




IST 507427

SAFIR

Work Package 10.1.3

**6 Monthly Pilot “Field update of the URBIS Map”
Activity Report
(6 monthly Report)**

22/03/2006

	IST 507427 SAFIR	WP 10.1 - Monthly Progress Report	Organization : CIRB	
	Ref: D10.1.3_6M_Periodic Activity Report_v01 02_final	Version: 0.02 Date : 28/02/2006	Status : <i>Draft/Provisional/Final</i>	Page 2 of 14

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WPx_MPR_yymm_pn_vxx.rr.doc

Where


WPx stands for work package number x,
MPR means Monthly Progress Report,
yyymm 2 digits for the year, 2 digits for the month number,
pn 2 digits for the official consortium partner number,
vxx stands for version during the step of validation. Two digits for iteration (00 to n)
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Start the first release with the number V00.01

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Where

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1 Document History

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Version	Revision date	Summary of Changes	Organization	Name
00.01	28-02-2006	Original version	CIRB	S.LARIBI
00.02	03-03-2006	Internal review	CIRB	S.CIOCEA
01.02	18-04-2006	Executive summary, Introduction	CIRB	S.LARIBI

Approvals This document requires the following approvals.
Signed approval forms are filed in the project files.


Organization	Name	Signature	Date of Issue	Version

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Version	Confidentiality level
01	Only mentioned persons / Inside the WP / Inside the consortium / Public

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DEVIATIONS FROM PLAN OR OTHER PROBLEMS WITH CONTRACTUAL CONSEQUENCES

None.

Keywords: Professional User GIS UrbIS Field Update PWN(Path Way Network)
 Abstract: This document report facts occurred within the last 6 months for the WP10.1: Field update of the URBIS map (Brussels Pilot).


Main achievements: Internal validation of the project plan, the architecture and the functional requirements of the Brussels Pilot.
 Path Way Network (PWN) architecture definition and kick-off of phase II-Implementation.
 Presentation of the project at the CIRB Enterprise Day (>150 participants).

Progress in implementation of the WP10.1: An internal project plan was defined for the M31-M42 period and approved by the CIRB staff.
 A study was made to define which architecture is the more suitable for the pilot; an ESRI solution based on ArcPAD/ArcEditor/ArcSDE was proposed and approved. At the same time, a comparison of hardware solutions was made. The Fujitsu-Siemens ST5031 Tablet PC was selected as the more appropriate considering requirements and budget.
 An analysis detailing the functional requirements of the pilot (Detailed Use Cases) was made and approved.

The architecture of the PWN is done and approved. A first iteration of the PWN implementation is in progress for a selected area of the Brussels Region.

Pilot achievements for 2005 and expectations for 2006 were presented at the CIRB Enterprise Day and a video demonstration of the pilot was shown (>150 participants).
 A description of the SAFIR project and pilots demonstrations were added on the CIRB website.

Highlights for next reporting period: A technical analysis of the ESRI tools will precede the development of the pilot functionalities with the integrated Safir voice technology.
 A prototype of the PWN will be realized for a selected area of the Brussels Region in order to develop the pilot and other potential voice activated applications.
 The dissemination of the Safir voice technology will continue.

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1 Executive Summary

1.1 Introduction

The CIRB (Informatics Center of the Brussels Region), a public organization depending on the Brussels region, is responsible for the production and the distribution of the official map of the Brussels region.

“Brussels UrbIS” (Brussels Urban Information System) is a group of geographic and alphanumeric data of the Brussels-Capital Region. The mission of the CIRB is to maintain the data stored into the system in order to allow all the public services and all citizens of the region to access an up to date information. Fieldwork should then be undertaken to compare the work carried out in offices to reality and to enrich the database with objects that could not be added with photographs analysis.

The pilot objective is to modernize and improve the way the information is collected on the field through the use of the Safir voice technology. The pilot is included in the WP6 (Pilot preparation) and WP10 (Pilot implementation) in order to develop voice-activated applications for professional users.

In addition, the pilot will be used to evaluate, improve and disseminate (WP11) the Safir voice technology.

This deliverable reports the work made by the CIRB within the last 6 months for the realization of the Brussels Pilot - Field update of the URBIS map.

1.2 Pilot status and progression

Work Package	Period	Status
WP6.3 - Pilot Preparation	until M18	Done
WP10.1 - Pilot Implementation	M18-M48	In progress (Development)


The project progression during the last 6 months was in line with the plan and led to the internal validation of a project plan, the selection of the best hardware and software solutions, the definition of an architecture for the pilot and the specification of the functional requirements.

The PWN (Path Way Network) architecture was defined and its implementation for a selected area of the Brussels Region is currently in progress.

The CIRB Enterprise Day, which joined together more than 150 people, was an ideal opportunity to present the Safir voice technology and the pilot’s objectives for 2006. During this day, a video demonstration of the pilot using the voice technology was shown.

1.3 Conclusion

The project progression is in line with the plan. The detailed specifications were defined and the next six months will be devoted to the architecture installation and to an iterative implementation of the pilot functionalities including the Safir voice technology. At the same time, the PWN implementation of the selected area will continue in order to support the pilot and other potential applications using the voice technology.

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2 Introduction

2.1 Introduction

The Safir project, within the CIRB, is based on 3 objectives :

- The dissemination, the development and the evaluation of the Safir voice technology through mobile applications.
- The Implementation of the Brussels pilot - Field Update of the UrbIS map
- The implementation of a PWN (Path Way Network) that will be used as support for the development of the pilot and of other potential voice activated applications.

This document describes the functional and architectural specifications of the Brussels pilot - Field update of the URBIS map (WP10.1).

2.2 Objectives

The pilot will considerably improve the data update process on the field by reducing time and effort needed to achieve this task. The pilot will contribute to give access to up-to-date information to public services and citizens of the region through the UrbIS GIS system.

The main objectives of the pilot are:

- Evaluation of the Safir voice technology by professional users (but not familiar with computers) on the field.
- Process improvement of the data update on the field with a reduction of operational costs
- Data quality improvement of the UrbIS system
- Field operators security improvement, especially when working by car

2.3 Scope


The pilot includes the following points:

- Realization of a complete (hardware and software) UrbIS updating tool that can be used vocally by an operator on the field (deambulator) and which integrates the GPS (Global Positioning System) technology. A user guide and trainings will be provided in order to ease the use of the voice technology.
- Implementation of a synchronization system between the Field Update Tool and the UrbIS Production DataBase. This includes conflict management of concurrent modifications.
- Implementation of a PWN (Path Way Network) which will be used as support for the development of the pilot (PWN data field update).
- Evaluation of the voice technology, maintenance of the application and support.

2.4 Constraints

The pilot will take the following conditions into account:

- Runs on a mobile hardware (Tablet PC) which is compliant with an outdoor usage (rain, cold and shock resistant, high contrast screen...).
- Uses the Safir voice technology for ASR and TTS
- Shows added value of the use of voice interface (increase speed of input, reduce human attention time, reduce time to reach result)
- Uses a wireless differential microphone
- Must be as ergonomic as possible; users are not familiar with informatics (low or no experience with computer system).
- Will integrate a switchable GPS positioning technology; the GPS is actually not reliable in an urban environment (high buildings, narrow streets). The use of GPS must be seen as an optional functionality and will not be mandatory for the field data collection process.

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3 Overview

2.5 Objectives during period

Objectives	Progress towards achieving objectives
Kick-off of the Pilot implementation.	Definition and validation of the internal project plan, the architecture and the functionalities of the pilot. Architecture definition and implementation (in progress) of the PWN for a selected area of the Brussels Region.
Dissemination of the voice technology	Presentation of the Safir voice technology potential at the CIRB Enterprise Day. Update of the CIRB website with a description of the Safir project and with demonstrations (video and slides).

2.6 Milestones


Milestone	Planned date	Actual date	Comments
No milestones defined			

2.7 Deliverables

Deliverable Code & Name	Planned delivery date	Actual delivery date	Comments
(D10.1.1) Specifications of the Pilot Field update of the URBIS map	20/01/06	28/02/06	
(D10.1.2) Pilot Plan Field update of the URBIS map	14/04/06	28/02/06	
(D10.1.3.1) 6 Monthly Report	28/02/06	28/02/06	Current document

2.8 Deviations from Plan

See next chapter.

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2.9 Other (eg changes to personnel mentioned in the description of work, ...)

Causes and Description	Corrective actions
F.Foeliex, project leader of the pilot, left the CIRB on 31/08/05.	S.Laribi was recruited on 01/10/05 in order to complete this function (one month gap affecting planning and effort)

3 Contractual Arrangements

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4 Project Meetings

4.1 Held and foreseen in Project Programme


Title	Date	Place	Participants from project	Main conclusions
WP8/WP14 Kick-Off, Safir progress review	27,28/10	Brussels (VI)	All	
Internal validation: Project Plan, functional requirements and architecture.	from nov.05 to feb.06	CIRB	CIRB	
Determination of the most suitable software for the pilot	19/01/06	Brussels (VI)	CIRB, VI	ESRI solution based on ArcPAD
CIRB Enterprise Day	27/01/06	Brussels	CIRB	Safir voice technology demonstration

4.2 NOT held and foreseen in Project Programme

Title	Date	Place	Participants from project	Main conclusions

4.3 Held and NOT foreseen in Project Programme

Title	Date	Place	Participants from project	Main conclusions

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5 Dissemination / Promotional Information

5.1 Conferences and/or Workshops attended/organised/foreseen by the project


Date	Title	Number of persons attended + other information
27/01/2006	CIRB Enterprise Day – SodeHotel Brussels	>150 persons (e-gov representatives, staff, managers, accounts...). Video demonstration of the pilot with voice technology, Project progression and objectives for 2006.

5.2 Articles Published , Press coverage, development web sites, etc.

Date and Type	Details
09/02/2006 – CIRB website update	Update of the CIRB website with a description of the SAFIR project. A video demonstration of the Brussels Pilot was created and is available online. (http://www.cirb.irisnet.be/site/fr/departements/telemat/Projet_en_cours/safir)

6 Main results

Description	Details
Patents, Software prototypes, systems specifications, PhDs,...	
Functional and architectural specification of the pilot	Detailed use cases describing the pilot functionalities. Specification of the general architecture based on ESRI products ArcPAD, ArcGIS and ArcSDE.
Hardware selection for the pilot	Comparison of different hardware solutions for the data collection on the field. The Fujitsu-Siemens ST5031 Tablet PC (with harsh case) was selected as the more appropriate for the requirements.
Internal Project Plan (French)	Description of the pilot context and scope, definition of the deliverables and milestones, effort estimation and resources allocation.
Video Demonstration	A video demonstration of the pilot exposing the creation of a tree in UrbIS with the Safir voice interface. (http://www.cirb.irisnet.be/site/fr/departements/telemat/Projet_en_cours/Files/Safir_video_demo)
Architecture specification of the PWN (Path Way Network)	Definition of a PWN data structure for the Brussels Region as support for pilot and other potential voice activated applications.

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7 Project Effort

Effort for the reporting period (person days) (1)					
Contractor designation + short name	Names of Staff (mandatory) (2)	WP 6.3	WP 10.1	Total	EC Founded
(17)CIRB	S.Laribi	21	61,24	82,24	Y
(17)CIRB	S.Ciocea	4,5	5,36	9,86	N
(17)CIRB	F.Du Mortier	0,26	0,2	0,46	N
(17)CIRB	C.Hannecart	0	0,63	0,63	N
(17)CIRB	G.Charlot	0,13	1,28	1,41	N
Total		25,89	68,71	94,6	

Cumulative Effort to-date (person days) (1)								
Contractor designation +short name	Names of staff (mandatory) (2)	WP 6.3		WP 10.1		Total		EC Founded
		P	A	P	A	P	A	
(17)CIRB	F.Foeliex	101	80,74	0	0	-	80,74	Y
(17)CIRB	S.Laribi (3)	-	21	90	61,24	-	82,24	N
(17)CIRB	S.Ciocea	-	37,61	10	5,36	-	42,97	N
(17)CIRB	F.Du Mortier	-	0,52	1	0,2	-	0,72	N
(17)CIRB	C.Hannecart	-	0,73	1	0,63	-	1,36	N
(17)CIRB	G.Charlot	-	3,85	2	1,28	-	5,13	Y
Total		-	144,45	104	68,71	-	213,16	


P: planned

A: actual

(1) the actual figures used in the different Monthly/ Quarterly / Six monthly Reports will be reported in the Cost Statements.

(2) Staff names + categories MUST be given on Cost Statements

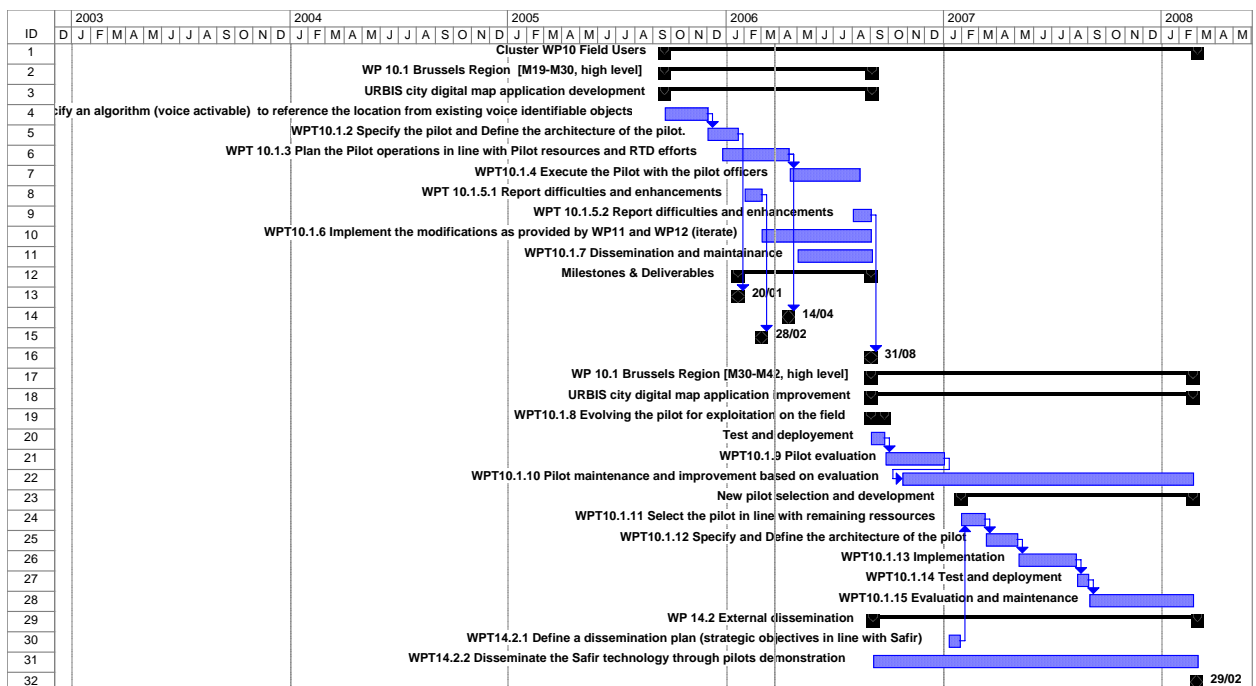
(3) F.Foeliex, project leader of the pilot, left the CIRB on 31/08/05. S.Laribi was recruited on 01/10/05 in order to complete this function (one month gap).


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8 Project Plan

8.1 Global pilot plan for M19-M48 period

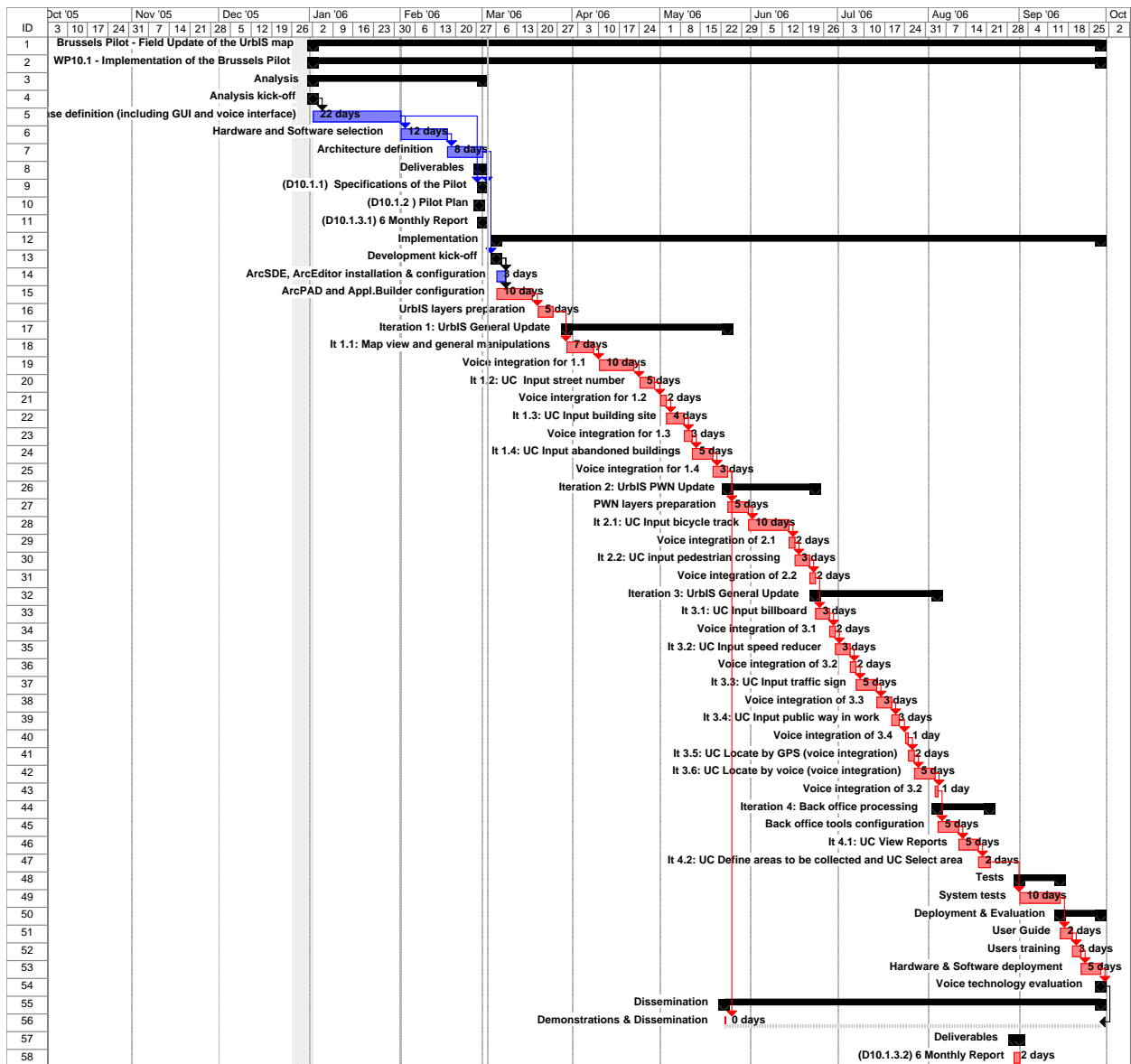
ID	Task Name	Start	Finish
1	Cluster WP10 Field Users	Mon 19/09/05	Fri 29/02/08
2	WP 10.1 Brussels Region [M19-M30, high level]	Mon 19/09/05	Fri 1/09/06
3	URBIS city digital map application development	Mon 19/09/05	Fri 1/09/06
4	WPT10.1.1 Specify an algorithm (voice activable) to reference the location from existing voice identifiable objects.	Mon 19/09/05	Wed 30/11/05
5	WPT10.1.2 Specify the pilot and Define the architecture of the pilot.	Thu 1/12/05	Fri 20/01/06
6	WPT 10.1.3 Plan the Pilot operations in line with Pilot resources and RTD efforts	Mon 26/12/05	Fri 14/04/06
7	WPT10.1.4 Execute the Pilot with the pilot officers	Mon 17/04/06	Fri 11/08/06
8	WPT 10.1.5.1 Report difficulties and enhancements	Wed 1/02/06	Tue 28/02/06
9	WPT 10.1.5.2 Report difficulties and enhancements	Tue 1/08/06	Thu 31/08/06
10	WPT10.1.6 Implement the modifications as provided by WP11 and WP12 (iterate)	Wed 1/03/06	Thu 31/08/06
11	WPT10.1.7 Dissemination and maintenance	Mon 1/05/06	Fri 1/09/06
12	Milestones & Deliverables	Fri 20/01/06	Thu 31/08/06
13	(D10.1.1) Specifications of the Pilot Field update of the URBIS map	Fri 20/01/06	Fri 20/01/06
14	(D10.1.2) Pilot Plan Field update of the URBIS map	Fri 14/04/06	Fri 14/04/06
15	(D10.1.3.1) Field update of the URBIS map (6 Monthly Report)	Tue 28/02/06	Tue 28/02/06
16	(D10.1.3.2) Field update of the URBIS map (6 Monthly Report)	Thu 31/08/06	Thu 31/08/06
17	WP 10.1 Brussels Region [M30-M42, high level]	Fri 1/09/06	Fri 22/02/08
18	URBIS city digital map application improvement	Fri 1/09/06	Fri 22/02/08
19	WPT10.1.8 Evolving the pilot for exploitation on the field	Fri 1/09/06	Fri 22/09/06
20	Test and deployment	Fri 1/09/06	Fri 22/09/06
21	WPT10.1.9 Pilot evaluation	Mon 25/09/06	Mon 1/01/07
22	WPT10.1.10 Pilot maintenance and improvement based on evaluation	Tue 24/10/06	Fri 22/02/08
23	New pilot selection and development	Mon 29/01/07	Fri 22/02/08
24	WPT10.1.11 Select the pilot in line with remaining resources	Mon 29/01/07	Fri 9/03/07
25	WPT10.1.12 Specify and Define the architecture of the pilot	Mon 12/03/07	Fri 4/05/07
26	WPT10.1.13 Implementation	Mon 7/05/07	Fri 10/08/07
27	WPT10.1.14 Test and deployment	Mon 13/08/07	Fri 31/08/07
28	WPT10.1.15 Evaluation and maintenance	Mon 3/09/07	Fri 22/02/08
29	WP 14.2 External dissemination	Mon 4/09/06	Fri 29/02/08
30	WPT14.2.1 Define a dissemination plan (strategic objectives in line with Safir)	Mon 8/01/07	Fri 26/01/07
31	WPT14.2.2 Disseminate the Safir technology through pilots demonstration	Mon 4/09/06	Fri 29/02/08
32	M48 - Project End	Fri 29/02/08	Fri 29/02/08



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8.2 Detailed implementation plan for M23-M30 period

ID	Task Name	Start	Finish
1	Brussels Pilot - Field Update of the UrbIS map	Mon 2/01/06	Thu 28/09/06
2	WP10.1 - Implementation of the Brussels Pilot	Mon 2/01/06	Thu 28/09/06
3	Analysis	Mon 2/01/06	Tue 28/02/06
4	Analysis kick-off	Mon 2/01/06	Mon 2/01/06
5	Use Case definition (including GUI and voice interface)	Mon 2/01/06	Tue 31/01/06
6	Hardware and Software selection	Wed 1/02/06	Thu 16/02/06
7	Architecture definition	Fri 17/02/06	Tue 28/02/06
8	Deliverables	Tue 28/02/06	Tue 28/02/06
9	(D10.1.1) Specifications of the Pilot	Tue 28/02/06	Tue 28/02/06
10	(D10.1.2) Pilot Plan	Tue 28/02/06	Tue 28/02/06
11	(D10.1.3.1) 6 Monthly Report	Tue 28/02/06	Tue 28/02/06
12	Implementation	Mon 6/03/06	Thu 28/09/06
13	Development kick-off	Mon 6/03/06	Mon 6/03/06
14	ArcSDE, ArcEditor installation & configuration	Mon 6/03/06	Wed 8/03/06
15	ArcPAD and Appl.Builder configuration	Mon 6/03/06	Fri 17/03/06
16	UrbIS layers preparation	Mon 20/03/06	Fri 24/03/06
17	Iteration 1: UrbIS General Update	Thu 30/03/06	Tue 23/05/06
18	It 1.1: UC Input data on the field and UC select object type to input (map view and general manipulations)	Thu 30/03/06	Fri 7/04/06
19	Voice integration for 1.1	Mon 10/04/06	Fri 21/04/06
20	It 1.2: UC Input street number	Mon 24/04/06	Fri 28/04/06
21	Voice integration for 1.2	Mon 1/05/06	Tue 2/05/06
22	It 1.3: UC Input building site	Wed 3/05/06	Mon 8/05/06
23	Voice integration for 1.3	Tue 9/05/06	Thu 11/05/06
24	It 1.4: UC Input abandoned buildings	Fri 12/05/06	Thu 18/05/06
25	Voice integration for 1.4	Fri 19/05/06	Tue 23/05/06
26	Iteration 2: UrbIS PWN Update	Wed 24/05/06	Thu 22/06/06
27	PWN layers preparation	Wed 24/05/06	Tue 30/05/06
28	It 2.1: UC Input bicycle track	Wed 31/05/06	Tue 13/06/06
29	Voice integration of 2.1	Wed 14/06/06	Thu 15/06/06
30	It 2.2: UC input pedestrian crossing	Fri 16/06/06	Tue 20/06/06
31	Voice integration of 2.2	Wed 21/06/06	Thu 22/06/06
32	Iteration 3: UrbIS General Update	Fri 23/06/06	Thu 3/08/06
33	It 3.1: UC Input billboard	Fri 23/06/06	Tue 27/06/06
34	Voice integration of 3.1	Wed 28/06/06	Thu 29/06/06
35	It 3.2: UC Input speed reducer	Fri 30/06/06	Tue 4/07/06
36	Voice integration of 3.2	Wed 5/07/06	Thu 6/07/06
37	It 3.3: UC Input traffic sign	Fri 7/07/06	Thu 13/07/06
38	Voice integration of 3.3	Fri 14/07/06	Tue 18/07/06
39	It 3.4: UC Input public way in work	Wed 19/07/06	Fri 21/07/06
40	Voice integration of 3.4	Mon 24/07/06	Mon 24/07/06
41	It 3.5: UC Locate by GPS (voice integration)	Tue 25/07/06	Wed 26/07/06
42	It 3.6: UC Locate by voice (voice integration)	Thu 27/07/06	Wed 2/08/06
43	Voice integration of 3.2	Thu 3/08/06	Thu 3/08/06
44	Iteration 4: Back office processing	Fri 4/08/06	Mon 21/08/06
45	Back office tools configuration	Fri 4/08/06	Thu 10/08/06
46	It 4.1: UC View Reports	Fri 11/08/06	Thu 17/08/06
47	It 4.2: UC Define areas to be collected and UC Select area	Fri 18/08/06	Mon 21/08/06
48	Tests	Fri 1/09/06	Thu 14/09/06
49	System tests	Fri 1/09/06	Thu 14/09/06
50	Deployment & Evaluation	Fri 15/09/06	Thu 28/09/06
51	User Guide	Fri 15/09/06	Mon 18/09/06
52	Users training	Tue 19/09/06	Thu 21/09/06
53	Hardware & Software deployment	Fri 22/09/06	Thu 28/09/06
54	Voice technology evaluation	Thu 28/09/06	Thu 28/09/06
55	Dissemination	Tue 23/05/06	Thu 28/09/06
56	Demonstrations & Dissemination	Tue 23/05/06	Thu 28/09/06
57	Deliverables	Wed 30/08/06	Thu 31/08/06
58	(D10.1.3.2) 6 Monthly Report	Wed 30/08/06	Thu 31/08/06



Use cases (UC) are described in the D10.1.1 *Specifications of the pilot* Deliverable.