



Work and results at a glance



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Project Manager
16th of May 2013

Tackling urban soil and groundwater contamination caused by chlorinated solvents

CityChlor has 9 partners



STUTTGART





INTERREG IVB North West Europe (NWE)



The aim of this financial instrument of the European Union's Cohesion Policy is to

- stimulate transnational cooperation
- find innovative ways and tackle shared problems in the NWE region.
- touch the lives of citizens and thus contribute to a more cohesive EU society

The total research budget of CityChlor is 5.2 M. euro of which 50% is financed by Interreg IVB

www.nweurope.eu

Investing in Opportunities



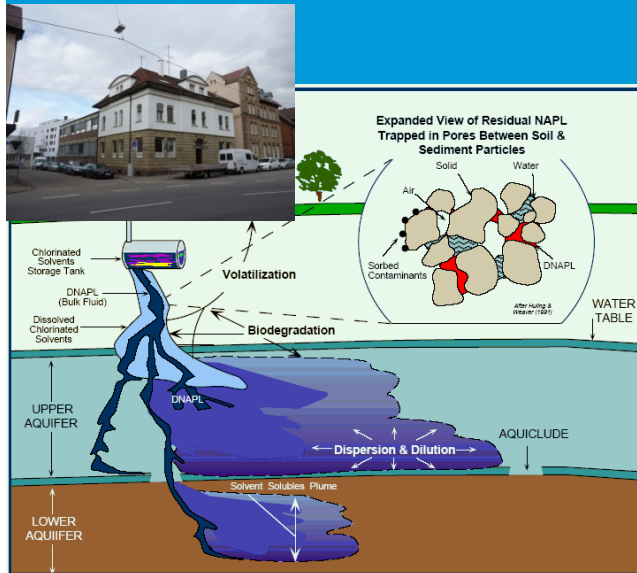
This project has received
European Regional
Development Funding
through INTERREG IV B.



INTERREG IVB



Project's objectives: improve the quality and minimize the pollution of soil and groundwater



Problem?

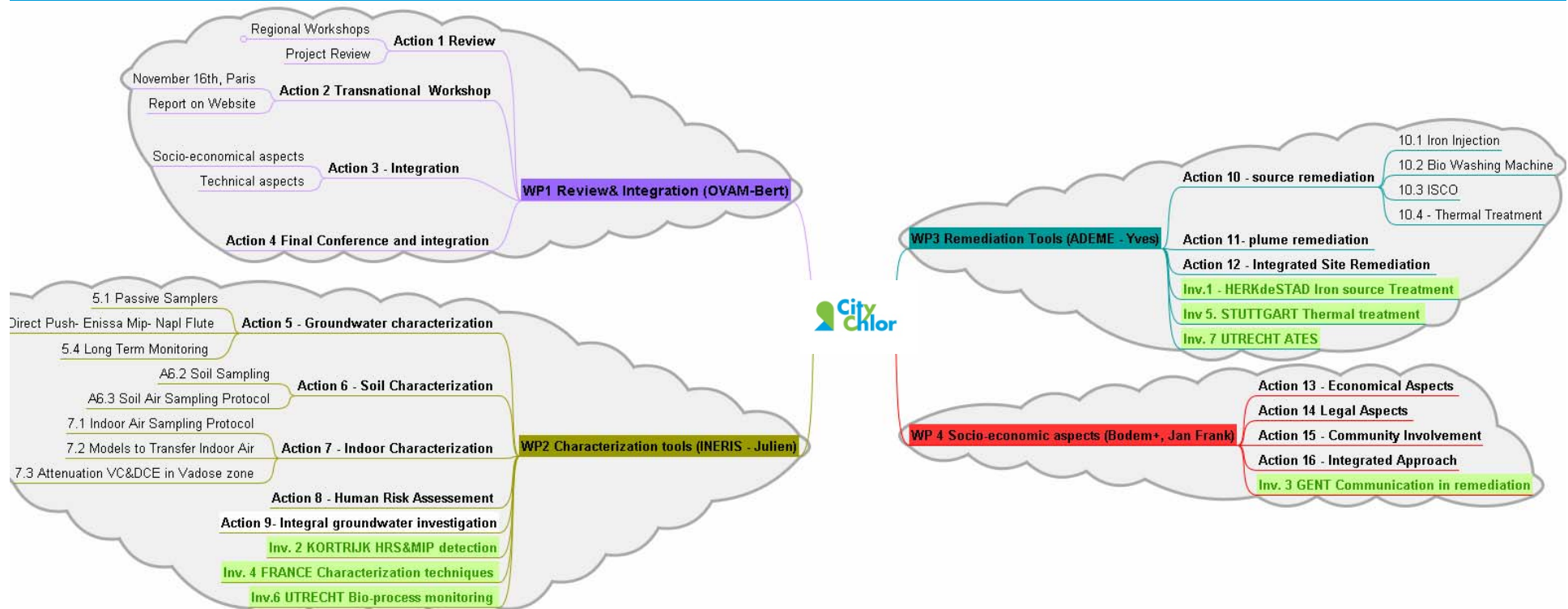
- chlorinated solvents in soil and groundwater: hard to remediate and risk for health and environment
- often caused by companies with little capital
- urban environment poses additional limiting conditions for research and remediation
- common problem in all European cities

How?

Develop an **integrated approach** for remediation of chlorinated solvent pollution in urban areas, encompassing not only **technical** aspects but also aspects of **communication, socio-economic and organizational** aspects



Project steps to an Integrated Approach





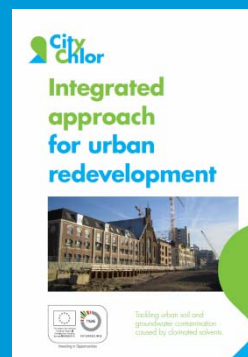
Review and integration

Workshops and demonstrations



>450 LinkedIn members

> 3000 experts on CityChlor workshops



Characterization Techniques



**Pilot test
Kortrijk:**

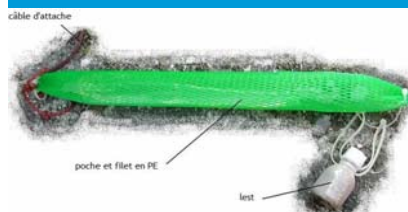


Enissa Mip +
FLUTe

**Pilot test
France:**



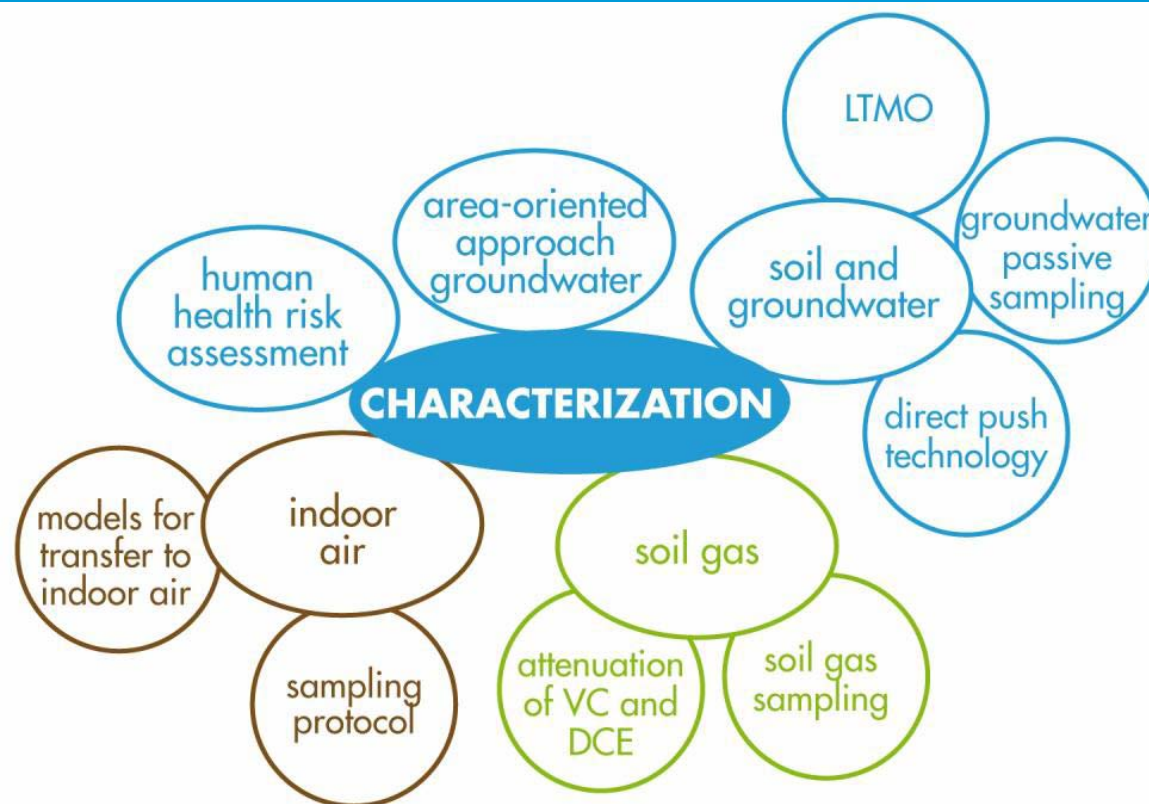
*DPT, Passive
samplers,
groundwater
sampling, soil air
and indoor air
sampling*



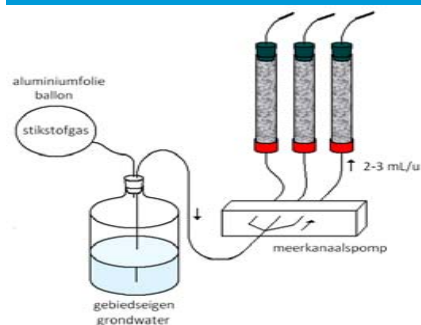
**Pilot test
Utrecht:**



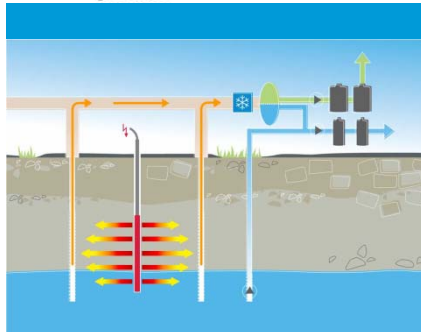
Bio Process
Monitoring



Remediation Techniques



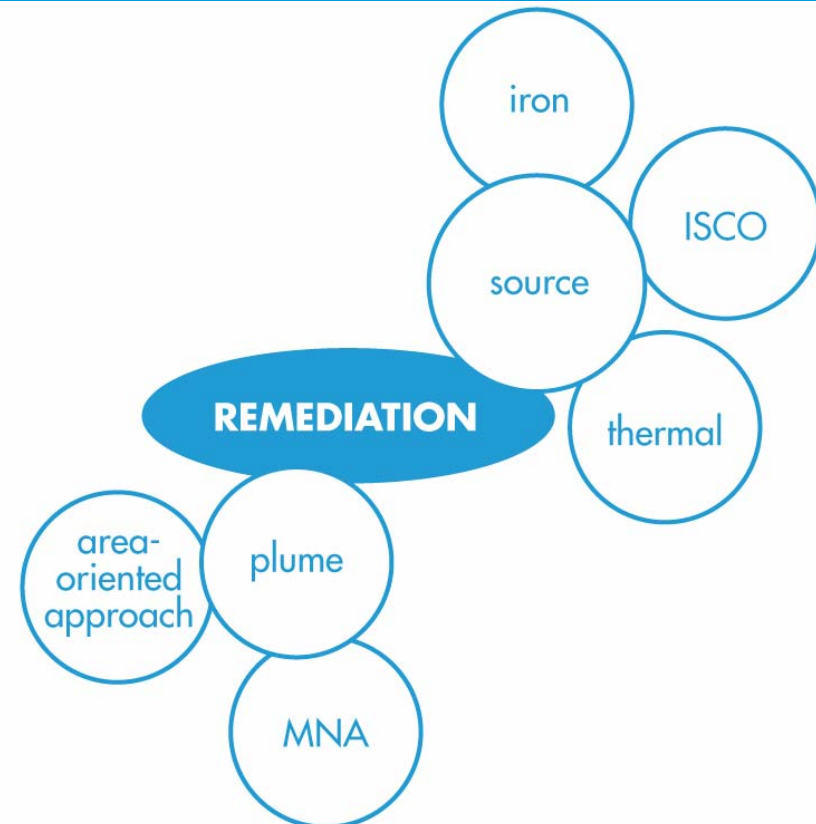
**Pilot test
HerkdeStad:**
Nano & micro
Iron injection



**Pilot test
Stuttgart:**
In situ thermal
remediation



**Pilot test
Utrecht:**
ATES





Socio-Economic Aspects

Workshop Urban Planners



Pilot test Ghent: Risk Perception



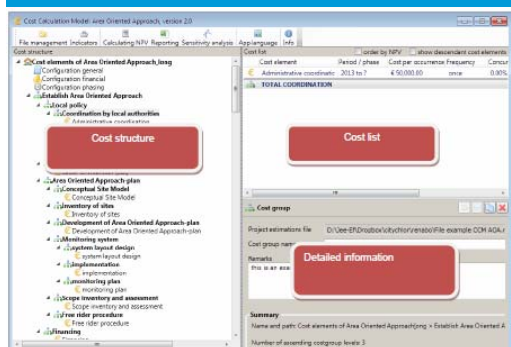
Communication Checklist

Rely on partners
If convinced your partner is the right one and you can rely on him, make a list of all the possible target group. Use your knowledge (chapter 5.1) to draw up an easy inventory of the practical details that might lead to a workable collaboration.

Example:
Target group: neighbourhood residents
Partner: communication officer (of the municipality)

| Communication product | Date of publication/evaluation (relevant to your message) | Frequency | Deadline for input | Specifications of your contribution | Contact details of publisher |
|--|---|-----------|--------------------|--|------------------------------|
| Document meeting | 27 March | 1 | 23 March | 10 minutes experience '100% in de buurt' (chapter 5.1) | |
| Official city magazine | 19 March | 1 month | 23 February | 10 minutes experience '100% in de buurt' (chapter 5.1) | |
| Local media: further assessment of the local government's interest | 19 March | | 12 March | 10 minutes experience '100% in de buurt' (chapter 5.1) | |
| Communication: Press management (interviews, conferences) | | | | 10 minutes experience '100% in de buurt' (chapter 5.1) | |
| Communication: Consult of residents letters | | | | 10 minutes experience '100% in de buurt' (chapter 5.1) | |
| Public hearing: coordinated meeting of urban planner | 19 March | 1 | 5 March | 10 minutes experience '100% in de buurt' (chapter 5.1) | |

Costs Model



Integrated approach

Economic aspects

► Risk perception
& management

**Integration of remediation
and urban redevelopment**

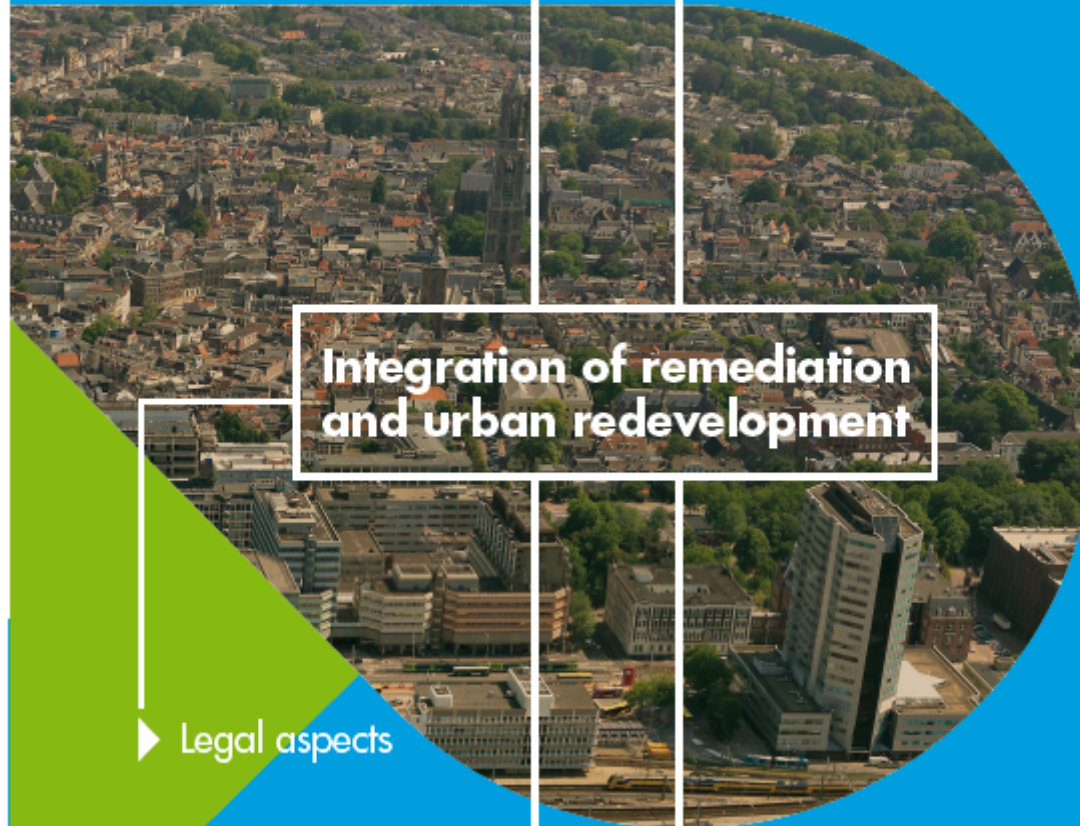
► Legal aspects

Innovative

Characterization techniques

► Innovative

Remediation techniques







Programme – afternoon

13:30-16:30 **Technical sessions** (break 14:45-15:15)

Session A – blue (3rd floor)

Techniques for characterization

Session B – green (ground floor)

Techniques for remediation

Session C – yellow (2nd floor)

Communication, legal and economical aspects

16:30-17:30 Drink