

# 3nd Management Committee Meeting

Lisbon, Portugal 1-3 February 2017







Claude Oestges ICTEAM Université catholique de Louvain

# 2. Adoption of the Agenda

- 1. Opening formalities
- 2. Adoption of the Agenda
- 3. Approval of the Minutes of the last MCM (Lille)
- 4. Status of the Action
  - Approval of IPC institutions
  - Reminders about rules and procedures
  - ECI Representative Mandate
  - New SWG on IoT for Health
- 5. Review of action deliverables
- 6. Report from Grant Holder
- 7. Report from Training Manager (STSMs, Training Schools and Tutorials)
- 8. Keynote talks
- 9. Presentation and Discussion of Technical Documents
- 10. Future MCMs and Workshops
- 11. Reports from Working Group Chairs
- 12. Report from Dissemination Manager
- 13. Liaisons with International Bodies and Projects
- 14. AOB
- 15. Close of Meeting

# 2. Adoption of the Agenda

Any change to the agenda?

### **ATTENDANCE LISTS**

Please sign the attendance list for the day(s) your are present

#### **AND**

**ONE** attendance list for **EACH** WG/EWG you attend

**No reimbursement** of travel expenses (for those entitled to) if attendance lists are not duly signed

### **NEWSLETTER MEETING**

Who? Members of the steering committee When? Feb 1<sup>st</sup> at 18:00 Where? In room 02.3 (ground floor)



Any comment on the minutes (sent by email/posted on the website)?



Lille, May 30 - June 1, 2016

Subject | Minutes of the Second Management Committee Meeting of COST Action CA15104 "Inclusive Radio Communication Networks for 5G and beyond (IRACON)"

Lille, France 30/05/2016



### **Partners**

Number of signatory countries: 34 (out of 36)

Number of MC Members : 67 (+ Chair)

Near Neighbour Country Institutions: 1 e-approved

National Research Tomsk Polytechnic University Russian Federation

International Partner Country Institutions:

√ 13 approved (11 activated so far)

Beijing Jiaotong University China Tokyo Institute of Technology Japan

Comsearch United States of America
United States of America

Samsung Electronics Co. Korea, Republic of

Japan Advanced Institute of Science and Technology Japan

Motorola Mobility LLC United States of America

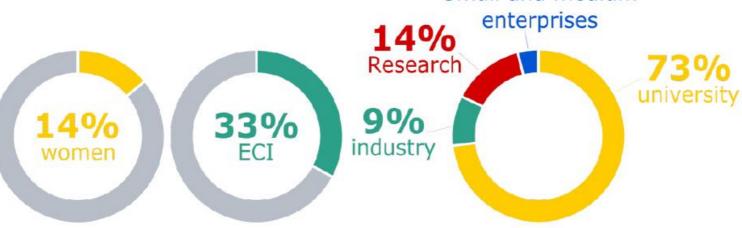
Universidad Icesi Colombia
Niigata University Japan
University of Prishtina Kosovo

✓ 1 pending approval



### 4. Status of the Action

#### Facts & Figures Signatory countries: 34 Austria, Belgium, Bosnia and Herzegovina, Czech Republic, Denmark, Cyprus, France, Finland, fYR Macedonia, Germany, Greece, Hungary, Iceland, Ireland, Israel, Italy, Lithuania, Luxembourg, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, United Kingdom COST international partner countries: 6 Canada, China, Columbia, Japan, South Korea, 65 research MC Members registered presented participants infrastructures TD/workshop per meeting +chair) (average) papers (average) 142 (industry/university/ research/small) and medium enterprises) eetings training school registered per per grant year 4% currently participating Small and medium





# Partners (1)

- COST Country institutions
  - ✓ Commitment to have contributions (TD, tutorial, etc.) at least at ONE meeting/training school per year
  - ✓ Deregistration from the internal website access if not fulfilled
- Near Neighbour Country institutions
  - ✓ Commitment to have contributions (TD, tutorial, etc.) at least at ONE meeting/training school per year
  - ✓ Deregistration from the internal website access if not fulfilled



# Partners (2)

International Partner Country Institutions

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 have contributions (TDs, tutorial, etc.) at TWO meetings/training schools per year
- ✓ Deregistration from the internal website access if not fulfilled



### **New approvals**

- Council for Scientific and Industrial Research (South Africa)
  - ✓ Representative: Dr. Albert Lysko



### **June 2016**

Participation in EuCNC: IRACON special session on IoT (R. Verdone)

### September 2016

Participation in PIMRC: IRACON workshop on 5G (L. Clavier)

Website, social media presence and IRACON newsletter

Preparation of two convened sessions, accepted at EUCAP 2017 (March 2017)

### October 2016

2nd TM (Durham, 4-6 2016)

50 TDs, 65 participants

3 Invited Speakers

Joint workshop with IET (3 Oct 2016), with about 45 participants

### February 2017

3rd MCM (Lisbon, 1-3 Feb 2017)

77 TDs, more than 130 participants

2 Invited Speakers

Tutorial on IoT for 5G (R. Verdone), with 30 participants



### Important Reminders: Reimbursement Rules

- MC meetings
  - ✓ Up to two MC members per COST Country
  - ✓ MC members can be replaced by officially nominated MC substitute, if the Chairman and GH receive request by given <u>deadline</u>
  - ✓ Priority for MC meetings
  - 1. All MC members who apply, or MC official substitutes, Action Chair, Secretary, invited speakers and ECI representative
  - 2. WG/EWG/SWG Chairs (while budget is available\*)
  - 3. Non-MC members, presenting a TD, when replacing an MC member (while budget is available\*)
  - 4. Other experts, one per country (while budget is available\*)

### Technical meetings

- ✓ Priority
- 1. Action Chair, invited speakers
- 2. WG/EWG/SWG Chairs (while budget is available\*) in combination with COST policy priorities (inclusiveness/gender)
- 3. Core Group members, Secretary (while budget is available\*)



### Important Reminders: Deadlines and Procedures

- TD submission
  - ✓ Request a TD number (20 days before the meeting)
  - ✓ Send to the secretary a full TD (10 days before the meeting) using the cover page available on the website

### These deadlines are set to enable the StC to prepare the meeting schedule

- Meeting registration: two actions are required
  - ✓ Register on IRACON website (20 days before the meeting)
  - ✓ Accept the e-cost invitation



### Important Reminders: Deadlines and Procedures

- Reimbursement (for those entitled to)
  - ✓ Accept the e-cost invitation
  - ✓ Fill the the e-cost and submit the claim (after the meeting)

### The reimbursement procedure MUST take place on e-cost

- ✓ If you cannot attend but are replaced by an eligible substitute
  - Send a request to the Chair and GH (cc: secretary) at least 20 days
    prior to the event to enable the reimbursement of your official substitute



## Important Reminders: e-Mailing and Acknowledgment

- Usage of global reflector
  - ✓ From this meeting on, the global reflector (<u>all\_ca15104@iracon.org</u>,

    moderated) should not be used to advertise events (outside those of the

    Action itself)
  - ✓ Ask Lucia (<u>lucia.vitiello@unibo.it</u>) to include your announcement on the IRACON Web Page
- WG reflectors have been created
- Acknowledge COST CA15104 IRACON on all joint publications!



## **ECI** Representative

What is an ECI?

Early Career Investigator, PhD + 8 years maximum

Role of ECI representative in the core group (one-year mandate)

Participation to core group discussions

Preparation of meetings (pre-meeting, etc.)

Newsletter editor

**Blog moderator** 

→ Margot Deruyck (BE) was elected for one year



- There will be new elections in the next meeting
  - → Please send candidacies to the secretary before May 1, 2017



### New SWG on IoT for Health

EWG-IoT proposes to activate a Sub-Working Group on

IoT for Health (SWG IoT-Health)

#### Motivation

- ✓ Many partners declared interest in the topic (EUC, PUPIN, JCT, CEA-Leti, UCD, IMU, UBI, GUT, ETHZ, NIST, UPV, IST, ITU)
- ✓ Different TDs already presented at previous and current meetings (4 TDs in Lille, 6 TDs in Durham and 7 TDs in Lisbon)

### Co-Chair candidacy received from

- ✓ Slawomir J. Ambroziak, GUT
- ✓ Kamran Sayrafian, NIST
- ✓ Stephen Wang, OCADO



# **Confirmed Upcoming Meetings**

- Fourth MC meeting and technical meeting
  - ✓ Lund (SE), May 29-31 2017 + experimental tutorial on massive MIMO on June 1st, 2017
  - ✓ Organizers: Vincent Lau and Fredrik Tufvesson

- Fifth MC meeting and technical meeting
  - ✓ Graz (AT), Sep 11-13 or 13-15 2017 (exact dates TBC by the end of this meeting)
  - ✓ Workshop on Localization and IoT
  - ✓ Organizer: Klaus Witrisal



# Dissemination Actions (to be discussed in WG) Special Sessions

- IRACON special sessions at EuCNC
  - ✓ Oulu (FI), June 12-15, 2017
  - ✓ Submission deadline on Feb 20, 2017
- URSI GA
- Conferences accepting special sessions
  - ✓ ISWCS 2017, Bologna, Aug 28-31, 2017
  - ✓ EuCAP 2018, London



# **Dissemination Actions (see Action Points)**

- List of research groups with activity in the area of the Action (name of the group and contact person/email)
- List of doctoral schools (i.e., universities awarding a Ph.D. degree) in Europe with activity in the area of the Action (name of the university/school and contact person/email)
- → MC members to send this list for their respective country to the secretary by March 1, 2017



### Technical deliverables for the first two years

- **Deliverable 1** (M14, **May 2017**): Working Groups first year term annual report summarising the achievements of every WG → **all WGs**
- Deliverable 3 (M24, March 2018): Submission to international bodies of contributions about concerted 5G radio channel models → WG1
- Deliverable 4 (M24, March 2018): Collaborative white paper on new localization techniques suitable for 5G and the Internet of Things → EWG-LT+IoT
- Deliverable 5 (M26, May 2018): Working Groups second year term annual report summarising the achievements of every WG → all WGs



# Technical deliverables for the last two years

- Deliverable 6 (M36, March 2019): Collaborative white paper on future architecture and protocols for the Internet of Things → EWG-IoT
- Deliverable 7 (M38, May 2019): Working Group third year term annual report summarising the achievements of every WG → all WGs
- **Deliverable 8** (M42, September 2019): Technical inputs and liaison statements to Standardisation Groups on metrics for Over the Air (OTA) testing

→ EWG-OTA

- Deliverable 9 (M42, September 2019): IRACON concerted radio channel models for 5G and beyond (draft book chapter)
   → WG1
- Deliverable 10 (M26, May 2018): Working Group final report summarising the achievements of every WG in the overall Action (draft book) → all WGs



### In practice, for Deliverable 1

#### Edition

- ✓ WG chairs are the contributors
- ✓ Chair and Vice-Chair are the editors

#### Content

- √ 1 page per WG/meeting
- ✓ Scientific results and dissemination activities (no equations!)
- ✓ Will be published on IRACON website

#### Schedule

- ✓ Draft version by April 1, 2017
- ✓ Review by Core Group by May 1, 2017
- ✓ Delivery by May 31, 2017



# 6. Report from Grant Holder

# Grant Holder Cinit

**Secretary**Miss Lucia Vitiello

## **Budget for Y1**

Networking Tool	Description	Budget	Actual balance
Meetings	2 MCMs, 1 TM, 1 workshop	97 910.00 EUR	50 346,76 EUR
Training Schools	1 TS	12 500.00 EUR	12 500.00 EUR
STSMs	6 STSMs	7 200.00 EUR	2 176.00 EUR
Dissemination	1 (website set-up)	4 500.00 EUR	0.00 EUR
Other Expenses Related to Scientific Activities	Bank fees	498.65 EUR	280 EUR
Total Science Expenditure		122 608.65 EUR	65 521.41 EUR
Financial and Scientific Administration and Coordination (MAX. 15%)	15 %	18 391.30 EUR	9 828.21 EUR
Total Grant		140 999.95 EUR	75 349.62 EUR

# 6. Report from Grant Holder

# Grant Holder

**Secretary**Miss Lucia Vitiello

## Work and Budget Plan for Y2

Networking Tool	Description	Budget
Meetings	3 MCMs	126 000.00 EUR
Training Schools	2 TS	15 000.00 EUR
STSMs	6 STSMs	7 200.00 EUR
Dissemination	-	0 EUR
Other Expenses Related to Scientific Activities	Bank fees	500.00 EUR
Total Science Expenditure		148 700.00 EUR
Financial and Scientific Administration and Coordination (MAX. 15%)	15 %	22 300.00 EUR
Total Grant		171 000.00 EUR



### Reimbursement schedule

- According to the new vademecum, 35 % of the Grant will be paid to the GH after the end of the Grant Period
- The consequences are ...

# 7. Report from Training Manager

### **Training Schools**

- Training School on Antennas and Propagation for Body Communications (joint with WIBEC)
  - ✓ Dresden (DE), March 1-3, 2017
  - ✓ IRACON organizers: Kimmo Kansanen, Luis Correia, Kamran Sayrafian and Narcis Cardona
- Training School on Large-Scale Propagation (joint with ESoA)
  - ✓ Louvain-la-Neuve (BE), June 12-16, 2017
  - ✓ Organizers: Vittorio Degli-Esposti, Thomas Kürner and Claude Oestges



# 1st Training School: Grant Selection Procedure and Results

19 applications received

- 1 after the deadline
- 3 from non eligible countries (not COST or NNC)
- 3 from the same institution (→ one was rejected)
- → 14 accepted (but 1 withdrawal)
- → 13 PhD students funded, provided they sign the TS attendance list

# 7. Report from Training Manager

### **STSMs**

8 proposals received so far

5 already accepted

2 rejected

1 under review

Remaining budget: 2176.00 EUR

- → There is still room for at least 2 STSMs (maybe a few more after the Lisbon meeting, but they need to be carried out and financially concluded before April 30, 2017
- → Apply before March 1st, 2017



# Challenges and Techniques for Characterizing Massive MIMO Antenna Systems for 5G

Taro Eichler, Technology Manager, Rohde & Schwarz, Germany

Innovation in wireless in-body devices

Sebastian Schostek, Ovesco AG, Germany

 COST: Portugal and Europe's leadership in mobile communications

Luis Correia, IST, Portugal

# 9. Presentation and Discussion of TDs

### There are 75 TDs to be presented

### Working Groups discussions should include

- Deliverables
- Training School proposals/topics for 2018 and beyond
- Workshop proposals for 2017 and beyond (we already have one proposal for Sep 2017)
- EuCNC special sessions
- Joint activities with H2020 projects
- Tutorial offers for upcoming meetings (starting from January 2018)
- Joint activities (experiments, papers, etc.)
- Short Term Scientific Missions among participant institutions
- Any other idea to foster the dissemination of the Action ?



# 9. Presentation and Discussion of TDs

Lisbon, Feb 1-3, 2017	Day One			Day Two			Day Three		
Hours		9.00 - 11.00		9.00 - 11.00			9.00 - 11.00		
Room		Amphi		Amphi 02.2 02.1		Amphi	02.2	02.1	
Sessions		Plenary		WG1	WG2	WG3	OTA+WG1	EWG-IoT	WG3+RA
Topic				Simulations		Spectrum+5G	Measurements	Energy+WSN	RA
TD number or other				35		39	15	51	73
TD number or other	Mar	aagamant Camp	nittoo	36		45	67	20	74
TD number or other	IVIdi	nagement Comm	iittee	41		42	47	1	DISC-RA
TD number or other	]			70		68	64	DISC-IoT	
TD number or other				DISC-WG1	DISC-WG2	DISC-WG3	DISC-OTA		
Coffee Break		11.00-11.30			11.00-11.30		11.00-11.30		
Hours		11.30 - 13.00			11.30 - 13.00		11.30 - 13:15		
Room		Amphi		Amphi	02.2	02.1	Amphi		
Sessions		Plenary		loT + WG1	EWG-LT	EWG-RA		Plenary	
Topic		Invited talks		Body	Localisation	Testbeds			
TD number or other	Dr. Taro	Eichler, Rohde	& Schwarz	6	9	27			
TD number or other	Dr. Sebas	Dr. Sebastian Schosteck, Ovesco AG		25	13	31	Management Committee		
TD number or other				44	49	43			
TD number or other				54	66	72			
Lunch		13.00 - 14.30			13.00 - 14.30		13.15		
Hours		14.30 - 16.00			14.30 - 16.00				
Room	Amphi	02.2	02.1	Amphi	02.2	02.1			
Sessions	WG1	WG2	WG3	OTA + IoT	IoT + LT	EWG-RA			
Topic	Simulations	Coding	RRM 4G+	Vehicular	LT+Health	CRAN, MIMO	_		
TD number or other	4	7	57	2	30	65			
TD number or other	26	61	75	8	18	10	_		
TD number or other	58	62	3	16	23	50			
TD number or other	59	33	24	11	DISC-Body	48	_		
Coffee Break		16.00 - 16.30		16.00 - 16.30					
Hours		16.30 - 18.00		16.30 - 18.00					
Room	Amphi	02.2	02.1	Amphi	02.2	02.1			
Sessions	WG1	WG2	WG3	WG1	EWG-LT	EWG-IoT			
Topic	Measurements	MIMO	Hetnets	Modelling	RF positioning	Testbeds			
TD number or other	12	` ,		34	21	22	_		
TD number or other	32		n 02.1)	5	29	40			
TD number or other	46	60	28	52	DISC-LT	77	1		
TD number or other	76	69	37	55		71	1		
TD number or other	DISC-WG1	DISC-WG2	38	56		53	]		

19.00 Bus departs to dinner



# Management Committee Meeting resumes on Friday at 11:30 am



# **Upcoming Meetings**

- Fourth MC meeting and technical meeting
  - ✓ Lund (SE), May 29-31 2017 + experimental tutorial on June1, 2017
  - ✓ Organizers: Vincent Lau and Fredrik Tufvesson

- Fifth MC meeting and technical meeting
  - ✓ Graz (AT), Sep 12-14 2017
  - ✓ Workshop on Localization and IoT
  - ✓ Organizer: Klaus Witrisal



# **Upcoming Meetings**

- Sixth MC meeting and technical meeting
  - ✓ Jan-Feb 2018
  - ✓ Confirmed proposal from European University Cyprus (CY)

### Future meetings

✓ Proposals from Aalborg University (DK), U. Catania (IT), Uni. Montenegro (ME), TU Vienna (AT), CTTC (ES), Uni. Cartagena (ES), ...



### Workshops

- IRACON Workshop on Localization and IoT
  - ✓ Graz (AT), on Sep 12, 2017
  - ✓ One-day workshop co-organized by COST IRACON and TU-Graz Lead Project "Dependable Things"
  - ✓ Organizers: Klaus Witrisal, Carles Anton and Chiara Buratti
  - ✓ Tentative schedule
    - 2 keynote talks
    - Regular workshop papers, in particular papers that combine both topics
  - ✓ Tentative submission schedule
    - Call/website to be issued before end Feb
    - Submission deadline: mid May
    - Acceptance notifications: mid July



### Workshops

- Workshop on localization and IoT (Graz, AT, co-located with Sep 2017 meeting)
  - ✓ Organizers: Klaus Witrisal, Carles Anton and Chiara Buratti
- Proposal for a joint workshop with H2020 SANSA project, co-colated with one of our meeting



### **DWGs**

- 1. WG-1 (radio channels): Sana Salous and Katsuyuki Haneda
- 2. WG-2 (PHY-MAC): Hanna Bogucka and Jan Sykora
- 3. WG-3 (NET): Silvia Ruiz and Hamed Ahmadi

### **EWGs**

- 1. WG-OTA: Wim Kotterman and Moray Rumney
- 2. WG-IoT: Erik Ström and Chiara Buratti
  - ✓ SWG IoT-Health: Slawomir J. Ambroziak and Kamran Sayrafian
- 3. WG-LT: Carles Anton and Klaus Witrisal
- 4. WG-RA: Florian Kaltenberger and Mark Beach



### **WG-LT**

- Statistics
  - 6 papers, 2 sessions (attendance 35/10)
- Topics
  - Measurement acquisition and modeling
  - Tracking filters and data fusion
- Dissemination
  - Joint IoT and LT workshop planned for Graz meeting: "Dependable Wireless
     Communications and Localization for the IoT"; Sept. 2017
  - Whitepaper "Localization in 5G" (planned for M24)
  - Workshops at IEEE conferences: GLOBECOM 2016; ICC 2017; WCNC 2018 (planned)
  - Tutorial/training school: tentatively planned for 2018/19



### Leaflet

- Goal: high-level introduction of the Action
  - ✓ Explains the key aspects of our activities
- Updated after each meeting
- Available at <u>www.iracon.org</u> under "Publications"

### **Newsletters**

- All issues available at <u>www.iracon.org</u> under "Publications"
- Number of downloads latest issue (26/01): 243
- Next issue to be expected in the beginning of March

### **Blog**

- To launch discussions and/or express views on matters dealt with within the Action
  - ✓ Possible blog posts include, but are not limited to: a short survey, a technical overview, a small tutorial, etc.
- Schedule ensuring (at least) a bi-monthly contribution
- Contributors: members of Steering Committee
- If you have an interesting contribution for the blog, contact Margot Deruyck



### Social media

Facebook: @CA15104

Twitter: @IRACONAction

Linkedin

## Participation in **COST** corporate video

- Interview of young researchers (preferably living in Belgium, but not necessarily Belgian) who participated in COST Actions. The idea is that they explain how their participation in a COST Action helped them to develop their professional career
- → Evgenii Vinogradov (UCLouvain, BE), who has participated in COST IC1004 and IRACON, was interviewed

# **COST Portugal initiative**

As described by Luis Correia during the plenary



# List of liaisons with international bodies, standards and projects

- 3GPP Aki Hekkala
- URSI Sana Salous
- ITU-R Sana Salous and Belen Montenegro
- H2020 METIS-II Narcis Cardona
- H2020 mmMAGIC Mark Beach
- H2020 5G X-haul Mark Beach
- CommNet (EPSRC network) Mark Beach
- IEEE 1900.6 Kostas Katzis
- EurAAP Claude Oestges
- EURACON Roberto Verdone
- WiBEC Narcis Cardona
- 5G initiative Fernando Velez



### Open calls for papers of interest

- **IWCMC 2017** (13th International Wireless Communications and Mobile Computing Conference)
  - ✓ June 26-30, 2017 (Valencia, ES)
  - ✓ Submission deadline: Feb 15, 2017
- New journal (EiC: Fernando Velez): Journal of Ambient Wireless Communications and Smart Environments (AMBIENTCOM)
- Special issue on IoT and Machine-Type Communications in IEEE
   Communications Standards magazine
  - ✓ Extended deadline: Feb 16, 2017
  - ✓ Those interested should declare their intention, sending a title and abstract to Narcis Cardona by Feb 7, 2017



# **Action points**

AP	WHAT	WHO	WHOM	WHEN
4/1	Submit reimbursement forms	Those entitled to	e-cost	March 1
4/2	Send Minutes of Group Meetings	Group Chairs	Chair + Secretary	March 1
4/3	Send STSM Applic.	Those interested	e-cost +Training Chair	March 1 Open call
4/4	Send list of research groups/PhD schools	MC	Secretary	March 1



# **Action points**

AP	WHAT	WHO	WHOM	WHEN
4/5	Send WG reports for D1	Group Chairs	Chair + Vice- Chair	April 1
4/6	Apply for ECI Rep	ECIs	Chair + Secretary	May 1
4/7	Register to 4th MCM	Attendees	Website	May 10
4/8	Request TD number	Authors	Website	May 10
4/9	Submit TD	Authors	Website	May 20



# 15. Close of Meeting





# Thank you!

See you in Lund, SE May 29-31, 2017







Claude Oestges ICTEAM Université catholique de Louvain