



EUROPEAN  
COMMISSION

Community Research



## Robot Fleets for Highly Effective Agriculture and Forestry Management

NMP2-LA-2010-245986

**RHEA – Agenda of the technical meeting WP1-1 and S&T board meeting  
22-23 November 2010  
CogVis  
Vienna, Austria**

*Deliverable Identifier:* D1  
*Work-package, Task:* WP1  
*Work Package leader:* CSIC-CAR  
*Deliverable type\*:* O  
*Dissemination level\*\*:* PU  
*Status –Version:* Final  
*Contractual delivery date:* ---  
*Actual delivery date:* October 25, 2010  
*Author:* P. Gonzalez-de-Santos  
*Abstract:* To discuss the preliminary system requirements and specifications as a part of Deliverable D1  
*Keywords:*

\*PU – Public, PP – Restricted to other programme participants (including the Commission Services), RE – Restricted to a group specified by the consortium (including the Commission Services), CO – Confidential, only for members of the consortium (including the Commission Services).

\*\*R – Report, P – Prototype, D – Demonstrator, O – Other.



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### Sunday, November 21, 2010

Location: **Augustinerkeller,**  
**Augustinerstrasse 1, 1010 Vienna (1st District)**

<http://www.bitzinger.at/english.html>

#### GET TOGETHER

19:00--

Dinner

### Monday, November 22, 2010

Location: **Vienna University of Technology**  
**Floragasse 7, 1040 Vienna**

#### SCIENTIFIC AND TECHNICAL MEETING

08:45-09:00

Reception at Vienna University of Technology

09:00-09:05

Welcome

Martin Kampel/Michael Brandstoetter  
 (CogVis)

09:00-09:15

Meeting objectives

Pablo Gonzalez-de-Santos

09:15-10:30

**SESSION 1: Selection of crops for final tests**

Jacob Carballido (SAP) (Chair)

**1 Number of crops for final tests according to the DoW**

Jacob Carballido (SAP) [4 minutes]

**2 Criteria for selection of crops (D1.1 Draft)**

Cesar Fernandez-Quintanilla (CSIC-ICA)  
 [4 minutes]

**3 Introduction of potential crops**

**3.1 Close row crops:**

3.1.1 Winter cereal (wheat, barley, rye) –  
 Chemical weed control

Cesar Fernandez-Quintanilla (CSIC-ICA)  
 [9 minutes]

**3.2 Wide row crops:**

3.2.1 Maize – Chemical weed control

Cesar Fernandez-Quintanilla (CSIC-ICA)  
 [9 minutes]

3.2.2 Maize – Physical (Mechanical/ Thermal)  
 weed control

Marco Fontanelli (UP) [9 minutes]

3.2.3 Narrow row crops – Physical weed control

Christian Frasconi (UP) [9 minutes]

3.2.4 Tomato

Eva Baguena (UPM) [9 minutes]

**3.3 Woody perennial**

3.3.1 Poplar – Chemical and Physical weed  
 control

Cesar Fernandez-Quintanilla (CSIC-ICA)  
 [9 minutes]

3.3.2 Olive – On-soil weed control and on-  
 canopy treatment

Marco Vieri (UF) [9 minutes]

**4 Final discussions**

(The final decision will be made by the S&T  
 Committee in the S&T Board meeting)

All [10 minutes]

10:30-11:00

Coffee break

11:00-12:00	<b>SESSION 2: Perception system</b>	
	Remote system for weed and crop identification	Gilles Rabatel (Cemagref) Jose M. Peña-Barragán (CSIC-IAS) [20 minutes]
	Ground system for weed and crop identification	Gonzalo Pajares (UCM) Angela Ribeiro (CSIC-CAR) [20 minutes]
	2D and 3D vision system for obstacle detection and navigation purposes	Michael Hödlmoser (CogVis) [20 minutes]
12:00-13:30	<b>Lunch</b>	
13:30-14:45	<b>SESSION 3: Mobile units</b>	
	Ground mobile units	Bart Missotten (CNH) (Chair) [15 minutes]
	Controller for ground mobile units	Nicola Tomatis (BL) [15 minutes]
	Aerial mobile units	Markus Hahner (AR) [15 minutes]
	Controller for aerial mobile units	Jaime del Cerro (UPM-EII) [15 minutes]
	Fuel cells and solar panels	George Lagios (TRO) [15 minutes]
14:45-15:15	<b>Coffee break</b>	
15:15-16:30	<b>SESSION 4: Communication and location systems</b>	
	Communication system	Slobodanka Tomic (FTW) [15 minutes]
	Location system	Jacob Carballido (SAP) [15 minutes]
<b>S&amp;T MEETING ON WP5</b>		
16:30-17:30	<b>SESSION 5:</b> Technical meeting proposed by the WP5 leader	Bart Missotten (Chair)
<b>DINNER</b>		
	Location: <b>"Waldviertler Hof"</b> <b>Schoenbrunnerstrasse 20, 1050 Vienna</b>	
19:00--	Dinner	

## Tuesday, November 23, 2010

Location: Vienna University of Technology  
Favoritenstrasse 9, 2<sup>nd</sup> floor, 1040 Vienna)

### SCIENTIFIC AND TECHNICAL MEETING

09:00-09:45	<b>SESSION 6: Base Station and Mission Manager</b>	
	Base Station and GUI	Yvan Bourquin (Cyberbotics) [20 minutes]
	Mission Manager	Angela Ribeiro (CSIC-CAR) [20 minutes]
09:45-10:15	<b>SESSION 7: System breakdown and common equipment</b>	
Pablo Gonzalez-de-Santos (CSIC-CAR)		
10:15-10:30	<b>Coffee break</b>	
10:30-11:00	<b>SESSION 8: Review to work plan</b>	
	Current tasks and WPs Planning for deliverable D1	Pablo Gonzalez-de-Santos (CSIC-CAR)
11:00-11:30	<b>SESSION 9: Miscellaneous</b>	
	Real time communication and collaboration tools: Google APPS and TRAC	Michael Brandstoetter (CogVis) [20 minutes]
	Next meeting: Organising the meeting in Cordoba (Spain) hosted by CSIC-IAS in month 7 (February, 2011 )	Paquita Lopez-Granados (CSIC-IAS) [10 minutes]

### S&T BOARD MEETING

11:30-12:00	<b>Project follow-up Decision on crops for final demos</b>	S&T Board members
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12:00-13:30	<b>Lunch</b>	
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### S&T MEETING ON WP5 (Cont')

13:30-14:30	<b>SESSION 10:</b> Technical meeting proposed by the WP5 leader	Bart Missotten (Chair)
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