



Safety in Design - OSH Construction Coordination in Europe

ISHCCO

Dr. Reinhard Obermaier - President

International Safety & Health Construction Co-ordinator's Organisation

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ISHCCO Members

ISHCCO International Safety and Health Construction Coordinators Organisation

Founded in 2002

European Umbrella Association of Coordinators for Safety and Health Matters



Member Countries – Member Associations

AT: BAUKO, BE: VC-CS, CH: Lobsiger & P. GmbH, CY: CYACE (SPOLMIK), CZ: CSSK, DE: VSDI & VSGK, DK: IDA, ES: ACSYS, FR: GOK SPS, IT: AIAS, LU: ACSSL, PT: OET, SK: BOZPO

Representing

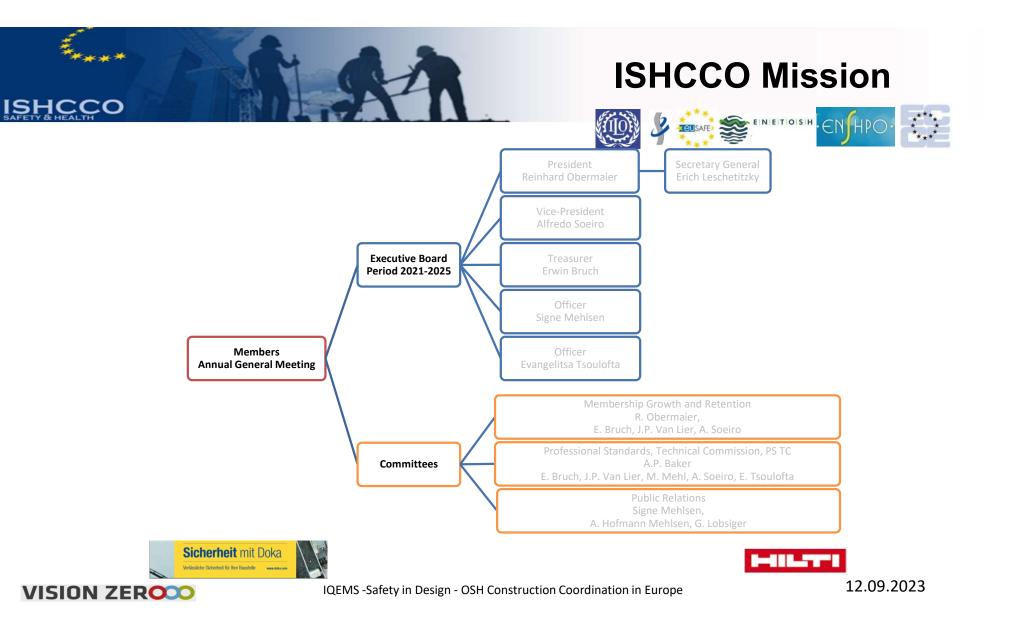
60.000 SHCC (Safety and Health Construction Co-ordinator)





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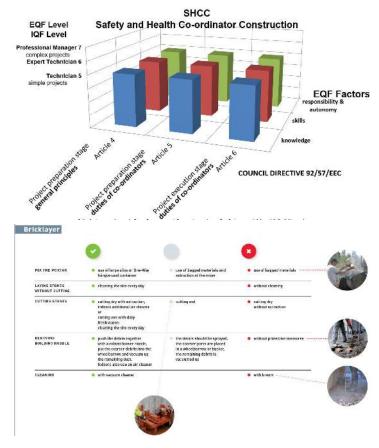




Publications of ISHCCO

- Recurrent reports on the implementation of GL 92/57 in Europe
- ISHCCO Qualification Framework (IQF)
- Reducing Respirable Crystalline Silica Dust Effectively (RCSD) mapping of good practise 32 craft / 12 EU languages by EFBWW & FIEC www.fiec.eu RCSD)

ISHCCO Products



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ISHCCO BAFETY & HEALTH Bricklayer	A A	RCS	SD Mapping	- Bricklayer
MIX THE MORTAR	• use of large silos or One-Way (single-use) container	 use of bagged materials and extraction at the mixer 	use of bagged materials	
LAYING STONES WITHOUT CUTTING	• cleaning the site every day		• without cleaning	
CUTTING STONES	 cutting dry with extraction, indoors additional air cleaner or cutting wet with daily fresh water; cleaning the site every day 	O cuttingwet	 cutting dry without extraction 	
REMOVING BUILDING RUBBLE	 push the debris together with a robust hoover nozzle, put the coarser debris into the wheelbarrow and vacuum up the remainingdust. Indoors also use an air cleaner 	 the debris should be sprayed, the coarser parts are placed in a wheelbarrow or bucket, the remaining debris is vacuumed up 	without protective measures	
CLEANING	• withvacuum cleaner		with broom	
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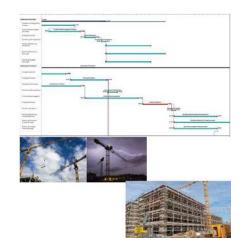
Construction Sites

Construction Site an extraordinary workplace

- Temporary working place
- Workplaces with changing conditions
 - Progress of the construction project
 - Building, traffic routes, infrastructure facilities, plant complexes
 - New construction, renovation, deconstruction
 - Weather
 - Unstable safety environment
 - Protective measures must be actively created

• Several / many companies

- simultaneously at the same site
- one after the other conditions encountered
- Different working methods, protective measures:
- Responsibility for health and safety per company
- Mutual hazards and risks
- different cultures and languages:
- time and <u>cost pressures</u>



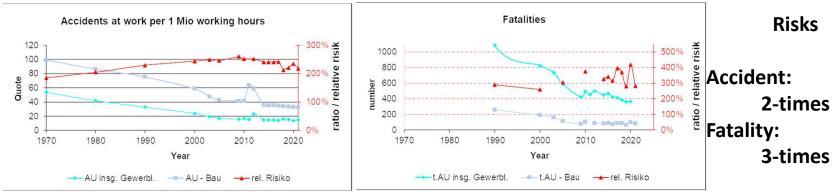
technical standards: home country v. country of the site

communication, social behaviour and manners, nutrition wages, living expenses (at site and home)

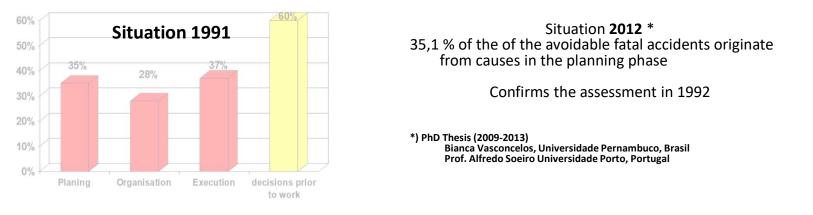
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Construction Sites



Fatal: Rout Causes 60 % by decisions prior to work



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SH

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SHCC – The Mandate

Safety and Health Construction Coordination (SHCC)

Initiate and accompany measures to coordinate safety and health (of employees) and to ensure their implementation

- **Coordination in planning** (planning phase)
 - Initiating and coordinating measures
 - Information on structure and design for safe working general principles of prevention and safety
 - Setup of the safety and health plan (S&H-Plan)
 - Prior notice
- Coordination in execution (construction phase)
 - Safety and health plan
 - Publication / Distribution
 - Implementation
 - Update
 - Establishment of a health and safety regime and monitoring
 - Information on mutual risks and planned protective measures Including the adaption of changes
 - Initiating OSH control measures
 - Implementation of the Follow-up of deviations
 - Safe, subsequent work on the structure
 - Initiate and assemble the health and safety documentation (the File)

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SHCC – The Mandate

Safety and Health Construction Coordination (SHCC)

- The task is: to
 - To apply the OSH regulations
 - To introduce good and approved praxis
 - To adapt the OSH measures specifically what is needed at the particular project
 - To arrange a system enabling the contractors to provide the OSH measures in time
- The SHCC

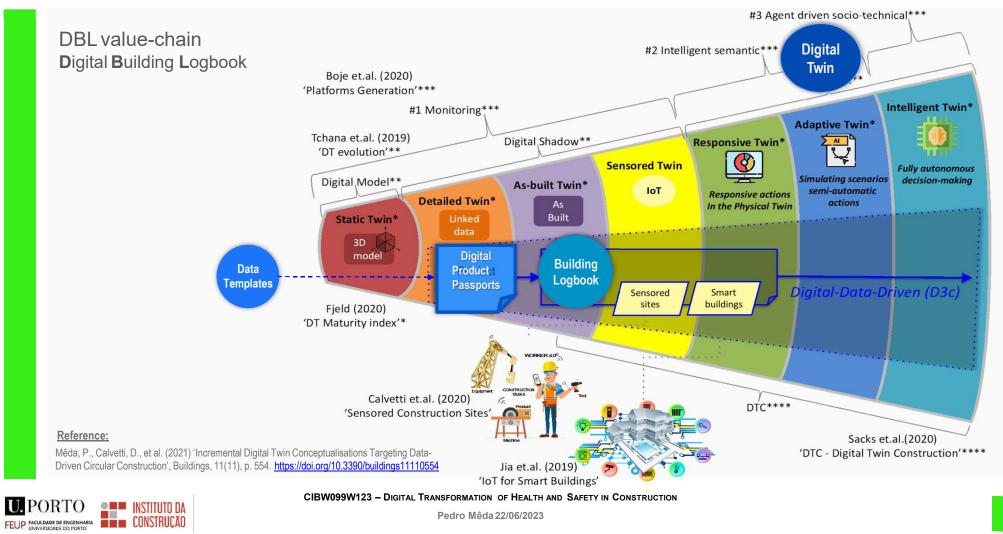
guides the client towards a safe project as

designer of the

inherent, specific safe & healthy works at the construction project

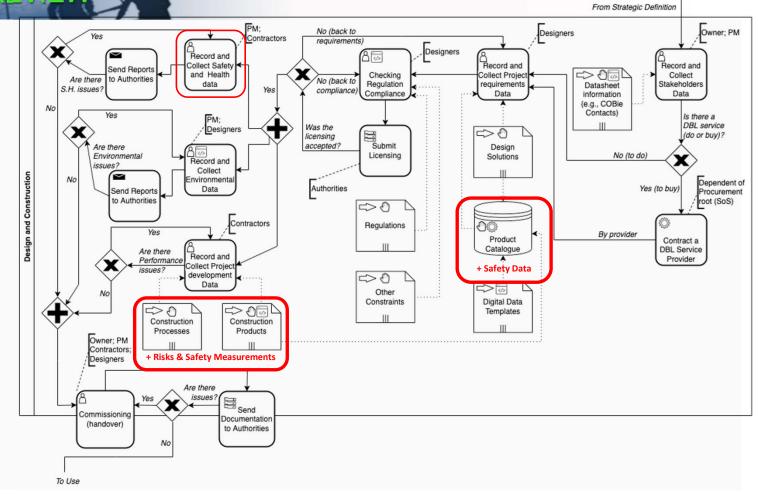
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2 BACKGROUND – REVIEW



2 BACKGROUND - REVIEW

DBL – Digital Building Logbook BPMN – Business Process Model Notation



References:

U.PORTO PORTO

FEUP FACULDADE DE ENGENHARIA

Mêda, P. et al. (2022) 'A Process-Based Framework for Digital Building Logbooks', EC3 2022 European Conference on Computing in Construction. Ixia: EC3, p. 8. https://doi.org/10.35490/EC3.2022.183

LONSTRUCAD

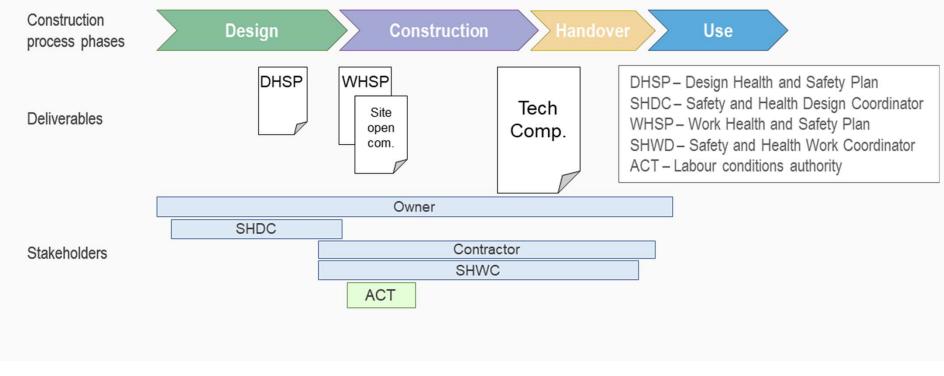
CIBW099W123 - DIGITAL TRANSFORMATION OF HEALTH AND SAFETY IN CONSTRUCTION

Pedro Mêda 22/06/2023

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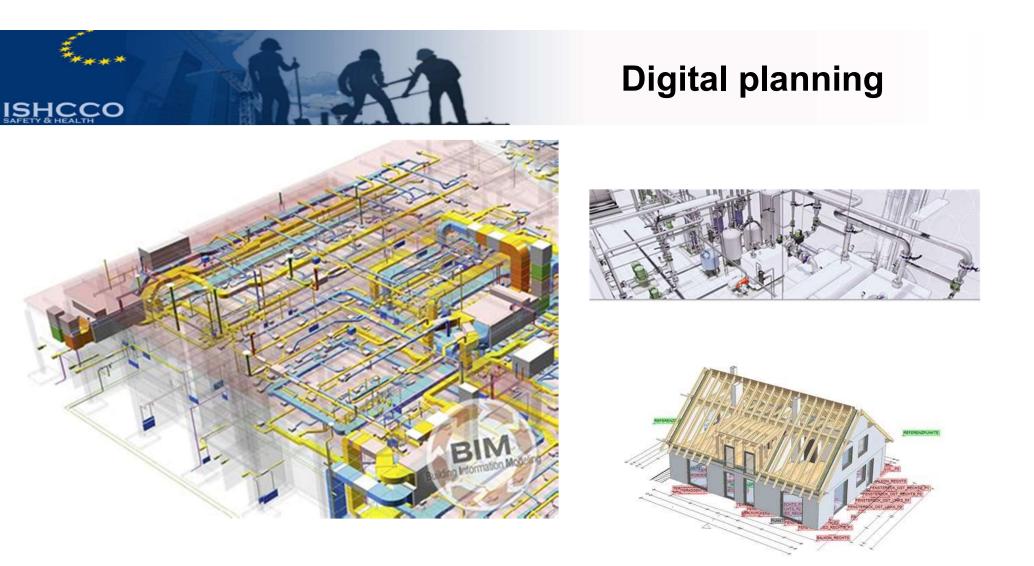
SH Deliverables and involved Stakeholders through the construction process





CIBW099W123 - DIGITAL TRANSFORMATION OF HEALTH AND SAFETY IN CONSTRUCTION

Pedro Mêda 22/06/2023



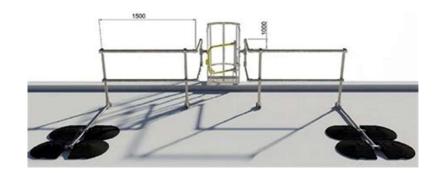
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Fall protection – flat roofs

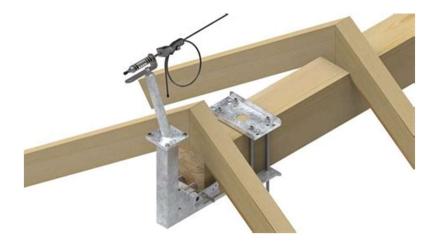


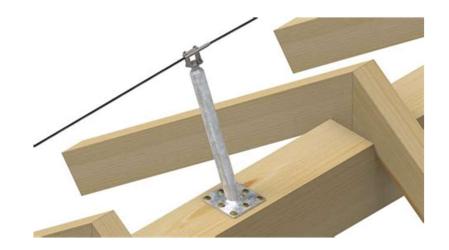


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Pre-installed safety railing





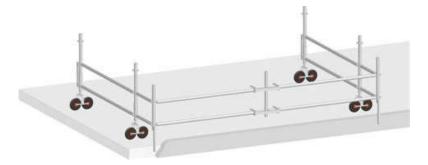
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Temporarily fall protection









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Temporarily access





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Climbing working places





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Summary SHCC

- ISHCCO European Umbrella Association for Safety and Health Coordination
- 2/3 of fatal accidents due to decisions prior to work
- Planned safety for the execution phase
- Planned safety for the use of the building
- Digital planning systems in development

SHCC is the designer of the

inherent, specific safe & healthy works at the construction project

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ISHCCO Coordination and Leadership for Safety in Construction

Thank you for your attention.

Do you have questions? I am looking forward to your suggestions.

Dr. R. Obermaier, President

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