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## **Intelligent Infrastructure Working Group Minutes 29 April 2010**

### **0 Attendees (in alphabetical order)**

Tom **Alkim** (RWS-DVS), Jozef **Cammaerts** (MOWV), Rui **Camolino** (ASECAP), Marie-Pauline **Desset** (ASECAP), Stefanos **Gouvras** (DG INFSO), Eric **Kenis** (DG MOVE), Melanie **Kloth** (POLIS), Paul **Kompfner** ( Ertico, CVIS), Mark **Jandrisits** (ASFINAG), Eline **Jonkers** (TNO), Paul **van der Kroon** (CEDR), Risto **Kulmala** (VTT), Frans **Op De Beek** (TNO), Gloria **Pellischek** (ERPC GmbH), Wolfgang **Reinhardt** (ACEA), Ari **Sorsaniemi** (DG INFSO),

**Co-Chairs:** Paul **van der Kroon** (CEDR), Rui **Camolino** (ASECAP)

**Minutes:** Marie-Pauline **Desset** (ASECAP), Rui **Camolino** (ASECAP)

**Apologies:** Stefan **Deix** (FEHRL/AIT), Nele **Dedene** (Afdeling Verkeerscentrum), Olivier **Lenz** (FIA), Philippe **Lepert** (FEHRL/LCPC), René **Moser** (ASECAP), Reinhard **Pfliegl** (AustriaTech)

### **1 Opening and Acknowledgements**

The eighth meeting of the eSafety Intelligent Infrastructure Working Group (IIWG) was held at ERTICO Premises, Brussels (29 April 2010) under the chairmanship of Paul van der Kroon (CEDR) and Rui Camolino (ASECAP).

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## 2 Approval of the Agenda

PK briefly reviewed the draft agenda that was approved as previously distributed:

1. Opening
2. Acknowledgements
3. Approval of the Draft Agenda
4. Approval of the draft Minutes of 7<sup>th</sup> Meeting on 18 February
5. General Comments on draft report version 0.3
6. Comments on existing Chapters (1,2,3 and 4)
  1. Introduction;
  2. Objective of this report;
  3. The IIWG
  4. The definition of II
7. Comments on revisited Chapters (5,6,7,8 and 9)
  5. Identification of Intelligent Infrastructure related services
  6. Added value of Intelligent Infrastructure
  7. Road categories and related services per category
  8. (Basic) requirements for Intelligent Infrastructure services
  9. Current roadside infrastructure
8. Comments on new created Chapters (10 and 11)
  10. The Intelligent Vehicle
  11. Architecture, protocols and standards
9. General discussion on recommendation: (to whom?)
10. Discussion on Chapter 12
  - ✓ Services
  - ✓ Technologies
  - ✓ Business models
  - ✓ Value network
  - ✓ Assessment
  - ✓ Development and implementation
11. General remarks on the Annexes
12. Next meetings (depending from Steering Committee dates)
- 13.AOB
- 14.Meeting closing

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### **3 Approval of the draft Minutes**

The members confirmed the receipt of the minutes of the previous meeting held on 18 February 2010. The minutes were passed through with no amendments and approved as presented.

All open agreed tasks of the previous meeting have been reviewed and given as completed.

### **4. General Comments on draft report version 0.3**

Risto Kulmala (RK) pointed out that the report was completely changed compared to the last version.

In the future, members are asked to formulate the upcoming textual remarks or recommendations in a written form.

RK gave an overview of the main modifications in the report:

**Chapter 1 till 4** remains the same, reflecting however the previous remarks and a mention to the editing team;

**Chapter 5**, previously written by different persons, has been rearranged by only one writer for more coherence;

**Chapter 6** is a compilation of results; the text has been condensed;

**Chapter 7** provides similar approach for urban road and non urban roads and how to link them to II services;

**Chapter 8:** Some parts have been moved to the new chapter 11 (architecture part). The chapter compiles and interprets some requirements and users' points of views.

**Chapter 9:** Addition of new contents and structural view on the subject, an input still need to be added: an urban example;

**Chapter 10:** The input of Wolfgang Reinhardt (WR) has been condensed, the table disappeared but remains as a reference;

**Chapter 11:** Major changes have been made to this chapter, as this part includes now previous chapter as sub chapters.

**Chapter 12:** This part focuses on the recommendations.

On this basis, no other remarks have been addressed by the group. PK concluded that members agreed on this new version.

### **5. Comments on existing Chapters (1,2,3 and 4)**

**Chapter 1:** Introduction: no remarks

**Chapter 2:** Objective of this report: Point 2.3: still under construction

**Chapter 3:** the IIWG: The pictures at the end of the chapter still missing (ASECAP)

Point 3.2: The stakeholders list will be completed by Mélanie Kloth (MK) (cities) and by RC (universities).

**Chapter 4:** The definition of II: SG suggested to include key words aiming the Future Internet PPP – Alliance and convergence (to be integrated in pg.14 2<sup>nd</sup> and 3<sup>rd</sup> bullet points).

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## 6. Comments on revisited Chapters (5,6,7,8 and 9)

### **Chapter 5:** Identification of Intelligent Infrastructure related services

Tom Alkim (TA) noticed that slippery roads should be added to local hazard warning in the list of services. Gloria Pellischek (GP) suggested that a list of Services for Electric Vehicles should be included as it was done within the SRA Strategic Research Agenda, this might be included in a subchapter dedicated to emerging services.

### **Chapter 6:** Added value of Intelligent Infrastructure

TA recalled to take into account the lifetime of roadside VII (15 years), he also asked to specify the IIWG perspective, to what PK answered that at this stage the report gathers information, the interpretation phase will come later, by chapter.

Regarding point 6.2, WR advise as well that dimension of energy efficiency, CO2 and fuel reduction should be referred mentioning their inter-relation, and the positive impact II will have on it.

Marko Jandrisits (MJ) will provide some figures to illustrate the impact on users in terms of safety.

### **Chapter 7:** Road categories and related services per category

MK noticed that truck parking's are not really clear for urban area, this should be specified below the table. Intersection safety and pedestrian detection should be included as well.

SG suggested that residential roads should not be included for passing traffic and traffic information services should respect it.

The statement "no traffic flow or safety problems" in 1st table should be removed.

PK concluded on the fact that the classification might be difficult to understand: some services are area services not specific for the type of road. The classification will be analyzed further, the table might be reorganized.

### **Chapter 8:** (Basic) requirements for Intelligent Infrastructure services

RK recalled that use of 5.9 GHz spectrum needs authorization at some Member States including in some cases the payment of a license fee, like in Belgium. The report should therefore mention some legal aspects on authorization needed for such utilization.

WR and GP will indicate in 2 weeks any special requirements from automotive industry and electric vehicle.

Regarding the point 8.2, it appeared that presenting some business models would be an asset, MJ, PK and GP will provide information on this within 2 weeks as well.

### **Chapter 9:** Current (intelligent) roadside infrastructure

MK regretted the lack of objective on point 9.3, and asked to rethink the text, she will provide some recommendations.

PK made some comments on point 9.2 on test site Helmond that could be a little bit more elaborated: separating more definitive part from the other just for showcase more temporary.

WR commented on point 9.5 that should raise the question of financing the intelligent infrastructure, maybe via tolling by the state. SG also mentioned PPPs schemes on this matter.

EK suggested that for one or two services the report should show how it can be implemented as a case study. The group could provide a follow up of the report afterwards, presenting some deployment strategies, this proposal could appear in the recommendations.

SG proposed some clarifications on point 9.4, 2nd and 4th paragraphs, (cloud computing – infrastructure, internet, platform and software as services), he will provide a text.

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## **7. Comments on new created Chapters (10 and 11)**

### **Chapter 10: The Intelligent Vehicle**

The discussion highlighted the fact that there is confusion among autonomous and cooperative systems. WR suggested to include a map or a chart at least to provide some references.

### **Chapter 11: Architecture, protocols and standards**

Presentation from Soeren Hess on standardization should be added to the report.

According to contact of RC with Jan Tierolf, the approach presented in last meeting for the architecture is in line with e-FRAME developments.

- **General discussion on recommendation: (to whom?)**
- Discussed under point 9.

## **8. Discussion on Chapter 12**

After a brainstorming session, it has been agreed that all stakeholders will provide recommendations to be integrated in the report by the 21<sup>st</sup> May:

Automotive Rec.: WR

Cities, mainly, and regions: MK

Private Motorway Operators: MJ

Public and Operators: TA and JC

EC: SG and AS

ERTICO: research and academia

Users: FIA

Telecom Operators and Service Providers: ?

In parallel, MJ suggested to include results of Car2X and EASYWAY Workshops 2009 and 2010.

The results of the ELSA workshops of 31st March and 28th April should also be used.

## **9. General remarks on the Annexes**

EJ and TA should be added in the member list, the list of organisation should be sorted out by alphabetical order.

## **10. Next meetings (depending from Steering Committee dates)**

For next meeting, to be held at Ertico premises, a Doodle will be launch proposing some dates.

## **11. Any other business**

RK reminded the workshop of EASYWAY and Pre-Drive to be held on 11 June.

## **12. Meeting closing**

The meeting closed at 15:30. The present draft minutes were made by Marie-Pauline Desset (ASECAP) in collaboration with Rui Camolino and issued with the approval of the 2 Co-Chairmen, then transmitted to all the IIWG members.

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### List of agreed tasks

Chapter 3	Provide picture/chart of the objectives	<b>ASECAP</b>
Subchapter 3.2	Include cities	<b>Melanie Kloth</b>
	Include universities	<b>Rui Camolino</b>
Chapter 5	Provide a list of services for electric vehicles	<b>Gloria Pellischek</b>
	Add subchapter on emerging services?	<b>Eline Jonkers</b>
Chapter 6	Provide figures of impact on users' safety	<b>Marko Jandrisits</b>
Chapter 8	Provide special requirements from automotive industry and electric vehicles.	<b>Gloria Pellischek; Wolfgang Reinhardt</b>
Subchapter 8.2	Provide business models	<b>Gloria Pellischek; Marko Jandrisits; Paul van der Kroon</b>
Subchapter 9.3	Provide recommendations on how redraft the text	<b>Melanie Kloth</b>
Subchapter 9.4	Provide text to add/redraft in 2 <sup>nd</sup> and 4 <sup>th</sup> paragraphs	<b>Stefanos Gouvras</b>
Chapter 12	Provide recommendations regarding the stakeholders' core action	<b>ALL</b>