

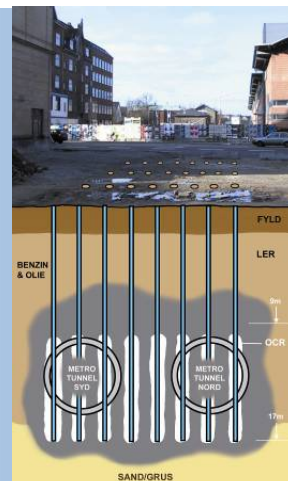
*Green Remediation, 09.-10. november 2009*  
**Gaps in legislation, examples from DK and NL**

- Senior consultant Arthur de Groof  
([arthur.degroof@grontmij.nl](mailto:arthur.degroof@grontmij.nl)) +31 30 634 4615
- Chiefconsultant Kristian Kirkebjerg  
([KKi@gmcb.dk](mailto:KKi@gmcb.dk)) +45 4348 6663



## Presentation

- Holistic approach
- Approval procedures in DK and NL
- Proposals to stimulate Green Remediation



## Holistic approach for remediation

- EU soil remediation market €2,000mn annually
- Dig-and-dump still dominates
- Soil is easy but very heavy to transport  
→ good potential for CO<sub>2</sub> reductions



## Approval in Denmark

- Risk and financial optimization
- Sustainability is voluntary
- Planning procedures not subject to obligatory sustainability evaluation
- Many good intentions, but no obligations



## Approval in The Netherlands

- mix of risk based and financial considerations
- no formal obligation for sustainability
- visible, but informal support for sustainable solutions
- soil seen as integrated in spatial development

→ *IF there will be legislation to stimulate sustainability, it will be aimed at a broader spectrum than just soil*



## Legislation aims and means

Based on risk assessment

**Risk:**

- Implemented
- Easy to see
- Civil servants know
- Often for short term

And not aimed at sustainability

**Sustainability:**

- New
- Hard to translate
- Civil servants do not need to know
- Mostly for long term

→ *Sustainability needs rules and tools*

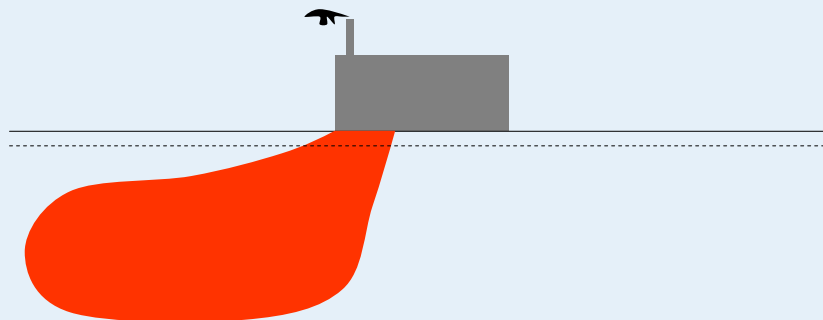


## Readily available tools from SURF

- from SURF-UK: wider perspective in the project design before deciding on remediation strategy
- from SURF-US: procedure assessing sustainability of proposed remediation activities

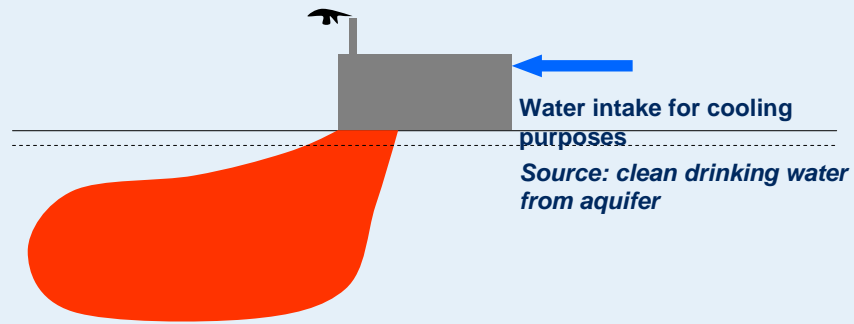
## Sustainable remediation

Example: remediation approach for chlorinated solvents.  
Truck factory



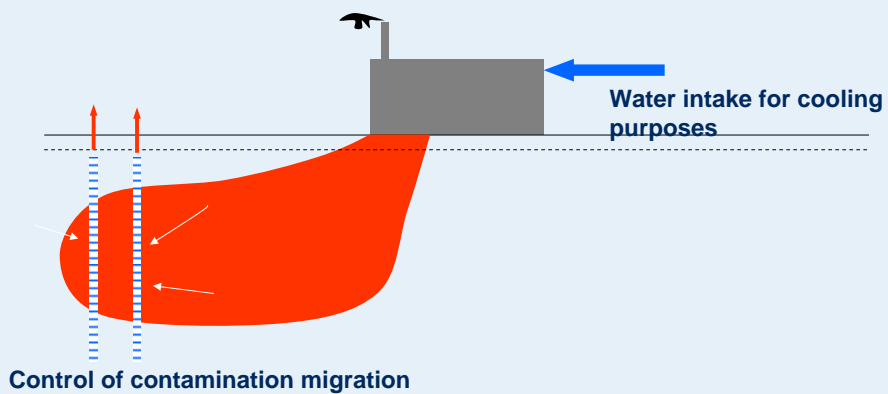
## Sustainable remediation

### Truck factory requirements



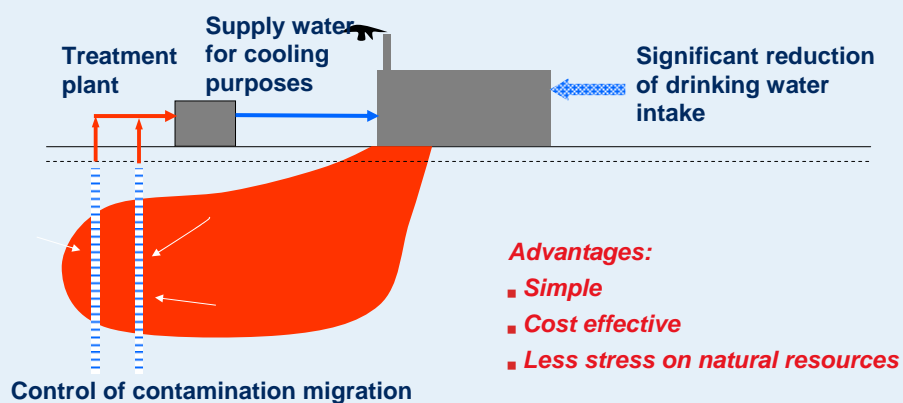
## Sustainable remediation

### Remediation requirements



## Sustainable remediation

Combination of requirements



## Stimulating sustainable remediation – National and regional

1. Introduce procedure for sustainability assessment
2. Discuss need of regulatory measures that lead to compulsory action
7. e.g.: consider mandatory use of guidance or procedure



## Stimulating sustainable remediation – Financial measures

### 3. sponsor extra cost for sustainable remediation



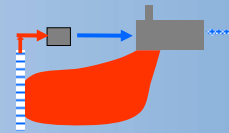
## Stimulating sustainable remediation – Local level

### 6. Enable local authorities to grant dispensation from meeting the numeric remediation targets



## Do not wait to get going

- plenty of opportunity for quick wins
- while developing overall strategies



## We welcome ...

- Questions and Discussion

