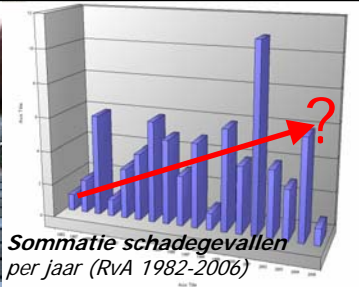


Safety through Responsibility

How to assure structural reliability of (complex) buildings in a changing building industry?

Subject: Optimal allocation of responsibilities to assure structural reliability of buildings.



Expected Results:



1. Development of structural safety last 15 years

2. Influencing variables

3. Allocation of responsibilities

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Safety through responsibility **How to assure structural reliability of (complex) buildings in a changing building industry?**

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Goals

Guarantee structural reliability of (complex) buildings in a changing building industry.

Research Question

Which allocation of responsibilities leads to surety of structural reliability of complex buildings in a changing building industry, regarding the independent variables?

Strategy

From the main research question 3 subquestions are derived:

1. Has the level of structural safety in The Netherlands over the past 15 years been improved or not? Are there any threats for the future?
2. Which independent variables are influencing structural reliability?
3. Which allocation of responsibilities leads to surety of structural reliability of complex buildings?

The level of structural safety in The Netherlands will be studied by checking the number of structural failures in Cobouw and in jurisprudence of the Raad van Arbitrage and Kivi/Niria.

Determining of the independent variables will be done by literature study on structural failures in the past and reliability in other industries, by interviews and brainstorming.

The allocation of responsibilities will be described by studying which party is best suited to take responsibility of the necessary tasks. The independent variables will play a roll in different tasks.

If during phase 2 it becomes clear the study will be too broad, the third question will be restricted to engineering offices.

Expected Results

An indication of the development of structural safety in the Netherlands over the past 15 years and a clear insight in the influencing variables on structural safety.

Preferred Partners Applications

-TNO Bouw (level of structural safety, independent variables)

-Platform Constructieve Veiligheid (case studies on causes, independent variables)

Research Period

1 July 2008 – 31 December 2012