PARTNER

West Systems s.r.l. works worldwide on the development of technological innovation and applied research in the field of earth sciences and environmental monitoring. West Systems is coordinator of LIFE+IPNOA project and was responsible e of the planning and implementation of the two prototypes for N_2O monitor-

The Institute of Life Sciences, **Sant'Anna School of advanced Studies**, carries out research in the field of plant biology, energy and food related crops, agro-biodiversity and agro-ecosystem sustainability. Within the LIFE+IPNOA project was responsible for field trials, monitoring of the N_2O emissions and developing scenario analysis.

The BioAtm of the ECG (**INRA** and AgroPArisTech School) focuses on the analysis of biosphere-atmosphere exchanges of several chemical and biological contaminants with potential impact on air quality, climate or vegetation, based on experimental and numerical modelling approaches. INRA was responsible of the cross-validation activity of the two prototypes.

The Department of Agriculture, **Tuscany Region**, has specific expertise in the agricultural sector, forestry, hunting and fishing and promotes policies for the sustainable development of rural areas of the region. Within the LIFE+IPNOA was responsible for the preparation of the Best Management Practice manual for the mitigation of N_2O emissions from agriculture.

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LINKS

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www.westsystems.eu

www.inra.fr

www.sssup.it

www.regione.toscana.it

IPNOA

Improved flux Prototypes for N_2O emission from Agriculture

LIFE+ IPNOA

Final Workshop

Climate change mitigation strategies, a challenge for agriculture

October 13, 2016
Sant'Anna School of Advanced Studies,
Piazza Martiri della Libertà, 33,
Pisa (Italy)
Aula Magna

9.30 - 18.00

LIFE+ IPNOA Project improved flux prototypes for N_2O emission from agriculture
LIFE11 ENV/IT/000302
www.ipnoa.eu

Mitigation of greenhouse gas emissions from agriculture

The LIFE+IPNOA (*Improved flux Prototype for N_2O emission from Agriculture*) project seeks the goal of proposing strategies for reducing greenhouse gas emissions (GHGs) from agricultural soil, as a contribution to the European target of 20% of GHGs reduction by 2020 respect to 1990 level. In particular, about the 70% of nitrous oxide (N_2O) in Italy is emitted by the agricultural sector, mostly from soil after nitrogen fertilization.

Within the IPNOA project two prototypes were developed to improve monitoring techniques of N_2O emissions from soil. Effects of the main agricultural practices on N_2O emissions were assessed on the main crops in Tuscany (Italy) and a Best Agricultural Practices manual was produced.

During the final workshop project results will be presented and the Best Management Practices for N_2O reduction from agricultural soils will be delivered and discussed.

The workshop will be an occasion to discuss innovative strategies for GHGs mitigation from agricultural and forestry sector.

09.30 *Welcomes* - Sant'Anna School of Advanced Studies

09.45 *Welcomes* - Tuscany region

1° session **- Coordinated by Prof. Enrico Bonari, Sant'Anna School**

10.00 *Agriculture, adaptation and mitigation of climate change* - Franco Miglietta - CNR

10.20 *Advances in biosphere-atmosphere exchanges of reactive nitrogen* - Benjamin Loubet, Ecosys, INRA

10.40 *LIFE+ IPNOA: development of prototypes to improve monitoring techniques* - Giorgio Virgili, IPNOA project coordinator, West Systems Srl

11.00 *Validation of different method for N_2O emission monitoring* - Patricia Laville, Ecosys, INRA

11.20 Coffee break

11.40 *Results of IPNOA field trials* - Simona Bosco, Sant'Anna School of Advanced Studies

12.00 *Precision agriculture and climate change mitigation - Michele Pisante* - University of Teramo

12.40 *Best Management Practices manual* - Stefania Nuvoli, Tuscany Region

12.40 *Discussions*

13.00 - 14.30 Lunch buffet

2° session - Networking: **innovative strategies for GHGs mitigation from agricultural and forestry sector**

14.30 LIFE+ ClimAgri - Antonio Holgado

14.45 LIFE+ RegaDIOX - Iñaki Mendioroz

15.00 LIFE+ AGRICARE—Nicola Colonna

15.15 SMOCA - Christian Frasconi

15.30 LIFE EBRO-ADMICLIM - Marc Viñas

15.45 FERTILCROP - Daniele Antichi

16.00 LIFE+ BEEF CARBON - Josselin Andurand

16.15 Coffee break

16.30 LIFE+ OLIVE-CLIMA - Giuseppe Montanaro

16.45 LIFE+ VITISOM - Davide Trionfini

17.00 LIFE+ FORESMIT—Alessandra Lagomarsino

17.15 LIFE+ CLIMATREE—Kostas Bithas

17.30 LIFE+ CLIMATE-CHARGER - Mario Montanari

17.45 *Discussions* and conclusions

Simultaneous translation service Italian/English will be available