

REMTECH

Remediation technologies and Requalification Territory Exhibition



IPLA –Global forum Moscow, 7°October 2015

Identity



"It's the most specialized event in Italy dedicated to remediation technologies, territory requalification, costal zone and sea management"





Targets and activities



RemTech (by Ferrara Fiere) refers to: private companies, public administrations, associations, universities, research centers, professionals.

It characterized by: qualified exhibition area, high level technical scientific conferences, training courses, RemTech National and International Training School, Degree and Ph.D. Awards

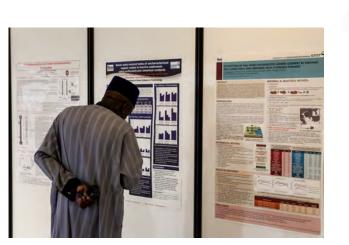
Conference program focuses on: law evolution, characterization, risk analysis, pilot plants, remediation of soil, water, sediments, innovative technologies, remediation sustainability, oil site remediation, landfill, waste, asbestos removal, coastal and sea management, flood prevention and territory maintenance

B2B meeting with potential new export customers at their own stands to present their technology to interested parties.

Countries partecipants











RemTech Organization















EXIBITION ENTERPRISES COMMITTEE

RemTech community



400 Exhibitors

10.000 Visitors

300 Conferences and

Training courses

2.000 Speakers

100 Auspices/partners

100 Foreign Delegates

90 Degree Awards

70 Specialized press

and Web supporters



Remtech main Topics



- Sustainable remediation: pollution prevent, control, Risk assessment, remediation, clean-up targets, reuse of contaminated soils,
- Contaminated Site Management: legal, technical, financial and social issues, site quality management
- Coastal zone and sea management
- Building reuse disposal
- European and national legislations on remediation, flood prevention and management
- Diffuse contamination, sediments, mining
- Public private partnership for site remediation/collaborative clean up and reuse process

Remtech international partner organizations and events





















Remtech enterprises technologies



Processo	Matrice	Modalità di impianto
Soil venting	Suolo	in situ, on site
Air sparging	Acqua	in situ
Soil flushing	Suolo	in situ
Soil washing	Suolo	ex situ
Immobilizzazione/Inertizzazione	Suolo	in situ, ex situ
Estrazione con solvente	Suolo	ex situ
Desorbimento termico	Suolo	in situ, ex situ
Vetrificazione	Suolo	in situ
Ossidazione Chimica	Suolo/Acqua	in situ, ex situ
Dealogenazione	Suolo/Acqua	in situ, ex situ
Elettrocinesi	Suolo	in situ
Termodistruzione	Suolo	ex situ
Estrazione multifase	Acqua	in situ
Adsorbimento passivo su polimero	Suolo	in situ

The offer of RemTech/1



Remediation steps could be generally divided into:

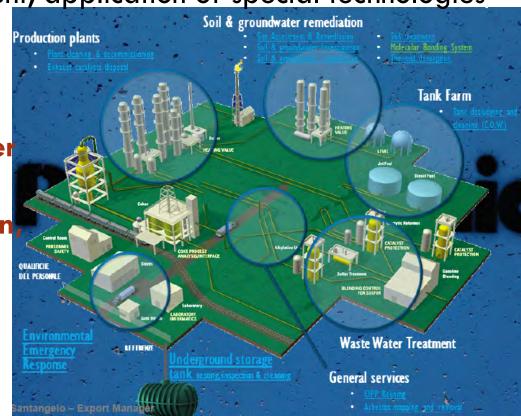
Initial Investigation and Characterization Plan, characterization, analysis,

Risk Analysis, remediation planning, remediation execution,

monitoring plan, waste management, application of special technologies

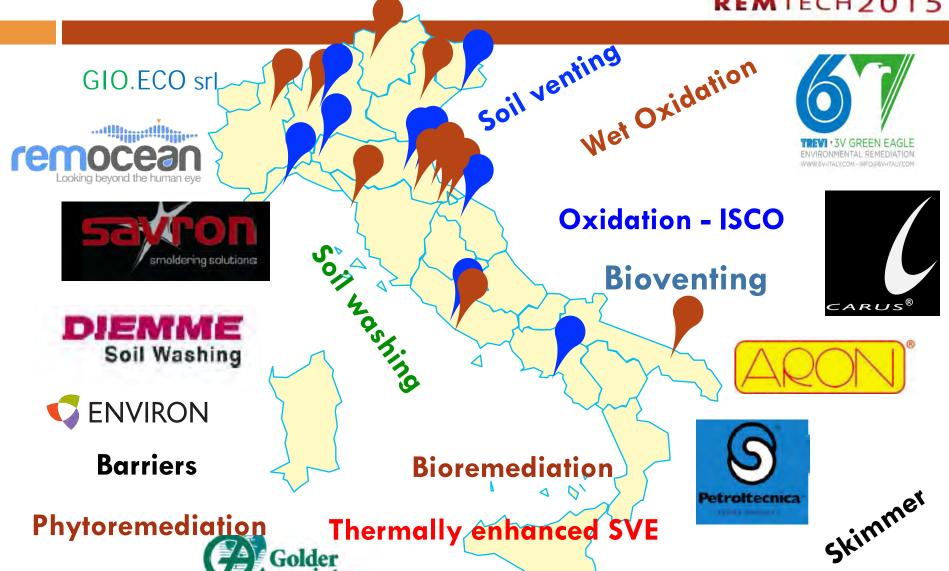
research activities and testing.

Emilia Romagna with RemTech (by Ferrara Fiere) integrated offer could cover all steps, from investigation to remediation with special and innovative technologies



The offer of RemTech/2

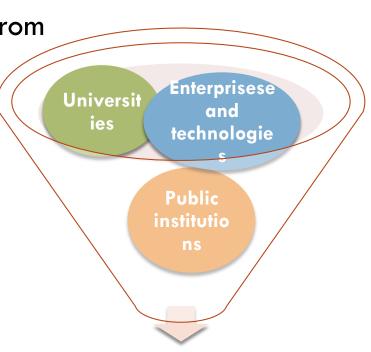






The first important strength point of Remtech is the possibility to involve and use:

- High level knowledge from Universities and Research centres
- Practical and operative experiences from best enterprises at Italian level
- Advanced technologies by exhibiting companies
- Public operators and technicians



RemTech Training School

Remtech Italy – Russia International School approach/2



The RemTech International School would be partnership between Italian academia and industry, (represented by RemTech), and Russian government with the aims to achieve excellence by offering training and high-profile, technicians and officials which are key players for the implementation of policies, implementation of remediation and redevelopment of the area in general.

RemTech scientist and technologies knowledge Public Russian institution on environmental issues

research centres and experts

Russian

RemTech Italy — Russia School



Objective of the training school

The aims of the full immersion training school are:

- increase the knowledge over soil and underground water regarding site securing systems, technologies and techniques, case histories and site visits to remediating sites;
- answer, from the operative point of view, to specific requests connected to the environmental pollutions and pollutants of Russia contaminated sites and/or to focus on needs coming activities
- give some fundamental information on EU regulation and best practices, procedures, technologies and techniques;

Remtech International School proposal/4



Scientific Coordinator: Member of RemTech Scientific Committee and Russian organizations

Speakers: Italian, Russian and international speakers

Location: Russia

Duration: 56 hours (7 days)

Target: public and private operators involved into remediation sector



The arguments RemTech International School may include:

- Hydrogeology and contaminants diffusion in groundwater (models of transport of fluids);
- Characterization of contaminated sites (description of technics and technology for characterisation, surveys and sampling, overall management of the sample, dynamic approach to the characterization);
- Parameters for remediation introduction to EU regulations and limits;
- Risk Analysis to define prioritization of interventions and health risk and exercise on risk analysis;
- Decontamination of heavy metals in rural soil, hazardous chemical concentrations such as Cd, As, Pb, Cu, and Zn, especially in paddy soil;
- Using Plants to Clean Up Contaminated Soils (Phytoremediation)



 Overview on remediation and innovative technologies (Operating principles, Full scale configurations, Design criteria, Modelling and laboratory testing - pilot test, Full scale application);



Remediation consolidated and innovative technologies (practical application and case history) as for example: Physical barriers, Reactive Permeable Barriers, In Situ Chemical Oxidations (ISCO), Bioremediation and Thermal remediation.





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 Focus on technologies for remediation of heavy metals and oil (Case histories by Italian companies).





Remtech International activities



RemTech wants create alliances with russian operators for the development of initiative and activities (commercial and/or services) in particular for the remediation of soils and groundwater the promoters (possibly organized as joint ventures) have the aim of:

- Develop and consolidate a network of relationships among actors (institutions and enterprises)
- Support the identification and initiation of entrepreneurial development paths aimed at promoting the intersection of the supply and demand of the two territories;
- Development of technological exchange agreements, manufacturing, or sales and enhancing the capacity of Italian companies in the Russia market
- Supporting Russian investors in the field of land remediation and environmental technologies



Thank you for your attention!

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