

European Network of Construction Companies for Research and Development

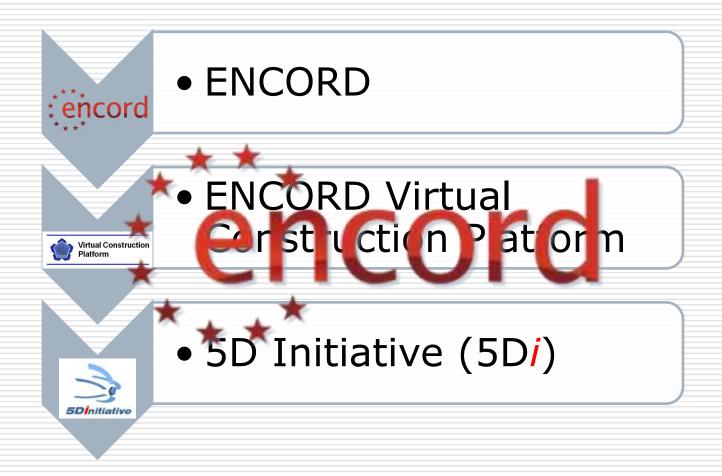
Lake Constance 5D-Conference 2012 Welcome Address ENCORD

21-22 May 2012 | Lake Constance, Germany

Menno de Jonge | Ballast Nedam – Director of Innovation | ENCORD – Vice President



Content





ENCORD's Main Objective

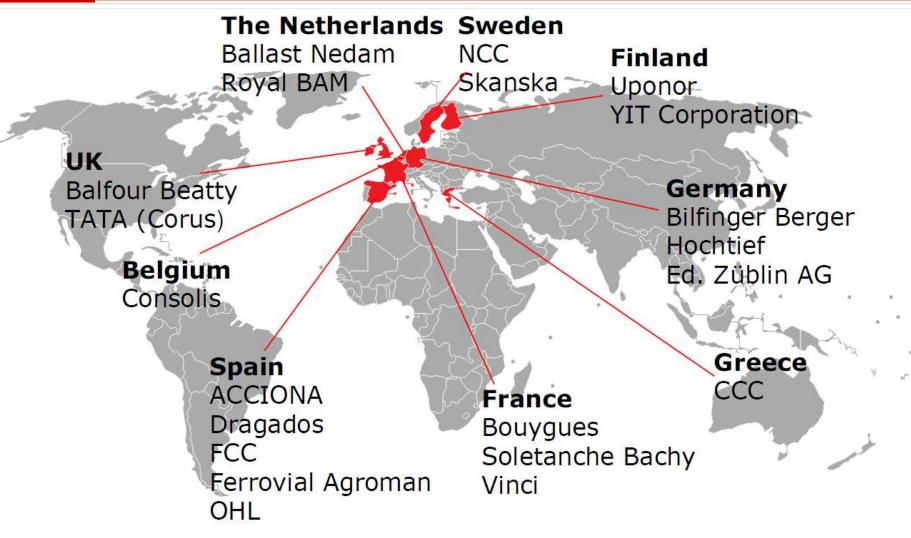
Be Europe's forum for the promotion of industryled research, development and innovation in the construction sector (established in 1989)

Our members are leading construction companies and suppliers from all over Europe





ENCORD impact



Combined turnover € 360.000.000.000 | over 1.700.000 employees worldwide



Relevance "Europe's Top Contractors"

2011 EU	2011 Global	Company Name	Location	Rev. total	Rev. Int.	2010 New contracts
1	4	VINCI	France	45,110	16,558	37,215
2	6	BOUYGUES	France	30,671	12,432	33,275
3	8	HOCHTIEF AG	Germany	28,980	27,425	37,652
4	9	Grupo ACS	Spain	20,632	6,562	23,388
5	12	EIFFAGE	France	17,729	2,853	14,563
6	14	FCC	Spain	16,060	7,458	25,433
7	16	Skanska AB	Sweden	14,636	11,632	18,235
8	22	STRABAG SE	Austria	12,777	10,870	12,449
9	23	Balfour Beatty	U.K.	12,400	5,161	12,351
10	26	Bilfinger Berger SE	Germany	10,781	6,324	10,681
11	28	Royal BAM Group	Netherlands	9,808	5,435	11,129
12	36	Sacyr Vallehermoso	Spain	6,942	2,163	10,280
13	38	OHL	Spain	6,481	4,625	6,569
14	41	Ferrovial Agroman	Spain	6,111	3,346	7,053
15	47	ccc	Greece	5,265	5,265	6,428

Source: ENR Engineering News Record, August 2011 Top International Contractors - total revenue



Goals of ENCORD

- □ Exchange experiences and best practice, discuss strategies for the development of the construction sector, develop new ideas for research projects (...and do it together)
- Define priorities for European construction R&D&I / Communicate with EU administration and EU research community, to initiate new R&D&I programmes, proposals, projects / Influence the R&D&I agenda
- ☐ Create awareness of the benefits of (increased) investments in construction R&D&I

Activities

- □ Three Council Meetings per year
- ☐ Thematic R&D&I groups and Workshops on key issues facing the construction sector today:
 - Eco-efficient / Sustainable construction
 - Health & Safety (H&S)
 - Lean construction Management (LCM)
 - Knowledge Management (KM)
 - Mastering Greenhouse Gases Emissions
 - Infrastructure
 - Virtual Construction & ICT (Information and Communication Technology)
 - Implementation of Results of Research Activities
 - ... open for new topics



ENCORD

European Network of Construction Companies for Research and Development http://www.encord.org

Ger Maas | Royal BAM Group President of ENCORD

Menno de Jonge | Ballast Nedam Vice-President

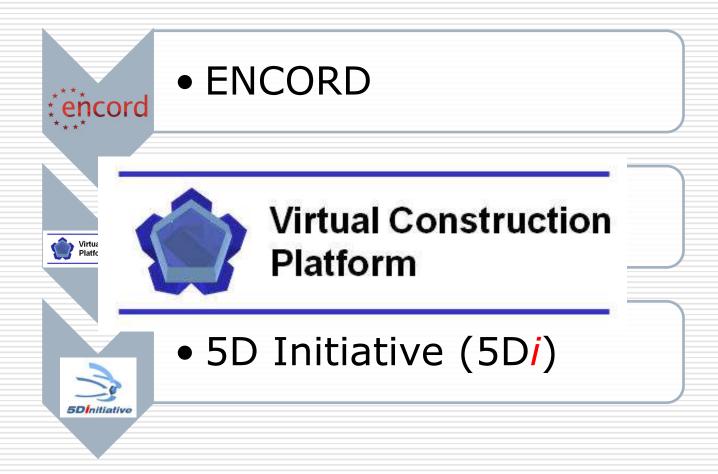
Claude Dumoulin | Bouygues Construction Vice-President

Juan Elizaga Corrales | Ferrovial Agroman Vice-President

Jens-Peter Grunau | Ed. Züblin AG
General Secretary ENCORD
Phone +49 711 7883 247
E-mail jens-peter.grunau@zueblin.de



Content







ENCORD VCP

Virtual Construction Platform

www.encord.org





ENCORD VCP – How did it start

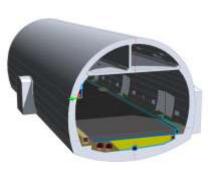
- Reasons for initiating ENCORD VCP:
 - Individual developments and research approaches → expensive, slow and will not set standards;
 - Difficult to monitor fragmented but emerging technical developments;
 - Co-operation and exchange of experiences with clients, industry, suppliers, universities and research institutes is desired to gain synergies.

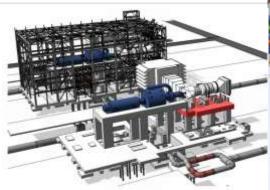
ENCORD VCP – How did it start

- ☐ Aims of the Virtual Construction Platform:
 - Improve efficiency of construction process
 - Improve quality of construction process
 - Reduce failure costs and make (more) money
 - Enlarge awareness in construction sector
- □ 1st VCP meeting Jun 2002 Netherlands (BAM)
- 2 to 3 meetings per year
- Hosting by our member companies
- □ 24th VCP meeting Oct 2012 Spain (Acciona)

ENCORD VCP - Results until now

- ☐ 1st ENCORD VCP meeting in June 2002
- 2 meetings / year at member companies
- Meeting content:
 - Best (and Worst) Practice exchange
 - What's new presentations
 - Software vendor presentations





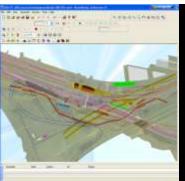


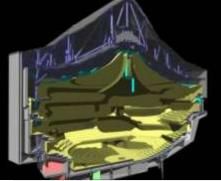
ENCORD VCP - Results until now

☐ Results:

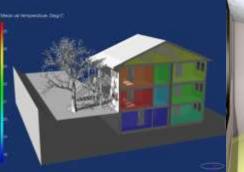
- Massive progress at member companies
- BIM is now standard practice in ENCORD companies
- ☐ Challenges:
 - Need for improvements BIM software
 - Need for collaboration tools
 - Need for sustainability tools





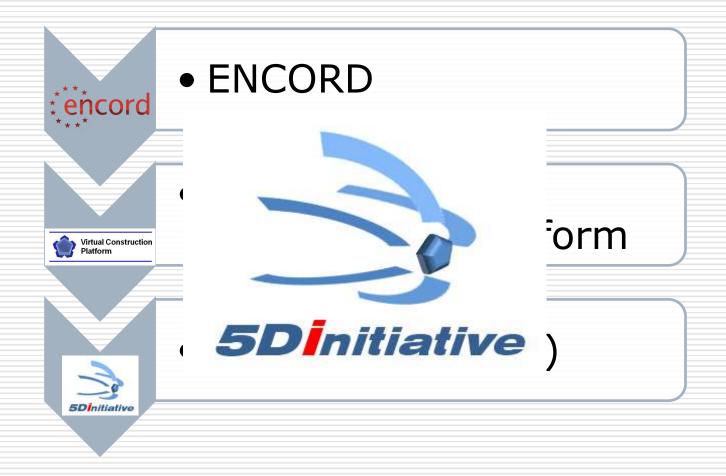








Content





5D Initiative (5Di) - How did it start



☐ Founded in June 2008 by







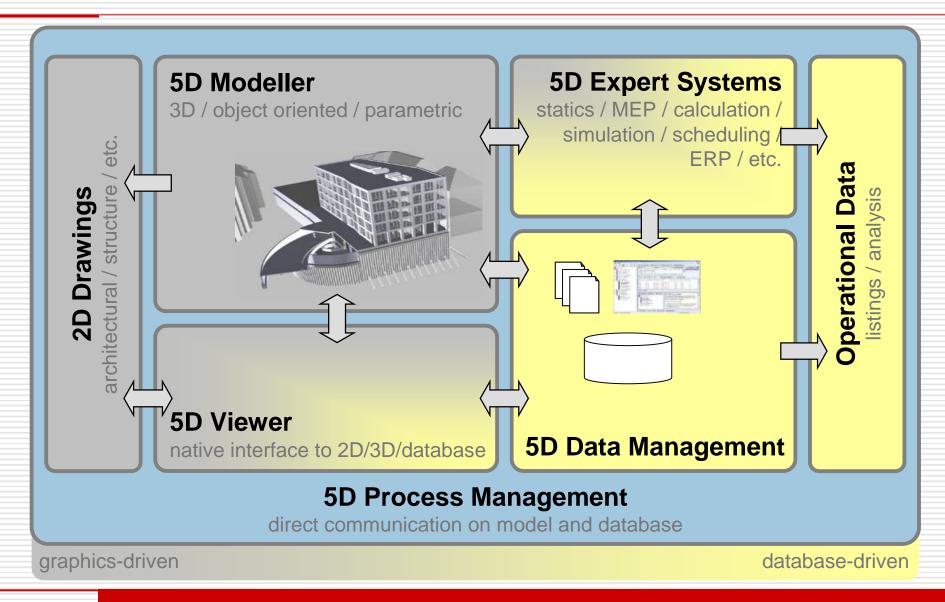




Objective:

- Setup common requirements for model based IT tools for planning, realising and operating buildings and infrastructure => BIM for Construction / BIM 2.0;
- Open: collaboration platform of construction companies;
- Active: actively driving the discussion by workshops / definition papers

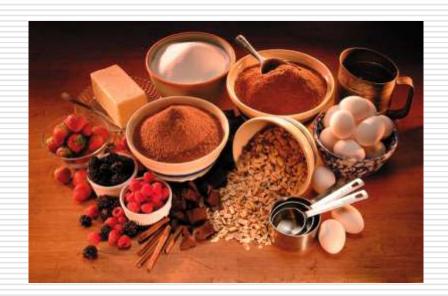
5Di Achievements – Vision map (solution components)





Closing remarks

- ☐ 5 EU contractors active in 5Di since 2008
- ☐ Supported by 15 contractors in ENCORD VCP since 2002
- ☐ Supported by 20 contractors in ENCORD since 1989
- Collaboration with international software industry and universities & research institutes



☐ The ingredients for a great 5D-Conference!!





European Network of Construction Companies for Research and Development

Lake Constance 5D-Conference 2012 Welcome Address ENCORD

21-22 May 2012 | Lake Constance, Germany

Menno de Jonge | Ballast Nedam – Director of Innovation | ENCORD – Vice President

