

Insight on themes for upcoming Sustainable Remediation Conference: Agenda and Host Country Goals



SuRF Italy
Forum per la Sostenibilità
applicata alle Bonifiche
Sustainable Remediation Forum

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Agenda

- Introduction to SustRem2014
 - Organization
 - Topics
 - Program & Venue
- Host Country Goals

Introduction to SustRem2014

After Copenhagen 2009 and Vienna 2012...Italy will host

“The 3rd International Conference on
Sustainable Remediation 2014”
September 17 – 19, 2014 in Ferrara!



Cooperating International Partner Organisations:



September 17-19, 2014
Ferrara Exhibition Centre

TOPICS
Click here

PROGRAM
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The 3rd International Conference on:
**SUSTAINABLE
REMEDICATION
2014**

The banner features a central graphic of a globe with three intersecting orbital rings in red, yellow, and blue. The background is a gradient of blue.

www.sustrem2014.com

Sustainable Remediation – USEPA Webinar – April, 15, 2014

SustRem2014 - Organization

Organized by:

SuRF Italy – RECONnet
REMTECH - Ferrara Fiere
US EPA
CLAIRE
Austrian EPA



Cooperating International Partner Organizations



SustRem2014 - Themes

- **Conceptual Framing** – new developments and learnings since 2012, visioning and experiences on policy development incentives and regulatory support
- **Tools, Metrics and Indicators** – characterization and analysis to better understand ‘green’, ‘eco-efficient’, ‘sustainable’ and ‘socio-economical’ aspects
- **“Greening” Remediation, eco-efficient Technologies and Opportunities from Synergy** – lowering the environmental footprint and increasing cost-effectiveness, developing technology demonstration, promoting renewables and combined benefit approaches
- **Case-studies** – brownfield redevelopment; environmental footprint; increased cost-effectiveness, environmental & social improvement, renewables, combined benefit approaches (e.g. heat storage and groundwater remediation)
- **Stakeholder involvement and participative / collaborative approaches**

SustRem2014 - Program & Venue

Registration dates

- Registration - January 6th till September 3rd (30th June Deadline early bird).
- Abstract submittal deadline – April 25th
- Abstract acceptance confirmation - May

Conference

Wednesday, September, 17th (afternoon) – Ferrara Castle downtown

- Conference opening

Thursday, September 18th - Fiera district

- Technical & Scientific Sessions
- Thematic and Project Workshops
- Conference Dinner

Friday, September 19th 2014 - Fiera district

- Plenary Session
- Poster Session
- Roundtable Discussion and Summary

Sustainable Remediation – USEPA Webinar – April, 15, 2014



Host Country Goals

- Promote SR experience from lessons learnt, case studies and governance at International Level
- Witness and support the continuous improvement in SR practice
- Spread the concepts of Green and Sustainable Remediation among Italian stakeholders (regulators, authorities, industries, service providers, territory)
- Support the development of GSR framework tools for addressing and promoting the sustainability in remediation practice in Italy and Internationally

Italian Environmental Regulation

Very clear statements in Environmental Act (Decree 152/06):
remediation should...

- ...tend to treat soil on site and reuse it as filling material
- ...reduce risks related to transport
- ...avoid any troubles related to noises and odors
- ...adapt to morphological, vegetation and landscape characteristics of the surrounding area
- ...ensure for each site the achievement of the objectives minimizing the environmental impacts

Italian Environmental Regulation

Reuse of excavated soil (Decree 161/2012 and Law 98/2013)

Excavated soil from a contaminated sites...

1. ...if reused on site for construction activity
 - ...is not waste if it's not contaminated ($C_{\text{soil}} < \text{Screen. Level}$)
 - ...is not waste if after leaching test, the concentration is lower than a certain threshold ($C_{\text{leachate}} < \text{Threshold level}$)
2. ...can be considered as a by-product and reused off site
 - ...if ($C_{\text{soil}} < \text{Screen. Level}$) and it will be used in the same exposure scenario
 - ...if the risk assessment determines an acceptable risk for the future destination
3. ...if the site is a worked-out mine, can be reused on site (e.g. nourishment of slopes)

Italian Environmental Regulation

- *Water Saving (Law 98/2013)*: In presence of contaminated groundwater...
 1. ...you should identify and use the BAT to treat the plume
 2. ...if you use P&T, you should evaluate the use of the extracted groundwater in the industrial cycle
 3. ...treated GW are considered as industrial waters (e.g. they can go in sewage)
 4. ...reinjection of treated GW can be authorized if
 - the water will not contain harmful substances
 - additional measures and monitoring controls are implemented
 5. ...physical barriers are allowed only in few cases

National Incentives to GSR

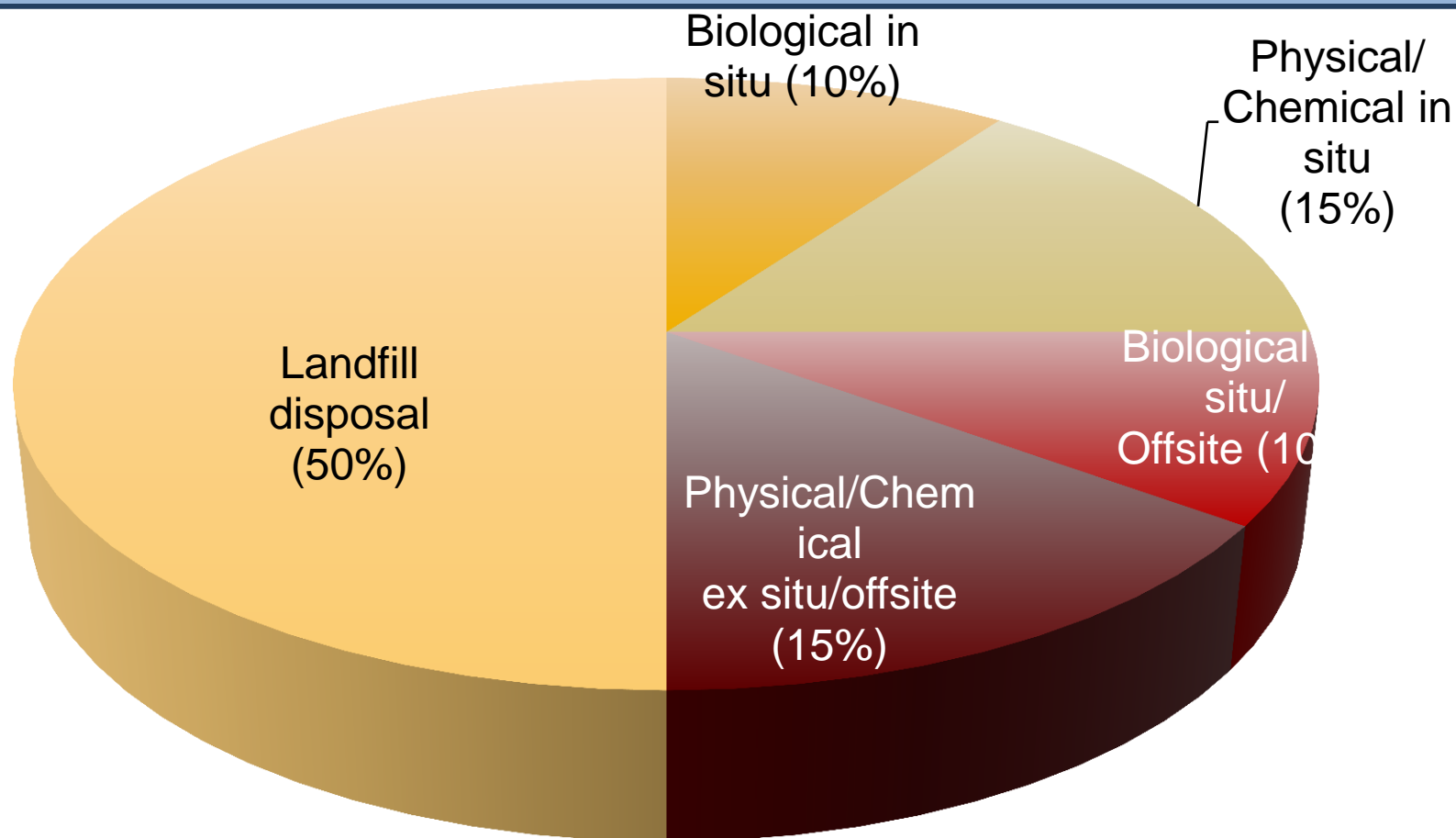
Example push to Greening remediation represented by PhotoVoltaic (PV) incentives schemes on clean up sites

- 10% Incentives for PV installed in replacement of ACM covers
- 5% Incentives for ground-mounted PV on remediated sites
- In 11 regions, mandatory to install PV systems on service stations roofs
- Incentives ended July 2013

Region	Cleanup sites		PV		% On total
Regione	n°	mq	MW	MW	%
Piemonte	3.235	2.480.278	282,3	815,4	34,6
Valle d'Aosta	64	24.660	2,5	15,3	16,6
Lombardia	6.219	4.947.864	550,7	1.497,9	36,8
Trentino Alto Adige	272	246.412	28,2	342,3	8,3
Veneto	3.418	2.534.422	266,5	1.016,6	26,2
Friuli Venezia Giulia	1.176	624.458	70,9	307,3	23,1
Liguria	132	93.205	9,9	56,6	17,6
Emilia Romagna	4.305	3.066.118	314,3	882,2	35,6
Toscana	1.749	1.409.801	139,1	369,0	37,7
Umbria	957	662.443	74,3	234,3	31,7
Marche	1.105	1.329.169	120,7	389,6	31,0
Lazio	711	614.532	64,4	354,7	18,2
Abruzzo	454	449.478	45,9	251,4	18,3
Molise	51	47.564	5,6	46,3	12,1
Campania	168	386.030	40,8	364,8	11,2
Puglia	432	381.504	35,5	414,9	8,6
Basilicata	88	45.923	4,8	72,5	6,6
Calabria	363	139.763	16,9	194,8	8,7
Sicilia	538	408.152	47,9	394,9	12,1
Sardegna	463	320.700	37,8	274,1	13,8
Italia	25.900	20.212.476	2.159,1	8.295,0	26,0

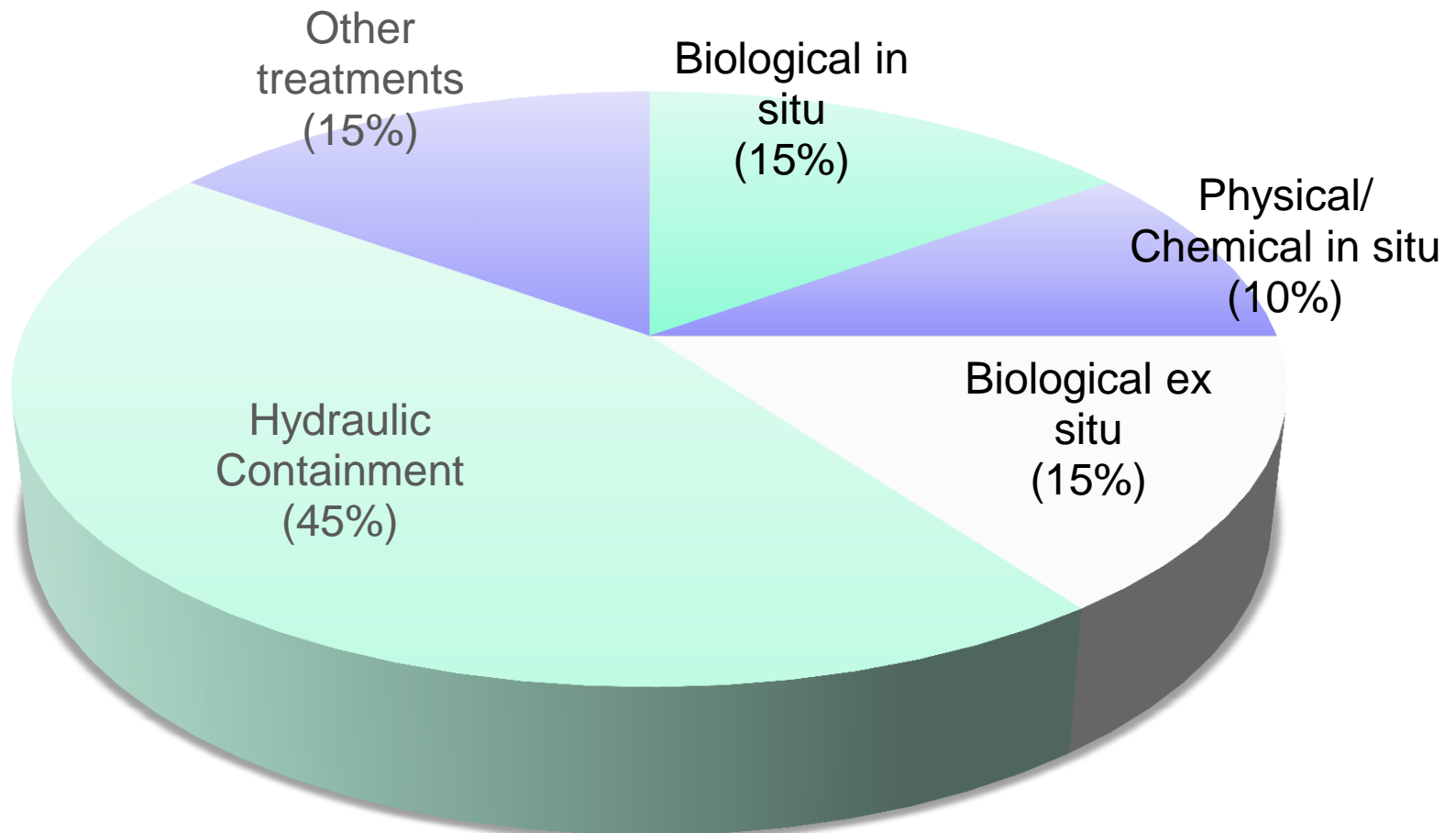
More than 20 Km² PV installed
Source: GSE.it (2012)

Soil Remediation Status in Italy



Source: Risk reduction measures in NPL sites (EIONET 2012)

GW Remediation Status in Italy



Source: Risk reduction measures in NPL sites (EIONET 2012)

Conclusions

Environmental regulations in Italy (and globally) includes provisions for green practices.

Currently remediations occur mainly via traditional, more impacting technologies.

Sustainable Remediation frameworks, strategy and tools can support the enhancement of environmental cleanup activities, via increasing culture and consensus from project Stakeholders.

SustRem2014 represents a great opportunity for remediation practitioners and industry to learn and share best practices, challenges and success stories to support sustainability at international level.

Looking forward seeing you in Ferrara! Thank you !



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www.surfitaly.it

www.sustrem2014.com