

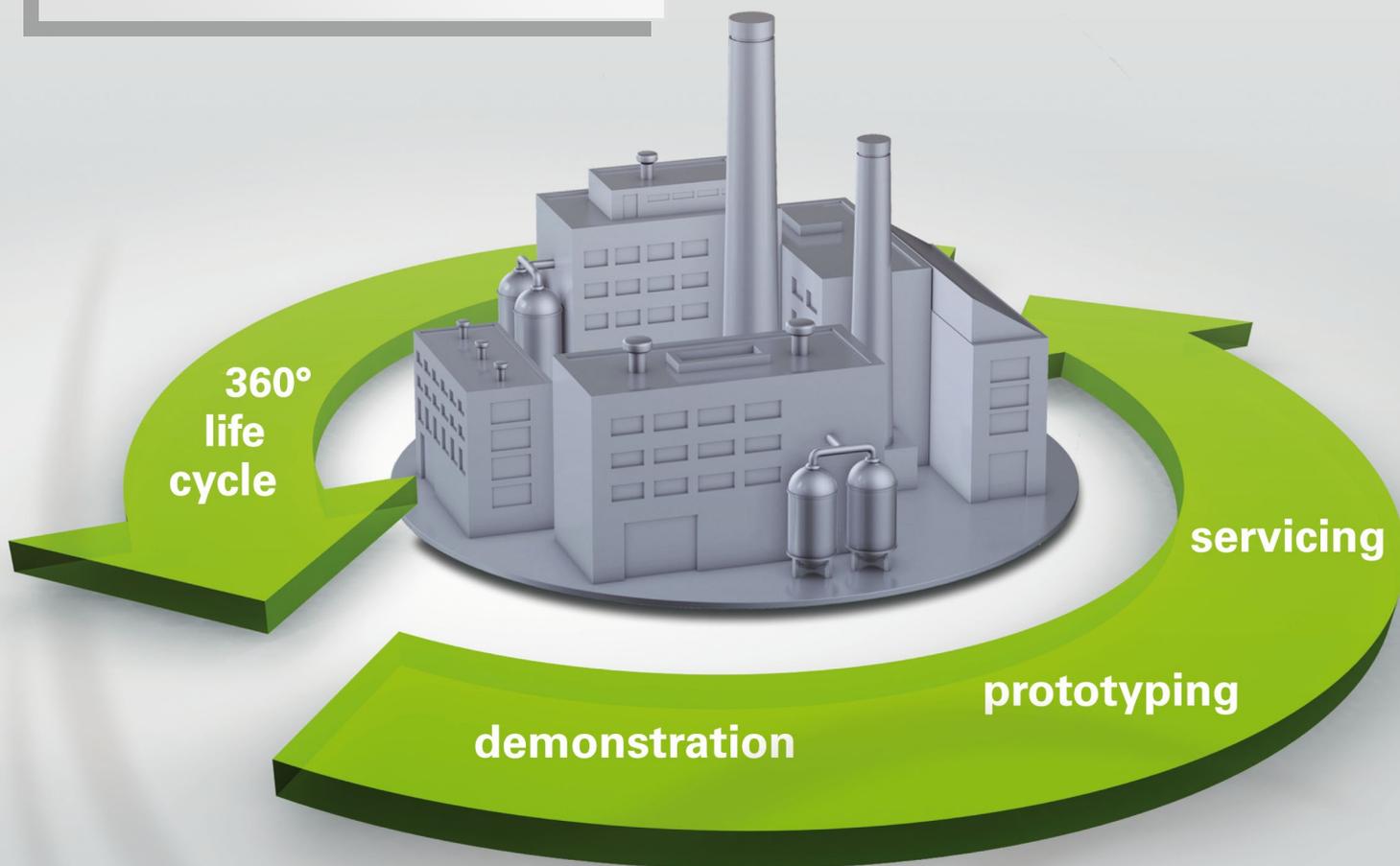
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HWH, Fagor, CMF, CRF, IEF, FhG, SEZ, HSKA, Uoulu,
GMX, ISR, ISG, UPM, PARO, ZEC, TNX, LU



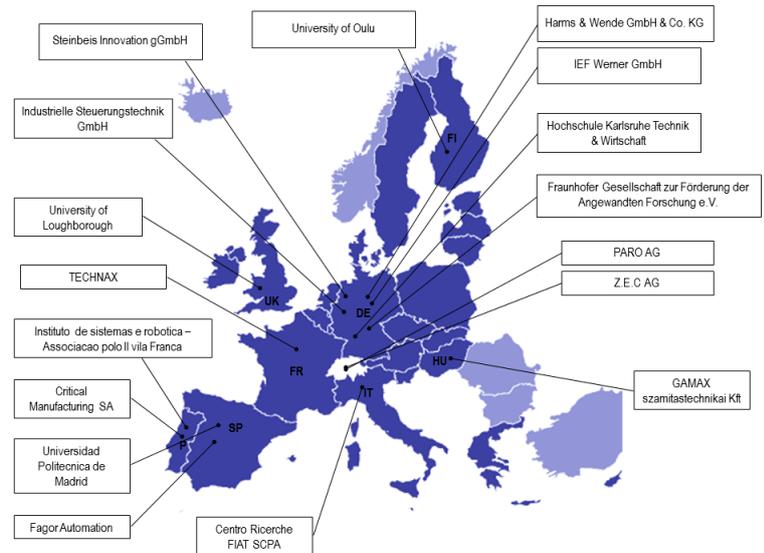
NEWSLETTER



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Dear Reader,

the **ReBorn** consortium is proud and happy to present you the 4th issue of the **ReBorn** newsletter!

Less than 6 months left before the **ReBorn** project is officially over.....so now the consortium is entering the final project stage!

In retrospect, several meetings within the consortium took place: We would like to share with you our month 28 partner meeting in December 2015 in Madrid (Spain) at partner UPM and our demonstrator workshop at partner PARO AG in February 2016. Read more about those events on page 2.

Also, in the 4th edition we would like to share with you an interview with one of our partners. Last time we had a chat with José Pérez Berdud from FAGOR from Spain. He as a end-user gave us interesting insights into the developments within the demonstration phase and also on the evolvement of future business models out for possible project results.

This time we talked to Martin Frauenfelder from the company PARO AG in Switzerland. As a system integrator PARO is in strongly involved in the demonstration scenarios. He will tell us a little bit about the upcoming final event of **ReBorn**, his view on the project and PARO's

developments. Read the complete interview on page 4 and 5.

Last but not least, inform yourself about upcoming events in the field and from the **ReBorn** environment. Here we warmly recommend you, besides the **ReBorn** final event at AUTOMATICA, to visit the IT2Industry in Munich parallel to AUTOMATICA. The Coordination and Support Action (CSA) Co-FACTOR in which **ReBorn** is part of the project cluster, will organize its **smart components event** during the IT2Industry! Read more about it on page 7.

Welcome to the world of **ReBorn** and enjoy reading our Newsletter!

Your **ReBorn** team

To learn more about the project's background, approach and objectives, please visit our LinkedIn profile and the project website:

[LinkedIn Profile - ReBorn](#)

<http://www.reborn-eu-project.org/>

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ReBorn M28 partner meeting from the 9th - 11th of December 2015 in Madrid, Spain at partner University of Madrid (UPM)

9 months after the partner review meeting in Brussels (Belgium), the **ReBorn** consortium had the opportunity to meet again in the beautiful capital Madrid for its M28 partner meeting hosted by partner UPM.

All partners have been aware of the importance of that meeting due to the fact that the M28 meeting provided the last opportunity for all partners to get-together, present and discuss current and upcoming activities and technical issues before the final review. Last but not least the setting, time and place for the **ReBorn** final event has been intensively discussed as well (more on page 4)

On day 1 the 3rd exploitation workshop took place, led by partner SEZ. Partners intensively discussed their Exploitable Results (ER), characterized them in-depth, followed by several exercises with regard to business model considerations for their respective ERs. During the second day all work packages have been presented with regard to the actual status, results achieved so far and

further planning where it was applicable. The project's technical advisor Mr. Vincenzo Nicolo joined the meeting on day 2 in order to get a picture on the actual status, projects progress in comparison to the review meeting in M18 and the further planning. Mr. Nicolo was happy and satisfied to see that the project partners did not rest on their laurels and kept up the good work!

The third and last day was completely dedicated to the work planning and the planning of the final event. Partner agreed on having their final demonstration event in June 2016 at the AUTOMATICA fair. Therefore there is only one thing left to say....the course is set for a successful final event...



Demonstrator progress workshop at PARO AG from the 23rd –24th of February 2016 in Subingen, Switzerland

Complex mechatronic systems, high-precision assembly operations and Additive Manufacturing technology together with sophisticated software modules for equipment condition observation and lifecycle costing – this is the world of the partners within the **ReBorn** area for providing solutions for the reuse of modular mechanical systems. Two physical Demonstrators and various software applications are currently under development which will show the benefits in several show-cases. In order to tackle this challenge, the respective partners came together on 24th February 2016 at the leading partner PARO AG to assess the progress of the work and to plan the finalizing steps in the development. The participants could satisfy themselves on the excellent work and evolution of the work. The mechanical setup of the Demonstrator for transport and pick&place tasks is closed to its end. Here, various medical products will be assembled and the machines capability for adapting itself to different products will be shown. The AM 3D printing machine made also significant progress. This sophisticated technology will be used to print mechanical interfaces for housings and grippers in order to reuse the major parts of such costly components. A Manufacturing Execution System software - tailored to the Demonstrator setup – will provide a deep look into the condition of the mechanical components and will trigger tool exchange and AM printing processes according to actual wear states of components.



On top AUTOMATICA features a separate exhibition sector for the booming service robotics industry this year and covers megatrends such as *digitalization* and resource conservation as well. Further this years edition is dealing with several questions around the topic of the *fourth industrial revolution* for instance "How will these factors affect day-to-day work?", "What groundwork needs to be laid ahead of time?" AUTOMATICA's supporting program aims on answering these questions in lecture forums and live demonstrations where **ReBorn** is also part of. Project coordinator Dr. Michael Peschl will do a presentation on "Successful transition from research to industry - an example from the EC Research Project **ReBorn**". <https://lnkd.in/dAT4FHu>

The decision has been made!

ReBorn goes AUTOMATICA —> final demonstration event in June 2016 in Munich

As already shortly announced on page 1, the **ReBorn** consortium is happy and proud to announce that **ReBorn** decided to use an international, large and industrial stage for its **final demonstration event** the annual AUTOMATICA fair 2016 in Munich from the 21st - 24th of June 2016!

For those of you who do not know what AUTOMATICA is about: AUTOMATICA is a leading trade fair for industrial automation and mechatronics, covering also sensor technology and drive technology to supply technology and positioning systems for the duration of four days. For several years now, AUTOMATICA has been an important platform where specialists and executives of all branches of industry gather information about the latest developments.

Zeit	Thema	Referent
12:00 - 13:00	Offizielle Eröffnung der AUTOMATICA 2016	
13:00 - 13:30	Googles Robotik Pläne	Troy Straszheim Director Robotics and Automation, Google, Inc.
13:30 - 14:00	Robotics trends in the Silicon Valley	Andra Keay Managing Director, Silicon Valley Robotics
14:00 - 14:30	Start-up im Corporate: Radikal mit Methode	Peter Guse CEO, Robert Bosch Startup GmbH
14:30 - 15:00	Amazons Robotik Pläne	N.N. N.N.
15:00 - 16:00	Technologiebeschleuniger Risiko Kapital – Ist Silicon Valley entscheidend schneller?	Podium
16:00 - 16:20	Successful transition from research to industry - an example from the EC Research Project ReBorn	Michael Peschl, Branchenmanager, Harms & Wende GmbH & Co. KG und Koordinator des Projektes ReBorn
16:20 - 16:40	Von der Idee zum Startup	Anwendungszentrum GmbH Oberpfaffenhofen
16:40 - 17:00	Forschungs Speed Dating	Wissenschaftliche Gesellschaft für Montage, Handhabung und Industrierobotik MHI e.V.

The **ReBorn** consortium will share a joint booth with one of the project partners PARO AG in **Hall A6, booth 109**, in order to present latest technological developments.

Interview with Martin Frauenfelder (PARO)

Martin Frauenfelder profil

Martin Frauenfelder is a graduated mechanical engineer from ETH Zürich, and holds a MBA from the Wharton Business School, Philadelphia. He has practical experience in automatic special purpose machining equipment for 11 years and automatic special purpose assembly and injection moulding equipment for 18 years. Martin has acquired the company PARO in 2003 and has been its CEO from 2003 through 2015. As of this year he has handed over the operational management to his successor. He is now focusing on the strategic development of PARO. Apart from scouting for new business opportunities he also leads PARO's research activities including EU projects such as **ReBorn**.

Due to the fact that PARO AG is present as an exhibitor on the AUTOMATICA since many years, please tell me what are the characteristics of this fair? What makes it special?

According to my opinion AUTOMATICA aims on becoming a worldwide established and well-known leading trade fair in the area of robotics and system solutions for production industry. A few trade fairs are dealing with the topic, of course also Hannover Fair, which is one of the biggest trade fairs, but it's always only embedded as one single part. So AUTOMATICA is dedicated to robotics and system solutions and really focusses on these areas.

We exhibit at AUTOMATICA since 2004 and for us as a system integrator it is platform that offers us the best possible visibility for our area of expertise. I have also the impression that the audience, exhibitors and visitors, are becoming more and more international, which is very good for us, because the majority of fairs which we attend have a rather national focus.

The 2016 AUTOMATICA edition is quite special for the ReBorn consortium, because we will be there as an exhibitor to present our project, the developed technology and of course our partners.

Have you ever presented results and outcomes from collaborative projects like ReBorn during an industry fair?

To be honest, we have never done that before. But once

is the first time and I'm really confident, that it will be a great success. The **ReBorn** project has been a booster for our own development activities around the Flextreme platform. We will present an all new Flextreme cell and with the equipment developed by Fraunhofer IPA and Technax we will have two additional eye catchers on our booth. Within **ReBorn** we have developed a technology, which is ready in terms of industrial uptake and worthwhile to present. So for us at PARO it is also something special! Further it enables us new perspectives and possibilities, because our involvement in the **ReBorn** project shows us in a different light and definitely attracts also further audience.



PARO AUTOMATICALLY PERFECT

NEWSLETTER

Interview with Martin Frauenfelder (PARO)

Martin, within the project **ReBorn**, PARO AG is strongly involved in the demonstration scenarios and responsible for providing of assembly technology with specific experience of the flexible assembly systems market. Further you are supplier of demo system components (demo cell, feeding & handling equipment, specific tooling etc.)

Please tell me briefly, what will be shown and presented from the ReBorn project? Why should visitors should come around and visit PARO AG and ReBorn at the booth?

In general, the **ReBorn** consortium will present live hands-on demonstration, which is definitively worthwhile to see! We from PARO will present our Flextreme cell which will demonstrate how the cell can switch from one application to another by Additive Manufacturing technology. Here the cell of PARO and of IPA is able to communicate via an interface, developed by our partner CMF.

I think that visitors definitely have to visit our joint booth if they want to see an outstanding technology! Our technology is closely linked with Industrie 4.0 or to put it in other words, at our booth you are able to experience hand-on practiced Industrie 4.0.

PARO will share its booth with the ReBorn project. Can you tell us something about the other partners to the contribution to the demonstrators?

In total we have 17 partners in our consortium where all of them heavily contributed to the project's success.

Besides our demonstration we will present a few more demonstrators The first demonstrator presented by our partner Technax (France), is a highly flexible resistance welding cell. Further, our partner Fraunhofer IPA will present its Additive Manufacturing cell. It will show how workpiece fixtures and gripper applications are getting produced.

As you will see during the AUTOMATICA some of the technology developed is directly visible and noticeable and some of the contributions of other partners is the technology "inside" and not directly visible. I just recommend the people to join us and get to know the whole consortium!

Thank you very much Martin for the interview!



NEWSLETTER

NEWS FROM THE ReBorn ENVIRONMENT

Save-the-date and meet ...



...Smart components for tomorrow's industry@ IT2 INDUSTRY

Quick facts

WHAT: Co-FACTOR cluster presents latest solutions for smart, IT enabled production from Europe wide collaborations

WHY MEET: B2B with developers, presentation "Europe meets Industrial Smart Components", featured smart component pitches at booth, link to our industrial partners @ AUTOMATICA fair, Quiz: smart = xxx, & more

WHEN/WHERE: June 21.-24. 2016, hall B4

More information to come soon on: <http://www.cofactor-eu-project.org/>

Visit the **Co-FACTOR** project during the IT2Industry 2016 in Munich, Germany in parallel to AUTOMATICA from the 21st - 24th of June 2016

Co-FACTOR will organize an Innovation event on Industrial Smart Components during the IT2Industry 2016 and will be there as an exhibitor. **Co-FACTOR** will also take part in a forum presenting aspects of on "Europe meets Industrial Smart Components".

What to expect:

- ◆ Several workshops
- ◆ Innovation coaching
- ◆ B2B matchmaking to meet the developers of latest technology
- ◆ Networking opportunity and access point to Smart Components players at our booth for all other interested will be part of the event.

More information on the planning and the agenda will be provided soon. For more information about the convention, please visit: <http://it2industry.de/index-2.html>

Upcoming events in the field

CEBIT, 14th – 18th March 2016 in Hannover, Germany

CeBIT comprises latest IT trends, presents talks by well-known speakers, forward-looking panel discussions, and showcases product innovations from all over the world. For more information, please visit: <http://www.cebitt.de/>

Public Private Partnerships Impact Workshop, 14th – 15th of April 2016 in Brussel, Belgium

In the 2016 edition of this workshop, coordinators of running projects will have the opportunity to meet in order to discuss the impact of a selection of ongoing and completed PPP projects.

Hannover Fair, 25th - 29th of April 2016 in Hannover, Germany

Hannover Fair covers a wider range of themes and exhibits than any other event – R&D, industrial automation and IT, industrial supply, production engineering and services, as well as energy and environmental technology. For more information, please visit: <http://www.hannovermesse.de/home>

World Manufacturing Forum (WMF), 3rd – 4th of May in Barcelona, Spain

WMF aims on bringing together leading experts from across the globe to explore manufacturing and related issues and to generate greater cooperation. For more information and registration, please visit: <http://www.worldmanufacturingforum.org/>

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