



8th INTERNATIONAL CONFERENCE "CONSTRUCTION SAFETY & HEALTH"

26 & 27 May 2023

Hotel Hilton Nicosia,
Engomi, Cyprus

ISHCCO
The Role of Safety and Health Coordinators



Respect Human Rights

—

The Role of Safety and Health Coordinators

ISHCCO

Dr. Reinhard Obermaier - President

International Safety & Health Construction Co-ordinator's Organisation

www.ishcco.org

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ISHCCO Members

ISHCCO

International **S**afety and **H**ealth **C**onstruction
Co-ordinators **O**rganisation

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: ACSL, PT: OET, SK: BOZPO

Representing
60.000 SHCC

(Safety and Health Construction Co-ordinator)

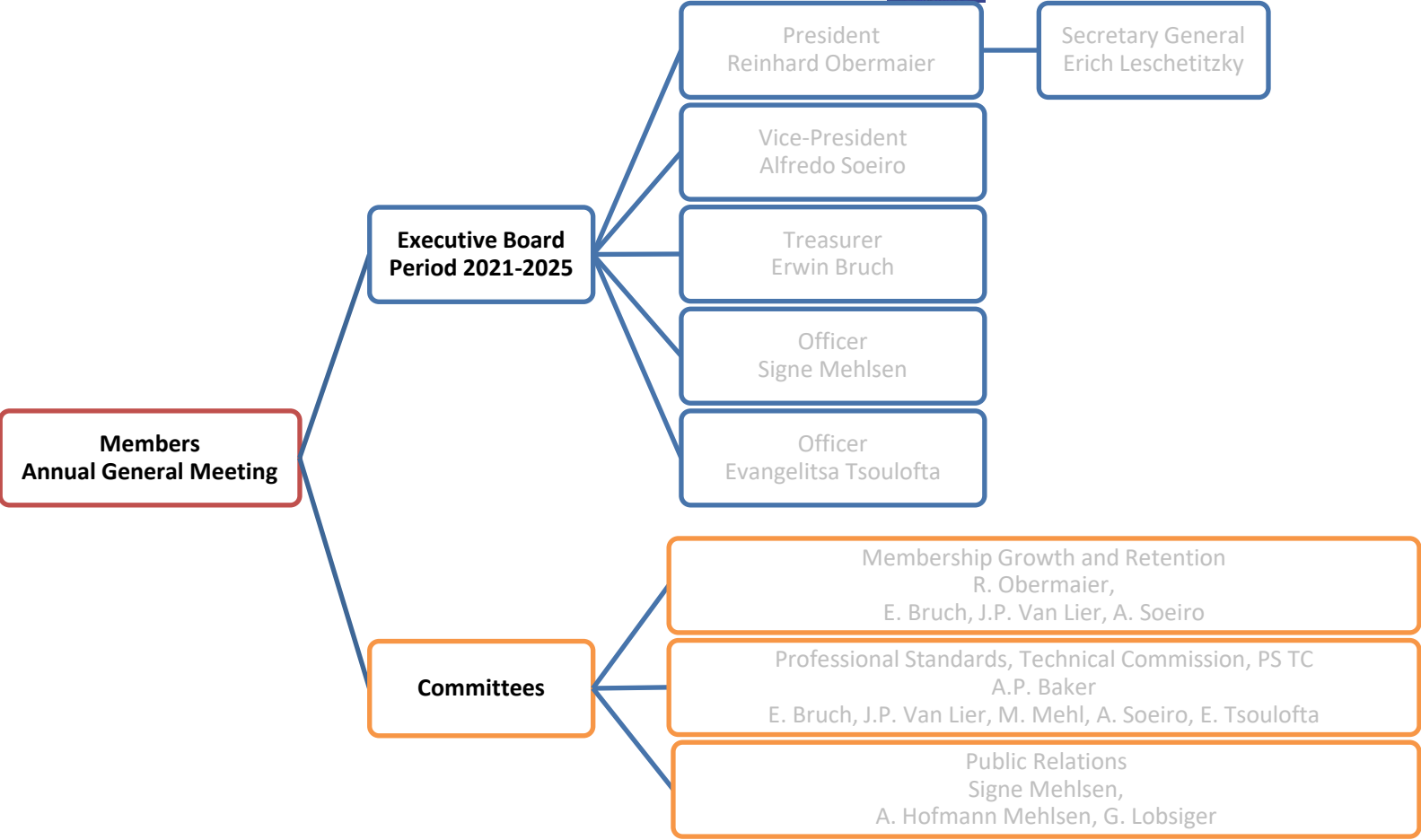


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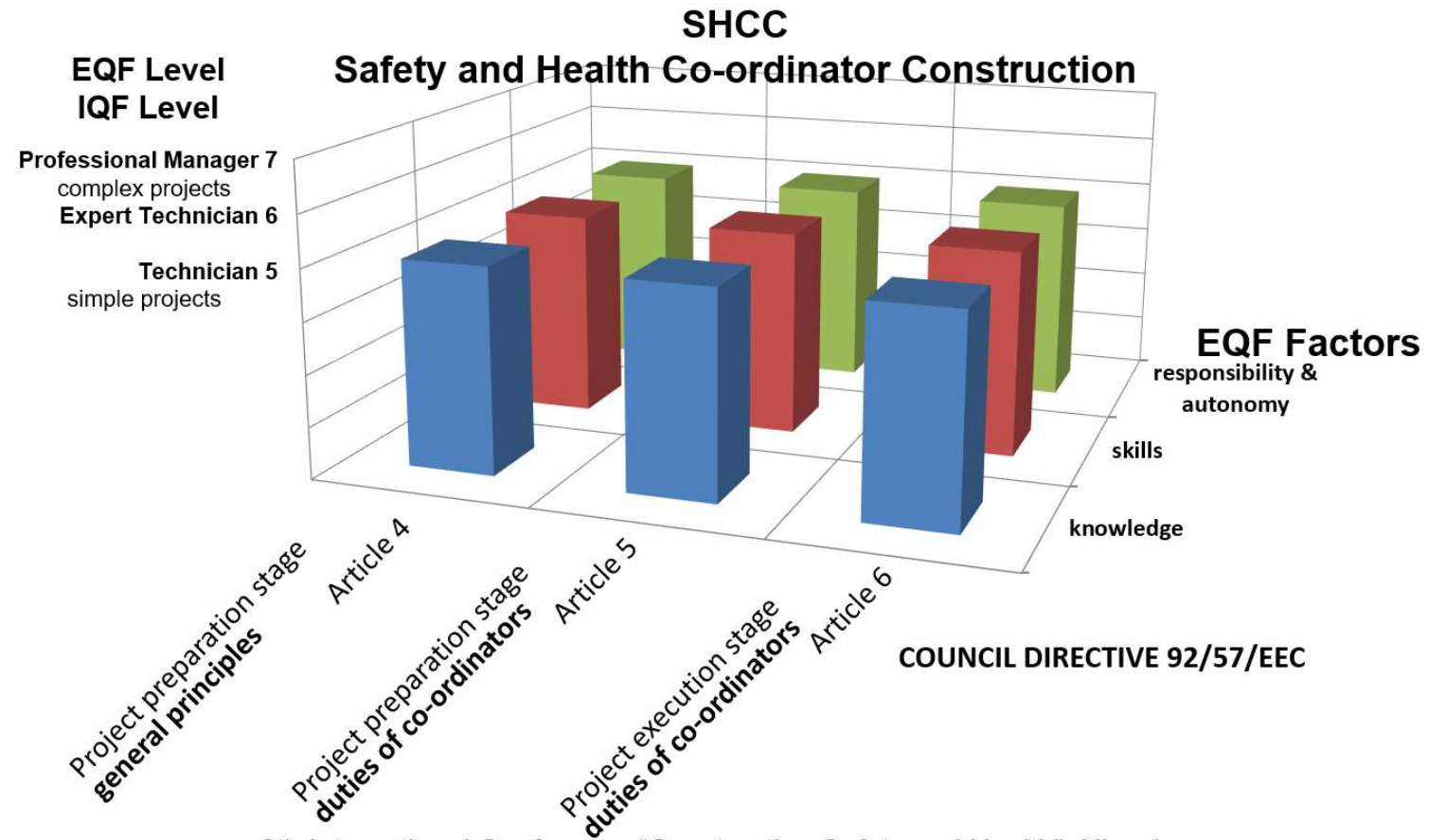
ISHCCO Mission



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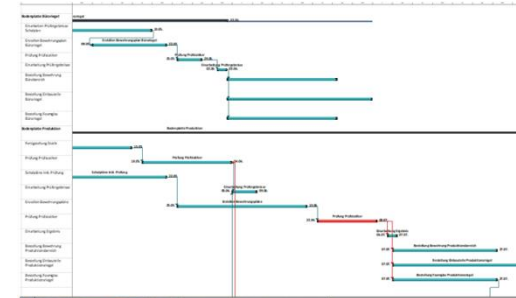
Publications of ISHCCO

- Recurrent reports on the implementation of GL 92/57 in Europe
- ISHCCO Qualification Framework (IQF)
- low dust works (mapping of good practise)



Construction Site an extraordinary workplace

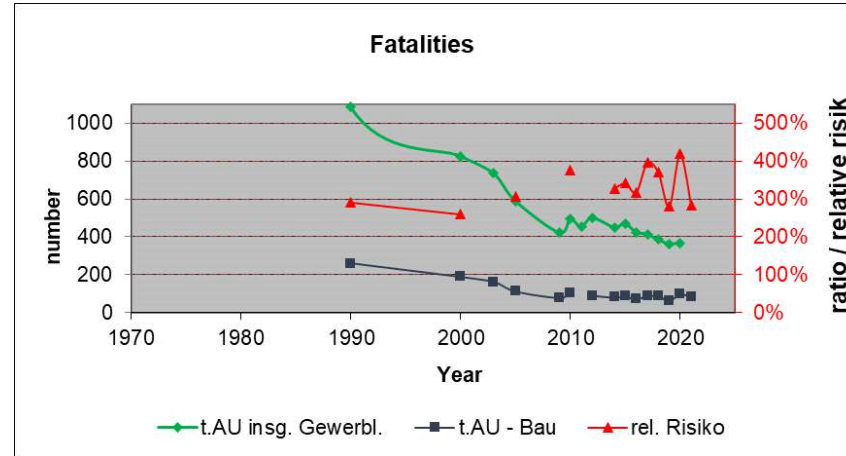
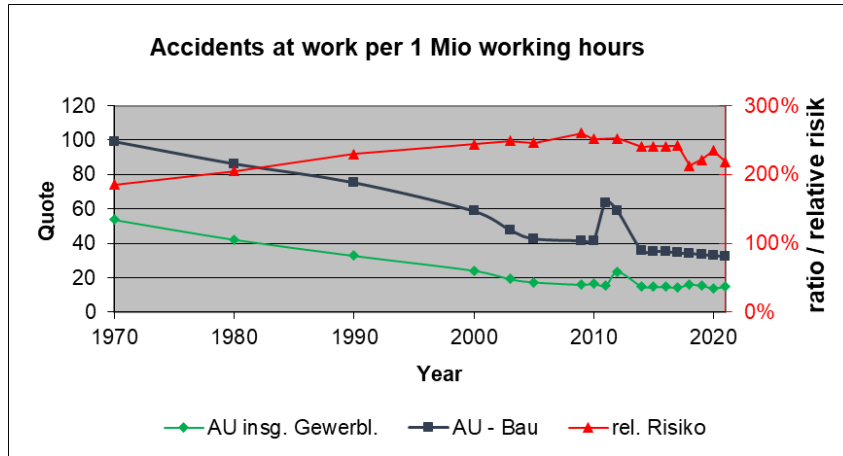
- Temporary working place
- Workplaces with changing conditions
 - Progress of the construction project
 - Building, traffic routes, infrastructure facilities, plant complexes
 - New construction, renovation, deconstruction
 - Weather
 - Unstable safety environment
 - Protective measures must be actively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



technical standards: home country v. country of the site

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

Construction Sites



Risks

Accident:
More than
twice

Fatal:
3-times

Fatal Rout Causes



Situation 2012 *
35,1 % of the of the avoidable fatal accidents originate
from causes in the planning phase

Confirms the assessment in 1992

*) PhD Thesis (2009-2013)
Bianca Vasconcelos, Universidade Pernambuco, Brasil
Prof. Alfredo Soeiro Universidade Porto, Portugal



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 so that
 - Information on structure and design for safe working
 - general principles of prevention and safety
 - Setup of the safety and health plan
 - Prior notice

- Coordination in execution (construction phase)
 - Safety and health plan
 - Publication / Distribution
 - Implementation
 - Update
 - Establishment of a health and safety regimes 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).



SHCC – The Mandate

Safety and Health Construction Coordination (SHCC)

- The task is: to
 - To apply OSH regulations
 - To introduce good and approved praxis
 - To adapt the OSH measures to 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 safe & healthy works at the construction project**

Task of Safety and Health Construction Co-Ordination (SHCC)

- Prevention of occupational accidents
- Health protection

Target and mandate of the SHCC

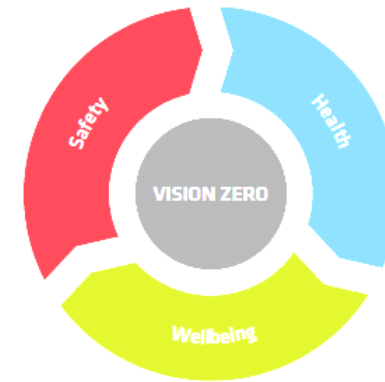
Vision Zero = avoiding accidents

7 Golden Rules

- Tool for companies

Vision Zero Plan

- Useful Rules for SHCC



7 Golden Rules for Vision Zero

1. Take leadership – demonstrate commitment
2. Identify hazards – control risks
3. Define targets – develop programmes
4. Ensure a safe and healthy system – be well-organized
5. Ensure safety and health in machines, equipment and workplaces
6. Improve qualifications – develop competence
7. Invest in people – motivate by participation

Sustainability 17 goals of the United Nations



Relevant for occupational safety and health protection on construction sites:

11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action

Digitalisation

- GPS Control
- Scheduling
- Document Management
- Prefabrication CAD-CAM

- Architecture CAD
- Planning
- Visualisation
- Reality Capture
- BIM
- Simulation
- Machine Control
- Printing (3D)

- Risk Management



Quelle: ME Image, AdobeStock



Digitalisation

Robotics

- Reduction of physical strain
- Residual work not suitable for machines
- Risks from machine handling
- Machinery faults
- Interaction faults
- Substitution of workers

Artificial intelligence

- Overall planning
- Complex production
- Complex visualisation
- Criteria of evaluation?
- Basis of decision-making?
- Responsibility?
- Substitution of technical intelligence

OSH and SHCC

Assessment – Safety & Health Plan – Safety File – Site Management

- Coordination of risk assessments (from individual companies)
- Document management / Databases
- Visualisation
 - Risk analysis and assessment
 - Reviewing of methods and substituting
 - Trainings / digital trainings
- Follow-up of deviations

AI = autonomous safety / autonomous coordination?



Summary SHCC

- ISHCCO European Umbrella Association for Safety and Health Coordination
 - European Voice of the SHCC,
 - Collects technical and professional information on SHCC
- Construction sites provide: high potential hazards due to complex conditions and relations due to many companies and nationalities
- Coordination of occupational Safety and Health
 - Implementation of the principles of prevention – safety and health matters
At planning, execution and to subsequent works
 - Vision Zero rules support SHCC
 - Sustainability correlates to health matters at SHCC
 - Digitalisation will change the environment of SHCC and needs attendance and awareness
- SHCC can be addressed as the designers of the inherent safe & healthy works at the construction project



ISHCCO

Thank you for your attention.

Do you have questions?

I am looking forward to your suggestions.

Dr. R. Obermaier, President
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Thank you!

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