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## Intelligent Infrastructure Working Group Minutes 18 February 2010

### 0. Attendees (in alphabetical order)

Rui **Camolino** (ASECAP), Gino **Franco** (MIZAR), Stefanos **Gouvras** (DG INFSO), Bengt **Hallstrom** (SRA), Suzanne **Hoadley** (POLIS), Marko **Jandrisits** (ASFINAG), Eline **Jonkers** (TNO), Paul **van der Kroon** (CEDR), René **Moser** (ASECAP), Frans **Op De Beek** (TNO), Luís **Osório** (ISEL), Gloria **Pellischek** (ERPC GmbH), Wolfgang **Reinhardt** (ACEA), Fabio **Ricci** (SINA)

**Chair:** Paul **van der Kroon** (CEDR), Rui **Camolino** (ASECAP)

**Minutes:** René **Moser** (ASECAP)

**Apologies:** Tom **Alkim** (RWS-DVS), Stefan **Deix** (FEHRL/AIT), Nele **Dedene** (Afdeling Verkeerscentrum), René **Jacobs** (FEHRL/BRRC), Melanie **Kloth** (POLIS), Olivier **Lenz** (FIA), Philippe **Lepert** (FEHRL/LCPC), Reinhard **Pfliegl** (AustriaTech)

### 1. Opening and Acknowledgements

The seventh meeting of the eSafety Intelligent Infrastructure Working Group (IIWG) was held at ERTICO Premises, Brussels (18 February 2010) under the chairmanship of Paul van der Kroon (CEDR) and Rui Camolino (ASECAP).

Eline Jonkers (TNO) was introduced as new member of the IIWG, supporting Paul van der Kroon and Frans Op De Beek in preparing the final report.

Stefanos Gouvras (SG) briefly summarised the news concerning DG TREN. The Directorate General dealing with Transport policy is now called Directorate General for Mobility and Transport, DG MOVE. For energy issues a new Directorate General has been created: DG Energy (ENER). Besides the separation from Energy and the new name, DG MOVE is also reorganising its services. SG further informed that Mr. Edgar Thielmann is no longer working for DG TREN/ MOVE. In addition, Willy Maes retired at the end of 2009. It was agreed that **the chairmen will contact DG MOVE** to talk about a new representative.

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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 Agenda
4. Approval of the draft Minutes
5. Document Chapter discussion
  - a. Identification of Intelligent Infrastructure related services
  - b. Added value of Intelligent Infrastructure
  - c. Road categories and related services per category
  - d. (Basic) requirements for Intelligent Infrastructure services
  - e. Current roadside infrastructure
  - f. The Intelligent Vehicle
  - g. IT architecture
  - h. Communication & Protocols
  - i. Specification and standards
  - j. Recommendations for the deployment of II services
  - k. Relevant developments and projects
6. Lunch
7. Conclusions and verification of final report timings
8. Next meetings (depending from Steering Committee dates)
9. AOB
10. Meeting closing

## 3. Approval of the draft Minutes

The members confirmed the receipt of the minutes of the previous meeting held on 16 December 2009. The minutes were passed through with no amendments and approved as presented.

State of play of agreed tasks:

Identification of II related services (incl. quality)	Stefan Deix: Fehrl list Frans op de Beek: new table	Done, it was presented later.
Added Value of the Intelligent Infrastructure / cooperative systems	René Jacobs: CVIS Tom Alkim: Safespot Marko Jandrisits: COOPERS Willy Maes: US Stefanos Gouvras: Ideas Gloria Pellischek: Electric Vehicles Frans op de Beek: integration	Done Open task Done Done Will be submitted soon Done Ongoing
Road categories	Melanie Kloth: urban Risto Kulmala: rest	Done Done (available on the eSafety Support website)

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Basic Requirements	Tom Alkim: contacting Han Zwijnenberg René Jacobs: CVIS Marko Jandrisits: COOPERS Tom Alkim: document about standards	Open task  Done Done Open task
Current roadside infrastructure	Marko Jandrisits	Done
The Intelligent Vehicle	Wolfgang Reinhardt ??	Agreed, but further details requested
IT architecture	Luis Osório	Done, it was presented later.
Communication Supports & Protocols		First input received from Bengt Hallstrom
Recommendations for the deployment of Intelligent Infrastructure services	Chairmen	Ongoing
Relevant developments and projects	René Moser: List	Done

#### 4. Document chapter discussion

Paul van der Kroon (PK) informed that Frans Op De Beek (FB) and Eline Jonkers (EJ) have included all information received so far in the present document (Draft v0.12). He proposed to go through the document chapter by chapter, starting from chapter 5. **Remarks concerning chapters 1 to 4 should be sent per e-mail to EJ ([eline.jonkers@tno.nl](mailto:eline.jonkers@tno.nl)), copying PK, Rui Camolino (RC) and FB.**

PK asked the participants to highlight important paragraphs but also to indicate paragraphs to be shortened/ synthesised.

It was agreed that **information taken from other projects** should not be modified, but kept in original wording. IIWG members are requested to **add their own conclusion** in front or at the end of such information. This is especially important if different recommendations (from different projects) occur. **The final document must reflect the opinion of the IIWG and provide clear recommendations!**

##### a. Chapter 5 - Identification of Intelligent Infrastructure related Services

###### Sub-chapter 5.1 – Selected services

FB was invited to present the results of the questionnaire. 19 experts have returned their feedback; 11 from National Road Administrations (NRAs) and 8 from non NRAs.

As a result FB proposed to split the services in a) services which are important for more than 80% of the experts and b) in services which are important for less than 80% of them. Further discussions should focus on services included in a). The **detailed results will be submitted by FB** to the IIWG members.

Based on the presentation of FB, Gloria Pellischek (GP) asked about services for Electric Vehicles. It was agreed that these services will gain importance and that they should be included too.

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Furthermore, it was agreed that **FB will propose a separation in existing services, future services and long-term services.** Input concerning services for Electric Vehicles will be provided by GP.

Concerning the service table included in the document Wolfgang Reinhardt (WR) added that it would be necessary to include also sub-responsibilities and stakeholders. It was agreed to indicate this as a future task. Further, **one service will be detailed as example by FB.**

### **Sub-chapter 5.2 – Level of services**

Marko Jandrisits (MJ) stated that the level of service should be linked to the road categories. The same approach has been chosen within EASYWAY. The appropriate document of EASYWAY is expected in about 5 weeks. It was agreed to build-up the chapter on the expected information from EASYWAY.

WR added that Electric Vehicles should also be taken into account.

WR further proposed to **group the services** to make it easier to read them, e.g. traffic management services, safety related services. The proposal was agreed, **FB will prepare a draft.**

Concerning the need for Intelligent Infrastructure Suzanne Hoadley (SH) added that Intelligent Infrastructure (II) has the aim to support policy, focusing on: congestion, safety and environment. It is crucial to know exactly the **impact of II** on these aspects. **FB proposed to include these aspects as an own (sub-)chapter. MJ will submit information from COOPERS about “benefits for users”.**

Wolfgang Reinhardt (WR) added that it would be very interesting to have something like a **3-dimensional “chart” illustrating the services:**

- Dimension a → policy: congestion, safety, environment
- Dimension b → urban, rural, highway
- Dimension c → service timeline

The chairs invited the participants to come up with proposals for this illustration.

Finally, it appeared that the urban perspective is somehow underestimated in the current list of services. Additional information from urban areas is welcome.

### **b. Chapter 6 – Added Value of Intelligent Infrastructure**

SH raised the question if chapter 6 is focusing on current or future Intelligent Infrastructure? It was agreed, that both dimensions should be covered as chapter 6 mainly addresses high-level decision makers.

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### **Sub-chapter 6.1 – Which problems does it solve/ which barriers to overcome?**

The headline above is not reflected in the text following. Either the headline or the text should be modified. Concerning the text itself, **input from CVIS and Safespot** is missing. It should also be checked if the current **FP7 call** could provide input. SH mentioned the “**Convince**” **project** where Polis is involved. Further the **project 2DECIDE**, lead by AustriaTech was mentioned.

FB and EJ will update the sub-chapter based on agreed information.

#### **Sub-chapter 6.1.1 – Electric Vehicles**

It was agreed that the reflection on Electric Vehicles should be spread over the document instead of having one chapter in itself. In addition an introductory chapter will be added. Intelligent **Infrastructure requirements for Electric Vehicles will be provided by Gloria Pellischek (GP)**.

It was agreed that the term Electric Vehicle is not limited to cars.

Moreover, the WG reflected on the opportunity to support/ protect also vulnerable road users (e.g. pedestrians, cyclists) by Intelligent Infrastructure.

#### **Sub-chapter 6.2 – Impact assessment of II services (congestion, safety, environment) – Cost/Benefits**

PK asked the participants to focus on the following questions:

- Is any additional information needed?
- Which paragraphs should be highlighted (are most important)?
- Which paragraphs could be shortened?

It was agreed, that **comments will be sent per e-mail to Eline Jonkers (EJ)**, copying PK, RC and FB.

SH added that references to Comitology must be adapted according the Lisbon treaty.

### **c. Chapter 7 – Road categories and related services per category**

#### **Sub-chapter 7.1 – Categorisation of urban roads**

Concerning road categorisation it was discussed that the categorisation for urban roads and motorways is not the same.

Concerning the categories from EASYWAY Marko Jandrisits (MJ) proposed to keep them as they are as they are already approved. It was agreed that **Frans Op De Beek (FB) will match the services with the existing road categories**. Based on the result further actions (e.g. clustering of road categories) should be decided.

### **d. Chapter 8 – (Basis)Requirements for Intelligent Infrastructure Services**

#### **Sub-chapter 8.1 – At the level of functional requirements**

It was agreed, that **feedback, how to shorten this chapter, will be sent per e-mail to Eline Jonkers (EJ)**, copying PK, RC and FB.

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**e. Chapter 9 – Current Roadside Infrastructure**

**Sub-chapter 9.1 – What is already available**

Marko **Jandrisits** (MJ) will provide pictures related to that chapter.

Suzanne **Hoadley** (SH) will provide information about urban roads/ areas.

**Sub-chapter 9.2 – Issues with current infra/Identification of problems**

**AND**

**Sub-chapter 9.3 – How to grow to Intelligent**

Following documents/ information shall be taken into consideration:

- Handbook from Polis → provided by Suzanne Hoadley (SH)
- Maps from meeting with EC
- Telecommunication coverage
- Floating Car Data → who should pay for the information sent from Vehicles to Infrastructure?

**Bengt Hallstrom** (BH) will provide a draft and send it to the road operators/ NRAs for comments.

**f. Chapter 10 – The Intelligent Vehicle**

It was agreed that **Wolfgang Reinhardt** (WR) provides input for this chapter until **17 March** 2010 (draft); no contacts so far with the C2C consortium.

*Lunch*

**g. Chapter 11 – IT Architecture**

RC and Luís Osório (LO) presented a proposal (the presentation will be put on the eSafety Support website) to enhance this chapter. It was agreed that **the proposal should be simplified** and matched with the existing input. Afterwards the “new” IT Architecture should be “tested” on existing projects (COOPERS, CIVIS, Safespot) to evaluate its pros and cons.

Suzanne Hoadley (SH) mentioned in addition the **CityMobil project** which focuses on architectures for urban regions. **Information** about the project **will be provided by SH.**

**h. Chapter 12 – Communication & Protocols**

**Bengt Hallstrom** (BH) will ask the group of **Theo Kamalski** (Nomadic Devices Forum) for input. Gino Franco (GF) proposed to support BH. As basis for further activities FB forwards the latest version of the table of communication & protocols which was established in addition to the table of services to BH and GF.

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**i. Chapter 13 – Specification and Standards**

Within the next weeks an agreement between TEN TC and ETSI about Specification and Standards in the context of the ITS Directive is expected. Tom Alkim (TO) will be asked to inform the group at the next meeting.

**j. Chapter 14 – Recommendations for the Deployment of II Services**

It was agreed, that the chairs will provide a first draft for this chapter for the next meeting.

**5. Verification of final report timings**

The following timing was agreed:

March 2010	Outline report to the SC
June 2010	Discussion of the 1 <sup>st</sup> draft within the IIWG
Oct. 2010	Final draft to be sent to the eSafety Forum

**6. Next meetings**

- 17 March 2010                      10.00-16.00hrs
- 29 April 2010                        10.00-15.00hrs
- 21 June 2010                         14.30-17.30hrs
- 20 September 2010                14.30-17.30hrs
- 08 December 2010                10.00-16.00hrs

**7. Any other business**

Based on the question of Wolfgang Reinhardt (WR), if the IIWG has ever taken into account links between Intelligent Infrastructure and Logistics, it was stated that iCar Semantic Network has a chapter about Fleet Management.

**8. Meeting closing**

The meeting closed at 15:00.

The present draft minutes were made by René Moser (ASECAP) and issued with the approval of the 2 Chairmen, then transmitted to all the IIWG members.

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**List of agreed tasks** (open tasks from the 6<sup>th</sup> meeting are included):

Contact DG MOVE to talk about a new representative	<b>Chairmen</b>
Chapters 1 to 4	<b>ALL:</b> Remarks
Chapter 5 – Identification of II related Services	
Sub-Chapter 5.1 – Selected services (service questionnaire)	<b>Gloria Pellischek:</b> Input concerning Services for Electric Vehicles (EV) <b>Frans op de Beek:</b> - ) separation in existing, future and long-term services - ) integration of an example how sub-responsibilities and stakeholders could be included - ) forwarding to IIWG members
Chapter 5.2 – Level of services	<b>Frans op de Beek:</b> - ) draft how the services could be grouped - ) adding an own (sub-)chapter about the impact of II <b>Marko Jandrisits:</b> input from COOPERS about “benefits for users”
Chapter 6 – Added Value of II	
Sub-Chapter 6.1 – Which problems does it solve...?	<b>René Jacobs:</b> CVIS <b>Tom Alkim:</b> Safespot <b>Suzanne Hoadley:</b> Information from the “Convince” project <b>Frans op de Beek &amp; Eline Jonkers:</b> - ) checking possible input from current FP7 call / the project 2DECIDE - ) integration
Sub-Chapter 6.1.1 – Electric Vehicles	<b>Gloria Pellischek:</b> Infrastructure requirements for EV
Sub-Chapter 6.2 – Impact assessment of II services	<b>ALL:</b> Comments as agreed (cp. page 5)
Chapter 7 – Road categories and related services per category	<b>Frans op de Beek:</b> matching the services with the existing road categories
Chapter 8 – (Basis)Requirements for II Services	<b>Tom Alkim:</b> contacting Han Zwijnenberg <b>Tom Alkim:</b> document about standards
Sub-Chapter 8.1 – At the level of functional requirements	<b>ALL:</b> Feedback, how to shorten this chapter
Chapter 9 – Current Roadside Infrastructure	
Sub-Chapter 9.1 – What is already available	<b>Marko Jandrisits:</b> Pictures <b>Suzanne Hoadley:</b> Information about urban roads/ areas.

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Sub-Chapter 9.2 & 9.3 Issues with current infra/Identification of problems AND How to grow to Intelligent	Suzanne <b>Hoadley</b> : Handbook from Polis Bengt <b>Hallstrom</b> : draft for this chapter and sending it to the road operators/ NRAs for comments
Chapter 10 – The Intelligent Vehicle	Wolfgang <b>Reinhardt</b> : draft for this chapter
Chapter 11 – IT Architecture	Suzanne <b>Hoadley</b> : Information from the CityMobil project Luís <b>Osório</b> : simplifying and testing the “new” IT architecture
Chapter 12 – Communication & Protocols	Bengt <b>Hallstrom</b> : asking the group of Theo Kamalski for input Gino <b>Franco</b> : supporting Bengt Hallstrom Frans <b>op de Beek</b> : forwarding the latest version of the table of communication & protocols to BH and GF
Chapter 13 – Specification and Standards	Tom Alkim will be asked at the next meeting concerning standards in the context of the ITS Directive
Chapter 14 – Recommendations for the Deployment of II Services	<b>Chairmen</b> : draft for this chapter