related to manufacturing, factory automating, energy, and ICT are particular relevant dissemination events.

Type of activity	Target M01-M12	Actual M01-M12	Target M13-M30	Actual 13-M30	Partners involved
Workshops	2	2	3	5	Industrial & academic partners
Conferences	-	-	5	5	Industrial & academic partners
Tradeshows	-	-	2	4	Industrial partners

Table 2: Annual targets for dissemination activities

Relevant conferences, tradeshows, workshops and other events have been added onto the Wiki as well as partners' intended participation, submission of papers, posters etc.

## 4.3 Targets for scientific papers

As the project progresses and results are achieved efforts will be made to submit scientific papers to international peer-reviewed conferences and relevant journals. The target for publications is:

- Year 1: 2 papers produced
- Year 2: 13 papers produced
- Total of 5 papers accepted.

The overall target is thus to produce a total of 15 papers during the project's lifetime, with the aim to get 5 of these accepted for publication.

## 4.4 Targets for visits to the project website

BEMO-COFRA's website was created at the very beginning of the project as this constitutes one of the main channels for the wide dissemination of the BEMO-COFRA project.

The website can be used to measure the general interest in the BEMO-COFRA and the following targets have thus been defined:<sup>2</sup>

Type of activity	Target M01-M12	Actual M01-M12	Target M13-M30	Actual M13-M30	Target M30 and beyond
Downloads of documents	100	117	300	1333	1500
Total number of unique visitors per month	100		150	500	250
Number of registered users (members)	20	16	40	16	120
Number of countries	-	-	10	26	25

Table 3: Annual targets for project website

<sup>2</sup> Due to a hacker attack in February 2013 we had to restore all the files on the website, therefore the numbers for M13-M30 in the table only reflects activities from March 2013 to February 2014.

The targets for downloads of documents have been reached as a total of 1333 downloads have been made:

- A total of 800 downloads of the seven currently available public deliverables<sup>3</sup>
- The project brochure has been downloaded 300 times (English version 153 times; Portuguese version 147 times)
- The project newsletters have been downloaded 233 times (#1 102 times, #2 98 times, #3 33 times).<sup>4</sup>

In addition, the article that was brought in the Brazilian newspaper, Jornal do Commercio, on 28 September 2011 has been downloaded 177 times.

Only one target has not been met and that is the number of registered members on the project website. This is not surprising as the consortium decided that it should not be necessary to be a registered member in order to gain access to public deliverables and other project documents. Had this been necessary, it is highly likely that the project website would have had more registered users. However, on the flip side, requiring that users register in order to download document would most likely have discouraged some from downloading a document, thus having had a negative effect on the number of downloads. It is therefore likely that the fact that the number of downloads has exceeded the target is related to the fact that users did not have to register in order to gain access to project documents.

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<sup>3</sup> More public deliverables will be made available for download at the BEMO-COFRA website once they have been officially approved by the EC.

<sup>4</sup> The 4th and final newsletter was released 27 February 2014 and there are therefore no statistics for its download at the of submission of this deliverable.

## 5. Completed Activities M13-M30

This section describes the dissemination activities that have been completed by project partners in M13-M30 (September 2012 – February 2014). Most activities have been carried out continuously since the project start although some activities have intensified during this second reporting period in line with the project's progress and as results were achieved.

The activities described here thus supplements the activities undertaken in M01-M12 (see the deliverable *D8.2.1 Dissemination Report I*).

### 5.1.1 Project Collaboration and Knowledge Management

The project consortium has used a variety of online tools to ease the collaboration and management of the work done in the project. These tools include:

- An online repository, BSCW, for all projects documents, including deliverables, templates and official documents.
- A collaborative development environment, Confluence, used for tracking both formal and informal knowledge created in the project. Confluence will also serve as a coordination tool (wiki) and repository for dissemination (list of events and channels for submission of papers)
- The JIRA system for requirements engineering tasks including Lessons Learned

These tools were also described in more detail in *D8.2.1 Dissemination Report I*.

## 5.2 Completed External Dissemination Activities

External dissemination activities include all activities aimed at the general public and relevant stakeholders.

### 5.2.1 Website

The website is one of the main tools of dissemination and a rich website was created for BEMO-COFRA in the very beginning of the project. The consortium decided to maintain the website in English but to also provide the project overview and partner description in Portuguese. The welcome note on the front page of the website is both English and Portuguese.

The website's content has been updated continuously throughout the project in order to provide up-to-date information on the project and its progress, and is thus an important part of the dissemination strategy for the project.

The website contains all relevant information about the project including: overview, vision and aims, work plan, partner descriptions, news, articles, press coverage and public deliverables. Deliverables that are not public will still be listed but downloading will be restricted to the EC and the consortium.

Due to the fact that the copyright of scientific papers often pass to the publisher/journal, scientific papers in the download section on the website will only feature with an abstract description and a statement that the full paper can be requested by contacting the authors or by subscription.

The BEMO-COFRA website is openly accessible to all. All visitors are invited to become registered users.



Figure 1: The BEMO-COFRA website [www.bemo-cofra.eu](http://www.bemo-cofra.eu)

Moreover, a profile has been created on Facebook which is regularly updated with short news. Facebook is a good media for informal communication and has great potential in creating awareness about the project to a wider audience who would not be reached through more traditional dissemination channels.

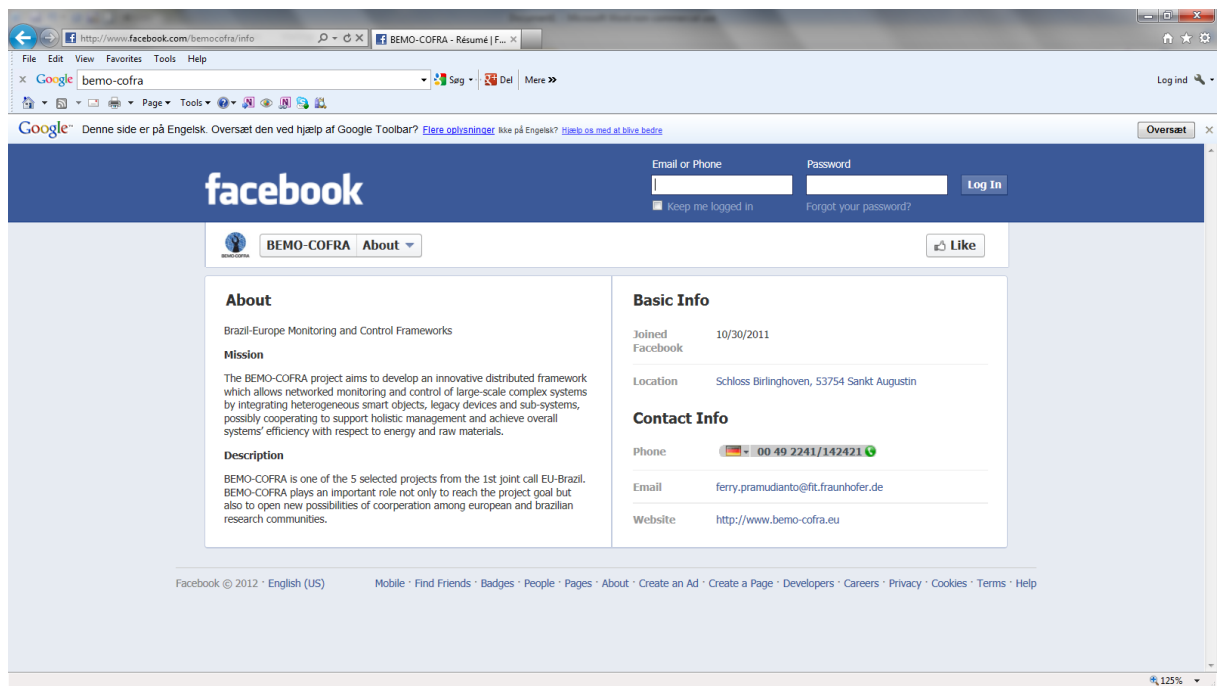


Figure 2: BEMO-COFRA on Facebook

The website has a link to BEMO-COFRA's Facebook profile and to the "like" function. To date there are 13 likes. The website also has a "Share" function which makes it fast and simple for visitors to share the website on the various virtual communities such as Facebook, Twitter, Blogger, Pinterest, Stumbleupon, Reddit etc., or via email.




Figure 3: The website's link to "like" on Facebook and the "Share" button.

The project website is accessible at the URL: [www.bemo-cofra.eu](http://www.bemo-cofra.eu)

### 5.2.2 Poster


A project poster has been produced which is a useful way for partner to present BEMO-COFRA at different events. The poster has been made in the large A1 size and gives a general overview of the project, its visions and objectives.






# BEMO-COFRA

Brazil-Europe Monitoring and Control Frameworks



SEVENTH FRAMEWORK PROGRAMME



Conselho Nacional de Desenvolvimento Científico e Tecnológico

## Integrating the Internet of Things in the Future Factory


### Motivation

- Limited integration shop floor and management back office.
- Limited flexibility for varying productions in a manufacturing plants.
- Plants cannot be easily reconfigured to meet rapid changes of demands.
- High energy costs and stricter environmental impact policies require manufacturer to achieve higher energy efficiency.
- Lack of predictive maintenance that could avoid costly downtime and reduce maintenance costs.

### BEMO-COFRA approach

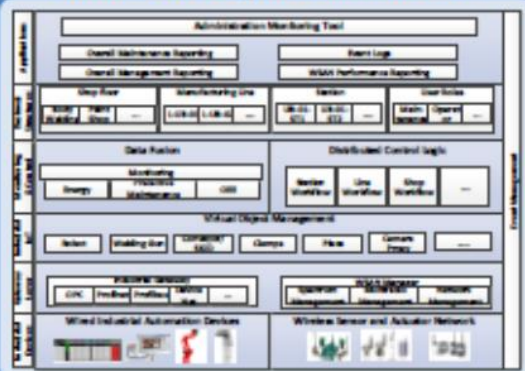
- Integration of reliable WSN to reduce cabling and increase flexibility.
- LinkSmart Event-Driven SOA-based middleware for integrating legacy devices on the shop floor, WSN, and back office applications.
- Promote The Internet of Things standards.
- Energy monitoring and optimization on processes level.
- Development tool to develop monitoring and control applications rapidly.

### Use-case scenario



## BEMO-COFRA platform

### BEMO-COFRA system architecture

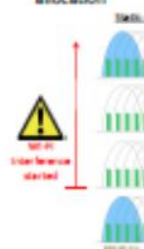
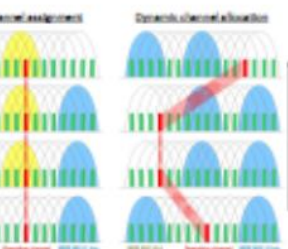



### The impacts to the manufacturing

- Enable dependable, flexible monitoring and control operations based on WSN infrastructure
- Effective management at both device and networking of WSNs adopted for monitoring and control purposes
- Enable interoperability and interaction among heterogeneous legacy sub-systems and the internet of things
- Promote energy efficiency in car manufacturing by leveraging on processes oriented energy monitoring and optimization

### WSNs for industrial monitoring

- Wireless sensor nodes monitor two phenomena:
  - Clamp state: locked or unlocked
  - Skid orientation: correct positioning for welding
- Mechanisms supporting **reliable WSN** operations
  - Frequency-agility:** Spectrum sensing and dynamic channel allocation
 



  - Cooperative sensing**
    - Workload distribution
    - Acquisition consistency
  - Network discovery and recovery**
    - Self-organizing
    - Self-healing



Powered up → Searching for target network → Monitoring connection → Load connection

#### Performance evaluation

- Network downtime**
  - 1 minute per day on average
  - Happens during radio channel switch while the nodes are moving to the new channel
- Round-trip delays between WSN nodes and Gateway**
  - ~60ms when the WSN operates on clear channel
  - Up to ~700ms when background interference is present
- Packet loss rate**
  - Reduced from ~30% typical for WSNs down to ~3%
















Figure 4: The BEMO-COFRA poster

### 5.2.3 Newsletter

Four newsletters have been produced during the project. The newsletter is primarily targeted at industrial and academic communities. The first newsletter was released early October 2012. The project consortium decided to relay the first newsletter to the very end of year 1 in order to allow for project to achieve significant results that could be reported in the first newsletter. In addition to specific articles, all newsletters have featured an update on important dissemination events BEMO-COFRA has participated in, as well as a list of the completed deliverables and a link to the project website where public deliverables can be downloaded free of charge.

The first newsletter presented the BEMO-COFRA project as part of the first EU-Brazil coordinated call. It also featured an article on how BEMO-COFRA intends to use smart cameras for wireless sensor monitoring and an article on dependability in wireless sensor and actuator networks which is a focus area in the project.

The second newsletter was released in February 2013 and it presented the first BEMO-COFRA prototype. The two other articles in the newsletter explained the BEMO-COFRA network architecture and the administration tool for WSANs.

The third newsletter was released in October 2013. It featured a detailed article on how the BEMO-COFRA platform will be able to meet market demands for flexible and holistic production in the manufacturing industries and on the BEMO-COFRA Development Tool which will make it simpler for developers to design applications.

The fourth and final newsletter has focused on giving an overall presentation of the work done and results achieved in the different work packages in the project. It gives readers an overview of how the project has progressed from day one to the final result 30 months later. It also features a presentation of the five papers that have been published to date and a news flash on the most important events where BEMO-COFRA has been represented.

The newsletters have been emailed directly to all registered members on the website where it is also available for download. In addition, partners have distributed the newsletter as html email to their relevant contacts.

### 5.2.4 Press Releases and Coverage

In connection with the Hannover Messe 2013 where FIT demonstrated the BEMO-COFRA monitoring system a press release was published. The press release was aimed at industry and research communities and other businesses involved in ICT.

### 5.2.5 Scientific Papers and other Publications

The consortium set a target of getting 5 papers accepted for publication. A total of 11 papers have been produced and submitted during the project and 5 scientific papers and 1 non-scientific paper have been accepted to date:

Scientific papers:

- *Model Driven Development for Internet of Things Application Development* produced and presented by FIT at SEKE 2013
- *Prototyping the Internet of Things for the future factory using a SOA-based middleware and reliable WSNs* produced by FIT and ISMB and presented by ISMB at EFTA 2013.
- *Underlying Connectivity Mechanisms for Multi-Radio Wireless Sensor and Actuator Networks* produced and presented by ISMB at WiMob 2013
- *A channel monitor for emergency wireless networks* produced and presented by UFPE at the IEEE Consumer Communication & Networking Conference 2014
- *Building an emergency network with off-the-shelf devices* produced and presented by UFPE at the IEEE Consumer Communication & Networking Conference 2014.

Non-scientific paper:

- *BEMO-COFRA: A framework for monitoring and control of multiple devices in a plant floor* produced by iVision, UFAM and UFPE and presented by iVision at ISA 2013.

Moreover, at the time of writing, the following 2 papers have been submitted to the 14th International Conference on Computational Science and Its Application (ICCSA 2014) which will be held at the University of Minho, Guimaraes, Portugal on June 30 – July 3, 2014.:

- *REPL as a Distributed Development Enabler for Contiki based WSNs: A Practical Experience*, has been produced by UFPE and UFAM
- *Efficient channel assignment scheme for uncoordinated 802.11 WLANs* has been produced by UFPE and UFAM.

### 5.2.6 Conferences and other Events

Project partners have had the opportunity to present BEMO-COFRA in a number of conferences, workshops and trade fairs. The five scientific papers related to specific issues of the development and research work carried out in the project have been presented at large international conferences. Moreover, project partners have represented BEMO-COFRA at relevant workshops and trade fairs in both Europe, Brazil and the US.

The following table gives an overview of the different events during M13-M30 (September 2012 – February 2014) where BEMO-COFRA has been presented:

DATE	Place (city, country)	Type of dissemination activity and audience	Name of Partner Persons involved
<b>November 11, 2012</b>	Brussels, Belgium	EUBrasil Seminar	VTT
<b>November 26, 2012</b>	Sweden	Presentation of the BEMO-COFRA project on the IoT Breakfast meeting and live web cast organised by the Dataföreningen i Sverige (The Swedish Computer Society) for ICT professionals in Sweden.	Peter Rosengren (CNET)
<b>April 8-12, 2013</b>	Hannover, Germany	Hannover Messe 2013 Trade Fair - in conjunction with ebbs booth.	Ferry Pramudianto, Markus Eisenhauer (FIT)
<b>June 27 to June 29, 2013.</b>	Boston, USA	Presentation of the paper 'Model Driven Development for Internet of Things Application Development' at the 25 <sup>th</sup> International Conference on Software Engineering and Knowledge Engineering (SEKE 2013).	FIT
<b>September 10-13, 2013</b>	Cagliari, Italy	Presentation of the paper 'Prototyping the Internet of Things Technology for the Future Factory Using Publish-Subscribe Middleware' at the IEEE 18th Conference on Emerging Technologies & Factory Automation (ETFA). ETFA is the prime and largest IEEE-sponsored	ISMB

		event dedicated to factory automation and emerging technologies in industrial automation.	
<b>October 7-9, 2013</b>	Lyon, France	Presentation of the paper, 'Underlying Connectivity Mechanisms for Multi-Radio Wireless Sensor and Actuator Networks' at the IEEE 8th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob).	Claudio Pastrone (ISMB)
<b>October 29-30, 2013</b>	Brussels, Belgium	Presentation about the BEMO-COFRA project at the event Cyber-Physical Systems: Uplifting Europe's innovation capacity. The objective of the event was to bring together key actors in EU research and innovation to discuss strategies and stimulate community building in the area of Cyber-Physical Systems. The event was organised by EC - DG CONNECT, ARTEMIS & Steinbeis-Europa-Zentrum.	Claudio Pastrone (ISMB)
<b>November 6, 2013</b>	São Paulo, Brazil	Presentation of the paper 'BEMO-COFRA: A Framework for Monitoring and Control of Multiple Devices in a Plant Floor' at the 17th International Congress and Exhibition of Automation, Instrumentation and Systems.	iVision
<b>November 6-8, 2013</b>	Vilnius, Lithuania	Presentation of the BEMO-COFRA Project at the on the Conference ICT2013 - Create, Connect, Grow. The ICT2013 event was organised by the European Commission in partnership with the Lithuanian Presidency of the Council of the EU, and the official sponsors of the Presidency. The ICT2013 conference and exhibition was Europe's biggest digital technology event.	Peter Rosengren (CNET) Jesper Thestrup (IN-JET)
<b>11 Nov 2013</b>	Brasilia, Brazil	EU-Brazil Cooperation Workshop	Markus Eisenhauer(FIT), Judith Kelner(UFPE), Djamel Sadok (UFPE), Felipe Madeira (COMAU)
<b>November 2013</b>	Lund, Sweden	Presentation of the BEMO-COFRA project and organisation of an Internet of Things Workshop with 15 participants of the BEMO-COFRA use case for HiQ technical consulting in Lund, Sweden. HiQ works on business system-related projects that are linked to improving processes and the production of media content.	Peter Rosengren (CNET)
<b>January 11, 2014</b>	Las Vegas, Nevada, USA	Presentation of the paper 'A channel monitor for emergency wireless networks' at the IEEE Consumer Communication & Networking Conference 2014.	Djamel Sadok (UFPE)
<b>January 11, 2014</b>	Las Vegas, Nevada, USA	Presentation of the paper 'Building an emergency network with off-the-shelf devices' at the IEEE Consumer Communication & Networking Conference 2014.	Djamel Sadok (UFPE)

Table 4: Participation in conferences, trade shows and workshops

### **5.2.7 Demonstration of the BEMO-COFRA Platform**

Due to the complexity and high cost of the robots used in car manufacturing industry it is only possible to perform one full demonstration of the BEMO-COFRA platform. The demonstration is planned for the project's final review in March 2014 where also the partners in the EU-Brazil project IMPRESS (as this project is related to BEMO-COFRA) will be invited as the final demonstration represents a unique (and once in lifetime) chance to really show the results of the project and the innovative capabilities of the BEMO-COFRA platform.

## References

(BEMO-COFRA, 2012)      The BEMO-COFRA Consortium, D8.2.1 Dissemination Report I.



## APPENDIX A: Press Release Template



**BEMO-COFRA**  
Brazil-Europe Monitoring and Control Framework

Press release DD:MM:YY

## The headline should be short and precise

The opening paragraph tells the most important elements of the story and encourages the reader to read on. Here you present the most significant aspects in four to ten lines and you answer the wh-questions: where, when, what, why, who.

A good press release has a clear message. It is short, precise and credible and should refer to facts and contacts. A good press release makes it easy for the press to follow up on and ideally you should keep your press release within one A4 page and maximum two pages.

### The body text

The body text provides the details of what was presented in the opening paragraph and is divided into short paragraphs with short headings. Remember to stick to one message per paragraph.

Depending on who the press release is targeted at, it is a good thing to add quotes from important sources.

Usually the main text starts with the most important points and ends with factual and general information.

### Last paragraph

The last paragraph should present a list of contacts and more information e.g. links to relevant websites.

It is also worth remembering that you are present and reachable after the press release is sent to make sure the journalists do not contact you in vain.

The press release can be released by one partner, if it is sensible and objective and pays due credit to the project and the other partners. A copy of such release should be circulated (or placed in a repository to be announced) as soon as the release has taken place.

### Remember to include acknowledgement of funding

The BEMO-COFRA project is a 30-month EU-Brazil cooperative research project which started in 2011. The project is partly funded by the European Commission under the 7th Framework Programme in the area of EU-Brazil Research and Development cooperation under Grant Agreement no. 288133. The Brazilian funding is provided by CNPq - Conselho Nacional de Desenvolvimento Científico e Tecnológico.



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