Optimising Subsidiary Crop Applications in Rotations

Dal 2012-04-01 al 2016-03-31, progetto concluso | OSCAR Sito web

Obiettivo

There is a need to improve sustainability in farming systems particularly through soil care and improvement, but not at the expense of productivity. One approach is to focus on a comprehensive advance in conservation tillage. This will be developed from improved ways of integrating subsidiary crops (SC) as living or dead mulches or cover crops with the main crops in rotations so as to simultaneously improve crop nutrition, health, and productivity. The SC will deliver multiple ecological services by increasing the duration of soil cover in the rotation overall while increasing species diversity, minimising the use of tillage and agrochemicals, enhancing biological N fixation and soil C content, and both reducing water demand in dry climates and improving soil workability in wetter climates.

The research will draw on a wide range of previous and ongoing EU and related projects and will be based on 11 coordinated field experiments in different climatic regions together with three long-term experiments in Europe and Brazil. These experiments will all be assessed for economic and ecological impact including the often neglected issue of legume root health. Breeding companies and manufacturers of agricultural equipment from all regions of interest will be involved in finding adapted solutions for the different environments by extending the range of potentially useful plant species and by developing appropriate machinery to promote adoption in practical agriculture. The potential for useful chemical extraction from the existing and novel SCs will also be investigated.

A central deliverable will be a database supported 'Cover Crop and Living Mulch Toolbox' and Decision Support Tool which will encourage multilingual stakeholder exchange and dissemination during and beyond the lifetime of the project so as to capture farmer experience. The results of the project as a whole will be of use for and improve sustainability in low-input, organic, and conventional farming systems.

Informazioni correlate

| Sintesi delle relazioni | Final Report Summary - OSCAR (Optimising Subsidiary Crop Applications in Rotations) |
**Coordinatore**

UNIVERSITAET KASSEL
MONCHEBERGSTRASSE 19
34125 KASSEL
Germany

See on map

**Activity type:** Higher or Secondary Education Establishments

**Contatto amministrativo:** Sigrid Reinhard
Tel.: +49 561 8042492
Contact the organisation

---

**Partecipanti**

EIDGENOESSISCHES DEPARTEMENT FUER WIRTSCHAFT, BILDUNG UND FORSCHUNG
Bundeshaus Ost
3003 BERN
Switzerland

See on map

**Activity type:** Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

**Contatto amministrativo:** Brigitte Dorn
Tel.: +41 44 3777288
Fax: +41 44 3777201
Contact the organisation

---

NIBIO - NORSK INSTITUTT FOR BIOOKONOMI
HOEGSKOLEVEIEN 7
1430 AAS
Norway

See on map

**Activity type:** Research Organisations

**Contatto amministrativo:** Hanne Soerlie
Tel.: +4790151094
Contact the organisation
INSTITUTO AGRONOMICO DO PARANA
RODOVIA CELSO GARCIA CID KM 375
86047 590 LONDRINA
Brazil

**Activity type:** Research Organisations

**Contatto amministrativo:** Ademir Calegari
Tel.: +55 43 33762458
Fax: +55 43 33762101

Contact the organisation

INTERNATIONAL CENTRE FOR AGRICULTURAL RESEARCH IN THE DRY AREAS
BECHIR AL KASSAR DALIA BUILDING 2ND FLOOR AREA VERDUN
- BEIRUT
Lebanon

**Activity type:** Research Organisations

**Contatto amministrativo:** Sripada M Udupa
Tel.: +212 534181689
Fax: +212 537675496

Contact the organisation

INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE
AVENUE DE LA VICTOIRE
10000 RABAT
Morocco

**Activity type:** Research Organisations

**Contatto amministrativo:** Imane Thami-Alami
Tel.: +212 662116700
Fax: +212 537775530

Contact the organisation

INSTYTUT UPRAWY NAWOZENIA I GLEBOZNAWSTWA, PANSTWOWY INSTYTUT BADAWCZY
CZARTORYSKICH 8
24 100 PULAWY
Poland

**Activity type:** Research Organisations

**Contatto amministrativo:** Wieslaw Oleszek
Tel.: +48 81 8864960

Contact the organisation
PROGRESSIVE FARMING TRUST LTD LBG
ELM FARM HAMSTEAD MARSHALL
RG20 0HR NEWBURY
United Kingdom

See on map

Activity type: Research Organisations

Contatto amministrativo: Bruce Pearce
Tel.: +441488658298
Contact the organisation

SVERIGES LANTBRUKSUNIVERSITET
ALMAS ALLE 8
750 07 UPPSALA
Sweden

See on map

Activity type: Higher or Secondary Education Establishments

Contatto amministrativo: Ingrid Ragnarsdotter Jajke
Tel.: +46 18671437
Contact the organisation

SCUOLA SUPERIORE DI STUDI UNIVERSITARI E DI PERFEZIONAMENTO S ANNA
PIAZZA MARTIRI DELLA LIBERTA 33
56127 PISA
Italy

See on map

Activity type: Higher or Secondary Education Establishments

Contatto amministrativo: Enrico Bonari
Tel.: +39 050 883528
Fax: +39 050 883519
Contact the organisation

TECHNISCHE UNIVERSITAET MUENCHEN
Arcisstrasse 21
80333 MUENCHEN
Germany

See on map

Activity type: Higher or Secondary Education Establishments

Contatto amministrativo: Katrin Hörmann
Tel.: +49 89 289 22629
Fax: +49 89 289 22620
Contact the organisation
KOBENHAVNS UNIVERSITET
NORREGADE 10
1165 KOBENHAVN
Denmark

Activity type: Higher or Secondary Education Establishments

Contacto amministrativo: Ivan Kristoffersen
Tel.: +45 35322626
Fax: +45 35324612

See on map

UNIVERSITA DI PISA
LUNGARNO PACINOTTI 43/44
56126 PISA
Italy

Activity type: Higher or Secondary Education Establishments

Contacto amministrativo: Marco Mazzoncini
Tel.: +390502210504
Fax: +390502210503

See on map

UNIVERSITA DEGLI STUDI DELLA TUSCIA
VIA S MARIA IN GRADI 4
01100 VITERBO
Italy

Activity type: Higher or Secondary Education Establishments

Contacto amministrativo: Agnese Apuzza
Tel.: +390761357916
Fax: +390761357524

See on map

WAGENINGEN UNIVERSITY
DROEVENDAALSESTEEG 4
6708 PB WAGENINGEN
Netherlands

Activity type: Higher or Secondary Education Establishments

Contacto amministrativo: Rudie Jullens
Tel.: +31 317 485829
Fax: +31 317 418094

See on map
ARCOIRIS SRL
Via Pietro Bembo 42
41100 MODENA
Italy

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contatto amministrativo:** Alberto Olivucci
Tel.: +39 59 822691
Fax: +39 59 3366102

Contact the organisation

FERRARI COSTRUZIONI MECCANICHE SRL
STRADA SQUADRI 6
46040 GUIDIZZOLO
Italy

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contatto amministrativo:** Christian Rossi
Tel.: +39 0376 819342

Contact the organisation

MARANGON SRL
VIA VALSUGANA 11/B
35010 SAN GIORGIO IN BOSCO
Italy

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contatto amministrativo:** Giulio Marangon
Tel.: +390495996346

Contact the organisation

P.H. PETERSEN SAATZUCHT LUNDSGAARDGMBH & CO KG
STREICHHMUHLER STRASSE 8 A
24977 GRUNDHOF
Germany

**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

**Contatto amministrativo:** Michaela Schlathoelter
Tel.: +49 4636 89 44
Fax: +49 4636 8962

Contact the organisation
Contributo UE: EUR 275 760

FRIEDRICH WENZ GMBH
LEHENSTRASSE 7
77963 SCHWANAU
Germany

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contatto amministrativo: Friedrich Wenz
Tel.: +4978243712
Fax: +497824664181
Contact the organisation

Ultimo aggiornamento 2017-05-02
Recuperato il 2019-09-24

© European Union, 2019