



Cooperative Radio Communications for Green Smart Environments

4th Management Committee & Technical Meeting Lyon, 2-4 May 2012



*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
5. Grant: Report from GH, election of GH for 2nd year, Budget 2nd year.
6. STSMs status and future calls
7. Training Schools
8. Horizon 2020 Position paper
9. Presentation and discussion of TDs; Invited Talks
10. Liaisons to other Bodies/Projects
11. Reports from Group Chairs
12. Future meetings
13. Dissemination activities (Newsletter, Publications, Web Page, Conferences)
14. AOB
15. 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.

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

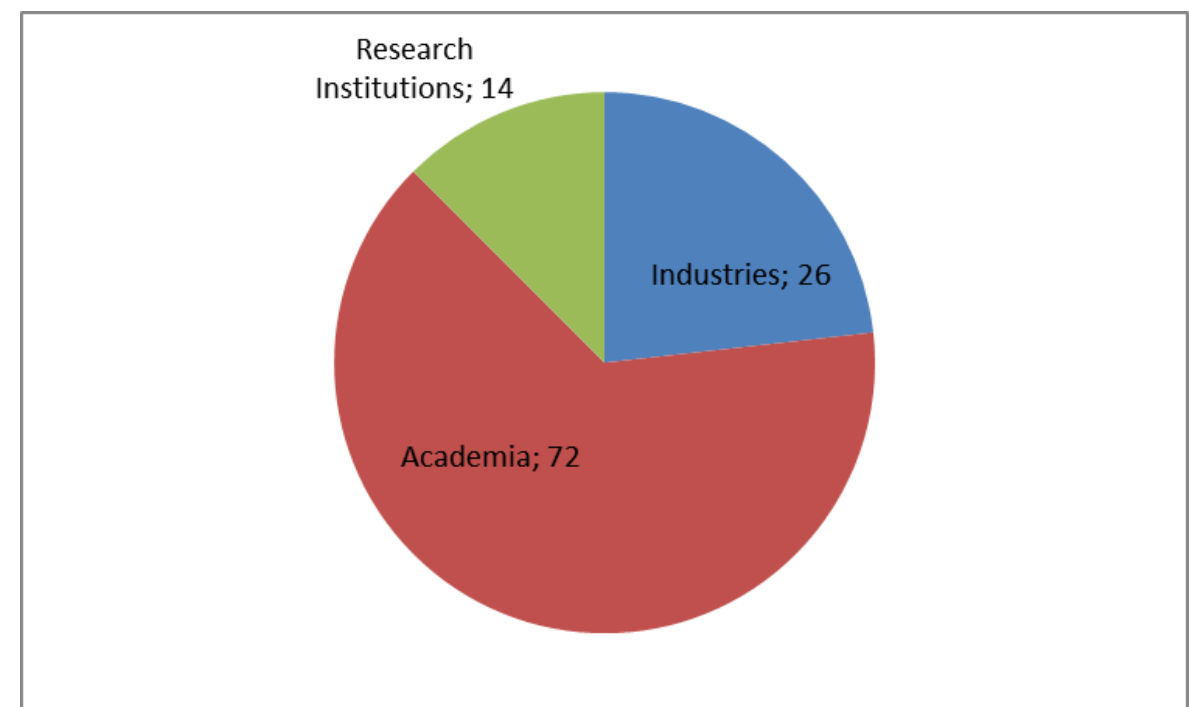
Number of COST country entities (institutes, etc.) currently participating: 105

Number of non-COST countries: 7

Number of non-COST entities (institutes, etc.) currently participating: 11 (+2)

Number of MC Members: 51 (+ Chair)

Number of registered experts so far: 275



After one year of activities:

- ✓ 4 Technical meetings, 270 TDs
- ✓ 3 STSMs Calls launched, 7 STSM completed or in progress
- ✓ Organisation of one Joint Workshop
- ✓ Organisation of 2 Training Schools, one joint
- ✓ 2 Tutorials
- ✓ Participation to Conferences, Special Sessions
- ✓ Launch of Newsletter
- ✓ Special Issue (Springer)
- ✓ Liaisons to URSI, 3GPP, ETSI, CTIA, Greentouch, IC905, VISTA, Earth, Greenet, ...

- Science Officer for ICT
Dr. Ralph Stübner,
Ralph.Stuebner@cost.eu

Current Non-COST Members (11):

- ComSearch; Motorola Mobility; NICT; Tokio Institute of Technology; JAIST; Tongji University; BUPT; ICESI; CRC; Univ. of Montenegro; La Trobe Univ.

Applications in progress:

- USA, National Institute of Standards & Technology
- Lebanon, American University of Beirut
- India, National Institute of Technology Jalandhar
- Gambia, St.Thomas Institute of Professional Studies Banjul

Approval procedure

- Non-COST Institution contacts MC Chair (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
 - 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)
-
- 15 NCIs contacted to join the Action
 - 11 Applications are APPROVED
 - 2 new are in progress

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	

IC1004 criteria: commitment to at least two TDs per year

New applications approval could be completed by
electronic voting or at meetings

When are we accepting applications from NCIs?

COST rules: -Mutual benefit

Other criteria:

- Scientific excellence (Universities)
- Role in industrial context (Industries)
- Technical topics and WGs addressed
- Geographic balance

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)

2. Reimbursement of travel costs:

MC members have the right to be reimbursed for their travel costs when attending an MC meeting. Reimbursing substitutes members and other experts is possible, as written in COST vademecum (www.cost.eu)

To entitle MC members and experts for reimbursement of every meeting, IC1004 approved a priority list, to be managed in terms of the amount of the budget availability:

- Up to two representatives per COST Country will be entitled for reimbursement, plus the Action Chair and Secretary, according to the following priority list:

2. Reimbursement of travel costs:

- Up to two representatives per COST Country will be entitled for reimbursement, plus the Action Chair and Secretary, according to the following priority list:
 1. All MC members who apply
 2. MC official substitutes or those formally nominated by the National Coordinator as substitutes for a particular meeting
 3. while **budget available** and if not MC members: TDL Manager, TWG Coordinator, Disciplinary Working Groups Chairs, Topical Working Group Chairs and SubWorking Group Chairs
 4. while **budget available**, non-MC members who present a TD to the meeting, when replacing an MC member (a formal nomination from the MC member is required prior to the meeting)
- while **budget available**, other experts, one per country.

(Approved at 2nd MCM, 19 October 2011)

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)

Please notify your schedule restrictions when registering,
i.e., two weeks in advance to the meeting start date
(will be included to the registration form)

Grant – spent as of May 1st, 2012

First Year term (June 1st 2011 - May 31 , 2012) : **133 700 €**

Type of expenditure	Spent	To be spent
1. Travel costs for meetings	66 649,48 €	25 785,61? €
2. Workshop Supports	3 000,00 €	---
3. STSMs	4 390,00 €	1 860 ? €
4. Training schools &Tutorials		11 000 ? €
5. Dissemination/ Publicat.s	3 053,49 €	---
6. Others	270,25 €	500 ? €
Secretariat - 15% of sum(1:6)	17 200,00 €	---
TOTAL	94 563,22 €	39 145,61 €

EXPECTED TOTAL

133 708, 83 €

Travel and Reimbursement issues

Reimbursements for this MCM:

30 (MC or official substitutes) entitled

Reimbursement will be based on a proportional basis, based on the remaining budget vs. the total of the travel expenditures.

- Please give the Secretary (Giorgia) your original signed reimbursement form during the meeting
- Send travel copies in PDF format no later than May 15th , **2012**

Grant Holder is elected for every year period

Candidacies:

- CNIT, Italy; GH responsible: Prof. Roberto Verdone
- Others?

Grant – Second Year Term

(June 1st 2012 - May 31 , 2013)

Type of expenditure		Budget (€)
1. Travel costs for meetings	(including WS)	92.250
2. STSMs		18.000
3. Training schools		37.500
4. Dissemination/ Publicat.s		5.940
5. Others		1.000
Secretariat - 15% of sum(1:6)		23.203
TOTAL		177.893 €

Detailed Workplan and Budget is prepared by Chair and Steering. Circulated among the MC members by 9-May

- 5 STSMs approved and in course
 - Dr Geoffrey Hilton (U.Bristol,UK); Mr Nikola Gvozdenovic (VUT, Austria); Dr Zoran Utkovski (MK); Imarn Latif (Eurecom, France); Wei Wang (DLR, Germany);
- +2 Under Evaluation (to be notified very soon, performed by May 31st)
- Total of 11 applications
- Total budget expenditure 6050€
- Results presented at Meetings

Procedure

applicant fulfill form at eCOST tool:

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

and sends it to Chairman and Host Institution
by (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, ...

- Training School(s):

First IC1004 Training School:

“Vehicular Connectivity”

Venue: FTW Telecommunications Research Center Vienna

Dates: May 21-23, 2012.

Organiser: Christoph Mecklenbraeuer (cfm@nt.tuwien.ac.at)

Registration: <http://www.ftw.at/events/>

Information: www.ic1004.org

IC1004 support:

✓ 20 PhDs and ESRs granted // 45 registered

+ Organisational support

- Training School(s):

WiserBAN – COST IC1004 Training School on

“Wireless Body Area Networks”

Venue: Università di Bologna, Giorgio Prodi Lecture Hall

Dates: June 4 - 6, 2012

Fee: 250€

Organisers: C.Buratti (WiserBAN), R.Verdone (IC1004), ...

Registration: by May 21st via email at secretary@ic1004.org

IC1004 support:

+ IC1004 Speaker (Second Year Term Budget)

Second IC1004 Training School (proposal):

“PROPAGATION MEASUREMENT, MODELING, AND OTA-EMULATION”

- Venue: Ilmenau (TU-Ilmenau and Fraunhofer IIS facilities)
- Dates: by end of October 2012
- Organiser: Wim Kotterman (TU Ilmenau)
- Duration: 3 days, 25 units (6 for practical issues)
- Attendees: 15 - 20 students
- Topics: Multidimensional channel sounding
Measuring and evaluating mobile systems
UWB Systems
Millimeter wave systems
OTA and emulation
- IC1004 support: Same as for 1st TS

Horizon 2020

- Commission proposal for a 80 billion euro research and innovation funding programme (2014-20)
- Part of proposals for next EU budget, complementing Structural Funds, education, etc.
- A core part of Europe 2020, Innovation Union & European Research Area:
 - **Responding to the economic crisis** to invest in future jobs and growth
 - **Addressing peoples' concerns** about their livelihoods, safety and environment.
 - **Strengthening the EU's global position** in research, innovation and technology

- Consultation on Future Network Technologies Research and Innovation in HORIZON2020

IC1004 Steering and Technical Committees are working on a Position Paper, based on 8 questions at:

http://ec.europa.eu/information_society/events/future_networks/concertation/horizon2020-stakeholder-consultation/index_en.htm

Contributions from the Working Groups participants are welcome specially to the following question:

How would you describe (in less than one page) your ideas and/or plans for future R&D challenges/topics relating to Network Technologies?

Send your inputs to chair@ic1004.org

- Net!Works (<http://www.networks-etp.eu>)
(European Technology Platform)

Net!Works

- A new edition of the SRA (Strategic Research Agenda) is being prepared, in order to give inputs to the EC's Framework Programme 8 – Horizon 2020.
- This edition will be released by mid July.
- Inputs with ideas for research topics and their rationale are most welcome (1/2 page).
- Send inputs to Luis M. Correia: luis.correia@lx.it.pt

- There is a total of 58 TDs to be presented at this MCM.
- 60 TD numbers were requested by the deadline
- 2 TDs (04004, 04054) withdrawn
- +2 Keynote speakers:
 - Dr. Dieter Smiley, “Standardization of cooperative intelligent transportation systems (ITS) from an European point of view”
 - Dr. Benoit Derat, “On the challenge of defining conservative specific absorption rate assessment procedures”

**TDs
allocation
to WGs**

WG 1	3, 5, 13, 20, 28, 35, 49, 56, 58, 60	(10)
WG 2	21, 24, 46	(3)
WG 3	6, 15, 37, 45, 47, 50, 51, 59	(8)
WGs 1+2	-	(0)
WGs 1+3	52	(1)
WGs 2+3	10, 31	(2)
WGs 1+2+3	44	(1)
SWG 1.1	11, 23, 40	(3)
SWG 2.1	30, 32, 33, 34, 41	(5)
TWG B	1, 2, 22, 26, 38, 53	(6)
TWG V	9	(1)
TWG U	17, 18, 19, 27	(4)
TWG i	8, 12, 14, 16, 25, 29, 42, 55, 57	(9)
TWG O	7, 36, 39, 43, 48	(5)

WGs sessions Schedule

	Wednesday	TD#	Thursday	TD#	Room	Friday	TD#
9:00-10:30	WORKSHOP	8:20 Opening 8:30 Invited talk 9:30 Session 1	Technical Plenary	2 Invited talks ETSI, SAGEM +TD#44	Rotonde	SWG 1.1	11, 23, 40 +DISC
					Ouest	Indoor	16,57,8,29,55
					Est	BAN	1, 26,38, 22
11:00-12:20	WORKSHOP	Session 2	WG 1	13, 20, 35, 60	Rotonde	OTA	7, 43, 48 +DISC
			WG 2	21, 24, 46 + DISC	Ouest	Indoor	14,42,25,12
			WG 3	47,15,50,51	Est	Urban	17,18,19,27
14:00-16:00	WORKSHOP	14:00 Invited talk 15:00 Session 3	WG 1	5,49,28,56,58	Rotonde	WG 1	3+DISC
			SWG 2.1	30, 33, 34, 41, 32	Ouest	Veh / Urban	9/DISC
			WG 3	45,37,59,6+DISC	Est	BAN	2, 53, +DISC
						PLENARY (15:00-16:15)	
16:30-17:45	IC1004 MCM	PLENARY	SWG 1.1 + OTA	36, 39, DISC	Rotonde		
					Ouest		
			WG 1+3 / 2+3	52 / 10, 31	Est		
			18:15 Departure to Social Event				

For Working Groups discussions:

Your views on Scientific Challenges

- Long-Term:
 - Contribution (individuals or WGs) to the Position Paper for Horizon2020 and to the Net!Works
- Short -Term:
 - Contribution of WGs to Scientific Objectives for the IC1004 2nd year Workplan
- Activities within IC1004 on second year:
 - Short Term Scientific Missions 2nd
 - Training Schools topics/proposals for 2013
 - Tutorials offers for coming meetings

...MC Plenary continues on Friday at 15:00

Plenary session Resume

Attendance lists from WGs/SWGs/SIGs:

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

No signature, no reimbursement...

Liaisons:

- Haibin Zhang, (NL) GreenTouch
- Sana Salous, (UK) Vice-Chair of URSI C
- Istvan Szini (USA), CTIA, 3GPP
- Moray Rumney, 3GPP RAN4
- Fernando Velez (PT) IC905
- Luis Correia, (PT) FP7 Earth
- Christos Verikoukis (ES), Greenet
- Thomas Kuerner, EurAAP
- Benoit Derat, IEC, ICES, ...
- Newcom#, Roberto Verdone

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

Please send your reports to Secretary by **May 15th**

- IC1004 Special Session to URSI-ISSSE'2012 Conference, Potsdam (Germany) 3 - 6 Oct; <http://www.issse2012.org/>



ISSSE 2012 - Potsdam, Germany

International Symposium on Signals, Systems and Electronics 2012

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Welcome to the Conference ISSSE 2012

The ISSSE (International Symposium on Signals, Systems and Electronics) is held every three years, exceptionally in 2012 after two years, and is organized under the guidance and with sponsorship of the international steering committee of the [URSI Commissions C](#) (Radiocommunication Systems and Signal Processing) and [D](#) (Electronics and Photonics). Moreover each radio system depends on its antenna that couples the electromagnetic waves into the medium. Thus we include aspects of [URSI Commission B](#) (Fields and Waves) into the technical scope of the symposium. This year the ISSSE will be held in **Potsdam, Germany October 03-05, 2012**. This event is organized by [IHP](#) and [Fraunhofer HHI](#).

Important Dates

Paper Submission Deadline:	1 st June 2012 (full paper 4-6 pp.)
Acceptance Notification:	31 st July 2012
Final Version submission:	31 st August 2012
Advance Program Delivery:	31 st August 2012

Technical Co-Sponsors

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[ITG](#) INFORMATION TECHNOLOGY SOCIETY WITHIN VDE



- EARTH Training Workshop (<https://www.ict-earth.eu>)

June 13th, 2012, MINATEC Grenoble, FR

- Luis Neves, Deutsche Telekom and Chairman of GeSI (DE): Greening the Earth (Keynote)
- Oliver Blume, Alcatel-Lucent (DE): How do exploding traffic demands impact network sustainability and how to estimate the effect of saving techniques?
- Dieter Ferling, Alcatel-Lucent (DE): What energy saving possibilities are opened by new BS hardware solutions?
- Istvan Godor, Ericsson (HU): How to deploy and operate mobile networks in an energy efficient manner?
- Magnus Olsson, Ericsson (SE): How can different energy saving solutions be combined, and what is the overall resulting gain?
- Dario Sabella, Telecom Italia (IT): How an operator can benefit from EARTH solutions: practical feasibility in the real networks?

- Disciplinary Working Groups:
 - WG1: Claude Oestges, U.C.L. (BE)
 - SWG1.1: Vincent 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)
- OTA Testing, TGW-O
Gert Pedersen (DK), Wim Kotterman (DE)

Approved:

- 5th MCM, 24-26 Sept 2012,
 - Bristol (UK), Mark Beach & Alister Burr
 - 7th MCM: (May 2013**)
 - TU Ilmenau, Germany, Reiner Thomae
 - 8th MCM, 25-27 Sept 2013,
 - Ghent (Be), Wout Joseph
- JOINT with VISTA (IC1102)** as proposed by MC members of both Actions

Offers:

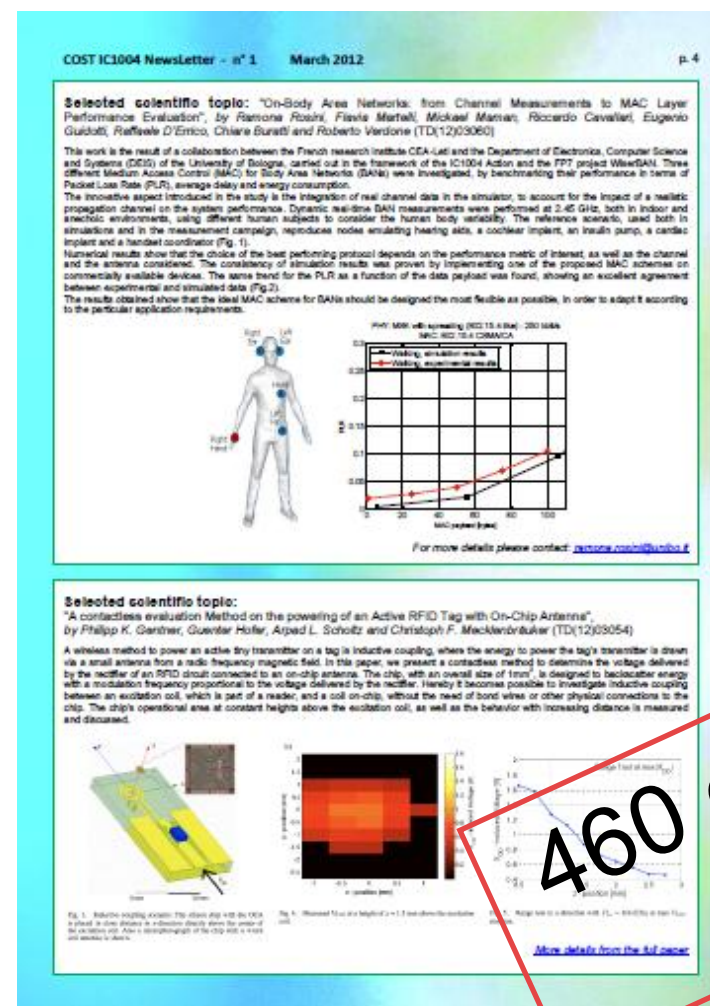
6th MCM: (Jan/Feb 2013)

- U. **Malaga**, Spain, Raquel Barco
- U. **Ferrara**, (Bologna), Italy, Velio Tralli

Newsletter

Editor: Prof. Alain Sibille

Welcome to distribute the link among your professional contacts:
<http://www.ic1004.org/index.php?page=newsletter>



460 downloads so far

“SMALL CELLS COOPERATIVE COMMUNICATIONS”

Joint with iPLAN FP7 project

<http://ic1004-iplan-2012.conf.citi-lab.fr/>

Special Issue @



EURASIP Journal on Wireless Communications and Networking

Special Issue on
Small Cell Cooperative Communications

CALL FOR PAPERS

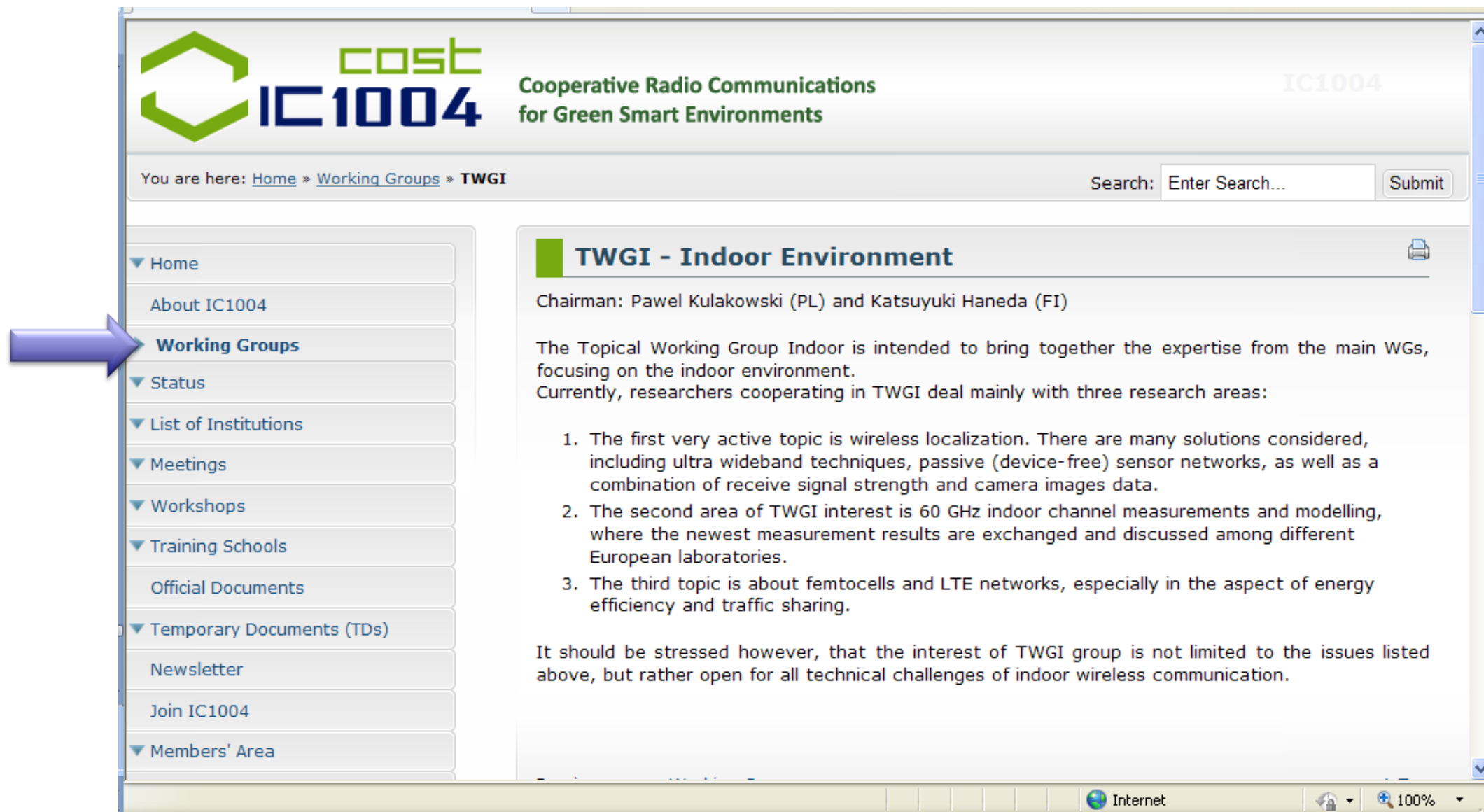


Mobile Internet Traffic today exceeds the total Internet traffic of 10 years ago. 3GPP Cellular networks have succeeded in offering sufficient coverage and capacity up to now, but the exponential current increase in mobile data traffic has opened a new challenge: providing high data rates in densely populated areas with limited spectrum availability, quite insufficient to cover the increasing demand. With radio access systems offering performance close to the Shannon limit, the addition of more cells in Radio Access Networks, combined with a tighter interference control is essential to continue increasing capacity. Small cells, pico- and femtocells are playing a key role in the current evolution of Cellular Networks, providing improved scalability, automated configuration and optimisation, rapid and cost effective deployment, efficient use of available backhaul, and high capacity density and enhanced user experience.

Web Page

- Description of WGs Activities for the Web Page of 5-10 lines from all WG Chairs is required by 18-May

Update



June:

- Participation to ICC, at Special sessions on "Cognitive and Cooperation for Green Networking" (in coop. with C2POWER), and "Cooperative and Cognitive Mobile Networks" (in coop. With COcONET); Ottawa (Canada) 10-15 June <http://www.ieee-icc.org/>

July:

- COST IC1004 Special Session (Workshop) on "Cooperative Radio Communications" at Future Network & Mobile Summit 2012, Berlin (Germany) 4 - 6 July ; <http://www.futurenetworksummit.eu/2012/>

September:

- COST IC1004 Special Sessions at IEEE ComSoc CAMAD 2012, Barcelona (Spain) 17-19 Sept; <http://camad2012.av.it.pt/>

October:

- COST IC1004 Special Session to URSI-ISSSE'2012 Conference, Potsdam (Germany) 3 - 6 Oct; <http://www.issse2012.org/>

November:

- IC1004 Special session on "Body Environment Communications" at CEMA'12 Conference, Athens (Greece) 8 -10 Nov

<http://tu-sofia.bg/ENG/fktt/cema12>

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

17th International OFDM--Workshop 2012 (InOWo'12)

August 29th-30th 2012

Schloss Hugenpoet, Essen, Germany

<http://ofdm.nts.uni-due.de>

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

15. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
4.1	Send reimbursement invoices docs	Those entitled to	secretary	11-May
4.2	Send Minutes of Group Meetings	Group Chairs	Chair	15-May
4.3	Liaisons: send reports	Rapporteurs	secretary	15- May
4.4	WG activities description	WG Chairs	Chair	18-May
4.5	Send STSM Applic.	Those interested	eCOST +Chair	Open
4.6	Tutorials: proposals	All	Chair	Anytime

15. Close of Meeting

Action Points after 4th MCM:

AP	WHAT	WHO	WHOM	WHEN
4.7	Register to 5th MCM	attendees	website	7-Sept
4.8	Request TD number	authors	website	7-Sept
4.9	Entitle substitutions	MC	secretary	10-Sept
4.10	Submit TD	Authors after 4.7	website	14-Sept
	Book for Bristol meeting	attendees	-	ASAP



Cooperative Radio Communications for Green Smart Environments

THANK YOU

See you in Bristol, UK, September 24-26

