# Prevention through Design (PtD) in the Construction Industry

## Literature Sources (2019)

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Original PtD Manuscripts and Documents about the PtD concept


Legislation for PtD


Standards and Regulations


About the PtD Concept


Behm, M. "Design for construction safety: an introduction, implementation techniques, and research summary." Proc., ASSE Professional Conference, ASSE.


Mann, A. "Construction safety: An agenda for the profession." Institution of Structural Engineers, 28-34.


**Accident causation and PtD**

of Construction Engineering and Management, 126(1), 52-60.


PtD and Sustainability


PtD and the Business Case

Quantifying PtD Impact / Effectiveness
International Health and Safety Conference, Costs and Benefits related to Quality and Safety and Health in Construction, Barcelona, Spain.


PtD and Industry Participants


PtD and Owners


PtD and Designers


Construction Engineering and Management, 118(4), 677-684.


PtD and Contractors (Field personnel)


**Implementing PtD in Design**

**Design and Construction Integration for Safety**


PtD and Contracts


BIM – Virtual Reality


Golabchi, A., Han, S., and AbouRizk, S. (2018). "A simulation and visualization-based framework of labor efficiency and safety analysis for prevention through design and planning." Automation in Construction,


Jin, Z., Gambatese, J., Liu, D., and Dharmapalan, (2019) V. "Using 4D BIM to assess construction risks during the design phase." Engineering, Construction and Architectural Management, 0(0), null. (PREPRINT)


A. Gibb, eds., Melbourne, Australia.


**PtD Examples/Solutions/Case Studies**


Sierra Vista, AZ.


NISD, and SEAA (2001). Detailing guide for the enhancement of erection safety, National Institute of Steel Detailing ; Steel Erectors Association of America, Oakland, CA and Greensboro, NC.


W99" Jian zhu an quan yu jian kang de quan qiu he zuo" guo ji hui yi lun wen ji, 137.


Design for Safety and Maintenance / Life Cycle – Maintenance Safety


PtD Experiences from Other Industries


PtD Training and Instructional Material - Education


Care, L., Jary, D., and Parnell, D. R. (2012). "Healthy design, creative safety: Approaches to health and safety teaching and learning in undergraduate schools of architecture - reseach report RR 925." Health
and Safety Executive, London, UK.


PtD and Research


PtD and Innovation


Communication, Collaboration, and PtD

PtD Issues & Concerns
PtD Constraints/Viability


Cultural/Ethical Issues


Insurance Issues


Legal Issues


**Regulatory/Policy Issues**


Experience from Countries


Principles." Cooperative Research Center for Construction Innovation, Brisbane, Australia.


Moving PtD Forward / The future of PtD


and Environmental Protection, 80(3), 115-125.


Dissertations/Theses


Bolte, D. (2019). "Fall hazard prevention system in an early design stage with BIM." MS, Eindhoven
University of Technology, Eindhoven, Netherlands.


