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Editorial...

Welcome...

to the eighth ManuBuild Newsletter. This issue presents methods for ambient manufacturing and some of the key developments in this area.

We would also like to draw your attention to the Futurebuild event where ManuBuild will host a stand to present major project achievements.

All newsletters (current and past versions) are also available at the [ManuBuild Web Site](http://www.manubuild.org) (www.manubuild.org) and at the [Community of Interest](http://www.manubuild.net) (www.manubuild.net).

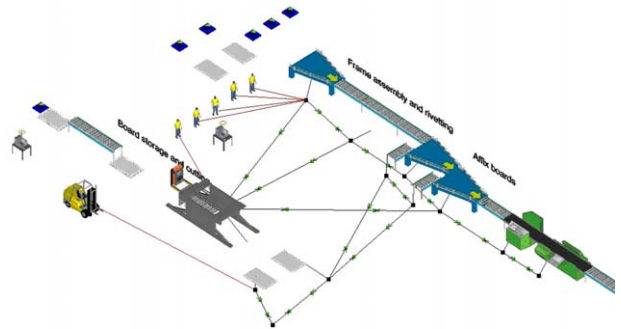
Ambient Manufacturing Methods

Within this topic new manufacturing methods and technologies are addressed that form the basis for the enhancement / improvement of static factories and for the development of the flexible mobile factory, corresponding on-site logistics and rapid connection and assembly methods.

- **New Manufacturing Technologies:** A web-based, construction focused guide (<http://xtra.ivf.se/manubuildpilot>) has been developed and continually updated with new manufacturing technologies.
- **Logistics Solutions:** The guidelines and specifications that have been investigated offer a comprehensive logistics solution that will improve the efficiency of a manufacturing line. Key case studies were carried out in order to prove the ideas generated for a successful logistics solution.
- **Rapid Connection and Assembly Methods:** The rapid connection and assembly methods will advance step changes in improving health and safety requirements. The aim is to reduce the physical tasks that are required to assemble elements and components on-site

and off-site. Key case studies were carried out using physical connection prototypes to estimate the manufacturing and assembly methods required for high, medium and low volume production

- **Autonomous High Volume Fixed Factory:** A fixed factory concept has been developed to show the next generation factory. This will enable construction to transform from a "cottage industry" into a "highly manufactured industry". Process simulation models of key aspects of the specific manufacturing concept show an increase in productivity by 20% versus a "best in class" off-site manufacturer.



Autonomous High Volume Fixed Factory (s: Corus)

ManuBuild at Futurebuild, London, 3-5 March 2009

Futurebuild is the UK's leading event dedicated to what is new in construction. Now in its fourth year, it takes place annually alongside Ecobuild at Earls Court, London and provides a unique showcase for the latest products destined for building structures, finishing and services. Together with Ecobuild, in 2009 it will attract in excess of 800 exhibitors and 30000 visitors.

ManuBuild will host a stand at this event, where visitors will find physical displays, presentations and simulations covering the many outputs from the project. The exhibits will be provided by ManuBuild partners from Sweden, Spain, Poland, Finland, Germany and the UK.

Besides its exhibits ManuBuild will run a free seminar as part of the Futurebuild seminar programme. This will be on the theme of Innovation and Offsite.

More event information can be found on www.ecobuild.co.uk/futurebuild.

Further information will also be displayed on the [ManuBuild Community of Interest](http://www.manubuild.net) soon.

Partners

The ManuBuild Consortium consists of 22 partners from 8 countries in Europe:

Corus Group (UK), www.corusgroup.com
(Coordinator)

VTT Technical Research Centre of Finland (FI),
www.vtt.fi, (Technical Coordinator)

Dragados S.A. (ES), www.grupoacs.com

Empresa Municipal de la Vivienda, SA. (ES),
www.emvs.es

FCC Construcción S.A. (ES), www.fcc.es

Fraunhofer Institut für Arbeitswirtschaft und
Organisation (IAO) (DE),
www.rdm.iao.fraunhofer.de

Mostostal Warszawa S.A. (PL),
www.mostostal.waw.pl

NCC Construction Sverige AB (SE), www.ncc.se

Taylor Woodrow Construction Ltd. (UK),
www.taylorwoodrow.com

YIT Construction Ltd. (FI), www.yit.fi

Universidad Carlos III de Madrid (ES),
www.uc3m.es

Construction Industry Research and Information
Association (CIRIA) (UK), www.ciria.org.uk

Consolis Oy Ab (FI), www.consolis.com

Enterprie Software Ltd. (FI), www.enterprie.com

Graphisoft R&D Rt (HU), www.graphisoft.com

Building Research Institute (PL), www.itb.pl

Swerea IVF (SE), www.swereaivf.se

Fundación Labein (ES), www.labein.es

TNO Building and Construction Research (NL),
www.bouw.tno.nl

Technische Universität München (DE),
www.bri.ar.tum.de

University of Salford (UK), www.salford.ac.uk

Institut für Arbeitswissenschaft und
Technologiemanagement (IAT), University of
Stuttgart (DE), www.iat.uni-stuttgart.de

European Construction Technology Platform

ManuBuild partners also actively participate in the ECTP (www.ectp.org) defining the strategic research directions for the construction sector.

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**For further information,
please visit the official web site
www.manubuild.org**

**or send an email to
info@manubuild.org**



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