



**Cooperative Radio Communications for Green Smart Environments**

**2nd Management Committee  
& Technical Meeting  
Lisbon, 19-21 October 2011**



Prof. Narcis Cardona  
Univ. Politecnica Valencia  
iTEAM Research Institute



## 2. Adoption of the Agenda

1. Opening formalities
2. Adoption of the Agenda
3. Status of the Action
4. Grant Agreement and Report from Grant Holder
5. Travel & Reimbursement Issues
6. Election of WGs Chairs
7. Proposals of new TWG and SWG
8. Non-COST Institutions Applications
9. Invited talks from projects GreenTouch & EARTH
10. Presentation and Discussion of Technical Documents
11. Reports from Group Chairs
12. Future MCMs and Workshop
13. STSMs
14. Future Training activities: Training School & Tutorials
15. Dissemination
16. Liaisons with International Bodies and Projects
17. AOB
18. Close of Meeting

## 2. Adoption of the Agenda

- Other Changes?

### ATTENDANCE LISTS:

Please sign the **THREE** attendance lists for the MCM (one per day)

**AND**

**ONE** attendance list for **EACH** WG/SWG/TWG you attend

**No reimbursement** of travel expenses (for those entitled to)

if attendance lists are not duly signed.

### 3. Status of the Action



The screenshot shows the website for COST IC1004, titled "Cooperative Radio Communications for Green Smart Environments". The page features a navigation menu on the left with items like Home, About IC1004, Working Groups, Status, List of Institutions, Meetings, Official Documents, Join IC1004, Temporary Documents (TDs), Members' Area, FTP Site, Previous Actions, Announcements, and Contacts. A search bar is located at the top right. The main content area displays a "Home" header, a large graphic of a wind turbine and a map of Europe, and a news section dated Sep 28, 2011, titled "Tutorial by Prof. Tad Matsumoto". At the bottom, it states that the coordination and secretariat of the COST IC1004 Action is offered by CNIT, National Inter-University Consortium for Telecommunications.

### 3. Status of the Action

#### MAY

- Kick-off , Brussels, 19 May 2011 (→ EoA: 18 May 2015)

#### JUNE

- 1st Scientific meeting, Lund, 21-22 June 2011  
64 TDs, >100 participants; 38 Academia + 24 Industries, ...
- DC Annual progress meeting, Larnaca, Chiprus  
Attended by [Vice-Chairman](#)

#### JULY

- Chairman invited to talk to Greenet meeting, Barcelona, 7 July

#### SEPTEMBER

- New Science Officer: Dr. Giuseppe Lugano
- Administrative Training session at Brussels (Secretary)
- Non-COST institutions procedures (Chair/Officer)
- **Budget amendment applied (Chair/GH) → [Point 4 of the Agenda](#)**

### 3. Status of the Action

#### 2nd MCM, Lisbon 19-21 Oct 2011

78 TDs, 116 participants

Tutorial (Tuesday 18th, attended by 15 persons)

- Prof. Prof. Tadashi Matsumoto, distinguished lecturer of the VTS Society: “Iterative Processing for Cooperative Communications Allowing Intra-Link Errors”

2 Invited Speakers

- Dr. Ulrich Barth, Alcatel Lucent: “GreenTouch view on Mobile Networks Energy Efficiency”
- Prof. Luis Correia, IST Lisbon: “An overview of EARTH: Energy Aware Radio and Network Technologies”

*Thanks to Haibin Zhang (Netherlands MC member), Fernando Velez, Luis Correia (MC Portugal)*

### 3. Status of the Action

Number of signatories countries: 28

Number of non-COST members: 9 (status: pending of MC approval)

Number of COST country entities (institutes, etc.) currently participating: 78

Number of non-COST entities (institutes, etc.) currently participating: 9

Number of MC Members: 50

Number of registered experts: >190

#### Internal rule: De-registration

Institutions not contributing with at least one TD per year (two TDs per year if non-COST) are denied access from Member's Area.

If still interested, they can re-register → Approval?

## 4. Grant Agreement and Report from Grant Holder



## IC 1004. Budget (Initial Allocation)

**Current Budget for First Year term: 81.900 €**

*Possible Grant Amendment later in 2011 or early in 2012*

Type of expenditure		Preliminar
1. Travel costs for meetings	<b>32x2x800</b>	<b>62.400 €</b>
2. Workshop Supports	<b>1x3000</b>	<b>3.000 €</b>
3. STSMs	<b>3x1500</b>	<b>4.500 €</b>
4. Training schools	<b>x</b>	<b>0 €</b>
5. Dissemination/ Publicat.s	-	<b>978 €</b>
6. Others	-	<b>340 €</b>
Secretariat	15% of sum(1:6)	<b>10.682 €</b>
<b>TOTAL</b>		<b>81.900 €</b>

# IC 1004. Budget (Reviewed for Amendment Application)

**First Year term** (June 1<sup>st</sup> 2011 - May 31 , 2012)

Type of expenditure	Counters	Proposal
1. Travel costs for meetings		
2. Workshop Supports		
3. STSMs		
4. Training schools &Tutorials		
5. Dissemination/ Publicat.s		
6. Others		
Secretariat		
<b>TOTAL</b>		<b>160.310 €</b>

(1): Travel Reimbursement; N= 3 x 38 delegates + 5 invited talks

(2): Training School; m = 14k€ for Students Grants + 5k€ for speakers + 1k5€ for Local Org.

## IC 1004. Budget (COST Office Proposal, as of yesterday)

**First Year term** (June 1<sup>st</sup> 2011 - May 31 , 2012)

Type of expenditure	Counters	Proposal
1. Travel costs for meetings		<b>83.000 €</b>
2. Workshop Supports		
3. STSMs	<b>10x1000</b>	<b>10.000 €</b>
4. Training schools &Tutorials		<b>20.000 €</b>
5. Dissemination/ Publicat.s		<b>3.000 €</b>
6. Others		<b>500 €</b>
Secretariat	15% of sum(1:6)	<b>17.200 €</b>
<b>TOTAL</b>		<b>133.700 €</b>

## 5. Travel and Reimbursement issues

- Eligible:  
Management Committee Members and Substitutes,  
Working Group Members, Invited Experts, Domain  
Committee Rapporteur
- Entitled:
  - COST general rule: Chairman has the final responsibility for approving the list of eligible participants entitled to be reimbursed, notify to the GH, who process the invitations.
  - Internal rule: Up to two representatives per COST Country

## 5. Travel and Reimbursement issues

- Internal rule:

Up to two representatives per COST Country.

Priority:

- 1) All MC members who apply, or MC official substitutes, Action Chair, Secretary
  - 2) WG/SWG/TWG Chairs (while budget available)
  - 3) Non-MC members, presenting a TD, when replacing an MC member (while budget available)
  - 4) Other experts, one per country (while budget available)
- → Approval?

## 5. Travel and Reimbursement issues

Reimbursements for this MCM:

39 MC entitled + 1 invited speaker

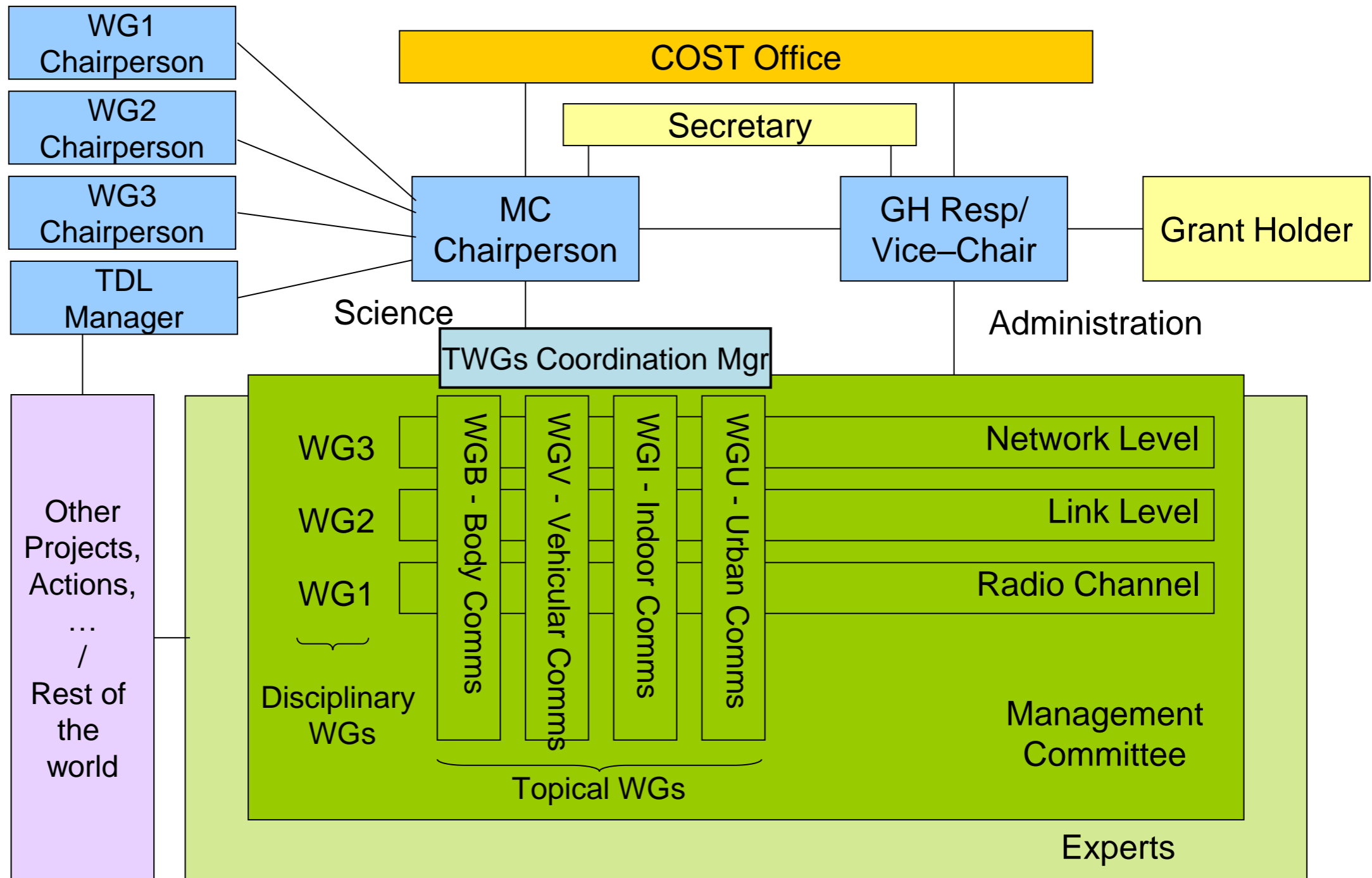
- Please send to the secretary your travel copies with your signed reimbursement form in PDF format no later than **Nov 21<sup>st</sup>**, 2011 (**AP 2/1**)

## 5. Travel and Reimbursement issues

Future meetings deadlines for “Special Cases”:

- If you require an **invitation letter** (to get a visa , a permission...) ask it at least **4 weeks** prior to the meeting
- The **substitutions of MC** members to a meeting that require National Coordinator nomination, have to be received by IC1004 Secretary **2 weeks** in advance (like registration deadline).

## 6. Election of WGs Chairs





## 6. Election of SC Members

### Candidacies:

- Disciplinary Working Groups:
  - WG1: Claude Oestges, U.C.L. (BE)
  - WG2: Alister Burr, U.York (UK)
  - WG3: Silvia Ruiz, U.P.C. (ES)
- Topical Working Groups Coordinator:
  - TWGC: Alain Sibille, Telecom ParisTech (FR)
- Training, Dissemination & Liaisons Manager:
  - TDL: Christoph Mecklenbrauker, T.U.Wien (AT)

→ **VOTE**

## 6. Election of TWGs Chairs ←(at WGs sessions)

### Candidacies so far for Topical Working Groups:

- Vehicular Environment, TWG-V  
Alexander Paier (AT), Erik Ström (SE)
- Body Environment, TWG-B  
Raffaele D'Errico (FR), Wout Joseph (BE)
- Urban Environment, TWG-U  
Thomas Jansen (DE), Sana Salous (UK)
- Indoor Environment, TWG-I  
Pawel Kulakowski (PL), Katsuyuki Haneda (FI),  
Klaus Witrissal (AT)

## 7. Proposal of TWG and SWGs creation

- SWG 2.1, “PHY layer Cooperation and Relaying”
  - Proponents: Alister Burr, Jan Sykora
- SWG1.1, “Antennas”
  - Proponents: Alain Sibille, Buon K. Lau
- Topical Working Group on OTA
  - Proponent: Gert Pedersen

→ Approval?

## 10. Presentation and Discussion of Technical Documents

- There is a total of **76** TDs to be presented at this MCM.
- **78** TD numbers were requested by the deadline
- **2** TDs (02065 and 02067) were not submitted
- **+2** Keynote speeches:
  - Dr. Ulrich Barth, Alcatel Lucent: “GreenTouch view on Mobile Networks Energy Efficiency”
  - Prof. Luis Correia, IST Lisbon: “An overview of EARTH: Energy Aware Radio and Network Technologies”

**TDs  
allocation  
to WGs**

WG 1	<b>3, 5, 6, 8, 23, 49, 53, 61, 62</b>	(9)
WG 2	<b>12, 24, 33, 34, 44, 47, 78</b>	(7)
WG 3	<b>7, 13, 14, 15, 18, 28, 29, 41, 50</b>	(8)
WGs 1+2	<b>35, 59, 66</b>	(3)
WGs 1+3	-	(0)
WGs 2+3	<b>39, 72, 74</b>	(4)
WGs 1+2+3	<b>11, 32, 38, 63, 76</b>	(5)
SWG 1.1	<b>26, 45, 52, 54, 58</b>	(5)
SWG 2.1	-	(0)
TWG B	<b>2, 16, 17, 20, 21, 43, 71, 75, 77</b>	(8)
TWG V	<b>22, 31, 36, 56</b>	(4)
TWG U	<b>4, 19, 25, 30, 40, 73</b>	(6)
TWG i	<b>1, 37, 55, 57, 68</b>	(5)
TWG O	<b>9, 10, 27, 42, 46, 48, 51, 60, 64, 69, 70</b>	(11)

## WGs sessions Schedule

	Wed.	TD#	Thu.	TD#	Fri.	TD#	Room
9:00-10:30		PLENARY	1 +2	35, 66, 59	B	71,77,16,75,DISC	Auditory
			OTA	EL,42,64,69	OTA	9,10,48,60	02,1
			WG3	7,15,29,13	U	73,19,40,DISC	02,2
	Coffee		Coffee		Coffee		
11:00-12:30		Invited Speakers	WG2	24, 44,47	Veh	EL,22,31,36,56	Auditory
			OTA	27,46,51,70	ANT+OTA	58,DISC	02,1
			WG3	28,50,DISC	Ind	37,55,DISC	02,2
	Lunch		Lunch		Lunch		
14:00-15:30	WG1	5, 61, 62, 53	Ind	EL,1,57,68	PLENARY	Auditory	
	WG2	33, 34, 12, 78	ANT	EL,26,45,52,54		02,1	
	WG3	14,18,41	U	EL,4,25,30		02,2	
	Coffee		Coffee				
16:00-18:00	WG1	3, 6, 23, 8, 49	1+2+3	11,38,63,76,32		Auditory	
	2+3	74,39,72	B	EL,17,21,20,43, 2		02,1	
						02,2	

18:15 on Thursday: Bus  
departs to Social Event

## **Working Groups discussions should include:**

- Training School proposals/topics
- Workshop topic
- Tutorials offers for coming meetings
  
- Joint Activities
- Short Term Scientific Missions among participants institutions
  
- Ideas to foster the dissemination of the Action

## Plenary session Resume

**Attendance lists from WGs/SWGs/SIGs:**

**Did you sign the general attendance list for the three days?**

**No signature, no reimbursement...**



## 8. Non-COST Institutions (NCIs) participation

### Approval procedure

- Non-COST Institution contacts MC Chair ([ncardona@iteam.upv.es](mailto:ncardona@iteam.upv.es))
- MC Chair initiates the NCI request in e-COST tool
- MC Chair ask the NCI applicant to fulfill the application form and to provide a formal motivation letter.
- The MC Chair completes the COST part of the application and submits it to the attention of the Science Officer (SO).
- After SO validation, the application **requires to be approved first by the Management Committee of the Action ← today**
- Then the application is sent to the Domain Committee for its approval, and finally to the executive group of the Committee of Senior Officials (CSO)

- **12** NCIs contacted to join the Action
- **9** Applications are complete

You have logged in as a MC Chair

**Approvals**

Participation to COST Actions

Request Edit Tools

Status						Institutions
1	MC Approval					9
#	ID	Type	Action	Country	Institution	Participation
1	610	NCIR	IC1004	US	Motorola Mobility US	To schedule MC approval
2	611	NCIR	IC1004	US	COMSEARCH	To schedule MC approval
3	627	NCIR	IC1004	CN	Tongji University	To schedule MC approval
4	653	NCIF	IC1004	JP	National Institute of Information and Communications Technology	To schedule MC approval

## 8. Non-COST Institutions (NCIs) participation

When should we accept applications from NCIs?

COST rules: mutual benefit

Other criteria: scientific excellence (Universities)  
role in industrial context (Industries)  
technical topics and WGs addressed  
geographic balance

**commitment to at least two TDs per year**

## 9 Applications received and completed so far:

- USA
  - ComSearch, Dr. Saul Torrico
  - Motorola Mobility, Dr. Paul Moller
- Japan
  - NICT; Dr. Kamyā Y. Yazdandoost
  - Tokio Institute of Technology; Prof. Jun-Ichi Takada
- China
  - Tongji University; Dr. Xuefeng Yin
- Colombia
  - Univ. ICESI, Dr. Andrés Navarro
- Canada
  - Communications Research Center (CRC), Dr. Robert Bultitude
- Australia ← Reciprocal agreement Country
  - La Trobe University., Dr. Naveen Chilamkurti
- Montenegro ← Near-COST Country
  - Univ. of Montenegro, Prof. Milica Pejanovic-Djurisic

## 8. Non-COST Institutions (NCIs) participation

### 3 Applications in progress:

- China
  - Beijing University of Posts and Telecommunications
- India
  - National Institute of Technology Jalandhar
- Japan
  - Japan Advanced Institute of Science and Technology (JAIST)

Next approvals could be completed by electronic voting.

→ MC members: keep reading ..@COST.eu mails

## 11. Reports from WG Chairs

- Disciplinary Working Groups:
  - WG1: Claude Oestges, U.C.L. (BE)
    - SWG1.1: Vincent Lau (SE)
  - WG2: Alister Burr, U.York (UK)
  - WG3: Silvia Ruiz, U.P.C. (ES)
- Topical Working Groups Coordinator:
  - TWGC: Alain Sibille, Telecom ParisTech (FR)

## 11. Reports from WG Chairs

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Alexander Paier (AT), Erik Strom (SE)
- Body Environment, TWG-B  
Raffaele D'Errico (FR), Kamyaz Yazdandoost (JP)
- Urban Environment, TWG-U  
Thomas Jansen (DE), Sana Salous (UK)
- Indoor Environment, TWG-I  
Pawel Kulakowski (PL), Katsuyuki Haneda (FI)
- OTA Testing, TGW-O  
Gert Pedersen (DK), Wim Kotterman (DE)

## 12. Future meetings and workshop

- February 2012:
  - Madrid is no longer available. New offer: Barcelona (Silvia Ruiz) 8-10 Febr 2012 → Approval?

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- February 2012:
  - Madrid is no longer available. New offer: Barcelona (Silvia Ruiz) → Approval?
- May 2012:
  - Offer: Lyon (FR), Jean-Marie Gorce, Guillaume Villemaud (...)
  - 2-4 May 2012 → Approval?



## 12. Future meetings and workshop

- February 2012:
  - Madrid is no longer available. New offer: Barcelona (Silvia Ruiz) → Approval?
- May 2012:
  - Offer: Lyon (FR), Jean-Marie Gorce, Guillaume Villemaud (...)
  - 9-11 May 2012 → Approve?
- September 2012:
  - Offer: 24-26 Sept, Bristol (UK), Mark Beach, A.Burr
  - Offer: 24-26 Sept, Ghent (BE), Wout Joseph

→ Vote?

## 12. Future meetings and workshop

- Other offers:
  - Ilmenau (Reiner Thomae), Febr.2013 or Sept.2013
  - Aalborg (Gert Pedersen), Spring 2013 or 2014
  - Malaga (Raquel Barco)
  - Dublin (Connor Brennan)
  - ...Others?....

## 16. Future meetings and workshop

- Workshop Topic and Organisation
  - *“Small Cells Cooperative Communications”*  
Joint with iPLAN FP7 project

## 16. Future meetings and workshop

- Workshop Topic and Organisation
  - *“Small Cells Cooperative Communications”*  
Joint with iPLAN FP7 project
- TPC:
  - IC1004 Steering Committee (5) + iPLAN FP7
- Deadlines:
  - Call: 15 Jan 2012
  - Submission: 2 March
  - Acceptance: 14 April
  - Final document: 20 April

## 13. Short Term Scientific Missions (STSM)

*COST Vademecum (Part B) – Grant System*

### 4.1. Objectives

The aim of a Short-Term Scientific Mission (STSM) shall be to contribute to the scientific objectives of a COST Action.

These Missions (Exchange Visits) are aimed at strengthening the existing networks by allowing scientists to go to an institution or laboratory **in another COST Country** to foster collaboration, to learn a new technique or to take measurements using instruments and/or methods not available in their own institution/laboratory. They are particularly intended for young scientists.



An Action should normally set up at least 4 STSMs per year.

## 13. Short Term Scientific Missions (STSM)

### 1st Call

- Deadline: 20 November
- Period for STSM performance:  
**1 Jan,2012 – 31 March,2012**
- Rules: as for COST Budget
- Total budget available for this call:  
**5000€ (5 or 6 STSMs)**

## 13. Short Term Scientific Missions (STSM)

### Procedure

applicant fulfill form at eCOST tool:

<https://e-services.cost.eu/stsm>

and sends it to Chairman and Host Institution  
by Nov.20<sup>th</sup> ← AP 2/4

### Evaluation

- Applications will be evaluated by Evaluation Panel including at least three among WGs Chairs.

A **second call** after February meeting according to remaining budget

## 14. Future training activities (T. Schools and Tutorials)

- IC1004 Training School
  - Organised by TDL Manager
  - April 2012, Vienna



## 14. Future training activities (T. Schools and Tutorials)

- Future Training Schools, other offers

One proposal from *Greenet* (Marie Curie Training Network)

Potential Topics:

**Modelling and Simulation (M&S) of Wireless Networks**

**Real life experimental tools of wireless protocols**

Venue:

To be defined, proposed Barcelona

Dates:

To be defined

- **OTHERS?**

## 14. Future training activities (T. Schools and Tutorials)

- Tutorials:

1st Tutorial thanks to Portuguese VTS Chapter

IEEE VTS Distinguished lecturer, Prof. Tad Matsumoto

- Offers:

- Roberto Verdone, Wireless Sensors Networks

- Others? Please send to Chairman

## 15. Dissemination

- Crucial for the continuity of the Action
- Every COST Office document relates to the outcomes of the Actions measured in terms of dissemination and outside impact. Example: [Action Success Questionnaire](#)

### QUESTIONNAIRE DC ICT FOR ACTION SUCCESS METER

(green-excellent; yellow-good; red-bad)

1. What is the benefit of COST networking to your action?
2. What did you provide to the COST?
  - a. How you contributed to the COST development?
  - b. How you will contribute to the COST development?
3. Did you influence any standard, system, device? Pls specify.
  - a. Did you mention COST in it (e.g., COST 231 propagation model)?  
Pls specify.

## 15. Dissemination

### QUESTIONNAIRE DC ICT FOR ACTION SUCCESS METER

(green-excellent; yellow-good; red-bad)

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3. Did you influence any standard, system, device? Pls specify.
  - a. Did you mention COST in it (e.g., COST 231 propagation model)?  
Pls specify.
4. How many joint COST papers in Current Contents journals are published in the last year?
5. How many joint COST papers on conferences are published in the last year?
6. How many STSM did you have?
  - a. How many ESR participated?
  - b. How many women participated?
7. How many jointly supervised PhD was within your COST action in the last year? How many external examiners were from COST?

## 15. Dissemination

### Strategy

- TDL Manager as part of the Steering Committee
- Liaisons to Bodies; report from and TO it
- Invite Keynote speakers from relevant projects/groups/industries
- Joint activities with other projects and initiatives
- Promote the publication of joint papers
- Promote COST sessions at Conferences
- Provide frequent news to DC, CO,...
- Produce Newsletter
- Easy to find in Internet
- ...

## 15. Dissemination achievements so far

### Liaisons:

- Sana Salous, (UK) Vice-Chair of URSI C
- Haibin Zhang, (TNO) to GreenTouch
- Luis Correia, (IST) to FP7 Earth
- Mark Beach, (UK) to Mobile VCE
- ... (list to be completed)

Rapporteurs are kindly asked to report briefly at plenaries and to send a short written report

Please send to secretary reports by Nov 11th (**AP 2/3**)

## 15. Dissemination achievements so far

### Keynote Speakers

- 2 at this meeting, as mentioned
- Budget allocated, up to 2 per meeting

### Current Offers:

- Mobile VCE speaker, IC1004: Mark Beach
- Greenet speaker, IC1004: Narcis Cardona
- Prof. Zhisheng Niu, IC1004: Vince Lau

## **15. Dissemination achievements** so far

### **COST sessions at conferences**

#### **EuCAP 2012, PRAGUE, CZECH REPUBLIC**

”Joint antenna-channel issues in Body Area Networks“  
(Wout Joseph & Raffaele D'Errico)

”Novel methods in radio channel modelling for smart environments“ (Claude Oestges & Alain Sibille)

#### **IEEE ComSoc CAMAD 2012, BARCELONA**

“Cooperative Radio Access Networks” (Narcis Cardona)



## 15. Dissemination achievements so far

### Reported to COST: DC, CO

- Annual progress meeting, Larnaca June 2011
- Monthly Report to DC Rapporteur from Chairman
- ...

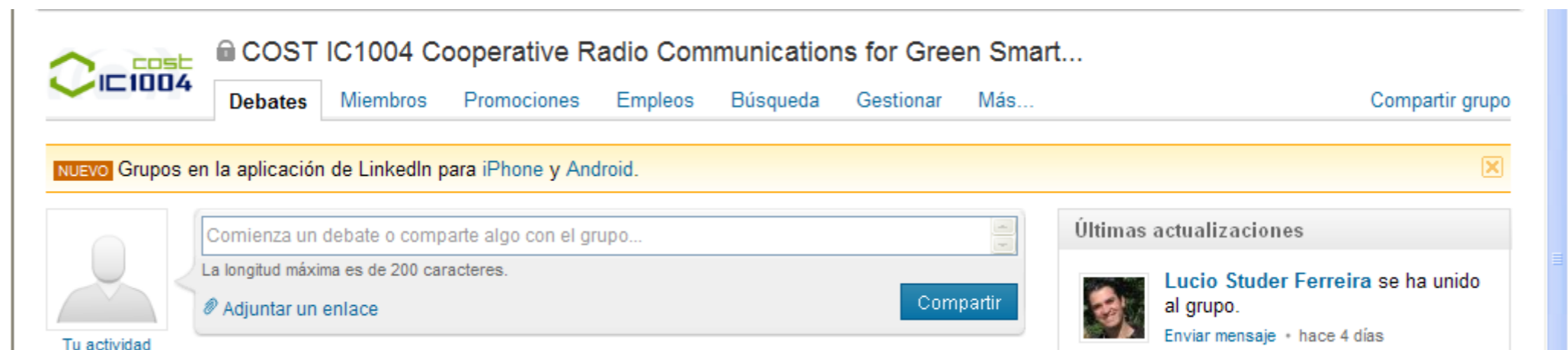
## 15. Dissemination achievements so far

### Newsletter

- Organised by TDL Manager. Volunteers as editor-in-chief ?

### Linkedin Group

- Suggestion by Lucio Studer. Objectives are both to be visible worldwide and be a tool for internal discussions.



The screenshot shows the LinkedIn group page for "COST IC1004 Cooperative Radio Communications for Green Smart...". The page features a navigation bar with tabs for "Debates", "Miembros", "Promociones", "Empleos", "Búsqueda", "Gestionar", and "Más...", along with a "Compartir grupo" link. A yellow banner at the top reads "NUEVO Grupos en la aplicación de LinkedIn para iPhone y Android." Below this is a text input field with the placeholder "Comienza un debate o comparte algo con el grupo..." and a character count "La longitud máxima es de 200 caracteres." There is also a link to "Adjuntar un enlace" and a "Compartir" button. On the right, the "Últimas actualizaciones" section shows a post by "Lucio Studer Ferreira" who has joined the group, with a link to "Enviar mensaje" and a timestamp of "hace 4 días".

## 17. AoB

- Mailing
  - [global@ic1004.org](mailto:global@ic1004.org) is a **moderated** reflector. Don't use for announcements. Ask Silvia ( [secretary@ic1004.org](mailto:secretary@ic1004.org) ) to include your announcement at Web Page or to distribute it.
  - I use to include [\[IC1004\]](#) in the emails title.
- WGs reflectors: all WGs will have their own reflector in 5 weeks time (Nov 25<sup>th</sup> ) ←AP 2/6

## 18. Close of Meeting

Action Points after 2nd MCM:

AP	WHAT	WHO	WHOM	WHEN
2/1	Send reimbursement requests	Those entitled to	secretary	Nov. 21st
2/2	Send Minutes of Group Meetings	Group Chairs	Chair	Nov. 11 <sup>th</sup>
2/3	Liaisons: send reports	Rapporteurs	secretary	Nov. 11 <sup>th</sup>
2/4	Send STSM Applic.	Those interested	eCOST +Chair	Nov. 20th
2/5	Tutorials: proposals	All	Chair	Dic.19 <sup>th</sup>

## 18. Close of Meeting

Action Points after 2nd MCM:

AP	WHAT	WHO	WHOM	WHEN
2/6	Create WGs reflector	WG Chairs	secretary	Nov25th
2/7	Register to 3rd MCM	attendees	website	Jan18th
2/8	Request TD number	authors	website	Jan18th
2/9	Entitle substitutions	MC	secretary	Jan18th
2/10	Submit TD	authors	website	Jan25th



Cooperative Radio Communications for Green Smart Environments

THANK YOU

See you in Barcelona, Febr.8-10, 2012



Prof. Narcis Cardona  
Univ. Politecnica Valencia  
iTEAM Research Institute

