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Editorial...

Welcome...

to the ninth ManuBuild Newsletter. This release summarises the results of the four-year project ManuBuild (April 2005 – March 2009).

On the occasion of the Futurebuild event (March 3-5, 2009), all ManuBuild achievements were presented. The exhibition was a great success and showed that the ManuBuild focus on Open Building Manufacturing fully tackles the requirements of the construction sector both from a customer and a vendor perspective.

As usual, you can download all newsletters (current and past versions) from the [ManuBuild Web Site \(www.manubuild.org\)](http://www.manubuild.org) and the [Community of Interest \(www.manubuild.net\)](http://www.manubuild.net). Additionally various ManuBuild books on Open Building Manufacturing are also available at both platforms for free downloading.

ManuBuild Achievements

Just to recall the basic idea: "The vision of ManuBuild is **open building manufacturing**, a new paradigm for building production and procurement by *combining* highly efficient **manufacturing techniques** in factories and on construction sites *and* an **open system** for products and components offering diversity of supply and building component configuration opportunities in the open market."

In this context, the ManuBuild partners developed a number of tangible results in the form of methods, guides and tools and also physical products:

Methods for the Design and Specification of Open Building Manufacturing

- Methodology for Product Development
- ManuBuild System Framework
- Architectural Typology

Products for Open Building Manufacturing

- New Multi-functional Materials

- Connections and Interfaces
- Smart Components
- Partition Wall Systems
- Building Acoustics Classification
- Multi-function and integration
- ManuBuild Building System

Business Models and Processes

for Open Building Manufacturing

- ManuBuild Business Model
- Reference Business Process
- Organisational Models
- Service Models
- Business Models
- Performance Metrics
- Market Analysis Methodology

Manufacturing Methods and Techniques

for Open Building Manufacturing

- Manufacturing Methodologies and Principles
- Process Technologies
- High Volume Fixed Factory Manufacturing
- Mobile Factory Concept
- Logistic Solutions
- Rapid Connection and Assembly Methods

IT System Architecture and Tools

for Open Building Manufacturing

- ManuBuild System Architecture
- Open ManuBuild System Platform
- Product Modelling Ontology
- Intelligent Catalogues and Building Templates
- Catalogue Server
- Design Configurator
- Sales Configurator
- Manufacturing Configurator
- Logistics and Assembly Planning

Training Solutions

for Open Building Manufacturing

- Training Courses
- Teaching Factory
- Virtual Reality Interactive Training Environment for Offsite Manufacturing
- University Education on Offsite Manufacturing

The aforementioned project results are further validated in the **ManuBuild Demonstrators**:

- Low Rise Housing in the UK
- Medium Rise Apartments in the UK
- High Rise Apartments in Madrid
- Medium Rise Apartments in Sweden

For more information about the ManuBuild achievements and for downloading the online books, please visit the [ManuBuild Web Site \(www.manubuild.org\)](http://www.manubuild.org) or the [Community of Interest \(www.manubuild.net\)](http://www.manubuild.net).

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.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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Open Building Manufacturing

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