



INTERACT

Bologna, Italy, 9-11 February 2022

Subject: Minutes of the 2nd Management Committee Meeting and 1st Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

WEDNESDAY, 9 February 2022, 9:00 AM

1. Welcome to participants

Prof. Laurent Clavier, Chair of the Action, opened the meeting on Feb 9th, 2022, at 9.00 am. As Local Organizer substitute, Prof. Roberto Verdone welcomed the participants and provided information about the local arrangements.

Prof. Laurent Clavier then acknowledged the fulfilment of the quorum, i.e. at least two thirds of the COST countries participating in the Action were represented at the 12th MCM.

2. Adoption of agenda

The Chair presented the agenda of the 2nd MCM and 1st TM, which had been previously circulated online. The Agenda was adopted without modifications. The Chair took the opportunity to remind all participants to sign the official COST Attendance List for every day of attendance and to sign only once the attendance list of every WG/EWG session attended. No reimbursement of travel expenses (for those entitled to) will be processed if the COST attendance list is not duly signed.

The Agenda:

- Objectives and organization
- Status of the Action and of the current meeting
- Reimbursement
- Report from the Grant Holder
- Power delegated
- New SWG (EMF – THz)



INTERACT

- Next meetings
- Training schools
- Dissemination
- Data base
- Keynote talks
- Election GAC/WGs
- Presentation and discussion of technical documents
- Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3
- Presentation and discussion of technical documents
- EURACON
- Budget
- Future MCMs
- Feedbacks from Working Group Chairs
- Data base
- AOB
- Close of Meeting

2nd Management Committee Meeting

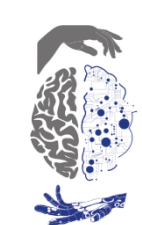
Bologna, Italy, 8-10 February 2022



Chiara BURATTI
University of Bologna

Laurent CLAVIER
IMT Nord Europe





Wednesday morning
(plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting

Any change to the agenda ?

A few remarks before starting

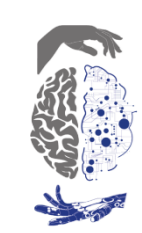
ATTENDANCE LISTS (for people on site)

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

AND

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

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

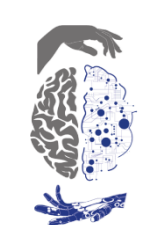


A few remarks before starting

We will have to make a few decisions today.

As long as votes occur during the meetings → everybody can vote
(This is different for WG chairs where lists have been established)

Anybody against? Anybody abstain?



Wednesday morning (plenary)

1. Adoption of the Agenda
- 2. Objectives and organization**
3. Status of the Action and of the current meeting
4. Reimbursement
5. Budget
6. Report from the Grant Holder
7. Power delegated
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Writing Staff

Claude Oestges, Laurent Clavier, Chiara Buratti

Hamed Ahmadi, Carles Antón, Alister Burr, Narcis Cardona, Luis M. Correia, Vittorio Degli Esposti, Katsuyuki Haneda, Roberto Verdone

Start Date: 18/10/2021

End Date: 17/10/2025 (4 years)

Secondary Proposers

- **85 Proposers from 37 Country**
- **30 COST Country:** Austria, Belgium, Bosnia and Herzegovina, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Lithuania, Luxembourg, Montenegro, Netherlands, North Macedonia, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain , Sweden, Switzerland, Turkey, United Kingdom
- **4 International Partner Country:** China, Colombia, Japan, United States
- **3 Near Neighbour Country:** Belarus, Kosovo, Russian Federation

Evaluation of the proposal

S&T EXCELLENCE			NETWORKING EXCELLENCE			IMPACT			IMPLEM ENTATIO N	Marks
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Total
5	5	5	4	5	5	5	5	4	5	48

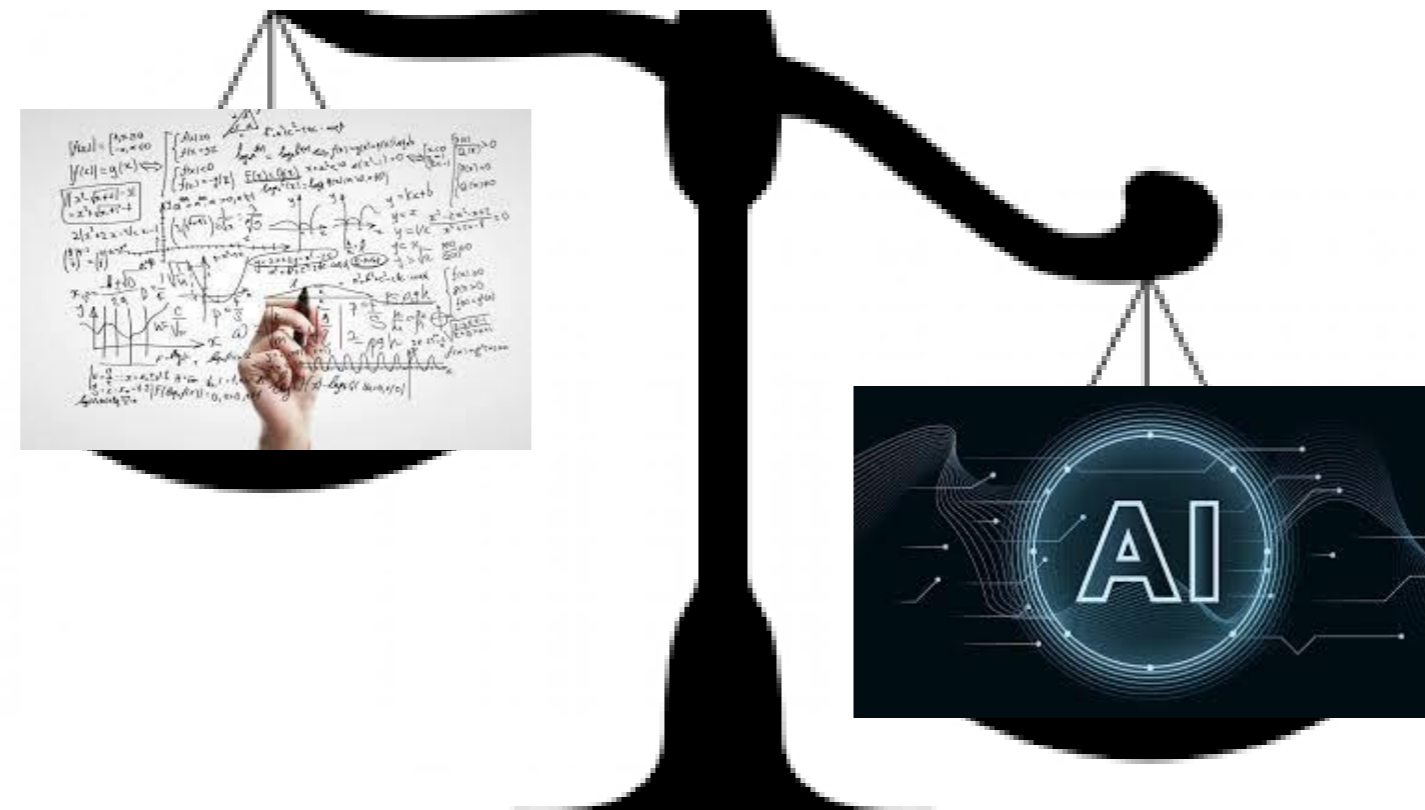
SC Recommendation:

- Maintain the level of involvement of ITCs – define a plan
- Increase the level of involvement of YRs – define a plan
- Improve the gender balance – define a plan

- **O1: Fundamental research** in the fields of
 - Antennas and Propagation,
 - Signal processing and Localisation,
 - Network Architectures and Protocols
- **O2: To make the Wireless Network Intelligent** – aware, adaptive and parsimonious
- **O3: To contribute to the creation of Intelligent Environments**
 - Health
 - Transportation
 - Industry
 - Buildings and Cities

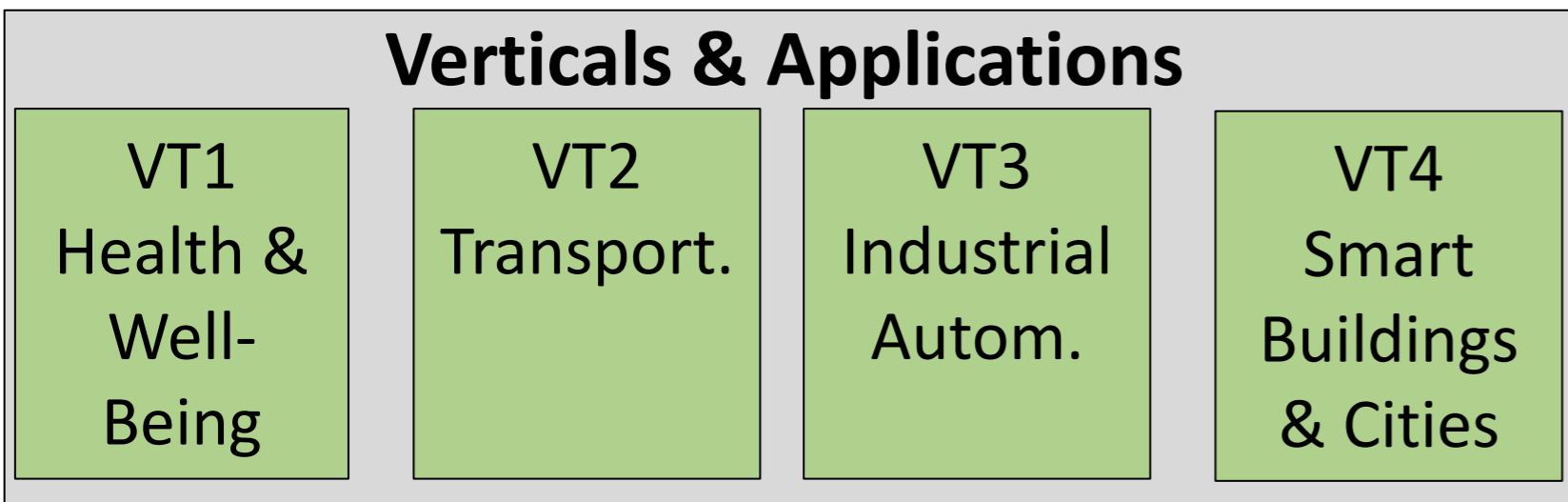
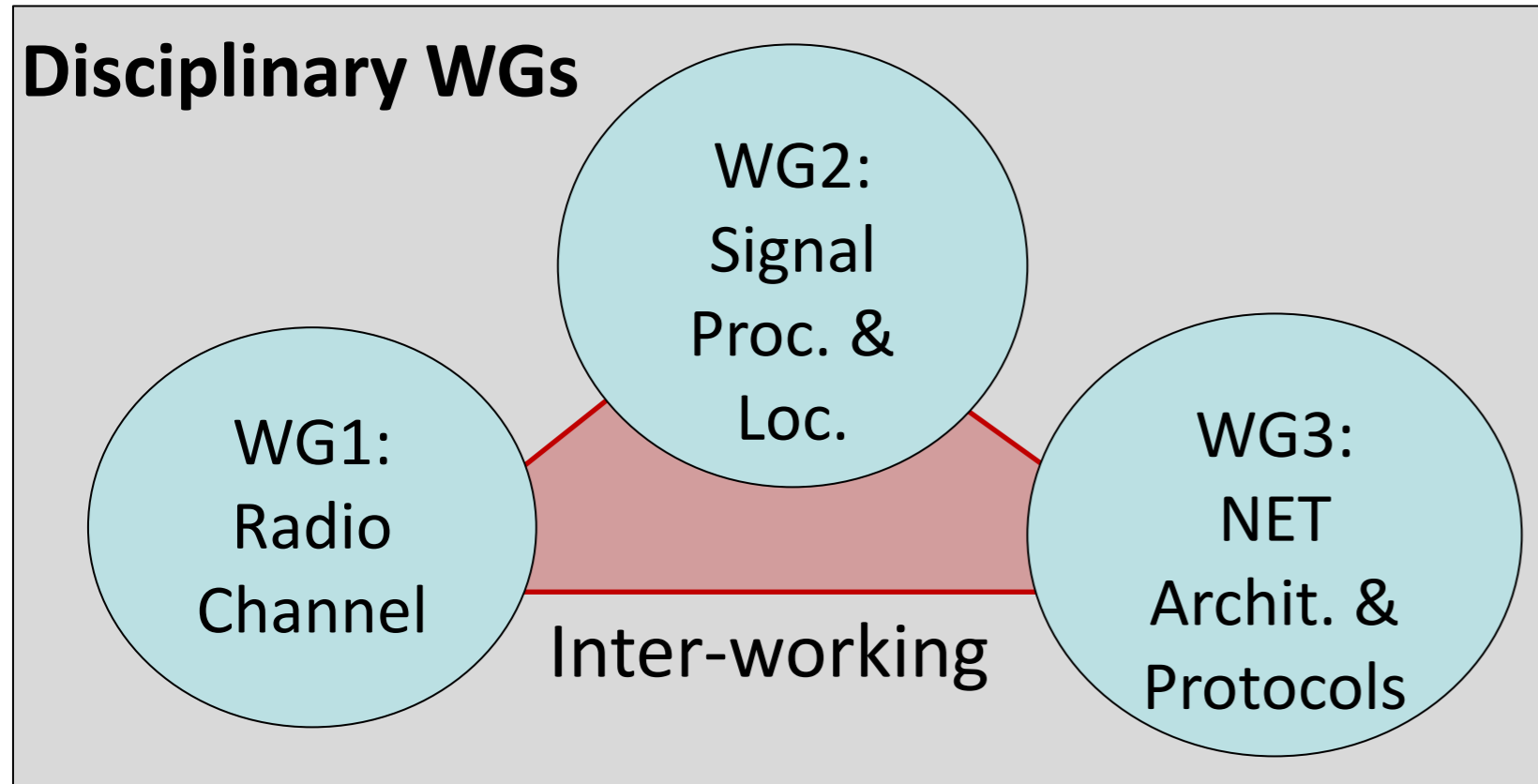
Transversal Issues

- Achieve **trade-offs in model-driven versus data-driven** communication engineering
- To support the research by making **available datasets** on real world scenarios



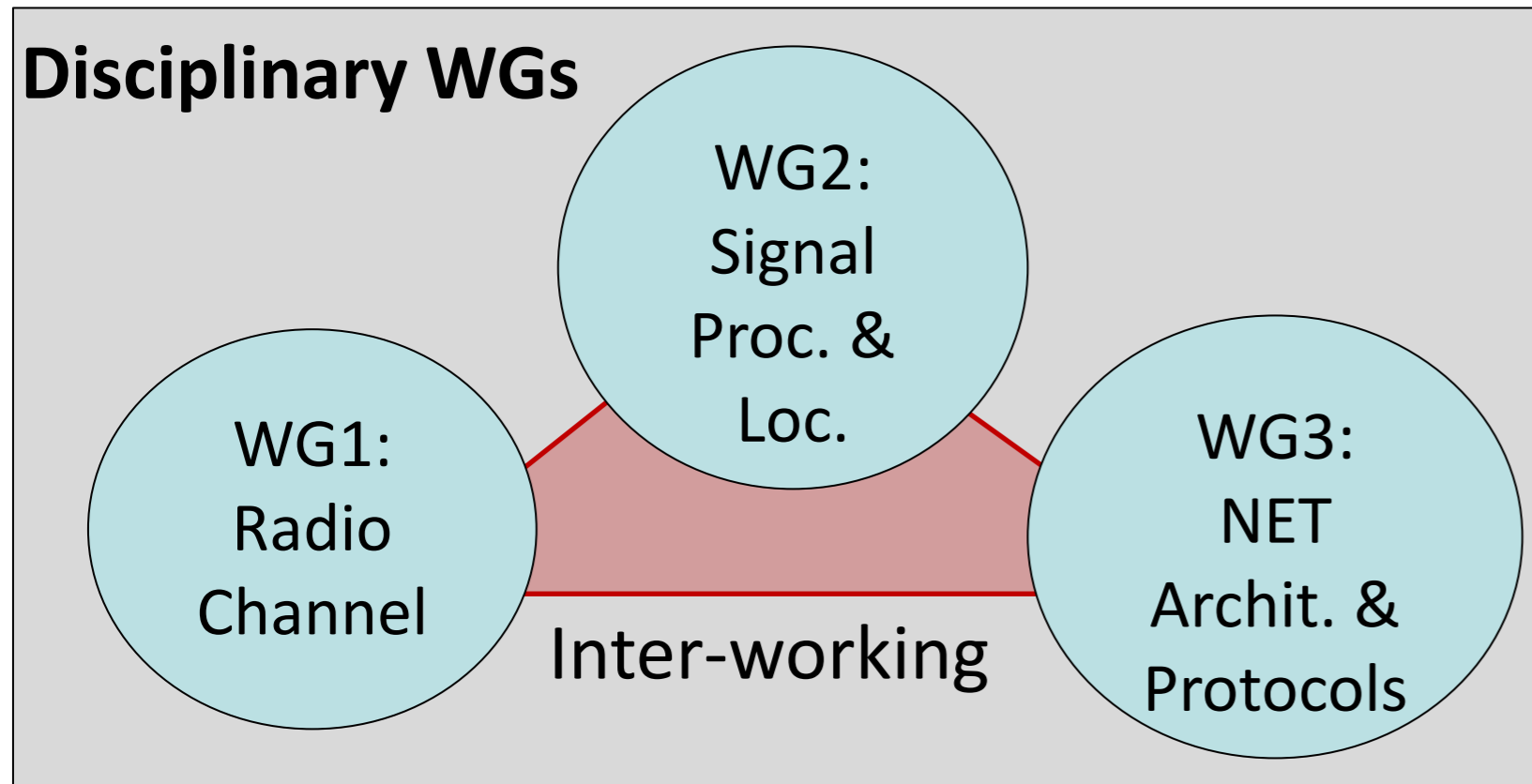
Capacity Building

- **CB1:** To give Europe the capacity to continue being a leader in telecommunication networks
- **CB2:** To enable **interdisciplinary research**, exploiting **machine-learning tools**, a mean for implementing many aspects of the intelligent radio network
- **CB3:** To **train** researchers in all stages of R&D and create a generation of **young researchers** with technical competences
- **CB4:** To facilitate **technology and knowledge transfer** toward industry, sharing R&D in a non-competitive way



Impact on Science & Society

HAs: Datasets, Dissemination, Training



WG1: Radio channel

- Radio channel modelling
- ML-based propagation modelling
- Shape the radio channel through RIS

WG2: Signal Processing and Localisation

- Novel PHY layer technologies
- ML-based positioning

WG3: Network Architectures and Protocols

- ML-Based network management and orchestration
- Dynamic networks
- Novel network paradigms for full interactive experience

VT1: Health and Well-Being

- Mission-critical **body-centric communications**
- Novel **human-to-machine interaction** applications

VT2: Transportation

- **High-mobility scenarios**, including cars, trains and UAVs (3D)

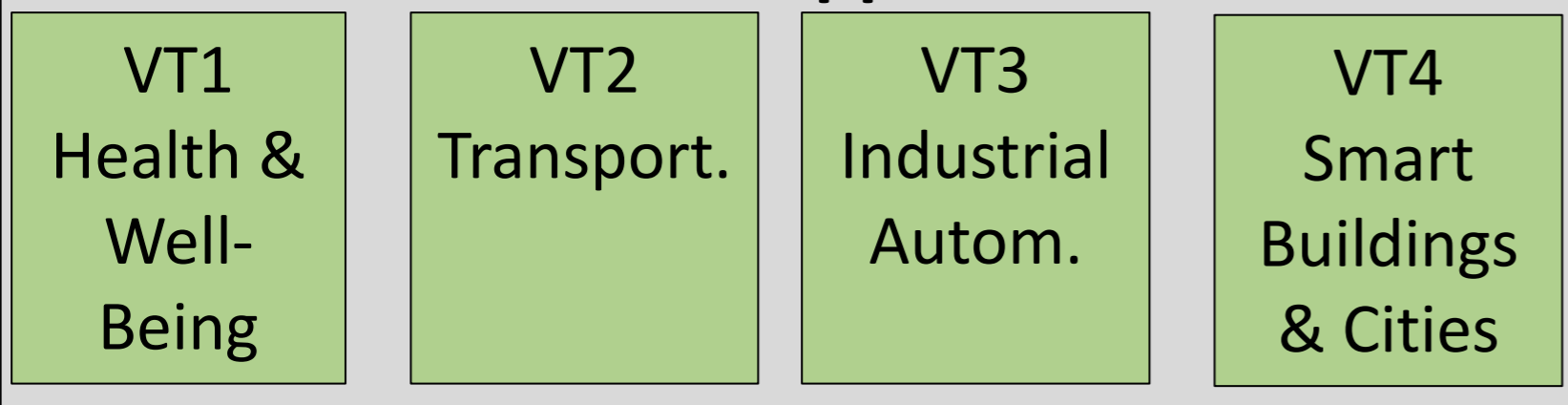
VT3: Industrial Automation

- **Critical communication** (Ultra reliable, guaranteed latency)

VT4: Smart Buildings and Cities

- **Ultra-dense**, low rate and **low energy** scenarios

Verticals & Applications



HA1: Datasets

- **Set-up and maintenance of datasets**, including measurement results, simulation scenarios and models, etc.

HA2: Dissemination

- Organisation of **workshops, special sessions**
- Setup and maintenance of website, social media, newsletters

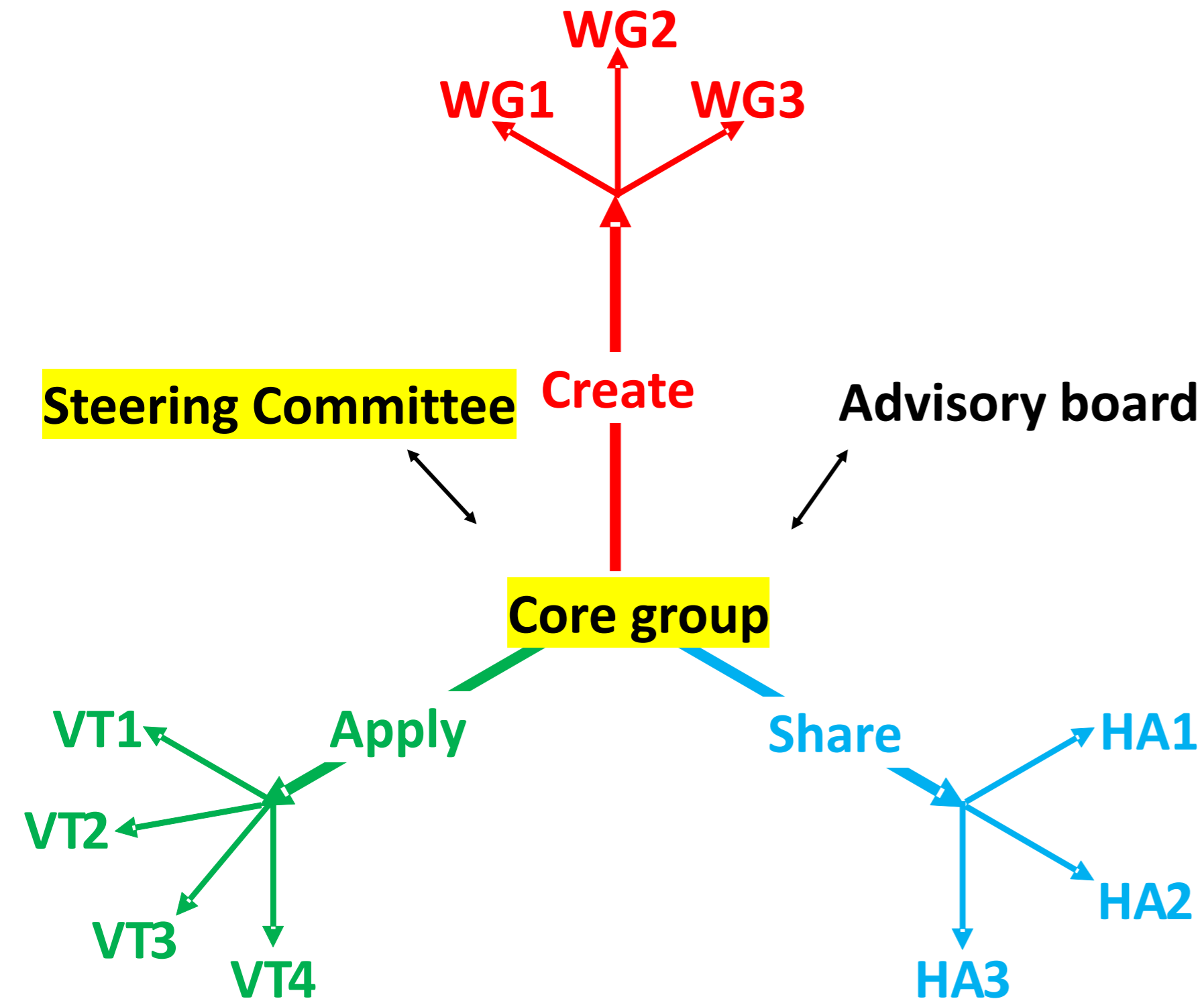
HA3: Training

- Organisation of **training schools**, tutorials in conferences, etc.
- Organisation of training sessions of soft-skills

Impact on Science & Society

HAs: Datasets, Dissemination, Training

Management Committee



Management committee: make the decisions

- All MC members

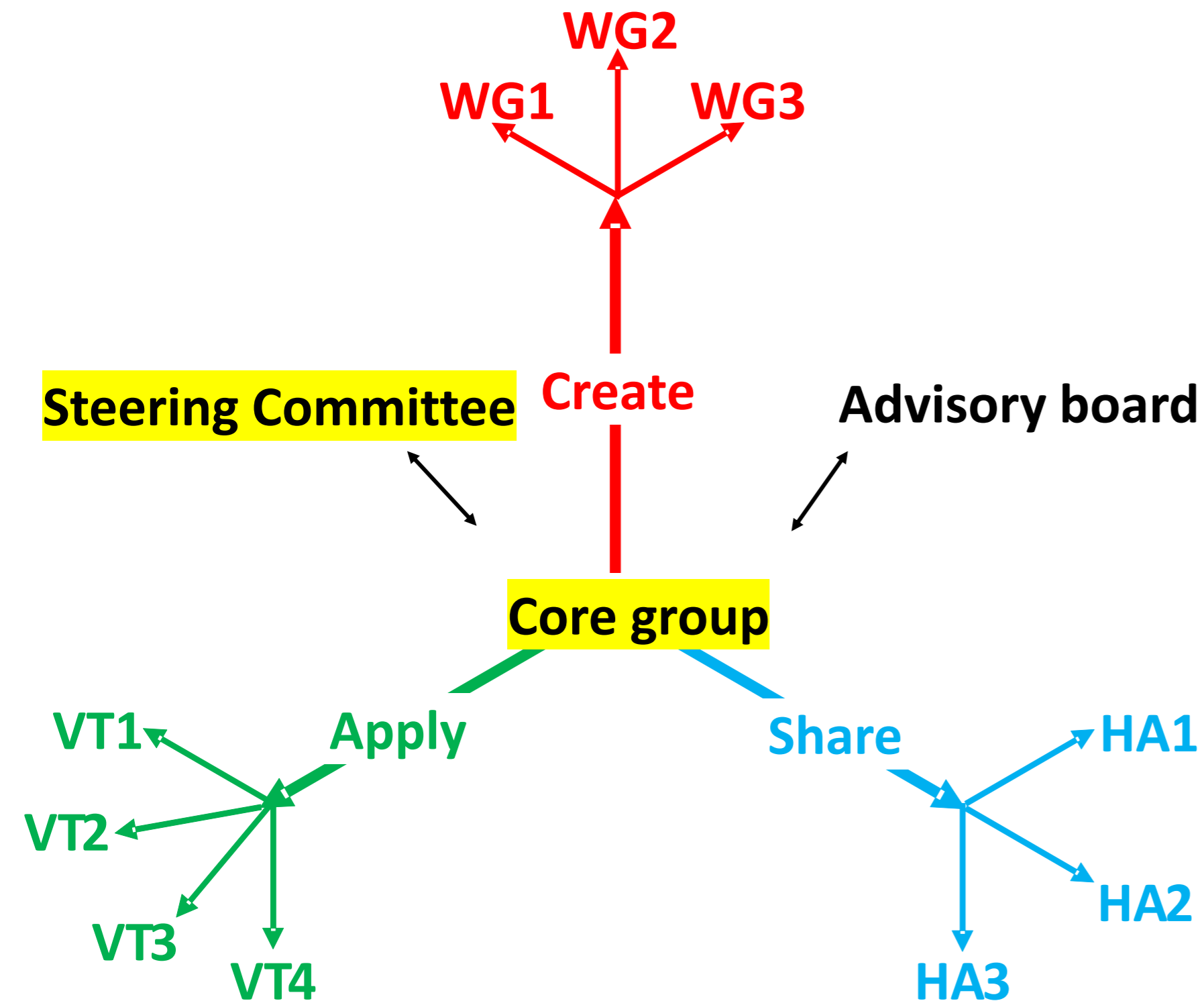
Steering Committee: manage the day to day administration of the action

- Chair, Vice Chair, Grant Holder Scientific Representative,
- Science Communication Manager,
- Grant Awarding Coordinator,
- Training Coordinator,
- Young Researchers Representative.

Core Group

Advisory Board

Management Committee



Management committee

Steering Committee

Core Group: manage the science and research evolution of the action

- Steering Committee,
- Chairs of WGs, VTs and HAs

Advisory Board: bring experience and advices

- Depending on needs

I would like to organize a core group meeting shortly after the scientific meeting to exchange idea of what was said and what we should do

I propose 24/02 – 2pm.

Deliverables

Three main phases:

1. the context, the objectives and scenarios will be studied,
2. theoretical and experimental research, both disciplinary and interdisciplinary,
3. synthesize the research to provide answers to Verticals.

The **scientific deliverables** will be as follows:

- Oct. 22: Vy-1: Identification of scientific challenges related to the societal issues addressed
- Oct. 22: Dx-1: State-of-the-art and key challenges
- Oct. 23: Dx-2: Progress report
- Oct. 24: Dx-3: Disciplinary solutions to the scientific challenges from the Verticals
- Apr. 24: Vy-2: Global solutions to the scientific challenges from the Verticals
- Oct. 25: FR: Final report (open-access book)

Deliverables (expected by COST)

Month 12	Deliverable 1 (HA1) - H1: Database structure and content requirements. Deliverable 2 (All) - D1: State-of-the-art and key challenges	Mid October 2022
Month 16	Deliverable 3 (WG1) - White paper on radio channel modelling and prediction to support environment-aware communications	Mid February 2023
Month 32	Deliverable 4 (WG2) - White paper on novel physical layer technologies and localization algorithms for future wireless networks	Mid June 2024
Month 36	Deliverable 5 (All WGs and verticals) - Disciplinary solutions to the research challenges (<i>preliminary draft of the final report</i>)	Mid October 2024
Month 48	Deliverable 6 (HA1) - H2: Database with data sets available. Deliverable 7 (WG3) - White paper on novel network architectures and protocols for future wireless networks Deliverable 8 (All) - FR: Final report (open-access book) including all research outcomes of the different disciplinary and interdisciplinary work.	Mid October 2025

Other outcomes

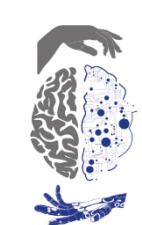
(HA1) **Shared datasets,**

(All) **White Papers** (Three planned but more are possible – for instance one oriented to the general public, dealing with the human exposure issues)

(?) **One application video (AV1);**

(All) **10 to 15 STSMs per year** (a bit less in the first year certainly)

(All) **One or two training schools per year (S1-S6);** specific trainings for ECIs, both scientific and transversal, **joint workshops** with other European Actions or projects and **special sessions/workshops** in major conferences (J1-3).

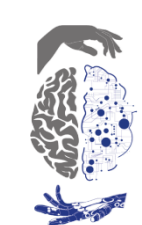


Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
- 3. Status of the Action and of the current meeting**
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Partners

- Number of signatory countries : 33 (out of 39 COST full members)
(Including 17 ITC)
- Number of MC Members : 60 - (49 attending the meeting)
- Number of WG members registered on the website 353
- Number of people attending the meeting: 238
 - ~80 on site
 - 158 remote



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
- 4. Reimbursement**
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Deadlines and Procedures

We keep a similar process as it was in IRACON

- 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 core group to prepare the meeting schedule

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



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
The claim should be done within 15 days after the meeting

- ✓ 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

Reimbursement Priorities for MC meetings

1. All MC members who apply, or MC substitutes (COST rule), SC members, grant holder manager, invited speakers and YR representative
2. NNC / 1 person per NNC per meeting.
IPC / Decided upon request.
Only for Academics and Research Centers
3. WG/VT/HA Chairs (while budget is available)
4. Other experts, one per country

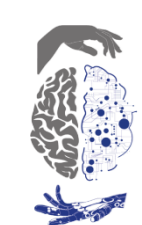
Anybody against? Anybody abstain?



Reimbursement Priorities for Technical meetings (Not MC)

1. Invited speakers
2. WG/VT/HA Chairs (while budget is available) in combination with COST policy priorities (inclusiveness/gender)
3. SC members, GH Manager (while budget is available)

Anobody against? Anybody abstain?



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
- 5. Report from the Grant Holder**
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Budget Y1

	Description	Budget (WBP)
Networking Tools		
A. COST Networking Tools EUR		
(1) Meetings	2 MCMs, 1 TM	90.000,00
(2) Training Schools	1 TS	8.000,00
(3) Short Term Scientific Missions (STSM)	4 STSM	4.400,00
(4) ITC Conference Grant	2 ITC	500,00
(5) COST Action Dissemination	website	4.695,00
(6) Other Expenses Related to Scientific Activities (OERSA)	bank fees	1.100,00
B. Total Science Expenditure (sum of (1) to (6))		108.695,00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)		16.304,25
Total Grant (B+C)		124.999,25

Budget Y1: Meetings

Meeting Title	Location	Budget
2nd MC and 1st Scient. Meeting	Bologna	42500
2nd Scientific Meeting	??	5000
3rd MCM and 3rd Scient. Meeting	Valencia	42500
		90000


 41500 → Reimbursement MC members

1000 → LOS

Budget Y1

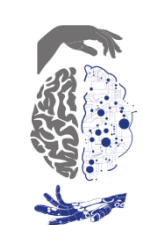
Work and Budget Plan	Expected expenses	Remaining budget
A. COST Networking Tools EUR		
(1) Meetings	26.080,00	63.920,00
(2) Training Schools		8.000,00
(3) Short Term Scientific Missions (STSM)		4.400,00
(4) ITC Conference Grant		500,00
(5) COST Action Dissemination	3.904,00	791,00
(6) Other Expenses Related to Scientific Activities (OERSA)	200,00	900,00
B. Total Science Expenditure (sum of (1) to (6))	30.184,00	78.511,00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)		16.304,25
Total Grant (B+C)	30.184,00	94.815,25

Budget Y1

Work and Budget Plan	Expected expenses	Remaining budget
A. COST Networking Tools EUR		
(1) Meetings	26.080,00	63.920,00
(2) Training Schools		8.000,00
(3) Short Term Scientific Missions (STSM)		4.400,00
(4) ITC Conference Grant		500,00
(5) COST Action Dissemination	3.904,00	791,00
(6) Other Expenses Related to Scientific Activities (OERSA)	200,00	900,00
B. Total Science Expenditure (sum of (1) to (6))	30.184,00	78.511,00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)		16.304,25
Total Grant (B+C)	30.184,00	94.815,25

22080 → Reimbursement
MC members

4000 → LOS



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
- 6. Power delegated**
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs



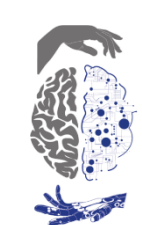
Power delegated by MC to the steering committee

- Decisions for STSM support
- Decisions for GRANT awards
- Decisions for Training Schools Organizations

Power delegated by MC to the core group (and Working Group Chairs)

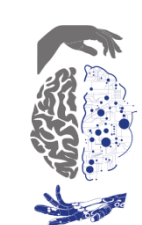
- Approve Working Group members Application

Anobody against? Anybody abstain?



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
- 7. New SWG (EMF – THz)**
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs



New sub-vertical team on *EMF*

- VT1 proposes to activate a Sub-Working Group on EMF exposure
- Motivation
- Proposed by:
 - Luis M. Correia
 - Conchi Garcia-Pardo

Anybody against? Anybody abstain?



New SWG on mmW and *THZ channel sounding*

- WG1 proposes to activate a Sub-Working Group on mmWave and THz sounding
- Motivation
- Who proposed...
 - Wim Kotterman
 - Diego Dupleich

Anybody against? Anybody abstain?



INTERACT

Bologna, Italy, 9-11 February 2022

Subject: Minutes of the 2nd Management Committee Meeting and 1st Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

1. Adoption of the agenda

Prof. Laurent Clavier proposes that during the meetings all the participants can vote independently from their status in the action. The proposal is accepted unanimously.

4. Reimbursement

The Action Chair proposes to establish reimbursement priorities for MC Meetings for what concerns travel reimbursement.

The list proposed for the Action Members is:

1. All MC members who apply, or MC substitutes (COST rule), SC members, grant holder manager, invited speakers and YR representative
2. NNC / 1 person per NNC per meeting.
IPC / Decided upon request.

Only for Academics and Research Centers

3. WG/VT/HA Chairs (while budget is available)
4. Other experts, one per country

The list proposed for people external to the Action is:

1. Invited speakers
2. WG/VT/HA Chairs (while budget is available) in combination with COST policy priorities (inclusiveness/gender)
3. SC members, GH Manager (while budget is available)

The participants agreed on the list proposed.



INTERACT

6. Power Delegated

The MC Members approve the delegation of decision power to the Core Group.

The power delegated involves:

- Decisions for STSM support
- Decisions for GRANT awards
- Decisions for Training Schools Organizations

7. New SWG (EMF – THz)

Two sub-working groups are proposed for approval:

- sub-vertical team on EMF
- sub-working group on mmWave and THz channel sounding

The MC Members approve them both.

2nd Management Committee Meeting

Bologna, Italy, 8-10 February 2022



Chiara BURATTI
University of Bologna

Laurent CLAVIER
IMT Nord Europe





Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
- 8. Next meetings**
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

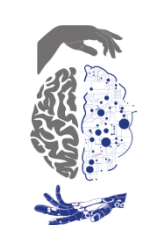
Upcoming Meetings

Second technical meeting

- Proposals from
 - Barcelona (SP)
 - Madrid (SP)
 - Sierre (SW)
 - Istanbul (TK)
 - Lyon (FR) -

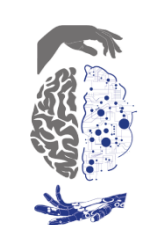
Third MC meeting and technical meeting

- ✓ Valencia (Spain) (Agreed in the first MC meeting)

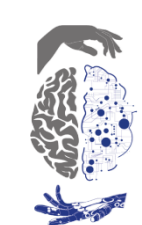


Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
- 9. Training schools**
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs



- Given that INTERACT is starting at this meeting and that there was the will to organise the 1st Training School this year, it was decided to launch a two-step proposal process.
 - 2021-Dec-08: Call for Proposals (basic information)
 - 2022-Jan-07: deadline for submitting proposals
 - 2022-Feb-04: selection of a proposal by the Steering Board



- Two proposals were received:
 - Organiser: *Hacı Mehmet Güzey, Erzurum T.U., Turkey*
 - Location: *Antalya, Turkey*
 - General topic: *Localization/tracking through the array of antennas*
 - Potential dates: *2022 May / June*
 - Organiser: *Adrian Kliks, Poznan U.T., Poland*
 - Location: *Poznan, Poland*
 - General topic: *Open-RAN networks: from theory to implementation*
 - Potential dates: *2022 July 11th-15th*



- After analysing the two proposals, it was decided to accept the proposal from *Adrian Kliks, Poznan U.T., Poland*. We'll work now with Adrian on the programme and other details.
- This 1st Training School is in the area of WG3, which means that we'll favour next ones to be in the area of the other WGs.
- We'll organise the 2nd Training School in 2023, but if it can be possible to co-organise with other Projects or Actions, it may happen that we may organise more than one per year.



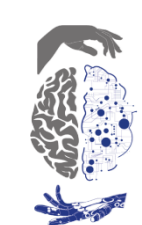
Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
- 10. Dissemination**
11. Data base
12. Keynote talks
13. Election GAC/WGs



e-Mailing and Acknowledgment

- Usage of global reflector
 - ✓ From this meeting on, the global reflector (all@interactca20120.org, **moderated**) should not be used to advertise events (outside those of the Action itself)
 - ✓ Announcement on the INTERACT Web Page (Dissemination manager)
- WG reflectors have been created
- **Acknowledge COST CA20120 INTERACT on all joint publications !**

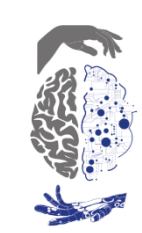


STSM

We will finalize a template for application as soon as possible with the Grant Awards Coordinator

Show the interest for the action; plan to present a TD; detail what will follow

But you can already send us your intention

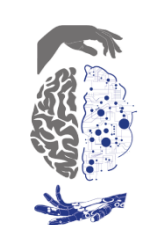


List of liaisons with international bodies, standards and projects

-> **All:** Email Margot & HA2 co-chair (to be elected)

INTERACT Special sessions

- Any proposals? EuCNC?
- **WG/VT chairs:** Please discuss in WGs and VTs



Newsletter

- 3 per year (one per meeting), responsibility of the YRR
- Format still to be decided
- List of recent joint INTERACT publications
 - Please acknowledge INTERACT & email reference upon publication to Margot, HA2 co-chair & YRR
- Selected scientific topic
 - One per WG/VT
- Highlights from last meeting
- Couple of lines per WG/VT

NEWSLETTER MEETING: THURSDAY 10/02 AT 6 PM!!!

IRACON COST CA15104 ACTION
Newsletter
Inclusive Radio Communication Networks for 5G and Beyond

Number 2, November 2016
 Newsletter Editor: Margot Deruyck, Ghent University, Belgium
 COST IRACON Chairman: Claude Oestges, Université Catholique de Louvain, Belgium
 Editorial Board: Hamed Ahmedi, Carles Anton-Haro, Mark Beach, Hanna Bogucka, Chiara Buratti, Narcis Cardona, Laurent Clavier, Luis M. Correia, Margot Deruyck, Katsuyuki Haneda, Florian Kaltenberger, Wim Kotterman, Claude Oestges, Silvia Ruiz, Moray Rumney, Sana Salous, Erik Ström, Jan Sykora, Roberto Verdone, Klaus Witrzal

Contents

- 1 - Editor's address p. 1
- 2 - Chairman's address p. 2
- 3 - Workshop on 5G - testimonial p. 2
- 4 - Interview with Alain Sibille p. 3
- 5 - Interview with ECI Valeria Petrini p. 4
- 6 - Selected scientific topics p. 5
- 7 - Highlights from last meeting p. 7
- 8 - Upcoming event p. 8
- 9 - Facts & figures p. 8

About COST IRACON

This COST Action IRACON (Inclusive Radio Communications) aims at scientific breakthroughs by introducing novel design and analysis methods for the 5th-generation (5G) and beyond-5G radio communication networks. Challenges include i) modelling the variety of radio channels that can be envisioned for future inclusive radio, ii) capacity, energy, mobility, latency, scalability at the physical layer and iii) network automation, moving nodes, cloud and virtualisation architectures at the network layer, as well as iv) experimental research addressing Over-the-Air testing, Internet of Things, localisation and tracking and new radio access technologies. This COST Action started on March 2016 and will end in March 2020.

<http://www.iracon.org>

Editor's Address

Margot Deruyck
Ghent University, Belgium

Dear reader,

I'm delighted to introduce to you the second issue of this newsletter. In this issue, we focus on the highlights of our 2nd technical meeting, which took place in Durham, UK, during the first week of October. Furthermore, we are given some insights into the workshop that was held prior to this meeting via a testimonial of an ECI (Early Career Investigator) attendee. Just as in first issue, we'd like you to meet two people beyond the action. Therefore, we are given the floor to the COST IC1004 newsletter editor, Alain Sibille, and early career investigator Valeria Petrini.

We hope that this newsletter will inspire you and can encourage you to join us (further) in the Action!

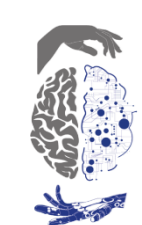
Enjoy the reading!

cost EUROPEAN COOPERATION IN SCIENCE AND TECHNOLOGY
 COST is supported by the EU Framework Programme Horizon 2020

Social media

- LinkedIn: <https://www.Linkedin.com/company/interact20120>
- Facebook: <https://www.facebook.com/interactca20120>
- Instagram: <https://www.Instagram.com/interactca20120>
 - > candidates for Instagram take-over (e.g., during STSM, training school, ...)
Email Margot and HA2 co-chair.
- Soon: YouTube, Twitter

PLEASE FOLLOW AND SHARE THE CONTRIBUTIONS!!!



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
- 11. Data base (and discussion within WGs)**
12. Keynote talks
13. Election GAC/WGs

HA1 – Datasets (see section 1.2.1.5) – will address the set-up and maintenance of the **INTERACT dataset(s)**.

The expected large number of participants and the **open collaborative environment** provides INTERACT with a unique opportunity to feed these datasets. HA1 will be responsible for creating a favourable environment to share measurements, simulation scenarios and models, open to selected participants, all participants of the action or even to the world.

Task HAT-1-1: identification of storing means and data sharing rules;

Task HAT-1-2: encouraging participants to share their data and maintain the database.

**Management Committee Meeting
resumes on
Friday at 11:00 am**



INTERACT

Bologna, Italy, 9-11 February 2022

Subject: Minutes of the 2nd Management Committee Meeting and 1st Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

FRIDAY, 11 February 2022, 11:00 AM

Prof. Laurent Clavier, Chair of the Action, resume the plenary the meeting on Feb 11^h, 2022, at 11.00 am.

2nd Management Committee Meeting

Bologna, Italy, 8-10 February 2022



Chiara BURATTI
University of Bologna

Laurent CLAVIER
IMT Nord Europe





Wednesday morning
(plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
13. Election GAC/WGs

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

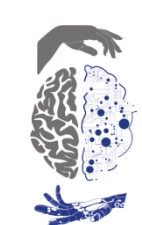
22. AOB

23. Close of Meeting

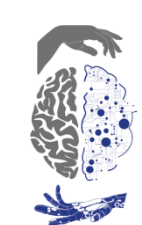
Management Committee Meeting
Friday at 11:00 am

FIRST – To be discussed within the working groups and vertical teams

- CHALLENGES – make a list of the challenges addressed, eventually those not addressed;
- Training Schools
- STSMs
- Joint workshops
- Possible liaisons
- Any ideas for white papers / vulgarization
- THINK about DATA BASE – access / storage / format / sources of datas....



Day One				Day Two			Day Three				
08:30	Welcoming attendees										
Rooms on TEAMS	Room 6.1 Plenary				Room 5.6 Plenary			Room 6.1 Plenary	Room 5.6 Track 1	Room 5.7 Track 2	Room 5.5 Track 3
				09:00	Election Explanation			VT2 <i>Network & Vehicular II</i>	WG2/WG3/VT4 <i>Cells & Coverage</i>	VT1/EMF	WG1/HA1
09:00	Plenary			09:10	YR		08:50	32	11	50	Discussion WG1
				09:20	VT1, VT2			77	79	24	
				09:40	VT3, VT4			35	56	40	Discussion
				10:00	HA1			62	74	Discussion VT1	HA1
				10:10	HA2, HA3				51		
10:30	Coffee Break			10:30	Coffee Break			10:30	Coffee Break		
11:00	Room 6.1 Plenary				Room 5.6 Plenary	Room 5.5 Track 1	Room 5.7 Track 2	Room 6.1 Plenary			
11:00	Keynote Speaker 1				WG1/VT4 <i>Channel models and cities</i>	WG2 <i>PHY Layer</i>	WG3 <i>5G / small cells</i>	Plenary			
11:35	Keynote Speaker 2			11:00	2	46	44				
12:10	Election Explanation				90	70	71				
12:20	GAC				63	68	86				
12:30	WG1				89	94	5				
12:40	WG2				19	Discussion WG2	9				
12:50	WG3										
13:10	Lunch			12:40	Lunch			12:30	Lunch		
Rooms on TEAMS	Room 6.1 Plenary	Room 5.6 Track 1	Room 5.7 Track 2		Room 5.6 Plenary	Room 5.5 Track 1	Room 5.7 Track 2				
	WG1 <i>Loss & rough</i>	WG2 <i>Channel, RIS & misc</i>	WG3 <i>IoT</i>		VT3 <i>IoT II</i>	WG1/VT2 <i>Channel & Vehicular</i>	VT1 <i>Health</i>				
14:10	12	10	53	14:00	31	18	29				
	45	82	88		43	57	66				
	91	22	93		42	28	20				
	92	59	39		64	75	33				
	14	26	67		Discussion VT3	96	73				
15:50	Tea Break			15:40	Tea Break						
Rooms on TEAMS	Room 6.1 Plenary	Room 5.6 Track 1	Room 5.7 Track 2		Room 5.6 Plenary	Room 5.5 Track 1	Room 5.7 Track 2				
	WG1 <i>mmW & THz</i>	WG2 <i>Loc & tracking I</i>	WG3 <i>QoS</i>		WG3/VT2 <i>Network & Vehicular I</i>	EMF	WG1/WG2 <i>Loc & tracking II</i>				
16:20	76	87	13	16:10	65	SWG Election	52				
	38	49	69		41	16	17				
	60	8	78		95	34	48				
	4	3	54		72	83					
	37	30	Discussion WG3		Discussion VT2	84	Discussion ICAS				
18:00	SWG Election			18:00	Newsletter meeting						



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
- 12. Keynote talks**
13. Election GAC/WGs

Keynotes



Davide Dardari

University of Bologna, Bologna

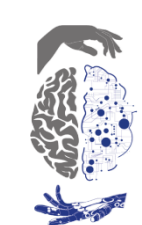
Title “Localization assisted by large intelligent surfaces”



Enrico Buracchini

TIM, Turin

Title “5G evolution: 3GPP steps, NPNs, ORAN”



Wednesday morning (plenary)

1. Adoption of the Agenda
2. Objectives and organization
3. Status of the Action and of the current meeting
4. Reimbursement
5. Report from the Grant Holder
6. Power delegated
7. New SWG (EMF – THz)
8. Next meetings
9. Training schools
10. Dissemination
11. Data base
12. Keynote talks
- 13. Election GAC/WGs**

We need to elect several persons:

- Working Group co-chairs (to coordinate the WGs defined by the Action) (including HA and VT)
- Grant Awarding Coordinator (Responsible of Grant awarding process; SC member)
- Young Researcher representative (SC member, newsletter and other tasks to be defined, one year mandate)



Due to the hybrid event and to ensure a fair process we propose to process as follows:

- We have a list of candidates that we shared.
- Last minute candidates will be able to show up directly during the sessions dedicated to the votes.
- Each candidate, whether declared in advance or not, will have **two minutes** to present himself/herself and his/her motivations.
- **Each person voting gives as many names as open positions (1 for GAC, 2 for WG chairs for instance) – A single round, the one/two most voted people are elected**



Votes – Session 1.

12:10 – Summary of the rules

12:20 – GAC candidates presentation

12:30 – WG1 candidates presentation – votes for GAC until **12:40**

12:40 – WG2 candidates presentation – votes for WG1 until **12:50**

12:50 – WG3 candidates presentation – votes for WG2 until **13:00**

13:00 – votes for WG3 until **13:10**

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

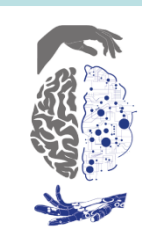
19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting



Votes – Session 2.

09:00 – Summary of the rules

09:05 – YRR candidates presentation

09:15 – VT1 candidates presentation – votes for YRR until **09:25**

09:25 – VT2 candidates presentation – votes for VT1 until **09:35**

09:35 – VT3 candidates presentation – votes for VT2 until **09:45**

09:45 – VT4 candidates presentation – votes for VT3 until **09:55**

09:55 – HA1 candidates presentation – votes for VT4 until **10:05**

10:05 – HA2 candidates presentation – votes for HA1 until **10:15**

10:15 – HA3 candidates presentation – votes for HA2 until **10:25**

10:25 – votes for HA3 until **10:35**



INTERACT

Bologna, Italy, 9-11 February 2022

Subject: Minutes of the 2nd Management Committee Meeting and 1st Technical Meeting of COST Action CA20120 “The Intelligence-Enabling Radio Communications for Seamless Inclusive Interactions (INTERACT)”

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Prof. Laurent Clavier, Chair of the Action, opened the election with the help of Ms Flaminia Saratti, Grant Holder Manager of the Action.

The outcome of the elections is:

- **Grant Awarding Coordinator**

Carles Anton-Haro

- **Working Group 1**

Vittorio Degli Esposti

Mate Boban

- **Sub – Working Group THz**

Diego Dupleich

Wei Fan

- **Working Group 2**

Ana Garcia Armada

Alister Burr

- **Working Group 3**

Hamed Ahamadi

Konstantin Mikhaylov

- **Young Researchers Representative**

Francesca Conserva



INTERACT

- **Vertical Team 1**

Kamran Sayrafian

Slawomir Ambroziak

- **Sub – Vertical Team EMF**

Luis M. Correia

Conchi Garcia-Pardo

- **Vertical Team 2**

Thomas Blazek

Adrian Kliks

- **Vertical Team 3**

Golsa Ghiaasi

Raheeb Muzaffar

- **Vertical Team 4**

Periklis Chatzimisios

Fernando José Velez

- **Horizontal Activity 1**

Marco Skocaj

One position remains vacant

- **Horizontal Activity 2**

Margot Deruyck

Adrian Kliks

- **Horizontal Activity 3**

Luis M. Correia

Krzysztof Cichoń

2nd Management Committee Meeting

Bologna, Italy, 8-10 February 2022



Chiara BURATTI
University of Bologna

Laurent CLAVIER
IMT Nord Europe



Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

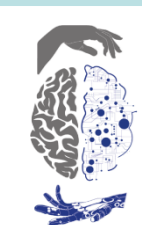
19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting



GAC Carles Anton Haro

WG1 Vittorio Degli-Esposti, Mate Boban

SWG mmW and THz channel sounding

Wei Fan, Diego Dupleich

WG2 Ana Garcia Amada, Alister Burr

WG3 Hamed Hamadi, Konstantin Mikhaylov

YRR Francesca Conserva

VT1 Kamran Sayrafian, Slawomir Ambroziak

SVT1 EMF exposure Luis Correia, Conchi Garcia Pardo

VT2 Thomas Blazek, Adrian Kliks

VT3 Golsa Ghiaasi, Raheeb Muzaffar

VT4 Periklis Chatzimisios, Fernando Velez

HA1 Marco Skocaj, *open position*

HA2 Adrian Kliks, *Margot Deruyck*

HA3 Krzysztof Cichoń, *Luis Correia*

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

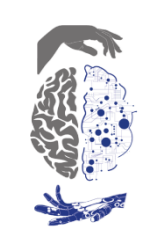
19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting



News from EURACON - Luis

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting

Budget Y1

Work and Budget Plan	Expected expenses	Remaining budget
A. COST Networking Tools EUR		
(1) Meetings	26.080,00	63.920,00
(2) Training Schools		8.000,00
(3) Short Term Scientific Missions (STSM)		4.400,00
(4) ITC Conference Grant		500,00
(5) COST Action Dissemination	3.904,00	791,00
(6) Other Expenses Related to Scientific Activities (OERSA)	200,00	900,00
B. Total Science Expenditure (sum of (1) to (6))	30.184,00	78.511,00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)		16.304,25
Total Grant (B+C)	30.184,00	94.815,25

22080 → Reimbursement
MC members

4000 → LOS

Budget for meetings

Expected people in presence	90
Expected people remotely	50
Fixed costs	60 euros
Catering / Rooms	120 euros
Contribution to LOS for in presence	180 euros
Contribution to LOS for remote	50 euros
LOS	1000 euros

Budget for meetings

Expected people in presence	90
Expected people remotely	50
Fixed costs	60 euros
Catering / Rooms	120 euros
Contribution to LOS for in presence	180 euros
Contribution to LOS for remote	50 euros
LOS	1000 euros

Actual number of people in presence	80
People remotely	155
Fixed costs	60 euros
Catering / Rooms	120 euros
Contribution to LOS for in presence	180 euros
Contribution to LOS for remote	0 euros
LOS	4000 euros

1000
+ 2500
+ 500

Budget Y1

Work and Budget Plan	Expected expenses	Remaining budget
A. COST Networking Tools EUR		
(1) Meetings	26.080,00	63.920,00
(2) Training Schools		8.000,00
(3) Short Term Scientific Missions (STSM)		4.400,00
(4) ITC Conference Grant		500,00
(5) COST Action Dissemination	3.904,00	791,00
(6) Other Expenses Related to Scientific Activities (OERSA)	200,00	900,00
B. Total Science Expenditure (sum of (1) to (6))	30.184,00	78.511,00
C. Financial and Scientific Administration and Coordination (FSAC) (max. of 15% of B)		16.304,25
Total Grant (B+C)	30.184,00	94.815,25

22080 → Reimbursement MC members

4000 → LOS

Anybody against?
Anybody abstain?

Upcoming Meetings

- **Second technical meeting**

Sierre, Lisboa, Madrid, Barcelona, Istanbul.

Lyon – 13, 14 & 15 June 2022

- **Third MC meeting and technical meeting**

Valencia – September 5-7, or 7-9 ; September 19-21 or 21-23/09

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting

GAC Carles Anton Haro

WG1 Vittorio Degli-Esposti, Mate Boban

SWG mmW and THz channel sounding

Wei Fan, Diego Dupleich

WG2 Ana Garcia Amada, Alister Burr

WG3 Hamed Hamadi, Konstantin Mikhaylov

YRR Francesca Conserva

VT1 Kamran Sayrafian, Slawomir Ambroziak

SVT1 EMF exposure Luis Correia, Conchi Garcia Pardo

VT2 Thomas Blazek, Adrian Kliks

VT3 Golsa Ghiaasi, Raheeb Muzaffar

VT4 Periklis Chatzimisios, Fernando Velez

HA1 Marco Skocaj, *open position*

HA2 Adrian Kliks, *Margot Deruyck*

HA3 Krzysztof Cichoń, *Luis Correia*

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting

Thursday morning (plenary)

14. Presentation and discussion of technical documents

Thursday/Friday

15. Vote YRR, VT1, VT2, VT3, VT4, HA1, HA2, HA3

Friday morning (plenary)

16. Presentation and discussion of technical documents

17. EURACON

18. Budget

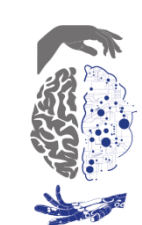
19. Future MCMs

20. Feedbacks from Working Group Chairs

21. Data base

22. AOB

23. Close of Meeting



AP	WHAT	WHO	WHOM	WHEN
4/1	Submit reimbursement forms	Those entitled to	e-cost	Before 25/02
4/2	Send Minutes of Group Meetings	Group Chairs	Chair + Secretary	Before 25/02
4/3	Send STSM Applic.	Those interested	e-cost + Training Chair	Open call
4/4	CORE Group meeting	SC members + Working group chairs	Remote meeting	21/02

Thank you !

See you in Lyon !