



# timbre

Tailored Improvement of  
Brownfield Regeneration  
in Europe

## Third report on TIMBRE event organisation

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27/01/2013	Version 1	S. Bartke C. Brückmann	UFZ	Work package 7 leaders	First draft for input of work packages and review of coordination
28/02/2013	Version 2	S. Bartke	UFZ	Coordination team.	

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## Report on TIMBRE event organisation

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## 1. Introduction

The TIMBRE project shall overcome existing barriers to brownfield regeneration by developing and providing customised problem- and target-oriented packages of approaches, technologies and tools. As a unique asset, these packages shall deliberately include the cultural and administrative characteristics and their regionally distinctive features. By providing a customisable toolbox specifically addressing the diverse processes that have to be dealt with during the course of a regeneration project, end-users shall be enabled to find best practice based solutions. Improvement of existing means to support brownfield regeneration shall be further accomplished by filling methodological core topics such as intelligent remediation in terms of technological advancements with regard to phytoremediation and partial source removal technologies. The project shall deliver a tailored training and dissemination programme as part of an information centre that will transfer existing and emerging knowledge to the scientific community and end-users. The project started on 1<sup>st</sup> January 2011.

In order to achieve a widespread acceptance and utilization of the results (products) that TIMBRE has been emerged, a series of tailored supporting measures for specific end-users was to be developed in work package seven (WP7) of the project. For each result adequate packages have to be designed according to the requirements of different target groups. Furthermore appropriate approaches are needed that increase the visibility of TIMBRE products throughout Europe and beyond underpinning the leading position of European actors in the area of sustainable brownfield regeneration technology.

The development of formats for tailored supporting measures and the organisation and realisation of supporting measures are a key task of WP7. In the duration of the TIMBRE project, activities for potential end-users have been planned to include them actively into the development and final design of the TIMBRE outcomes. Therefore, a number of end-user specific events will be and have been organised that support the accelerated implementation of products on the markets.

The purpose of this third dissemination report is to take stock on the status with regard to events organised by TIMBRE in project months 27-38 (i.e. between March 2013 and February 2014). This report is following-up on the first report as of project month 14 (i.e. February 2012) and the second report as of project month 26 (i.e. February 2013) – both are available on the TIMBRE website at <http://www.timbre-project.eu/outcomes.html>. According to the DoW, it was scheduled that at least three events are performed annually beginning in the second year of the project. Whereas the first events aimed at being a series of application workshops for end-users, the workshops were used for training and education purposes in order to facilitate and accelerate the implementation process of the TIMBRE tools to be developed. Events in this second term continued on this objective and even more so did events in the last reporting period. For the second term events did put in focus the approaches, methods, and technologies developed in TIMBRE for end-users. The events addressed their practicability and windows of application for real cases. Events in the third period highlighted two objectives again: They were both supporting stakeholders as training and education events, and also focused on the distribution and dissemination of results. In parallel, the developed tools were revisited to be user-friendly and, therefore in particular, stakeholder workshops were organised to gain the feedback of the respective actors.

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## 2. Overview of events

Tables 1 and 2 below provide an overview of events after March 2013 (earlier events had been reported in the first and second TIMBRE deliverable reports on events D7.1 and D7.3 – available on the project website) that have been or are currently (co-)organised and used for particular dissemination objectives of the project. Details can be found on the TIMBRE website: [www.timbre-project.eu](http://www.timbre-project.eu) and on the websites indicated below.

Table 1: Overview on TIMBRE events after March 2013 as of 27<sup>th</sup> February 2014:

Event	Date	Location/ Date	Target Group(s)	Event Type	Content	Responsible Partner
Evaluation and training workshop	05/03/'13	Zielona Góra Poland	Regulators, authorities, researchers, politicians, planners, regional stakeholders	Workshop, seminar, training	Integrated planning and assessment of land re-use – in particular of Szprotawa site in Poland	TUB, UFZ, IETU
Website: <a href="http://www.timbre-project.eu/en/zielona-gora-2013.html">http://www.timbre-project.eu/en/zielona-gora-2013.html</a>						
Environmentální aspekty regenerace brownfields	07-08/03/'13	Ostrava, Czech Republic	young academics and university students	Dissemination & WP3 testing workshop	Představení nástroje vytvořeného v rámci projektu Timbre na podporu prioritizace brownfields	IOG with UNIVE
Website: <a href="http://www.timbre-project.eu/en/ostrava-i-2013.html">http://www.timbre-project.eu/en/ostrava-i-2013.html</a>						
Workshop with stakeholders on brownfield priority-sation methodology	26/03/'13	Ústí nad Labem, Czech Republic	local city and regional administration, local people, urban planners, researchers & students from Univ. of Ústí,	Dissemination & WP3 application and testing workshop	Prioritisation of brownfield sites located in Ústí nad Labem. Presentation & discussion on methodology and first results	IOG
Website: <a href="http://www.timbre-project.eu/en/ostrava-i-2013.html">http://www.timbre-project.eu/en/ostrava-i-2013.html</a>						
AquaCon-Soil2013 Special Session	17/04/'13	Barcelona Spain	Regulators, authorities, researchers, politicians industry	Special session as part of congress (and presentations as part of conference)	HOMBRE and TIMBRE Special session “Sustainable Brownfield Regeneration – synergies with the land cycle”	UFZ and FP 7 project HOMBRE, with TUB, UNIVE, DTU, FC, UFC
Website: <a href="http://www.timbre-project.eu/en/aquaconsoil-2013.html">http://www.timbre-project.eu/en/aquaconsoil-2013.html</a>						

Table 1: Overview on TIMBRE events as of 27<sup>th</sup> February 2014 - continued:

Event	Date	Location/ Date	Target Group(s)	Event Type	Content	Responsible Partner
Seminar & stakeholder workshop management of brownfield regeneration	06-07/06/'13	Solec Kujawski, Poland	Regional and municipal administration, NGOs and local institutions, researchers	Stakeholder Workshop	Discussion of possible policy options and technical solutions for brownfield regeneration	FP 7 project HOMBRE with UFZ, IETU and UFC
Website: <a href="http://www.timbre-project.eu/en/solec-kujawski-2013.html">http://www.timbre-project.eu/en/solec-kujawski-2013.html</a>						
PhD-course and summer school at Technical University of Denmark	17-21/06/'13	Lyngby, Denmark	PhD students and also professionals	PhD-course and summer school	Theoretical and practical introduction to uptake of chemicals in plants and its relevance for science and engineering	DTU with UFZ
Website: <a href="http://www.timbre-project.eu/en/lyngby-summer-school-2013.html">http://www.timbre-project.eu/en/lyngby-summer-school-2013.html</a>						
Workshop ECOSID – Contamination level, socio-economic framework, remediation pilot tests	16-17/09/'13	Hunedoara, Romania	Experts and representatives of institutions & companies interested in the redevelopment of brownfields and Hunedoara site	General dissemination & technology (in particular soil washing) demonstration workshop	Presentation and discussion of Hunedoara site investigation, remediation and re-use planning and demonstration of soil washing	UTCB with UFZ, NEPA, UFC
Website: <a href="http://www.timbre-project.eu/en/hunedoara-2013.html">http://www.timbre-project.eu/en/hunedoara-2013.html</a>						
High resolution characterization of contaminated sites	17-18/09/'13	Szprotawa, Poland	Investigation & remediation consultants, service providers, public authorities, academia	Dissemination & WP4 training & demonstration workshop	Participants in the event had the opportunity to directly assess different innovative investigation techniques in terms of their capabilities and cost efficiency	FC with IETU, DTU, SG, GE, UFZ
Website: <a href="http://www.timbre-project.eu/en/szprotawa-2013.html">http://www.timbre-project.eu/en/szprotawa-2013.html</a>						

Table 1: Overview on TIMBRE events as of 27<sup>th</sup> February 2014 - continued:

Event	Date	Location/ Date	Target Group(s)	Event Type	Content	Responsible Partner
Workshop "Auf die richtigen Brachen setzen"	27/11/2013	Berlin, Germany	Brownfield portfolio owners, surveyors, consultants, service pro- viders, public authorities, academia	Dissemination, WP1 & WP3 testing workshop	Presentation and testing of the two tools: the "Information system" and "Prioritization Tool"	UFZ with GESA, IOG, UNIVE, JG
Website: <a href="http://www.timbre-project.eu/Berlin2013.html">http://www.timbre-project.eu/Berlin2013.html</a>						
Information Network on innovative and widely applicable strategies, technologies & solutions	29/11/2013	Brno, Czech Republic	investigation & remediation consultants; public authorities; academia	Dissemination & WP1 testing workshop	Presentation and testing of the "Information system"	IOG with UNIVE, UFZ
Website: <a href="http://www.timbre-project.eu/Brno-WS.html">http://www.timbre-project.eu/Brno-WS.html</a>						

Table 2: Overview on TIMBRE events currently organised as of 27<sup>th</sup> February 2014:

Event	Date	Location/ Date	Target Group(s)	Event Type	Content	Responsible Partner
Research for sustain- able urban futures – enhancing transatlantic transfer of knowledge	06-08/03/'14	Leipzig, Germany	Regulators, authorities, researchers, politicians planners, industry, consultants	Workshop	Framing new opportunities for strategic long-term, transfers of tools & urban sustainability policies	UFZ with UBA, US- EPA, TUB, JG
Website: <a href="http://www.timbre-project.eu/en/Leipzig.html">http://www.timbre-project.eu/en/Leipzig.html</a>						
Current challenges in conta- minated site manage- ment	11-12/03/'14	Bucha- rest, Romania	representatives from academia, the public authorities, consultants and companies supervising regeneration activities	Workshops/ trainings and scientific conference	Hands-on tools, scientific insights and lessons learned final conference of the FP7 project TIMBRE	UFZ, UTCB with all partners and collaborating projects HOMBRE, UPSOIL
Website: <a href="http://www.timbre-project.eu/en/Bucharest.html">http://www.timbre-project.eu/en/Bucharest.html</a>						

Table 2: Overview on TIMBRE events currently organised as of 27<sup>th</sup> February 2014 - continued:

Event	Date	Location/ Date	Target Group(s)	Event Type	Content	Responsible Partner
WS Brownfield remediation and revitalization TIMBRE results in practice	planned 04/'14	Bagicz/ Ko- łobrzeg, Poland	Remediation companies, site owners, investors, regional and local authorities, NGO, students	Stakeholder workshop & conference	Sharing information about TIMBRE results and stimulating their application in practice	IETU with FC, DTU, GE
Website: <a href="http://www.timbre-project.eu/">http://www.timbre-project.eu/</a>						
Timbre conference/ workshop in Szprotawa	planned 05/'14	Szprotawa, Poland	Regional and local authorities, research consultants, NGOs	Stakeholder workshop & closing of the project at test site	Practical aspects of megasite revitalisation with special focus on local case study	IETU with FC, DTU, GE
Website: <a href="http://www.timbre-project.eu/">http://www.timbre-project.eu/</a>						
Building interdisciplinary tools for long- term contaminated site management	16-20/06/'14	Leipzig, Germany	PhD students, experienced researchers/ practitioners looking to expand their repertoire	Summer school	Innovative answers to complex issue of brownfield management using quantitative, cross-disciplinary tools and analysis	Marie Curie Network ADVOCATE with FP7 project LIAISE, UFZ
Website: <a href="http://www.theadvocateproject.eu/files/ADVOCATE_UFZ_2014_Summer_School.pdf">http://www.theadvocateproject.eu/files/ADVOCATE_UFZ_2014_Summer_School.pdf</a>						
Tailored & sustainable redevelopment towards Zero Brownfields	14-16/10/'14	Frankfurt am Main, Germany	Scientists, engineers, environment agencies, national and local authorities), spatial planners, site owners, consultants	4 <sup>th</sup> International Conference on Managing Urban Land	Integrated urban land management and policies, instruments, Innovative technologies, Best practice	FP7 project HOMBRE with FP7 projects GLOCOM, Greenland, and TIMBRE partners*
Website: <a href="http://www.timbre-project.eu/en/cabernet2014.html">http://www.timbre-project.eu/en/cabernet2014.html</a>						
* As the conference is after expected end of TIMBRE project duration, no financial commitment from TIMBRE budgets is to be made. Partners of the TIMBRE consortium will present TIMBRE results next to own relevant approaches based on own funding.						



### 3. Specific events

#### 3.1 Stakeholder workshop: Integrated Planning and Assessment of Land Re-Use in Zielona Góra

General Data Date Country Place Organising (+involved) organisation Responsible Person Type of event (conference, workshop) Website of event (if any)	5 <sup>th</sup> March 2013 Poland Zielona Góra UFZ with TUB, IETU Stephan Bartke Stakeholder Workshop <a href="http://www.timbre-project.eu/en/zielona-gora-2013.html">http://www.timbre-project.eu/en/zielona-gora-2013.html</a>
Participants Number of participants Description of attendees	approx. 40 Regulators, authorities, researchers, politicians planners, regional stakeholders, consultants
Content of the event Goals of the event  Event hosted in the program of a larger event? Event joined with any other event? Event received any sponsorship? If yes indication of what by whom. Translation service provided?	Introduction to integrated planning and assessment of land re-use options – in particular of Szprotawa site in Poland  No.  No. Yes, the Marshal Office of the Lubuskie Region allowed using the venue. Yes Polish ← → English
Communication and Proceedings Kind of promotion organised in order to inform the target audience Announcement on the project website Documentation of the event	Website, Email, telephone inquiries  Yes (in English and Polish) On TIMBRE website <a href="http://www.timbre-project.eu">www.timbre-project.eu</a> in “Get Involved > Trainings / Events” area.

#### Background information

Major areas previously used for mining, military or industrial purposes are frequently beset by high levels of contamination. Regarded as being problematic, many have become brownfields, impeding the development of surrounding communities. As in renowned cases in Poland, across Europe there are over 20,000 large and complex contaminated sites.

This event aimed at introducing and discussing methods for the integrated planning and assessment of re-use options – using the example case study model site Szprotawa JAR – in order to tailor also the TIMBRE Site Assessment Tool. Actors involved in the redevelopment of Szprotawa JAR as well as other experts and interested persons from regional or national institutions were invited to get to know the available methods and tools and to discuss potential re-use options for the site.

## Impressions



<p><b>Registration</b></p> <p><input type="checkbox"/> I would like to participate in the Evaluation and Training event on March 5<sup>th</sup> 2013</p> <p><input type="checkbox"/> I cannot attend the event, but please inform me about future timbre events.</p> <p>Organizers do not cover the cost of travel and accommodation.</p> <p>Please send your registration sheet by e-mail: <a href="mailto:timbreinfo@tuf.eu">timbreinfo@tuf.eu</a></p> <p>Name _____      Institution _____      Surname _____</p> <p><b>timbre</b></p>	<p><b>Invitation</b></p> <p>Timbre invites all persons and institutions interested in the re-development of brownfields and former industrial sites to this event to share with us your knowledge, experiences and needs.</p> <p>Especially, we invite representatives from the public authorities, consultants and companies in charge of supervising or conducting regeneration activities, i.e. planners, site developers, private consultants, specific authorities.</p> <p>Project managers, municipalities, site developers, investors, insurers, agencies in the broader region of Lubuskie Voivodeship interested in assessing the economic and environmental effectiveness and sustainability of a megasite regeneration in as much as further interested stakeholders, such as NGOs and interested non-experts are cordially invited to join in this event to exchange knowledge.</p> <p><b>Venue</b></p> <p>The Marshal Office of the Lubuskie Region      ul. Podgorna 7      65-001 Zielona Góra      Poland</p> <p><b>Contact</b></p> <p>Dr Janusz Krupańek – national coordinator      Instytut Ekologii Terenów Uprzemysłowych- IETU      ul. Koszutha 6, 40-244 Katowice, Poland      Tel.: +48 22 256 59 31 ext. 294      fax: +48 22 254 17 17      Mobile: 667 362 441      e-mail: <a href="mailto:krupa@ietu.katowice.pl">krupa@ietu.katowice.pl</a></p> <p><b>timbre</b></p> <p><a href="http://www.timbre-project.eu">www.timbre-project.eu</a></p>	 <p><b>timbre</b></p> <p>Tailored Improvement of Brownfield Regeneration in Europe</p> <p><b>First Announcement</b></p> <p><b>"Integrated Planning and Assessment of Land Re-Use"</b></p> <p><b>Evaluation and Training</b></p> <p><b>March 05<sup>th</sup> 2013</b></p> <p><b>Zielona Góra, Poland</b></p> 	<p><b>Background Information</b></p> <p>Major areas previously used for mining, military or industrial purposes are frequently beset by high levels of contamination. Regarded as being problematic, many have become brownfields, impeding the development of surrounding communities.</p> <p>As in renovation cases in Poland, across Europe there are over 20,000 large and complex contaminated sites. These so-called megasites threaten scarce soil and water resources and cause environmental and health risks as well as economic and social costs. Their effective and sustainable regeneration requires innovative investigation and remediation technologies and integrated evaluation approaches.</p> <p>The <b>timbre – Tailored Improvement of Brownfield Regeneration in Europe</b> – project aims to support stakeholders and key-actors in overcoming existing barriers by developing and providing customer problem- and target-oriented packages of technologies, approaches and management tools for brownfields re-use planning and remediation.</p> <p>This event aims at introducing and discussing methods and tools offered by timbre for the integrated planning and assessment of re-use options – using the example case study model site Szprotawa JAR – former airbase. Actors involved in the redevelopment of Szprotawa JAR as well as other experts and interested persons from regional or national institutions are invited to get to know the available methods and tools and to evaluate their appropriateness from their individual perspective.</p> <p><b>timbre</b></p>	<p><b>Draft Programme for 5<sup>th</sup> March 2013</b></p> <p>08:30 Registration</p> <p>08:45 Introduction</p> <ul style="list-style-type: none"> <li>Welcome words</li> <li>The model site Szprotawa JAR – former airbase – History and Status quo</li> <li>Tool-Assisted Integrated Planning and Assessment of Land Re-Use Options</li> </ul> <p>09:45 Coffee Break</p> <p>10:15 Transdisciplinary Planning Groups</p> <p>Participants will concertedly work in groups on land re-use visions for the model site.</p> <p>Different types of actors, local and regional stakeholders and people with different professional background will discuss proposed visions and may create their Own.</p> <p>The work will be directly assisted using the Megasite Management Toolset (MINT), a software for integrated planning and assessment of brownfield re-use options.</p> <p>11:45 Lunch Break</p> <p>12:45 Outcomes of Group Work &amp; Feedback</p> <p>Planning groups will present their results, i.e. the reuse plans and major assessment results.</p> <p>Audience will discuss the feasibility of re-use options.</p> <p>13:45 Speed-Dating with Assessment Methods &amp; Criteria</p> <p>Participants will get the chance to learn more about the background and details of the individual assessment methods and criteria.</p> <p>At separate stations presentations will be given on three topics: (i) market value incl. renewable resources, (ii) risk assessment, remediation requirements and costs, and (iii) sustainability issues.</p> <p>Presentations will include live demonstration of software tools.</p> <p>14:00 Coffee Break</p> <p>15:00 Focus Groups</p> <p>Participants meet in actor-specific focus groups to discuss from their specific perspective the responsibility of the planning and assessment tools offered by Timbre and the responsibility of results.</p> <p>Groups will prepare a feedback statement giving suggestions for further tool development and application.</p> <p>15:45 Feedback &amp; Completion</p> <ul style="list-style-type: none"> <li>Presentation and discussion of focus groups' feedback statements</li> <li>Conclusions, Outlook</li> <li>Closing Words</li> </ul> <p>16:15 End of Event</p> <p><b>Integrated Planning and Assessment of Land Re-Use</b></p> <p>For further information on timbre objectives and partners visit: <a href="http://www.timbre-project.eu">www.timbre-project.eu</a></p> <p><small>timbre acknowledges the co-funding from the European Community's Seventh Framework Programme under grant agreement no 265364 (2011-2014).</small></p> 
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Figure 1: Event Flyer, announcement and invitation to Zielona Góra, Poland (© timbre project).

## The Event

Following up on the successful 2012 expert workshop on “Brownfield remediation in Poland – state of the art” with nearly 70 participants, the project TIMBRE was glad to invite again to Zielona Góra, Poland, to an evaluation and training event entitled "Integrated Planning and Assessment of Land Re-Use".

The event took place on 5<sup>th</sup> March 2013 at the Marshal office of the Lubuskie region in Zielona Góra.

This event aimed at introducing and discussing methods and tools offered by TIMBRE for the integrated planning and assessment of re-use options – using the example case study model site Szprotawa JAR – a former Soviet airbase. TIMBRE invited representatives from the public authorities, consultants and companies in charge of supervising or conducting regeneration activities, i.e. planners, site developers, private consultants, specific authorities to get to know the available methods and tools and to evaluate their appropriateness from their individual perspective. Overall, about 40 persons participated in the event, including the mayor and deputy mayor of the City of Szprotawa.

Participation in the evaluation and training event was – as for all other TIMBRE events – free of charge. The event was in Polish with translation into English, supported by a professional interpreter.

Stakeholders' feed-back on the event: Sociologists from WP2 participated in the TIMBRE Evaluation and Training event in Zielona Góra in order to support the understanding of stakeholder needs through means of observations and collection of feed-back responses that were carried out there.

Based on 12 completed feed-back responses offered by participants in the end of this event, the team highlighted the following key positive insights offered by the stakeholders:

- The application of the WP6 basis Megasite Management Tool – MMT to a concrete case of brownfield regeneration, that is the planning of reuse options for the Szprotawa former airbase, was welcomed in different ways by almost all participants.
- The involvement of stakeholders from different institutions for the planning of reuse visions was also considered an asset by some participants. One of them appreciated the fact that “the simulation of the land use [was done] by people from different institutions who often represent different points of view”.
- Participants also valued the fact that the visions of transformation of the model land were “consistent with the plans and expectations of the community”.

At the same time, this stakeholder workshop also offered the opportunity for the TIMBRE partners to improve their approach in future events. Lessons learned include:

- Offer more time and opportunities to stakeholders to become familiar with the MMT or web-based tool, before carrying out the actual land planning simulations.
- Offer non-local stakeholder a better grasp of the location conditions of the sites to be analysed using the MMT tool, prior to the workshop (e.g. by means of a “brownfield site fact sheet”).
- Maintain a high level of communication with stakeholders even between the TIMBRE workshops.

The materials of the event can be downloaded from the TIMBRE website. The event received a considerable reporting in Polish media as is also documented on the website.

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### 3.2 AquaConSoil 2013 Special Session “Sustainable brownfield regeneration – Synergies with the land cycle”

General Data Date Country Place Organising (+involved) organisation Responsible Person Type of event (conference, workshop) Website of event (if any)	17 <sup>th</sup> April 2013 Spain Barcelona UFZ and FP 7 project HOMBRE, with TUB, UNIVE, DTU, FC, UFC, IETU Maaïke Blauw (HOMBRE) and Stephan Bartke (UFZ) Scientific conference special session <a href="http://www.aquaconsoil.org/AquaConSoil2013/Start.html">http://www.aquaconsoil.org/AquaConSoil2013/Start.html</a> and <a href="http://www.timbre-project.eu/en/aquaconsoil-2013.html">http://www.timbre-project.eu/en/aquaconsoil-2013.html</a>
Participants Number of participants Description of attendees	approx. 40 international participants
Content of the event Goals of the event Event hosted in the program of a larger event? Event joined with any other event? Event received any sponsorship? If yes indication of what by whom. Translation service provided?	Scientific oriented presentation of the TIMBRE project within expert exchange Yes – as Special Session S13.5 within the AquaConSoil Barcelona 2013 - 12 <sup>th</sup> International UFZ-Deltares Conference on Groundwater-Soil-Systems and Water Resource Management hold in Barcelona, Spain, 16 <sup>th</sup> - 19 <sup>th</sup> April 2013 No. No. No. (Conference language is English)
Communication and Proceedings Kind of promotion organised in order to inform the target audience Announcement on the project website Documentation of the event	Website, twitter, inquiries for key participants Yes. PowerPoint & Poster presentations and pictures have been made available on TIMBRE website <a href="http://www.timbre-project.eu">www.timbre-project.eu</a> in “Get Involved > Trainings / Events” area. Publication in conference proceedings.

#### Background information

Several TIMBRE partners contributed to the AquaConSoil 2013 conference, which took place in Barcelona, Spain. The event welcomed more than 700 international participants. Next to participating in the conference exhibition, TIMBRE partners presented research results and their stakeholder involvement in several sessions:

- The FP7 projects HOMBRE and TIMBRE organised a Special Session entitled: Sustainable Brownfield Regeneration – Synergies with the land cycle.

- TIMBRE partners contributed in several Thematic Sessions to the AquaConSoil event. Amongst others the following contributions were made:
  - Krupanek, J.; Kalisz, M.; Michaliszyn, B.; Gorgoń, J.; Stalder, M.; Martac, E.; Rein, A.; Finkel, M. & S. Schaedler (2013): Tailored And Integrated Approach To Management Of Degraded Megasites – Former Military Air Base Example, AquaConSoil 2013 Proceedings, 16-19 April 2013, Barcelona (Spain).
  - Martac, E.; Rein, A.; Algreen, M.; Trapp, S.; Stalder, M.; Krupanek, J. & M. Kalisz (2013): Iterative Site Model Improvement based on Adaptive Integrated Characterisation Strategies and Technologies as Prerequisite for a Successful Design of Site Remediation and Redevelopment. Poster at AquaConSoil 2013, 16-19 April 2013, Barcelona (Spain).
  - Morio, M.; Schädler, S. & M. Finkel: Applying stakeholder-based spatially explicit multi-criteria optimization for creation of sustainable and cost-beneficial brownfield re-use visions (Oral presentation)
  - Rizzo, E.; Pizzol L., Giubilato E., Critto A., Marcomini A. (2013): Timbre Expert System for choosing sustainable solutions of risk based approaches and technologies for brownfield rehabilitation. AquaConSoil 2013 Proceedings, 16-19 April 2013, Barcelona (Spain).
  - Schädler, S.; Finkel, F. & M. Morio: Decision support for the integrated planning and assessment of sustainable brownfields redevelopment alternatives (Poster)

## Impressions



Figure 2: Impressions for the AquaConSoil Conference in Barcelona (© timbre project).

## The event

Today, most perceive brownfields as a legacy. Each brownfield has, however, its own potential for delivering useful combinations of services (synergies) and hence new opportunities. The Special Session entitled “Sustainable brownfield regeneration – Synergies with the land cycle” started with a short introduction presentation on the concept of circular land management and the positions of the projects HOMBRE & TIMBRE related to this concept, presented by the HOMBRE and TIMBRE coordinators Hans van Duijne (deltares) and Stephan Bartke (UFZ). Both emphasized that different European initiatives have the ambition to facilitate efficient and sustainable use of the brownfield resource to contribute to a paradigm shift to ‘Zero Brownfields’ where brownfields become areas of opportunity that deliver services for society, instead of derelict areas that are considered useless.

In this session, a dialogue was held about the demands of stakeholders and regulators, and the planning instruments and decision support tools needed to realise sustainable brownfield regeneration.

A discussion on “Policy needs” and “Local stakeholder needs” to implement new ways for brownfield regeneration support by new technologies/tools was initiated by statements of the Secretary of the Common Forum, Dominique Darmendrail, focussing on the policy framework and by Filip Alexandrescu (UFZ) from TIMBRE's working package two on local stakeholder arenas identified in the TIMBRE research. The presentations and discussion with the audience highlighted that the strong involvement in a wide range of directives (at least 15 relevant) has to be considered and that actors have to comply with multi-level regulation (EU-national-regional). Needs of stakeholders as well as of regulators have to be seen in an area-specific context.

The key role of tools is decision support – helping the decision makers to feel confident and comfortable. Moreover, it is essential to again and again understand that stakeholders need communication – and they are site specific (what is called a “veto-player” at one site might actually be a main supporter in another local context).

More generally, the discussions did highlight that brownfield sites need an image change within the (land use) cycle stages. It needs to be considered that societal incentives work together with “technology/economy based” incentives. Perspectives for regeneration and revitalisation need to be developed not dependent on the pre use only but in an engaged and harmonized way, e.g. taking-up a cultural heritage. Confidence and recognition is needed for this complex process.

In a second part of the session, the focus shifted to the potential role of Decision Support Systems (DSS). As short overview on state of the art support approaches of integrated assessment, planning, visualisation and communication support tools, Linda Maring introduced the HOMBRE Brownfield Navigator and Michael Finkel (TUB) the TIMBRE Site Assessment Tool.

The following discussion on the characteristics of tools required in brownfield regeneration did show that visualised processing of information is increasingly understood as an important means of enhancing stakeholder communication as well as interdisciplinary exchange between experts.

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The role of tools is to support and is to facilitate communication. They are to reduce the complexity of holistic and integrated discussion making by helping to (I) realise opportunities on brownfields and (II) find new opportunities.

However, the complexity of tools and their target audience remain a challenge and somewhat contradictory demands arise: Tools for multiple recipients or one tool that can address multiple levels of stakeholders? Definitely there is seen a need to allow interaction – in all communication ways. Yet, bringing tools to the stakeholders was understood to be a key challenge.

Notwithstanding, it was pointed out that there is another crucial challenge that is to keep the tools updated (e.g. cost data).

The presentations and summary discussion notes of the Special Session can be downloaded on the TIMBRE website.



**12<sup>th</sup> International UFZ-Deltares Conference on Groundwater-Soil-Systems and Water Resource Management**  
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**WELCOME ADDRESS**  
 As Land and Sustainability Minister of the Generalitat de Catalunya, I am honoured to welcome the AquaConSoil 2013 congress in Barcelona. Barcelona is an important cultural, economic and industrial centre from the Euro-Mediterranean region, which is also characterized by a solid presence of high-level scientific research institutions, and important companies in the various fields related to soil, sediment, groundwater remediation, eco-engineering and waste management. I am confident that the city will be a magnificent scenario for this foremost event.

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- Costs and management
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Figure 3: Flyer; announcement of the conference.

### 3.3 High Resolution Characterization of Contaminated Sites in Szprotawa

General Data Date Country Place Organising (+involved) organisation Responsible Person Type of event (conference, workshop) Website of event (if any)	17 <sup>th</sup> /18 <sup>th</sup> September 2013 Szprotawa Poland FC with UFZ, IETU, DTU, SG, GE Eugeniu Martac (FC) Training and demonstration workshop <a href="http://www.timbre-project.eu/en/szprotawa-2013.html">http://www.timbre-project.eu/en/szprotawa-2013.html</a>
Participants Number of participants Description of attendees	approx. 30 Investigation and remediation engineers and consultants, service providers, public authorities, academia
Content of the event Goals of the event  Event hosted in the program of a larger event? Event joined with any other event? Event received any sponsorship? If yes indication of what by whom. Translation service provided?	Opportunity to directly assess different innovative investigation techniques in terms of their capabilities and cost efficiency  No No No Yes – Polish ← → English
Communication and Proceedings Kind of promotion organised in order to inform the target audience Announcement on the project website Documentation of the event	Website, email and telephone inquiries for key participants Yes (in English and Polish) Presentations, posters and pictures on TIMBRE website <a href="http://www.timbre-project.eu">www.timbre-project.eu</a> in “Get Involved > Trainings / Events” area.

#### Background information

This event in Szprotawa aimed at introducing and demonstrating the state-of-the-art technologies and approaches for high resolution characterization of contaminated sites offered by TIMBRE for the integrated site characterization.

Participants in the event have had the chance of surveying all associated investigation characteristics and building up individual experiences on interpretation and valorisation of information outcomes. There was opportunity to learn in the field about the TIMBRE tailored approach applied to Szprotawa site. Characterisation techniques to be demonstrated include:

- Tree core sampling,
- Membrane Interface Probe (MIP),
- Laser Induced Fluorescence (LIF),
- Hydraulic Profiling Tool (HPT),
- Groundwater sampling.



## Impressions



Figure 4: Impressions from the workshop in Szprotawa 17<sup>th</sup>/18<sup>th</sup> September 2013  
(© timbre project).

## The Event

TIMBRE invited experts and representatives of institutions & companies interested or involved in the re-development of brownfields and former industrial sites to this demonstration and training event. The event was in Polish language with English translation.

Especially, the event addressed investigation and remediation consultants and service providers as well as public authorities or academia in the broader region of Lubuskie Voivodeship, but also all international guests (English translation was provided) interested in assessing the state-of-the-art technologies and approaches for high resolution characterization of contaminated sites.

Participants in the event had the opportunity to directly assess different innovative investigation techniques in terms of their capabilities and cost efficiency and to gather a live experience related to the use of associated data within the complex brownfield regeneration framework.

The event took place on 17<sup>th</sup> and 18<sup>th</sup> of September 2013 in Wiechlice, Szprotawa, Poland – located near the TIMBRE project's case study model site Szprotawa JAR – a former military airbase.

At day 1 Janusz Krupanek (IETU, Poland) started out with a presentation on the TIMBRE project and Mariusz Kalisz (IETU) continued with a presentation of the Szprotawa test site and its history. Mette Algreen Nielsen (DTU, Denmark), Marcel Stalder (SolGeo, Switzerland) and Eugen Martak (Fugro Consult, Germany) followed presenting the state of the art with regard to methods of tree coring, soil air sampling and different soil probe technologies.

After a lunch, the participants changed the venue to the hot spot area of the test site, where all the theoretically introduced technologies were demonstrated and where they were invited try to drill a tree core on their own.

Day 2 started with presentations from Mette, Marcel, Janusz and Eugen on the results obtained by tree coring, soil air, soil and groundwater sampling and the different probe methods. After a short coffee break, Manfred Kühne (GeoExperts, Germany) and Lauge Peter Westergaard (DTU) presented two remediation technologies.

The work shop had about 30 participants and the TIMBRE project partners. Additionally to the presentations and field demonstrations, four posters were shown “Soil and Groundwater Pollution by Kerosens, Szprotawa Airbase, Poland. Site characterization using soil-gas investigations”, “Iterative Site Model Improvement based on Adaptive integrated Characterization Strategies and technologies as pre requisite for a Successful Design of Site remediation and redevelopment“, “Phytoscreening and remediation; Low-cost, simple and green technologies” and “Phytoscreening by tree coring; Used for Chlorinated solvents and heavy metals” and leaflets about the methods were handed out. Also a questionnaire from Filip Alexandrescu (UFZ, Germany) was handed out and collected afterwards to help the project to further tailor the project's outcomes.

### 3.4 TIMBRE Workshops on testing and tailoring WP1 and WP3 tools in Berlin, Germany and Brno, Czech Republic

General Data Dates Country Place Organising (+involved) organisation Responsible Person Type of event (conference, workshop) Website of event (if any)	27 <sup>th</sup> November 2013, Berlin 29 <sup>th</sup> November 2013, Brno Germany, Czech Republic Berlin, Umweltbundesamt, Masarykova Univerzita UFZ with IOG, UNIVE, GESA, TUB, JG Stephan Bartke (UFZ) Stakeholder Workshop <a href="http://www.timbre-project.eu/Berlin2013.html">http://www.timbre-project.eu/Berlin2013.html</a> <a href="http://www.timbre-project.eu/Brno-WS.html">http://www.timbre-project.eu/Brno-WS.html</a>
Participants Number of participants Description of attendees	Approx.. 20 and 25 pers. Experts from practice, site owners, regulation, authorities, researchers
Content of the event Goals of the event Event hosted in the program of a larger event? Event joined with any other event? Event received any sponsorship? If yes indication of what by whom. Translation service provided?	To introduce the TIMBRE prioritization tool and the TIMBRE information system to the target end-users No. The stakeholder workshops in Berlin and Brno were organised back-to-back. The German Umweltbundesamt and the Czech Masarykova Univerzita provided the venues. Yes, by project partners English ↔ German, English ↔ Czech
Communication and Proceedings Kind of promotion organised in order to inform the target audience Announcement on the project website Documentation of the event	Emails, website, twitter, telephone inquiries for key stakeholders Yes (in English and German) Texts, presentations and pictures made available on TIMBRE website <a href="http://www.timbre-project.eu">www.timbre-project.eu</a> in “Get Involved > Trainings / Events” area. Furthermore, an article was published in “altlasten spectrum” 1/2014

#### Background information

TIMBRE organised two workshops back-to-back in November in Berlin, Germany and Brno, the Czech Republic, for the purpose of final testing and tailoring two of its key outcomes, namely the TIMBRE Information System for Brownfield Regeneration and the TIMBRE Prioritization Tool.

The events targeted at national stakeholders in order to disseminate to them the latest TIMBRE results and in particular familiarize them with the TIMBRE web tool to include their feedback in the final elaboration of the outcomes.

### Impressions



Figure 5: Stakeholder workshop; Introduction; at UBA, Berlin (© timbre project).

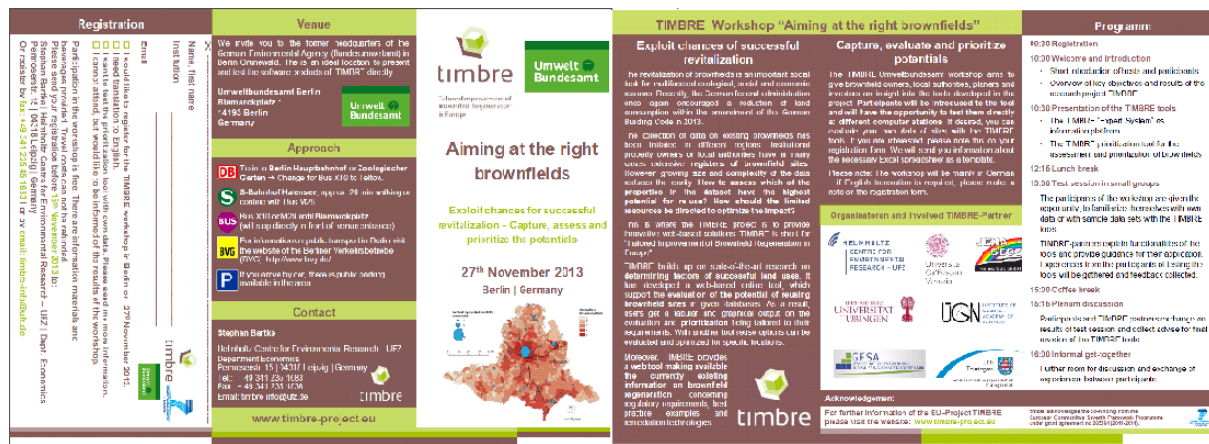


Figure 6: Flyer; announcement and invitation to the stakeholder workshop in Berlin (© timbre project).

### The Events

On 27<sup>th</sup> of November 2013 the project TIMBRE organised a workshop in Berlin in cooperation with the Umweltbundesamt – the German Environmental Protection Agency, which is supporting TIMBRE as member of the project's International Advisory Board. The event took place under the motto: „Focus on the right brownfields – gather, evaluate and prioritise potentials – exhaust chances of success for a revitalisation”. In the twilight of the workshop was put the introduction to and the testing of two new web tools which were developed in the frame of the TIMBRE project.

The developed tools are intended to support the revitalisation of brownfields. For TIMBRE the focus especially lays on brownfields with a military, industrial, mining or commercial former use. Quite often such areas are burdened with complex contamination and thus arrest the development of adjacent municipalities.

In this context on the side of “problem owners”, the collection of data achieves progressed. Institutional site owners and administrative bodies are equipped with detailed land registers in many places in Europe. However, with increasing extent and level of detail the clarity of databases is simultaneously reduced. How can database users figure out which of the stored brownfields have the highest potential for a specific reuse? On which sites are scarce re-



sources to be directed to obtain maximum effects? The TIMBRE tools link to this very issues and demonstrate innovative solution approaches.

The workshop was supposed to offer the opportunity to potential users to test the tools with “own” sites directly at computer stations. Hence, the event particularly addressed interested site owners, municipalities, planners and investors. The group of actual participants included representatives of administration, research, property owners and consultants.

TIMBRE project coordinator Stephan Bartke from Helmholtz Centre for Environmental Research – UFZ, Leipzig, presented the core objectives and so far achieved results of research project TIMBRE at a glance. He referred to reports and interesting results about stakeholders and institutional factors of land recycling as well as innovative investigation and remediation techniques that were developed at various model sites and published on the project website.

Following this, the tools developed in the context of TIMBRE were introduced: A web-based information network tool “Information System” and a prioritisation tool for brownfields. The “Information System” developed under the command of Ca’ Foscari University, Venice, is a custom-tailored information platform and provides information on Europe-wide legislations and other rules, best-practice examples and remediation technologies.

Petr Klusáček from the Institute of Geonics, Brno, and Andreas Bielke from the Corporation for Brownfield Development and Decontamination (GESA), Berlin, introduced the Prioritization Tool which enables the assessment and prioritisation of brownfields.

After a short lunch break, the tools could be tested by the participants at different computer stations. In this context, the functionalities of the tools and application options were explained in detail. At special requests, there was also the possibility to test the prioritisation tool with own data sets or sites. This offer was used by several workshop participants.

Subsequent to the workshop, the impressions and experiences gained through the first application of the tools led on to a fruitful exchange of experiences under the participants and with the TIMBRE partners. In the final round the participants gave their feedback to the presented tools. The prioritisation tool was perceived as a very user-friendly tool due to its compatibility with standard software such as Microsoft-Excel and Google-Maps. The test applications would have given already interesting results. Nevertheless, there was also stated that the tool primarily requires an input with a high amount of data what might present an obstacle at the beginning of implementing the tool in practice – however, the majority of participants agreed that this is a profitable undertaking in case that routines for reading out data from existing databases in the Excel template sheet is once possible.

With regard to the “Informaiton System”, the general idea was welcomed to collect and edit the data clearly structured and to offer it corresponding to user demands. On the one hand, many participants saw the guarantee of high information density and actuality well solved in the presented tool. On the other hand, the participants perceived some potential improvements were still needed to prevent wrong inputs by users. Moreover, the evaluation of research results in the approach of an on-going learning curve was perceived as too time-consuming. There were suggested a possible linking with other databases and the provision of a national user language next to the English default version.

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The key challenge for the TIMBRE project will be to provide a critical mass of information with the launch of the Information System. In this way a new living and accepted platform could be formed that builds on contributions from the expert community.

Altogether the workshop was perceived as interesting platform that enabled the exchange of different methods and expert opinions. The tools and the further results of TIMBRE project are available at the project website [www.timbre-project.de](http://www.timbre-project.de). There are also available the materials – i.e. presentations and manuals of the workshop – as well as other information.

The second event, the Brno workshop, was held on 29<sup>th</sup> November 2013 in the Masarykova University and addressed many categories of stakeholders (e.g., site owners and neighbours, local authorities, consultants, scientific community members such as students and researchers). It was in Czech with English translation for TIMBRE partners. The Brno workshop focused on testing and final-tailoring the Information System tool.

Participants in this event – as in Berlin – had the opportunity to directly access the online tool individually, with their own credentials, and to gather a live experience related to the use of the information stored into the tool.

The main aims of the workshop were to collect feedbacks, suggestions and inputs to improve the Information System tool, to identify different uses of the system according to end users' needs (e.g., identification of the most common “search aims”) and to collect evaluations of the consulted information/documents. At the end of the workshops, two questionnaires have been submitted to participants in order to collect feedbacks on the Information System itself and on the workshop' contents, material, instructors and organisation.

The workshops participants identified some points of improvement related to the Information System and the Prioritization Tool. Taken into consideration the feasibility of the requests, actions have been taken and the web-based tools have been improved accordingly.

With regard to the Information System, one of the main aims of the organised workshops was to identify the most common “search aims” to be included in a list within the tool. A list of search aims, including more than 150 items, has been collected during the two events. Another issue raised during the workshops was about the name of the tool. The initial name of the tool was “Expert System as information platform for innovative and widely applicable strategies, technologies and solutions”, but it has been pointed out that this expression was too vague, not providing specific information about the features of the tool to possible users. In order to overcome this problem, suggestions about possible alternative names have been asked to project partners, stakeholders and also to the TIMBRE International Advisory Board and, after internal discussion, it has been agreed to adopt the expression: “TIMBRE Information System for Brownfield Regeneration”.

Summing up, it can be said that the involvement of the stakeholders has been of crucial importance for a better tailoring of the tools. The workshops' participants provided indeed useful feedbacks for the improvement of some functionalities of the tools. Moreover, their involvement and commitment in evaluating the accessed information allowed increasing the “knowledge base” of the Information System.

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## **Annex: Contributors to the report and Disclaimer**

### **Contributors**

This report is the result of discussions between all partners of the TIMBRE Work Package 7 and the Steering Committee. It was prepared by Corinna Brückmann and Stephan Bartke (UFZ) and has been edited by Stephan Bartke (UFZ).

### **Disclaimer**

This document is aimed at assisting brownfield regeneration stakeholders. It is provided for information purposes only and its contents are not intended to replace consultation of any applicable legal sources or the necessary advice of a legal expert, where appropriate.

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