

# Minisymposium System Engineering in de Infra en Bouw

ZINVOL OF ONZIN

Stadsontwikkeling Rotterdam

J.G. de Gijt namens R.R. Zandbergen

19 januari 2012



Gemeentewerken  
Gemeente Rotterdam

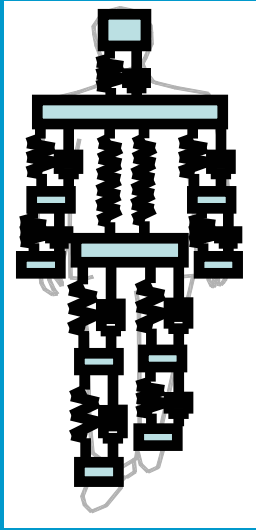


Delft University of Technology

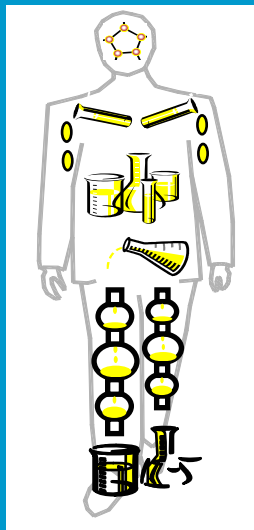
# Welkom bij Gemeentewerken /Stadsontwikkeling

- Rotterdam druk bezig met BIM en SE
- Wordt nu regelmatig toegepast
- Integraal ontwerpen
- Risico analyse

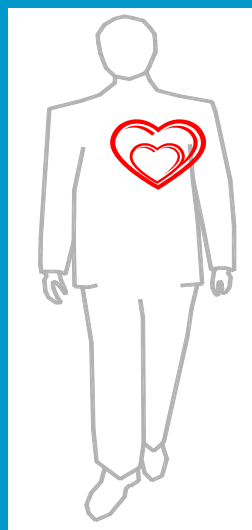
# Mensenwerk



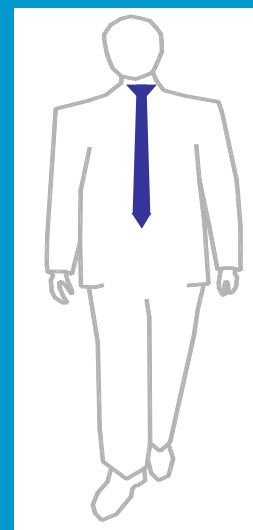
**Mechanical  
man**



**Chemical  
man**



**Emotional  
man**



**The lawyer**

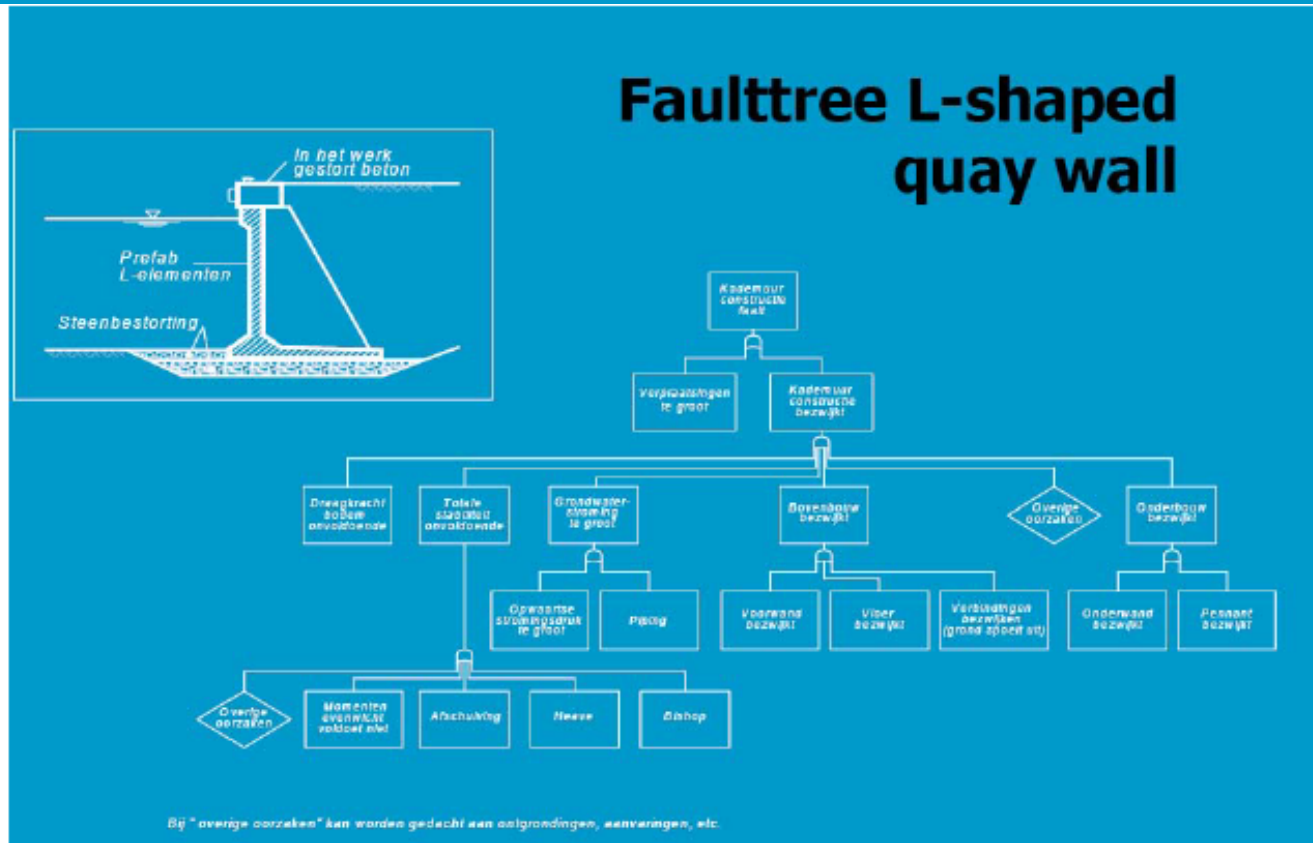
- structural engineer
- designer
- specialist
- project engineer
- lawyer
- financial engineer

In the past one person had all the expertise. Presently for every discipline a specialist will be employed.

Threads: Lack of overview / Increased insecurity  
/Lack of communication.

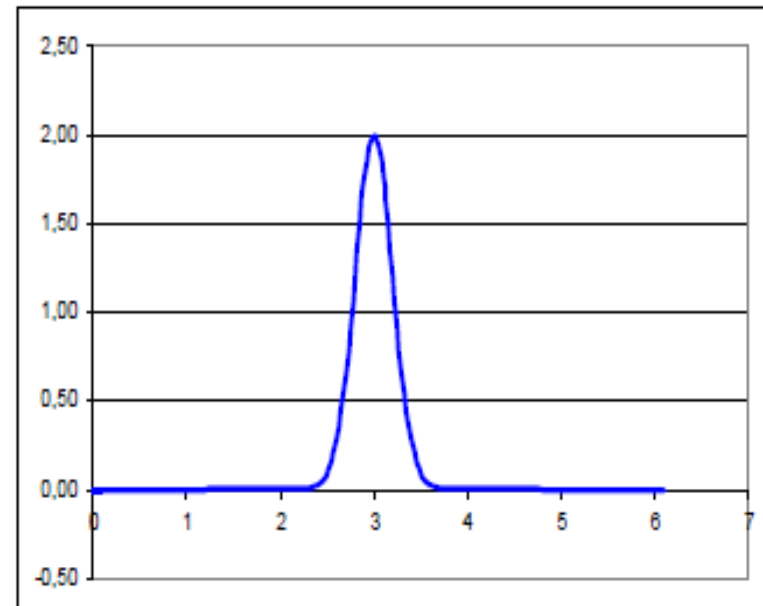
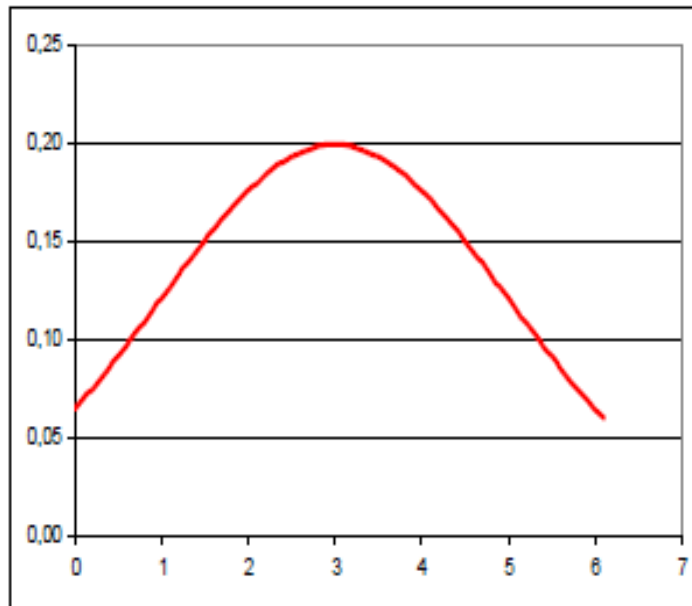
Team work required & A means of communication

# FOUTENBOOM



Figuur 2: Foutenboom L-vormige kademuur

# Maak je druk om de goede zaken!!



Figuur3:Gauss kromme menselijk gedrag      Figuur 4:Gauss kromme materiaal gedrag