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Wireless Sensor Networks and Remote Sensing - Foundation of a Modern Agricultural Infrastructure in the Region

Fact Sheet

Project Information

AGROSENSE

Grant agreement ID: 204472

Project closed

Start date
1 May 2008

End date
30 April 2011

Funded under
Specific Programme "Capacities": Research potential of Convergence Regions

Total cost
€ 1 112 620,18

EU contribution
€ 975 893,90

Coordinated by
UNIVERZITET U NOVOM SADU
FAKULTET TEHNICKIH NAUKA
 Serbia

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RESEARCH*EU MAGAZINE



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frontier**

Objective

Current trends in agricultural production are based on advanced technologies, including the extensive application of information technologies. In particular, the usage of wireless sensor networks (WSN) and remote sensing (RS) ensure timely in-field access to data and enable prompt reactions. Measures can be administered with more precision and effectiveness, thus providing higher food quality, environmental protection and considerable savings. In addition, a better understanding of underlying processes, and validation and adjustments of the used models can be achieved. Agriculture is one of the principal business affairs in WBC region. This especially holds for the Province of Vojvodina, a regional leader in which agriculture represents 40% of GDP. However, the use of IT support is missing, and its introduction in the regional agricultural infrastructure is of the highest importance. Networking and exchange of know-how within this project will lead to the reinforcement of the research potential and provide a substantial support for further development of modern agriculture in the region. Coordinating institution for the project is the Centre for Measurement Technologies in Precision Agriculture (MeTeP@), founded at the University of Novi Sad, the leading academic institution in Vojvodina. The consortium members for this project have been carefully chosen to initiate the coordination of research activities in the fields of WSN and RS applied to the precision agriculture. Through this project MeTeP@ will improve its research potential and human resources by networking with EU partners, which will lead to a

long-term cooperation. MeTeP@ expects to broaden both its knowledge and technical basis regarding WSN and RS, and offer new employment possibilities for researchers in the future. As a final point, both the research community and the WBC agricultural system will benefit from the results of this cooperation.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [environmental engineering](#) > **[remote sensing](#)**

[agricultural sciences](#) > [agriculture, forestry, and fisheries](#) > **[agriculture](#)**

[engineering and technology](#) > [electrical engineering, electronic engineering, information engineering](#) > [information engineering](#) > [telecommunications](#) > **[radio technology](#)**



Keywords

[Wireless sensor networks](#)

[environmental protection](#)

[precision agriculture](#)

[remote sensing](#)

Programme(s)

[FP7-REGPOT - Specific Programme "Capacities": Research potential of Convergence Regions](#)

Topic(s)

[REGPOT-2007-3-01 - All thematic priorities' domains of the FP7](#)

Call for proposal

FP7-REGPOT-2007-3

[See other projects for this call](#)

Funding Scheme

[CSA-SA - Support actions](#)

Coordinator



UNIVERZITET U NOVOM SADU FAKULTET TEHNICKIH NAUKA

EU contribution

€ 511 647,90

Total cost

No data

Address

TRG DOSITEJA OBRADOVICA 6

21000 Novi Sad

 Serbia 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (5)



UNIVERSITA DEGLI STUDI DI FIRENZE

 Italy

EU contribution

€ 174 593,60

Address

Piazza San Marco 4

50121 Florence 

Region

Centro (IT) > Toscana > Firenze

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



INSTITUT JOZEF STEFAN

 Slovenia

EU contribution

€ 159 069,60

Address

Jamova 39

1000 Ljubljana 

Region

Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type

Research Organisations

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



Faculty of Agriculture Novi Sad

 Serbia

EU contribution

€ 27 659,50

Address

Trg Dositeja Obradovica 8

21000 NOVI SAD 

Activity type

Higher or Secondary Education Establishments

Links

[Contact the organisation](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data



INSTITUT MIHAJLO PUPIN

Serbia

EU contribution

€ 95 230,00

Address

VOLGINA 15

11060 Beograd

Activity type

Research Organisations

Links

[Contact the organisation](#) [Website](#)

[Participation in EU R&I programmes](#)

[HORIZON collaboration network](#)

Total cost

No data



PROVINCIAL SECRETARIAT OF AGRICULTURE, WATER ECONOMY AND FORESTRY, VOJVODINA

Serbia

EU contribution

€ 7 693,30

Address

Bul.Mihajla Pupina 16

21000 NOVI SAD

Region

Србија - север > Регион Војводине > Јужнобачка област

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

[Contact the organisation](#)

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

No data

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