



Cooperative Radio Communications for Green Smart Environments

6th Management Committee & Technical Meeting Malaga, 6-8 Feb 2013



*Prof. Narcis Cardona
Univ. Politecnica Valencia
iTEAM Research Institute*



1. Opening formalities
2. Adoption of the Agenda
3. Approval of the Minutes of the last MCM
4. Status of the Action.
 - . New MC members, non-COST Institutions, Rules reminder
5. Report from Grant Holder & Budget proposal for 3rd Year Term
6. STSMs status
7. Liaisons to other COST Actions, projects and bodies
8. [Presentation and discussion of technical documents](#)
9. Reports from Group Chairs
10. Training activities (TS and Tutorials)
11. Dissemination activities, Newsletter
12. Future meetings
13. AOB
14. Close of Meeting

3. Approval of the Minutes of the last MCM



Minutes are available under [...\official documents](#) and after MC approval also under [...\meetings](#)

The PDF file contains hyperlinks to WGs Minutes and other documents like reports from liaisons rapporteurs, etc.

--> Approval?

ATTENDANCE LISTS:

Please sign the
THREE attendance lists for the MCM
(one per day)
&
ONE attendance list for
EVERY WG/SWG/TWG you attend

Number of signatories countries: 28

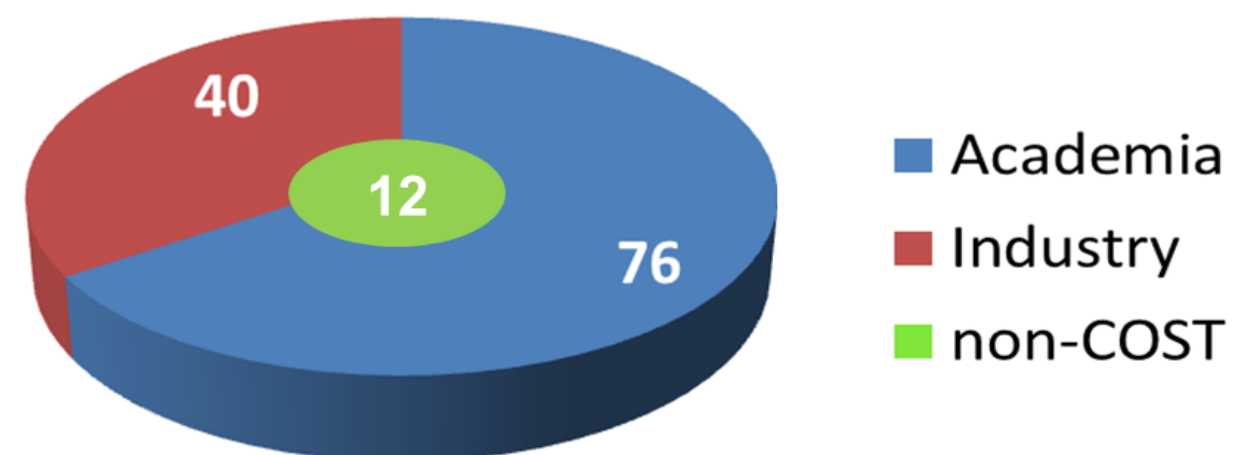
Number of COST country entities (institutes, etc.) currently participating: 116

Number of non-COST countries: 7*

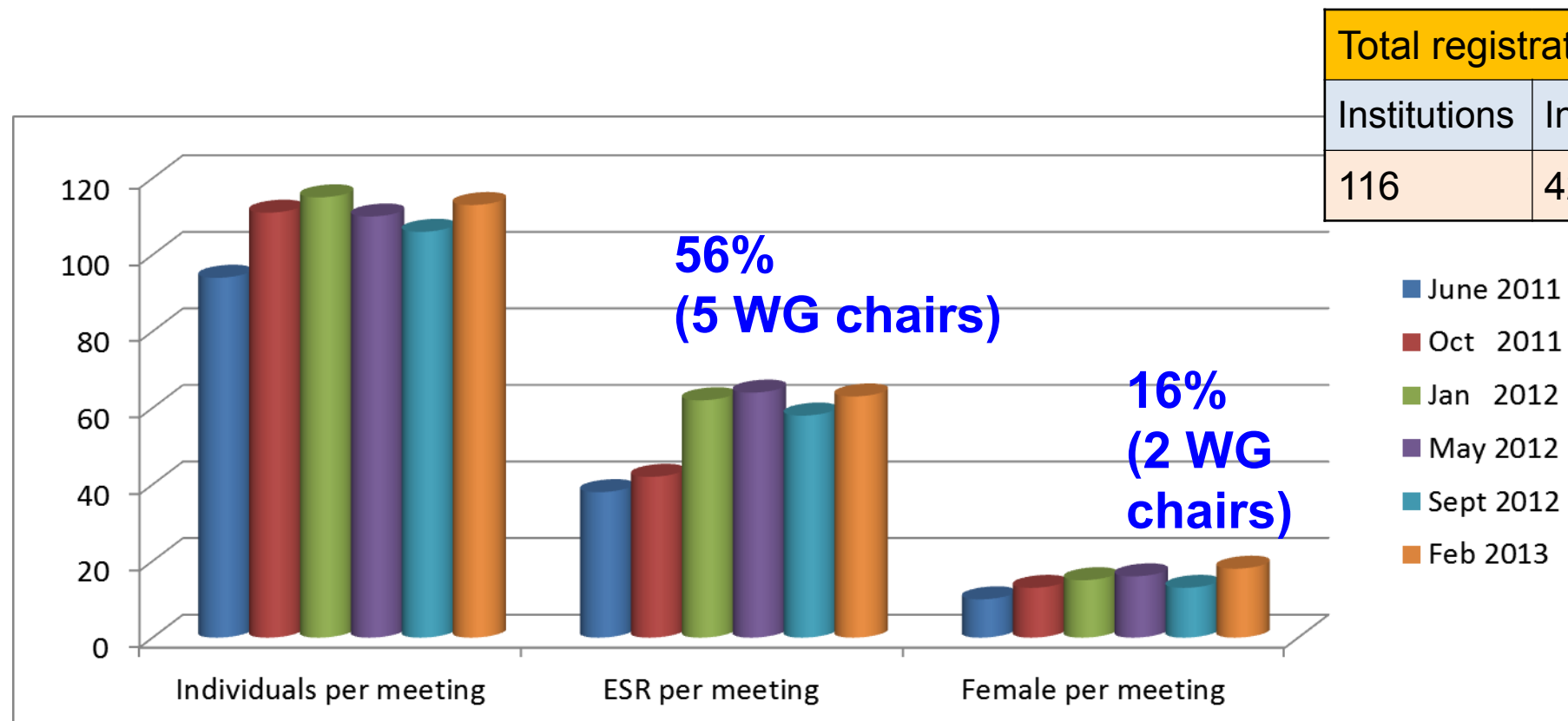
Number of non-COST entities (institutes, etc.) currently participating: 12 (+2)

Number of MC Members: 51 (+ Chair)

Number of registered experts so far: 427



Action participants



Total registrations by Jan'13			
Institutions	Individuals	ESR	Female
116	427	>230	>60

+ Local
organiser



Use of COST Instruments

Activity (No.)	Year 1+2
MC/WG Meetings	5 (+1)
STSMs	6 + 6 (+3)
Training Schools	3
Workshops or Conferences	1
Joint Publications	7 ? +19 ?

171 citations of
"COST IC1004"
(Google Scholar)



COST IC1004 3rd Training School on Propagation Measurement, Modelling, and OTA-Emulation



Outcomes of the Action so far:

- **5 (+1) Technical meetings, 330 (+83) TDs**
- **12 STSM completed**
- **Organisation of one Joint Workshop**
- **Organisation of 3 Training Schools, one joint**
- **2 (+2) Tutorials**
- **Position Paper on Horizon2020**
- **Participation to Conferences, Special Sessions**
- **Newsletter of the Action (3 issues)**
- **Journal Special Issue (Springer)**
- **Liaisons to URSI, 3GPP, ETSI, CTIA, Greentouch, IC905, VISTA, Earth, Greenet, Metis, Lexnet, ...**
- **...**

Challenges (Jun'12-May'13) as declared and shown at ICT Annual Meeting

1. Scientific:

- Evolve the IC1004 Radio Channel Model
- Specify on wireless localization techniques
- Share results on 60 GHz indoor measurements and modelling
- Reference scenarios for the evaluation of collaborative networks
- Evaluation methodologies for LTE femtocells and networks
- Develop Over-the-Air testing techniques for MIMO user equipment
- Produce a COST channel model for Body Area Communications

2. Liaisons to Industry and Standardisation Bodies:

- International standardisation bodies: CTIA, RAN4 of 3GPP, ETSI
- International projects: Greentouch, Earth, Greenet, others
- Industrial participation, keep increasing

3. Training & Dissemination:

- *Training Schools on OTA, BAN and Cooperative Nets., +Tutorials*
- Newsletter, Special sessions, Special issues

Current Non-COST Members (13):

- ComSearch (US); Motorola Mobility (US); NIST (US); NICT (JP); Tokyo Institute of Technology (JP); JAIST (JP); Tongji University (CN); BUPT (CN); ABP (CN); ICESI (CO); CRC (CA); Univ. of Montenegro (ME)*; La Trobe Univ.**(AU);

1 Application in progress:

[status: to be reviewed and accepted by MC off-line]

- *China*, Beijing Jiaotong University (BJTU)

IC1004 follows the rules of COST as in the Vademecum provided by COST Office (www.cost.eu)

Nevertheless, due to the Action size, some internal rules have been approved in order to properly organise meetings and activities:

1. Registration / De-registration:

“Any registered institution has access to the Member’s Area of the IC1004 Web site. Institutions not contributing with at least one TD per year period (two TDs per year period in the case of non-COST) are *denied access from Member’s Area*. If still interested, they can present a TD to any coming meeting and get re-registered”.

(Approved at 2nd MCM)

“Any registered institution has access to the Member’s Area of the IC1004 Web site. Institutions not contributing with at least one TD per year period (two TDs per year period in the case of non-COST) are *denied access from Member’s Area*. If still interested, they can present a TD to any coming meeting and get re-registered”. (Approved at 2nd MCM)

- 7 Institutions have no contributed at all after 5 meetings (de-registered)
- 11 have no contributed but less than one year registered (kept until May)
- 2 among MC members’ institutions have no contributed
- All non-COST Institutions have accomplished the rule
- Average per (active) Institution so far: 4,8 TDs*

3. MC Substitutions

The substitutions of MC members to a meeting, either requiring National Coordinator nomination or not, have to be received by IC1004 Secretary at least **2 weeks** prior to the meeting start date.

(Approved at 2nd&3rd MCM)

Second Year term (June 1, 2012 - May 31, 2013)

Grant: 177 675 EUR

July '12	First Year YFR sent to COST
Oct '12	First Year YFR validated by COST
Jan '13	First Year YFR duly signed by all parts
?? (soon)	First installment (65% of Grant)

(all reimbursements after Bristol paid, based on CNIT resources)

Dec '12	EC Report sent with all expenditures till Dec 31st
Jan '13	EC Report validated by COST
Mar '13	IFR to be sent to COST
Apr '13	IFR to be validated
??	Second installment (35% of Grant)

Second Year term (June 1, 2012 - May 31, 2013)

Type of expenditure	Budget	Spent	To be paid	Budget left
1. Meetings	89.250 €	35.734,38 €	1.802,39 €	51.713,23 €
2. Workshop Supports	3.000 €	0 €	0 €	3.000 €
3. STSMs	19.000 €	3.800 €	3.840 €	11.360 €
4. Training schools	37.500 €	12.150 €	1.698,47 €	23.651,53 €
5. Dissemination/ Publicat.s	4.750 €	0 €	0 €	4.750 €
6. Others (bank fees)	1000 €	285,50 €	23,10 €	691,40 €
Secretariat - 15% of sum(1:6)	23.175 €	7.795,48 €	0 €	15.379,52 €
TOTAL	177.675 €	59.765,36 €	7.363,96 €	110.545,68 €

Travel and Reimbursement issues

The *new Online Travel Reimbursement Request* is available in e-COST since 19 September 2012.

The eligible participants have to:

- Fill in the reimbursement form on e-cost (using the link provided in the official ecost invitation received by email)
- Upload on e-cost the relevant receipts/tickets (or send them by email to the Secretary)
- When everything is complete, they can submit the request and download the travel reimbursement form, print it, sign it and send it by POST to the Grant Holder
- The GH will then proceed with the payment.

Travel and Reimbursement issues

Reimbursements for this MCM:

40 (MC or official substitutes) entitled

Reimbursement will be based on COST rules

- In case you have already filled and downloaded your reimbursement form, please give it to the Secretary (Silvia) *during the meeting and send the* travel copies in PDF format no later than *March 8th*
- *In case you prefer to send it by POST, please do it no later than March 8th*

Third year term budget (June 1st 2013 - May 31 , 2014)

Type of expenditure		Budget (€)
1. Travel costs for meetings	(including WS)	106,200
2. STSMs		19,000
3. Training schools		34,700
4. Dissemination/ Publicat.s		4,750
5. Others		1,000
Secretariat - 15% of sum(1:6)		25,252
TOTAL		193,602 €

Detailed Workplan and Budget is prepared by Chair and Steering. Circulated among the MC members for your comments by **8th March**

-->Off-Line MC Approval will be required <--

- 6 STSMs completed so far during the second year term

Ms.Sato Telemi (T.U.Ilmenau); Mr.Joerg Nucklet (TUB); Josep Colom (TUV); Evangelios Melios (UoB); Claude Oestges (UCL); Wei Fan (Aalborg);

7,640 € assigned/spent

- +3 under evaluation

4,250 € estimated to be assigned

Remaining budget about 6k€ --> a few more STSMs by May

- *Results presented at Meetings*

...and literature? Please REPORT (chairman@ic1004.org)

OPEN CALL

Procedure

applicant fulfill form at eCOST tool:

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

and sends it to Chairman and Host Institution

(6 weeks prior to the STSM start)

Evaluation

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

Guidelines @ www.cost.eu

Guidelines @ www.cost.eu

Recommended IC1004: prioritise using labs, host facilities, expected outcome to IC1004, relationship with WGs objectives,....

COST IC1004 policy for the second year period:

To grant (up to 10) solid STSM proposals, prioritise using labs and host facilities, clear outcome to IC1004 and relationship with WGs objectives, longer stays (up to 4 weeks), favouring a more in-depth work, ...

- Buon Kiong Lau (SE), VISTA
- Sana Salous, (UK) Vice-Chair of URSI C
- Istvan Szini (USA), CTIA
- Moray Rumney, 3GPP RAN4
- Fernando Velez (PT) IC905, TERRA
- Haibin Zhang, (NL) GreenTouch
- Luis Correia, (PT) FP7 Earth (?)
- Narcis Cardona, (ES) METIS, FOBTV
- Roberto Verdone, Newcom#, EurACON
- Alister Burr, Diwine
- Alain Sibille, Lexnet,...

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

Please send your reports to Secretary by **March 8th**

- There are **83** TDs to be presented at this MCM.
 - 88 TD numbers were requested by the deadline
 - 5 TDs (# 20, 50, 68, 82, 87)
- **+4** Keynote speakers:
 - Dr. Oliver Holland, (UK) "Cognitive Radio Opportunities for Energy Efficiency Enhancement, and Associated Challenges" (**TERRA** COST)
 - Dr. Afif Osseiran, (Master Researcher at Ericsson); "**METIS 2020**, Paving the way for the Mobile and Wireless Communications system for 2020 & beyond"
 - Dr. Joe Wiart, (France Telecom), "**LEXNET**, Reduction of Electromagnetic Fields due to Wireless Networks"
 - Dr. Alfonso Fernández, (Alcatel Lucent); **MONOLOC**, "Indoor positioning and Mobile Networks Management"

WGs sessions Schedule

	Wed 6th	TD#	sum	Room	Thu 7th	TD#	sum	Room	Fri 8th	TD#	sum
9:15-11:00	MC PLENARY			Audit.				1.0.7			
				1.0.8	WG1	5, 35, 52, 44, 77	5	1.0.8	OTA	75,76,86+disc	3
				1.0.6	body//1.1	40 / 2, 49+disc	3	1.0.6	Urban	42,43+disc	2
				1.0.9	WG3	79,63+disc	2	1.0.9	vehicular	17,18,54,80	4
11:30-13:15	Technical Plenary	Terra COST TD#1	1	Audit.				Audit.	FP7 Invited talks (Plenary)	METIS LEXNET MONOLOC	
				1.0.8	1.1	13,15,69,38,8	5	1.0.8			
				1.0.6	2+3	3,31,39,85,28	5	1.0.6			
				1.0.9	indoor	51,59,88,62	4	1.0.9			
14:15-16:00								Audit.	MC Plenary		
	WG1	36,56,60,55,83	5	1.0.8	OTA	4,34,41,47,57	5	1.0.8			
	WG2	46,66,7,37,84	5	1.0.6	Body	6,14,53,61,21	5	1.0.6			
	WG3	10,32,16,19,64	5	1.0.9	Urban	74,29,22+disc	3	1.0.9			
16:15-17:45					body	30,78+disc	2	1.0.7			
	WG1	48, 71 + disc	2	1.0.8	indoor/ +urban	11,73 / I+U disc	2	1.0.8			
	2.1	26,27,25,33+disc	4	1.0.6	vehicular	9,24,23+disc	3	1.0.6			
	WG3	12,70,45,81	4	1.0.9	OTA	58,65,67,72	4	1.0.9			

...MC Plenary continues on Friday at 14:15

Plenary session
Resume at
14:30

Attendance lists from WGs/SWGs/SIGs:
Did you sign the general attendance list for the three days?
No signature, no reimbursement...

1. Opening formalities
2. Adoption of the Agenda
3. Approval of the Minutes of the last MCM
4. Status of the Action.
 - . New MC members, non-COST Institutions, Rules reminder
5. Report from Grant Holder & Budget proposal for 3rd Year Term
6. STSMs status
7. Liaisons to other COST Actions, projects and bodies
8. [Presentation and discussion of technical documents](#)
9. Reports from Group Chairs
10. Training activities (TS and Tutorials)
11. Dissemination activities, Newsletter
12. Future meetings
13. AOB
14. Close of Meeting

- Disciplinary Working Groups:
 - WG1: Claude Oestges, U.C.L. (BE)
 - SWG1.1: Buon Kiong Lau (SE)
 - WG2: Alister Burr, U.York (UK)
 - SWG2.1: Jan Sykora (CZ)
 - WG3: Silvia Ruiz, U.P.C. (ES)

- Topical Working Groups Coordinator:
 - TWGC: Alain Sibille, Telecom ParisTech (FR)

- Vehicular Environment, TWG-V
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)
- MIMO-OTA Testing, TWG-O
Gert Pedersen (DK), Wim Kotterman (DE)

TUTORIALS

"LTE-Advanced HetNets simulation"

Speakers: Dr. Jose Monserrat (iTEAM-UPV),

Mr. Oscar Carrasco (SistelNetworks)

Attended by 20 persons

*"Biological Effect of Electromagnetic Radiation
(SAR and Heat)"*

Speaker: Dr. Kamya Yekeh Yazdandoost (NICT)

Attended by 19 persons

OFFERS ? Contact chair@ic1004.org

- Training School(s):

First IC1004 Training School: “*Vehicular Connectivity*”

May 21-23, 2012, Vienna; 45 registered // 20 grants

Joint IC1004-WiserBAN Training School: “*Wireless Body Area Networks*”

June 4-6, 2012, Bologna; 50 registered

Third IC1004 Training School: “Propagation Measurement, Modelling, and OTA-Emulation”

November 12-14, Ilmenau (Germany); 28 attended, granted

4th IC1004 Training School

“*TOOLS FOR COOPERATIVE COMMUNICATIONS*”

(join with DIWINE project)

- Venue: Prague
- Dates: 20-22 May 2013
- Organisers: Jan Sykora, Alister Burr, Silvia Ruiz
- Attendees: 30-35 students

IC1004 support: Trainers travel costs, 20-25 grants for PhD and ESRs, organisational support (as approved in previous MCM)

COST IC1004/DIWINE Training School:

	Monday	Tuesday	Wednesday
9:00 – 10:30	Welcome Frank Fitzek: "Green Mobile Clouds: Network Coding and User Cooperation for Improved Energy Efficiency"	Eduard Jorswieck: "Distributed Interference processing and alignment"	Daniel Calabuig: "Cooperative Multipoint - Optimum transmission over the Gaussian broadcast and multiple access channels"
11:00 – 12:30			TBC: "Cooperative Networking"
13:30 – 15:00	Umberto Spagnolini: "Distributed signal processing and synchronization"	Jan Sykora and Alister Burr: "Advances in Wireless Network Coding"	TBC: Industrial views
15:30 – 17:00			

Newsletter

Editor: Prof. Alain Sibille

Welcome to distribute the link among your professional contacts:

<http://www.ic1004.org/index.php?page=newsletter>

Accesses to web page: >20.000

NL Downloads:

1st issue: 645

2nd issue: 402

3rd issue: 240 (aprox)

“SMALL CELLS COOPERATIVE COMMUNICATIONS” (published next week)

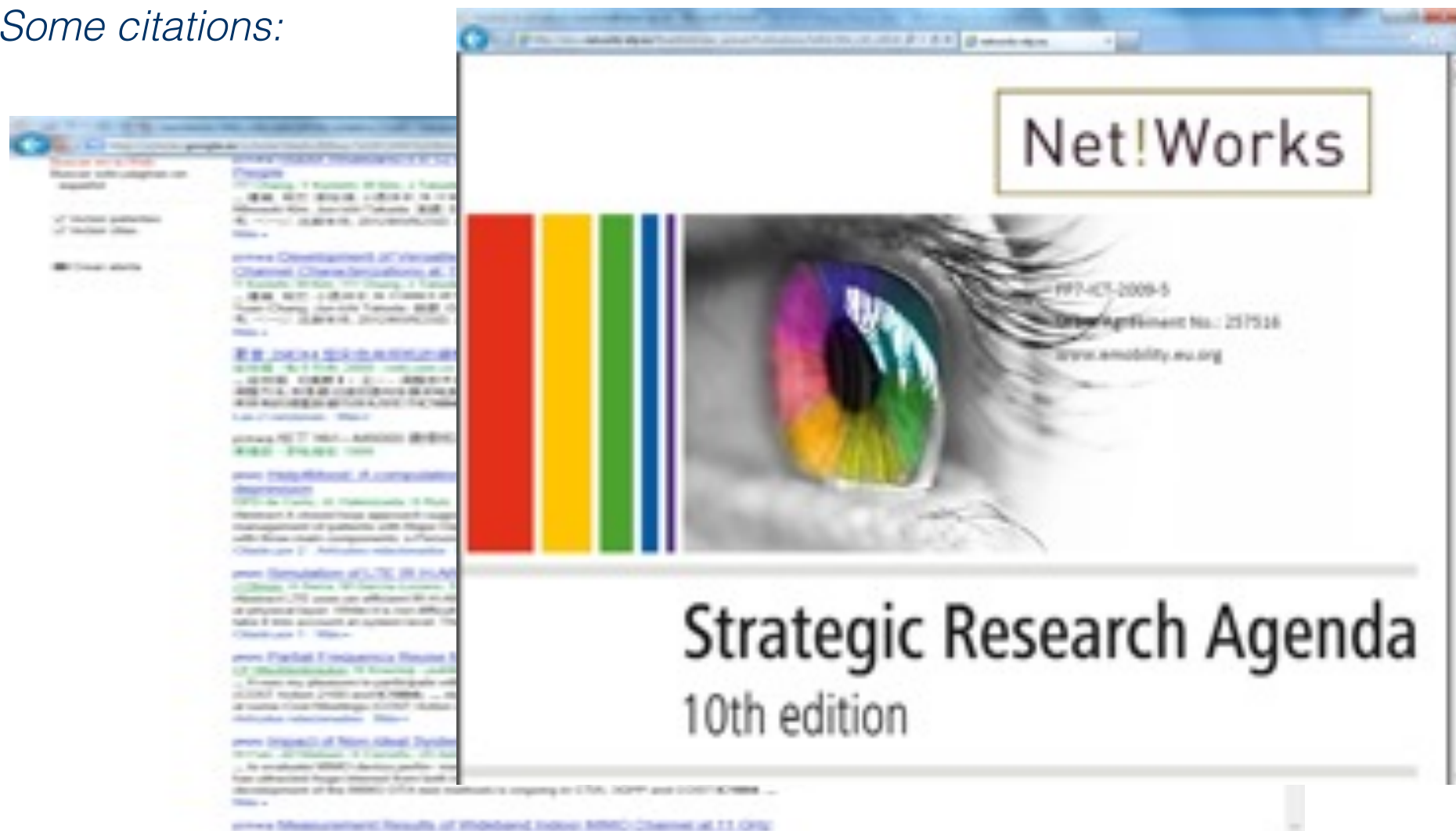
Special Issue @



COST IC1004 Position Paper to Horizon2020:

Presented during the Workshop “Future Network Technologies Research and Innovation in HORIZON2020”, organised by the EU Comission, Brussels June 29th

Some citations:



URSI RADIO SCIENCE:

Special section on "Green Radio Communications",
submissions in GEMS open May 1, 2013 and close on July 31, 2013



Future Network & Mobile Summit 2013
3 - 5 July 2013, Lisbon, Portugal

Registration: Password: [Log In](#) [Forgot Password](#)

General Information
[Home](#)
[About FNM](#)
[Sponsors](#)
[Steering Committee](#)
[Contact us](#)

Programme
[Registration](#)
[Call for Papers](#)
[Paper Submission](#)
[Exhibition](#)
[Paper Repository](#)
[Previous Events](#)

Welcome

Future Networks and MobileSummit 2013 takes place in Lisbon, Portugal, 3 - 5 July 2013. This is the twenty-second in a series of annual Conferences supported by the European Commission, which regularly attracts delegates from industry and research to share experiences and research results, identify future trends, discuss business opportunities and identify opportunities for international research collaboration under the ICT Theme of Framework Programme 7 (FP7). It will thus contribute to showcasing European research in the field, and position it within the multiplicity of related initiatives supported in other regions of the world.

In the context of convergence and innovation, the 22nd Future Network and MobileSummit will address the challenges of building the Future Internet Infrastructures, based on mobile, wireless and fixed broadband communications technologies.

Programme

The Scientific Programme will incorporate all the key constituents of Future Communication Networks including:

- Radio access and Spectrum
- Converged and Optical Networks
- Future Internet Technologies
- Integrated Satellite Communications
- Internet of Things and Machine-to-Machine

Supported by the European Commission and the Hellenic European Technology Platform, Future Network and MobileSummit integrates high-level industry/policy/plenary sessions that discuss strategic issues for Future Networks with high quality technical/scientific tracks and workshops sessions.

Download Call for Papers

**FutureNetwork
FutureNetSummit**

FutureNetwork Submit papers by 28 February
[FutureNetworkSummit action 2013 is a ...](#)
[... and up to 1000 ...](#)

FutureNetwork download Call for Papers

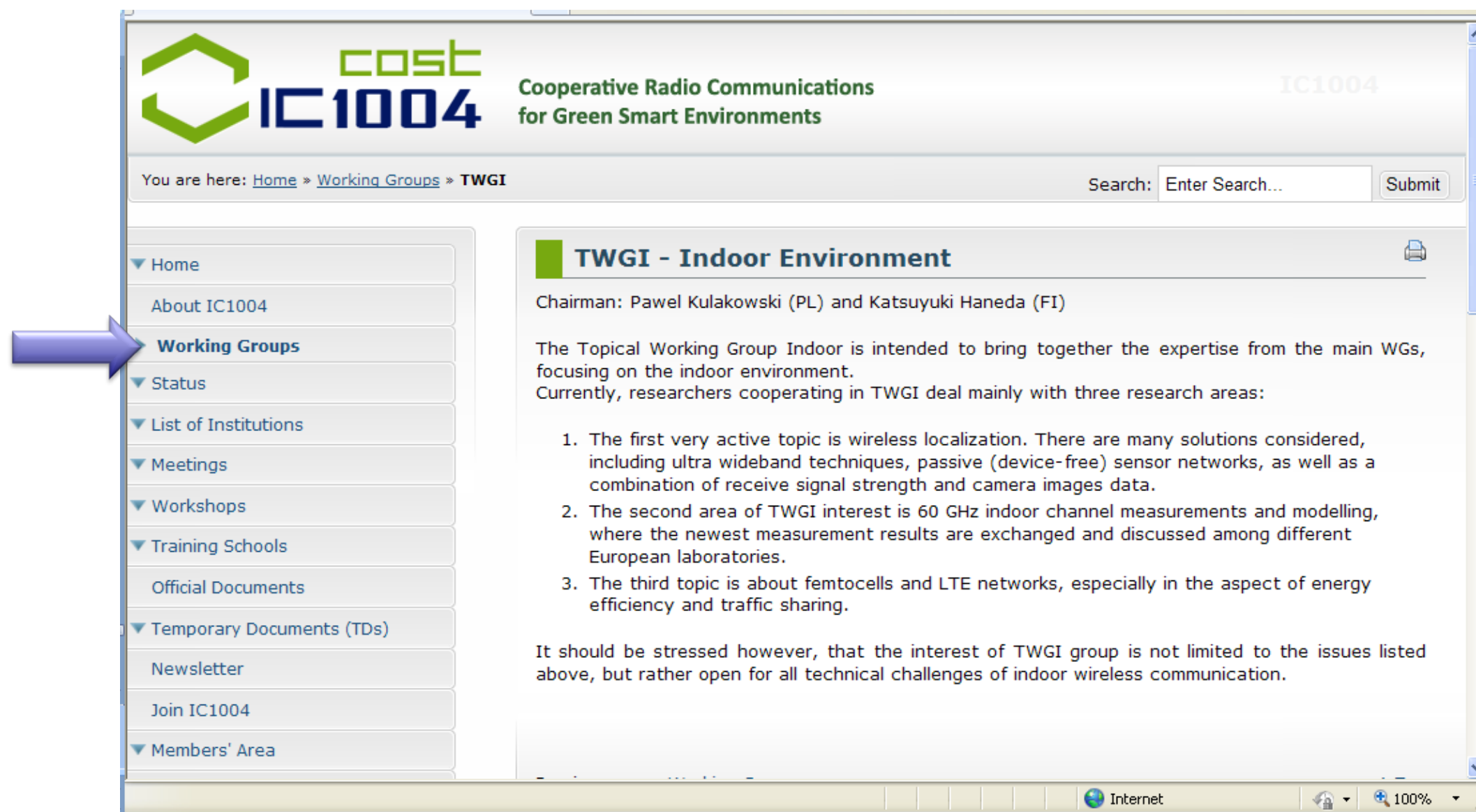
+About 20 conferences/courses/events with COST participants involved in organisation; announced at (www.ic1004.org)

...all under www.ic1004.org//announcements

Web Page

- Description of WGs Activities for the Web Page

WG Chairs: Please send updates



- 7th MCM and 2nd Workshop: **28-31 May 2013**; TU **Ilmenau**, Germany

Local organisers: Reiner Thomae, Wim Kotterman

Joint Workshop with FP7 GREENETS on "Self Organising Networks for Efficient Networks"

Schedule:

Tuesday 28th: Tutorial (morning) & Workshop (afternoon)

Wednesday 9:00 to Friday by lunch time: MC Meeting

- 8th MCM, 25-27 Sept 2013: Ghent , Belgium

JOINT with IC1102 (VISTA) as proposed by MC members of both Actions

Local organiser: Wout Joseph

- 9th MCM, Feb 2014 Ferrara, Italy

Local organisers: Vellio Tralli, Roberto Verdone

Offers for 2014:

- May 2014, Aalborg (Gert Pedersen)

Venue: AaU

- May or September, U. Montenegro, (Milica Pejanovic)

Venue: Budva resorts

14. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
6.1	Send reimbursement invoices docs	Those entitled to	Secretary	8-March
6.2	Send Minutes of Group Meetings	Group Chairs	Chair	8-March
6.3	Liaisons: send reports	Rapporteurs	secretary	8-March
6.4	WG activities description update	WG Chairs	Chair	8-March
6.5	Send STSM Applic.	Those interested	eCOST +Chair	<u>Open</u>
6.6	Tutorials: proposals	All	Chair	Anytime

14. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
6.7	Register to 7th MCM	attendees	website	13-May
6.8	Request TD number	authors	website	13-May
6.9	Entitle substitutions	MC	secretary	13-May
6.10	Submit full TD	Authors after after 6.7+6.8	website	20-May
	Book for Ilmenau meeting	attendees	-	ASAP



Cooperative Radio Communications for Green Smart Environments

THANK YOU

See you in Ilmenau, May 28-31, 2013