

## Global Soil Partnership June 2015-June 2017: Activity Report of Italy, National Focal Point Anna Benedetti

The Biennial June 2015 – June 2017 was an important period for the consolidation of Italian activities within the Global Soil Partnership.

### Italian Soil Partnership

The Italian Soil Partnership was established to represent the Italy in the Global Soil Partnership and it was promoted by the National Focal Point, in close collaboration with the Italian Ministry of Agriculture, Food and Forestry, within the International Relations Office and the Environment, Agriculture and territory Office.

The ISP is a point of convergence between the GSP and the Italian experts; it has a speculative organization with the GSP in 5 pillars with a coordination and a secretariat.

Following a Table List with the Italian Soil Partnership members elected:

<b>Global Soil Partnership</b>
<b>Benedetti</b> (CREA), <b>National Focal Point in GSP</b> ( <a href="mailto:anna.benedetti@crea.gov.it">anna.benedetti@crea.gov.it</a> <a href="mailto:nfp_gsp.rps@crea.gov.it">nfp_gsp.rps@crea.gov.it</a> ) Chair of SISS (Italian Soil Science Society): Carmelo Dazzi (Uni-Pa, vice chair of ESP e chair ESSCS) Filiberto Altobelli CREA e Rappresentanza italiana c/o ONU Elisabetta Lanzellotto Mipaaf Silvia Nicoli Mipaaf
<b>Pillar 1</b> <i>"Promote sustainable management of soil protection, conservation and sustainable productivity"</i> <i>Giuseppe Corti – Chair</i>
Carmelo Dazzi ( <a href="mailto:carmelo.dazzi@unipa.it">carmelo.dazzi@unipa.it</a> ) – (SISS) <i>Italian Soil Science Society</i>
Giuseppe Corti ( <a href="mailto:g.corti@univpm.it">g.corti@univpm.it</a> ) – (SIPE) <i>Italian Pedology Society</i> – (SISS) <i>Italian Soil Science Society</i>
Marco Trevisan ( <a href="mailto:marco.trevisan@unicatt.it">marco.trevisan@unicatt.it</a> ) – (SICA) <i>Italian Soil Chemistry Society</i>
Antonio Gelsomino ( <a href="mailto:agelsomino@unirc.it">agelsomino@unirc.it</a> ) - (SICA) <i>Italian Soil Chemistry Society</i>
Ettore Capri ( <a href="mailto:ettore.capri@unicatt.it">ettore.capri@unicatt.it</a> ) - (SICA) <i>Italian Soil Chemistry Society</i>
Simone Orlandini ( <a href="mailto:simone.orlandini@unifi.it">simone.orlandini@unifi.it</a> ) - (SIA) <i>Italian Society of Agronomy</i>
Rosa Francaviglia ( <a href="mailto:rosa.francaviglia@crea.gov.it">rosa.francaviglia@crea.gov.it</a> ) - (SISS) <i>Italian Soil Science Society</i>
Francesco Morari ( <a href="mailto:francesco.morari@unipd.it">francesco.morari@unipd.it</a> ) – (SIA) ) <i>Italian Society of Agronomy</i>
Aurelio Ciancio ( <a href="mailto:aurelio.ciancio@ipsp.cnr.it">aurelio.ciancio@ipsp.cnr.it</a> ), Mauro Gamboni ( <a href="mailto:mauro.gamboni@cnr.it">mauro.gamboni@cnr.it</a> ) - (CNR) <i>National Research Council</i>
<b>Pillar 2</b> <i>"Encourage investment, technical cooperation, policy, education awareness and</i>

<p><i>extension in soil”</i></p> <p>Livia Vittori Antisari (<a href="mailto:livia.vittori@unibo.it">livia.vittori@unibo.it</a>) Chair</p>
<p>Livia Vittori Antisari (<a href="mailto:livia.vittori@unibo.it">livia.vittori@unibo.it</a>) - (SISS) <i>Italian Soil Science Society</i></p>
<p>Gilmo Vianello (<a href="mailto:gilmo.vianello@unibo.it">gilmo.vianello@unibo.it</a>) - (SISS) <i>Italian Soil Science Society</i> SISS)</p>
<p>Mariana Amato (<a href="mailto:mariana.amato@unibas.it">mariana.amato@unibas.it</a>) – (SIA) Italian Society of Agronomy</p>
<p>Stefano Grego (<a href="mailto:grego@unitus.it">grego@unitus.it</a>) – (SICA) Italian Soil Chemistry Society</p>
<p>Mauro Gamboni (<a href="mailto:mauro.gamboni@cnr.it">mauro.gamboni@cnr.it</a>), Costanza Calzolari (<a href="mailto:c.calzolari@ibimet.cnr.it">c.calzolari@ibimet.cnr.it</a>) – (CNR) National Research Council</p>
<p>Anna Luise (<a href="mailto:anna.luise@isprambiente.it">anna.luise@isprambiente.it</a>) – Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)</p>
<p><b>Pillar 3</b> <i>“Promote targeted soil research and development focusing on identified gaps and priorities and synergies with related productive, environmental and social development actions”</i></p> <p>Teodoro Miano (<a href="mailto:teodoro.miano@uniba.it">teodoro.miano@uniba.it</a>) Chair</p>
<p>Michele Freppaz (<a href="mailto:michele.freppaz@unito.it">michele.freppaz@unito.it</a>) - (SISS) <i>Italian Soil Science Society</i> SISS)</p>
<p>Teodoro Miano (<a href="mailto:teodoro.miano@uniba.it">teodoro.miano@uniba.it</a>) - (SISS) <i>Italian Soil Science Society</i> SISS)</p>
<p>Paolo Nannipieri (<a href="mailto:paolo.nannipieri@unifi.it">paolo.nannipieri@unifi.it</a>) - (SICA) Italian Soil Chemistry Society</p>
<p>Salvatore Luciano Cosentino (<a href="mailto:sl.cosentino@unict.it">sl.cosentino@unict.it</a>) – – (SIA) Italian Society of Agronomy</p>
<p>Raffaella Balestrini (<a href="mailto:raffaella.balestrini@ipsp.cnr.it">raffaella.balestrini@ipsp.cnr.it</a>), Antonello Bonfante (<a href="mailto:antonello.bonfante@isafom.cnr.it">antonello.bonfante@isafom.cnr.it</a>) - (CNR) National Research Council</p>
<p>Anna Luise (<a href="mailto:anna.luise@isprambiente.it">anna.luise@isprambiente.it</a>) – Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)</p>
<p><b>Pillar 4</b> <i>“Enhance the quantity and quality of soil data and information: data collection (generation), analysis, validation, reporting, monitoring and integration with other disciplines”</i></p> <p>Edoardo Costantini CREA -Chair</p>
<p>Edoardo Costantini (<a href="mailto:edoardo.costantini@crea.gov.it">edoardo.costantini@crea.gov.it</a>) - (SISS) <i>Italian Soil Science Society</i></p>
<p>Giuseppe Lo Papa (<a href="mailto:giuseppe.lopapa@unipa.it">giuseppe.lopapa@unipa.it</a>) (SISS) <i>Italian Soil Science Society</i></p>
<p>Angelo Basile (<a href="mailto:angelo.basile@isafom.cnr.it">angelo.basile@isafom.cnr.it</a>), Costanza Calzolari (<a href="mailto:c.calzolari@ibimet.cnr.it">c.calzolari@ibimet.cnr.it</a>) - (CNR) National Research Council</p>
<p>Marco Di Leginio (<a href="mailto:marco.dileginio@isprambiente.it">marco.dileginio@isprambiente.it</a>) Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)</p>
<p>Fiorenzo Fumanti (<a href="mailto:fiorenzo.fumanti@isprambiente.it">fiorenzo.fumanti@isprambiente.it</a>) Istituto Superiore per la Protezione</p>

e la Ricerca Ambientale (ISPRA)
Michele Munafò ( <a href="mailto:michele.munafò@isprambiente.it">michele.munafò@isprambiente.it</a> ) Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)
Maria Fantappiè ( <a href="mailto:maria.fantappiè@crea.gov.it">maria.fantappiè@crea.gov.it</a> )
<b>Pillar 5</b> <i>“Harmonization of methods, measurements and indicators for the sustainable management and protection of soil resources”</i> Adele Muscolo ( <a href="mailto:amuscolo@unirc.it">amuscolo@unirc.it</a> ) Chair
Sara Marinari ( <a href="mailto:marinari@unitus.it">marinari@unitus.it</a> ) (SISS) <i>Italian Soil Science Society</i>
Maria Teresa Dell’Abate ( <a href="mailto:mariateresa.dellabate@crea.gov.it">mariateresa.dellabate@crea.gov.it</a> ) (SISS) <i>Italian Soil Science Society</i>
Claudio Zaccone ( <a href="mailto:claudio.zaccone@unifg.it">claudio.zaccone@unifg.it</a> ) – (SISS) <i>Italian Soil Science Society</i>
Ettore Capri ( <a href="mailto:ettore.capri@unicatt.it">ettore.capri@unicatt.it</a> ) - (SICA) Italian Soil Chemistry Society
Adele Muscolo ( <a href="mailto:amuscolo@unirc.it">amuscolo@unirc.it</a> ) - (SICA) Italian Soil Chemistry Society
Luigi D’Acqui ( <a href="mailto:l.dacqui@ise.cnr.it">l.dacqui@ise.cnr.it</a> ), Giacomo Mele ( <a href="mailto:giacomo.mele@isafom.cnr.it">giacomo.mele@isafom.cnr.it</a> ) - (CNR) National Research Council
Carlo Jacomini ( <a href="mailto:carlo.jacomini@isprambiente.it">carlo.jacomini@isprambiente.it</a> ) Istituto Superiore per la Protezione e la Ricerca Ambientale (ISPRA)

During the ESP Plenary Assembly, Italy has presented the candidature for the co-vice president charge of ESP: Prof. Carmelo Dazzi (University of Study of Palermo), has been elected.

Following the Pillar activities:

#### **Pillar 1**

Italy participated with its own expert on the final review of VGSSM hosted in FAO from 12 to 15 April 2016.

The organization of a workshop aiming to disseminate the guidelines for the Sustainable Land Management to stakeholders, is in progress (it may be in September 2017). We keep you informed about the workshop that will be organized by ISP in collaboration with the Ministry of Agriculture, Food and Forestry, the Italian Representation at the UN, and the National Network for Rural Development. Additionally, in view of its future activities, is in program the translation of Guidelines to facilitate the transfer and dissemination among farmers.

#### **Pillar 2**

In Italy numerous meetings has been organized to present the GSP, ESP and ISP activities. Moreover, many delegates delivered their speeches in national conferences to illustrate the activities of the GSP.

Workshops dedicated:

28 September › 4 October 2015 EXPO 2015: Workshop of SISS

5 December 2015, Rome: Celebration of the International Year of the Soil, “Healthy Soil For Healthy life”

8 April 2016 Sala Consiliare – Comune di Treia (MC) “The management of our soils: the world challenge”

9 June 2016 Matera: Healthy Soil for healthy life, XI National Congress on biodiversity

5 December 2016 Ancona: Celebration of the International Year of the Soil: a world to discover"

5-7 December Ancona: annual congress of SISS (Italian Society of Soil Science) "Soil: a world to discover" 2016

16 December 2016 Bologna, Alma Mater Studiorum Università di Bologna: "Healthy soil for healthy life", (ANA)

10 April 2017 - Bologna: Closing ceremony of National Agriculture Association (ANA) Academic year 2016

### Pillar 3

The ISP has participated (over 20 delegates) at Global Organic Soil Carbon congress from 23 to 25 March 2017 at FAO delivering oral presentations, posters, and participating in the debate to identify the research needs on the topic of organic carbon.

Anna Benedetti	CREA-AA	NFP GSP	<u>Moderator of Session 3 Topic 2</u>
Guido Bonati	CREA-PB		
Stefano Brenna	Regione Lombardia		
Costanza Calzolari	CNR		
Giacomo Cestini	MIUR UNIFI		
Tommaso Chiti	MIUR UNIVT		
Edoardo Costantini	CREA-AA		<u>Poster</u> "Soil organic carbon in Mediterranean cropping systems and the influence of climate change on soil physical qualities".
Claudia Di Bene	CREA-AA		
Giovanni Di Leginio	ISPRA		
Lorenzo D'Avino	CREA-AA		
Roberta Farina	CREA-AA		<u>Oral presentation</u> "Towards a Tier 3 approach to estimate SOC stocks at sub-regional scale in Southern Italy".
Rosa Francaviglia	CREA-AA		
Fiorenzo Fumanti	ISPRA		
Paolo Giandon	Regione Veneto		
Carlo Jacomini	ISPRA		
Anna Luise	ISPRA		
Elisabetta Lanzellotto	MIPAAF		
Giovanni L'Abate	CREA-AA		<u>Poster</u> "SOC – sequestration in a 4 years convengional and conservative rotation".
Adele Muscolo	MIUR UNIRC		<u>Poster</u> "Effects of different thinning intensities on soil carbon storage in Pinus laricio forest (Apennine south Italy)"
Rosario Napoli	CREA-AA		
Mauro Piazzì	TIMESIS		
Simone Priori	CREA-AA		<u>Poster</u> "Field scale mapping of soil carbon stock with limited sampling by the use of proximal sensors"
Sergio Saia	CREA-PB		<u>Oral presentation</u> "Protection of soil from the loss of organic carbon by taking into account erosion and managing land use at varying soil type: indication from a model semiarid area".
Riccardo Scalenghe	MIUR UNIPA		
Calogero Schillaci	MIUR UNIMI		

Riccardo Spaccini	MIUR UNINA	<u>Oral presentation</u> “Soil organic carbon stabilization in compost amended soils” <u>Poster</u> “LIFE CarbOnFarm project: technologies to stabilize soil organic carbon and farm productivity, promote waste value and climate change mitigation”.
Iolina Vinci	Regione Veneto	<u>Poster</u> “Strengths and weaknesses of a bottom up approach in estimating soil organic carbon: an experience in the varied Italian scenery”

#### **Pillar 4 and 5**

The ISP is working to collecting and standardizing data for soil organic carbon paper processing at the national level. Additionally, the NFP in view of its mandate, appointed itself to inform the national authorities about the necessity of a call for an official expression of interest in sharing the objective of creating a global soil information system by sharing national soil data collected in a national database. Regardless, the Ministry of Agriculture and Forestry has appointed the CREA (Council for Research in Agriculture and Economic Analysis) to represent the point of convergence to promote this sharing.

#### **Other activities**

- Paper to spread the knowledge of GSP;
- Papers on Italian Rete Rurale Magazine by Anna Benedetti, Carmelo Dazzi, Filiberto Altobelli:
  - “I suoli d’Italia”: Anna Benedetti, Edoardo Costantini, Carmelo Dazzi
  - “Il Bar della Scienza: lo Scienziato della porta accanto”, Anna Benedetti
- Book of *Bar della Scienza (CREA)*, in press
- Oral presentation Anna Benedetti starting point for soil: what does extent International year of soil: “healthy soil for healthy life”
- Book of abstract: SISS Annual congress in Ancona, 2016
- Book of Abstract: Congress of Biodiversity in Matera 2016.
- “L’alleanza mondiale sul suolo: contributo italiano” Anna Benedetti - “GLOBAL SOIL PARTNERSHIP. LA SALUTE DEL SUOLO PER LA SALUTE DELLA VITA” - V SERIE ANNALI, vol. CXXXVI, a cura di Gianpietro Venturi pagg. 594-598

#### **Home page SISS**

Within the activities promoted by SISS, Italian Society of Soil Science, it was established a working group on Global Soil Partnership. Moreover, SISS contribute to the dissemination, sharing and exchange of knowledge among whom is interested, creating a link within the home page SISS. Following the address:

[http://www.scienzadelsuolo.org/gruppo\\_GSP\\_.php](http://www.scienzadelsuolo.org/gruppo_GSP_.php)

**Contact:** [nfp\\_gsp.rps@crea.gov.it](mailto:nfp_gsp.rps@crea.gov.it)