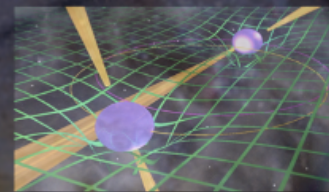
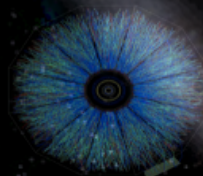


cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY



BLACK HOLES IN A VIOLENT UNIVERSE ACTION MP0905

Silke Britzen

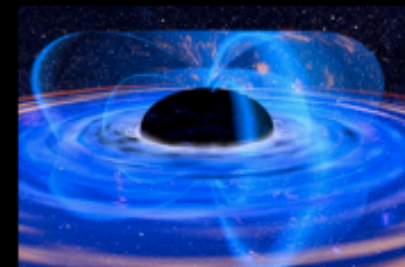
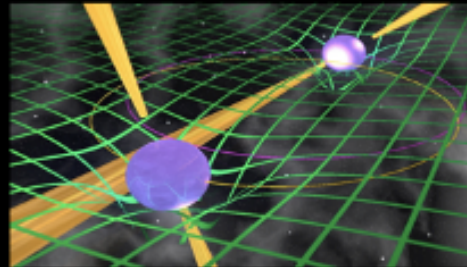
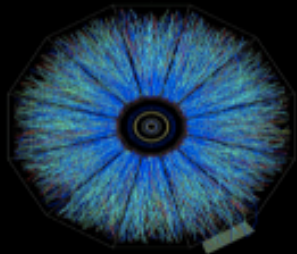
Overview

MP0905 „Black Holes in a Violent Universe“

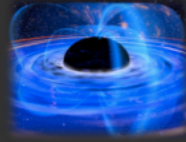
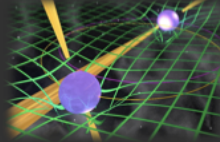
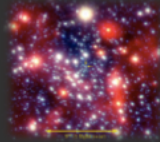
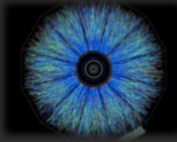
How does COST work?

What does it mean **scientifically**?
The Working Groups (WGs)

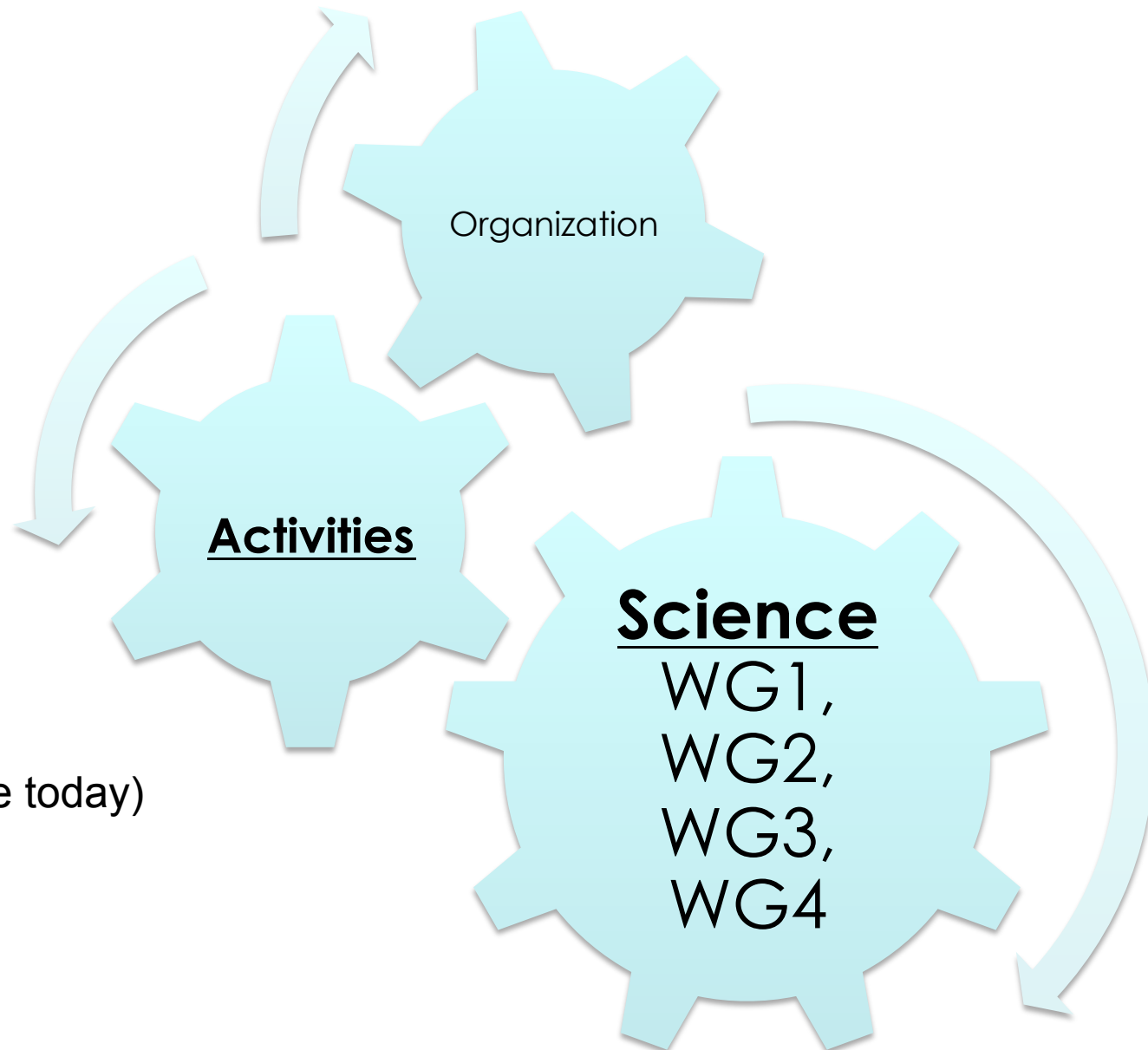
Financially? The many ways COST supports networking



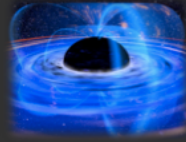
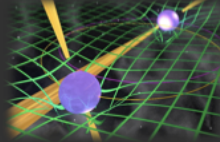
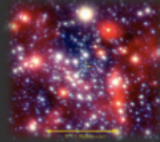
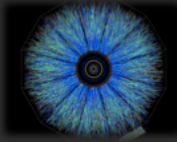
BLACK HOLES IN A VIOLENT UNIVERSE
ACTION MP0905



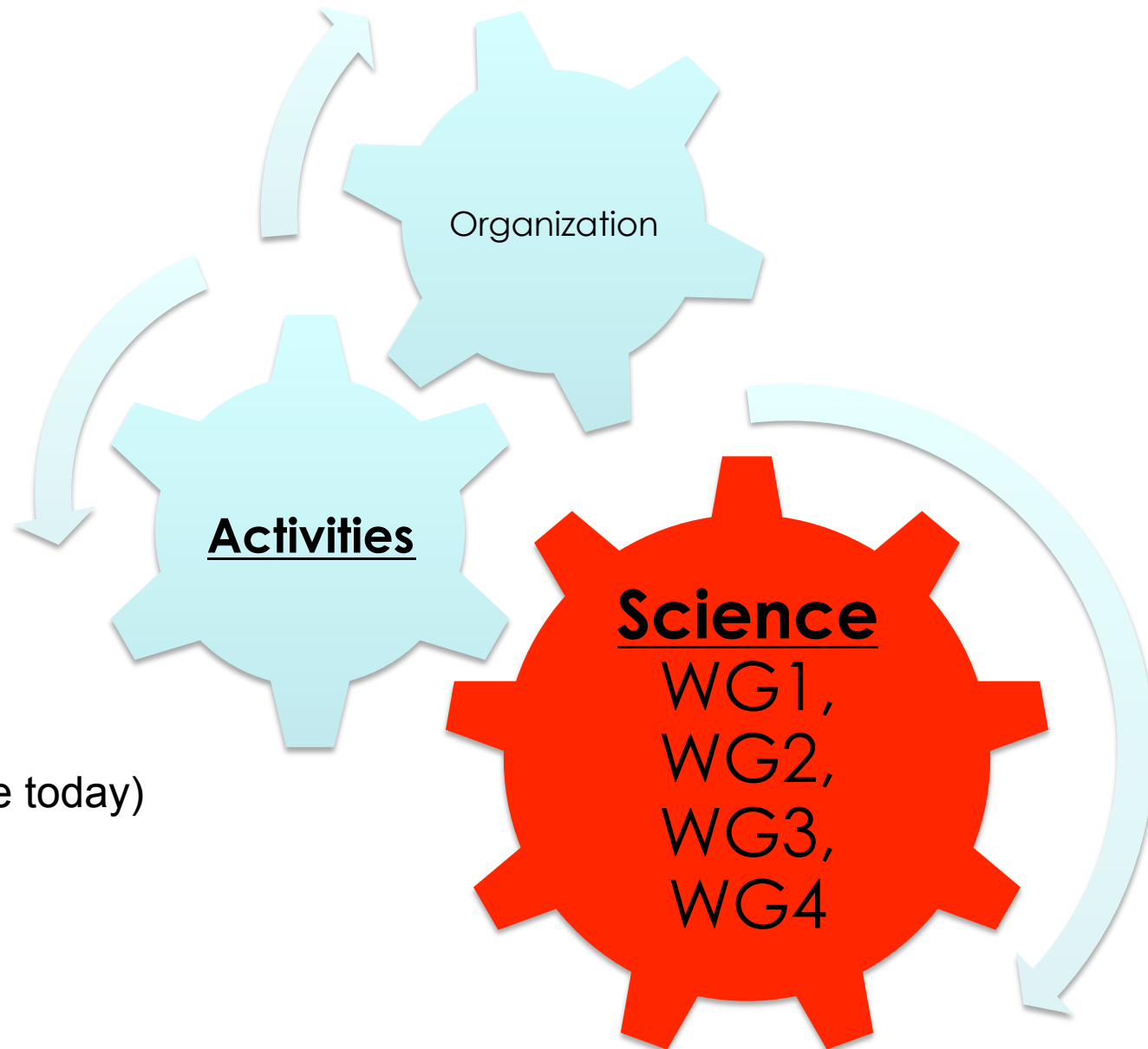
How COST works



Activities =
WG meetings (like today)
Conferences
Training-Schools
etc.



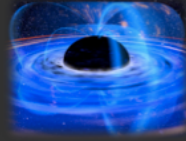
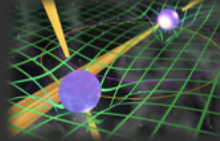
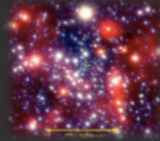
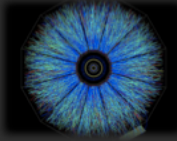
How COST works



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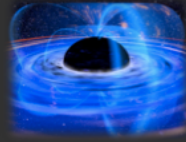
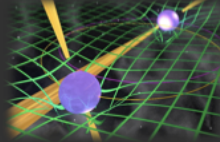
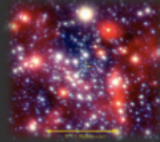
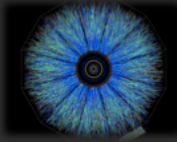
It's all about Black Holes

..... and synergies !!!!!



What's the goal?

- To enhance the understanding of the BH-phenomenon and its impact on the evolution of our Universe
- To study the fundamental laws of nature using an **multi-disciplinary** and **multi-dimensional** approach to BH-research
- To use BHs as „laboratories“ to test new physical concepts



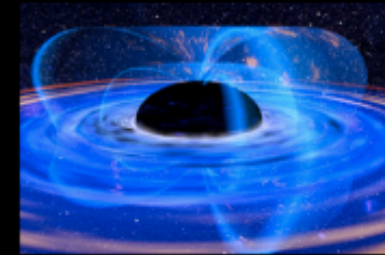
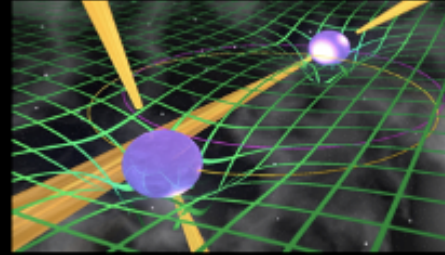
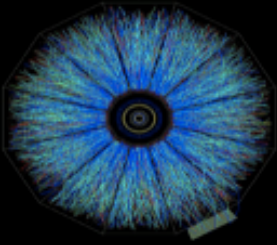
Focus

- Gravity – Quantum Gravity (all BHs)
- Accretion (Quantum BHs, Stellar, Sgr A*, Supermassive BHs)
- Jets (all BHs)
- Gravitational Waves & Binary Black Holes
 - Find the candidate SMBBHs
 - Models – what kind of radiation do we expect?
 - How do we recognize them
 - Multiwavelength campaigns
- BH cosmological evolution (accretion / merging), how and when were they „born“ ?
 - Co-evolution
 - Early Universe

The 4 Working Groups



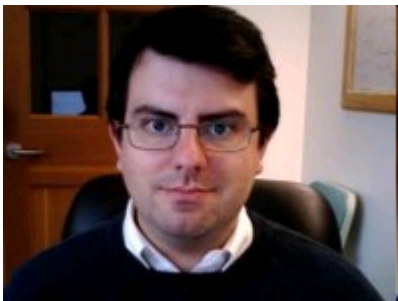
BLACK HOLES IN A VIOLENT UNIVERSE ACTION MP0905



WG1:

Quantum BHs

Xavier Calmet
University of Sussex



WG2:

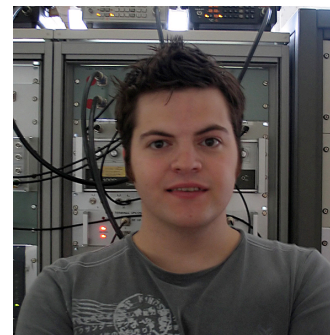
Galactic
Centre BH

Andreas Eckart
I. Physikalisches Inst.
Universität Köln



WG3: Stellar
BHs / Pulsars

Anthony Rushton
ESO fellow at Onsala
Space Observatory



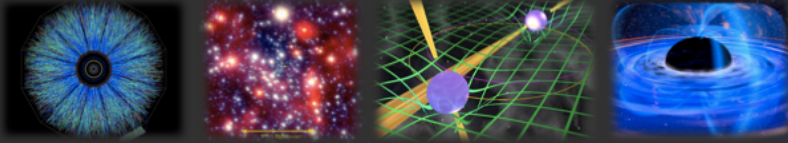
Robert Ferdman

WG4:

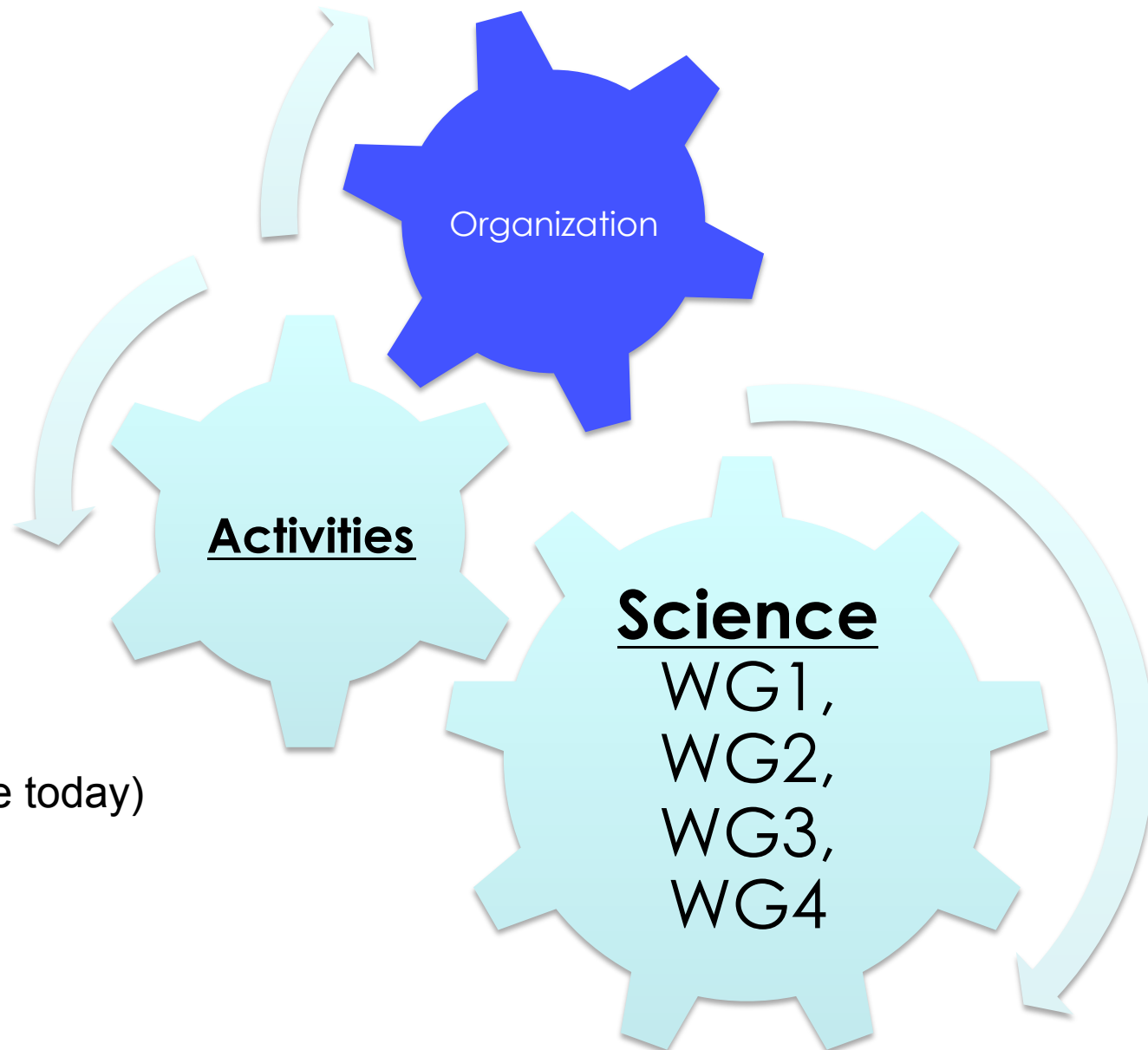
Supermassive BHs

Eduardo Ros
University of Valencia





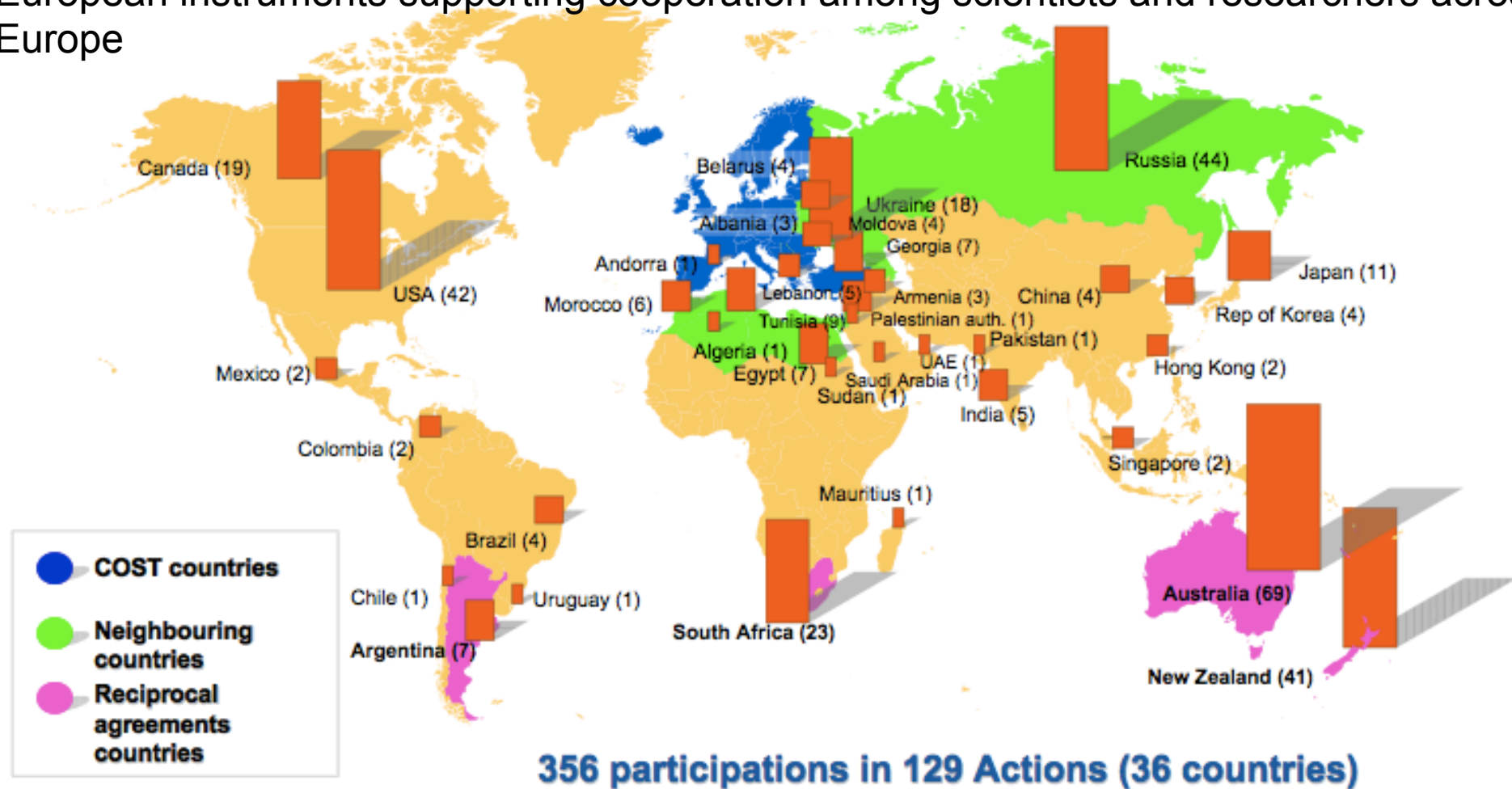
How COST works

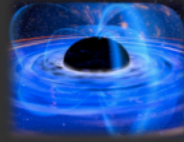
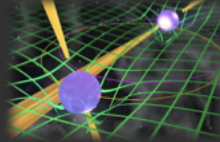
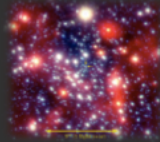
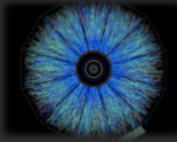


Activities =
WG meetings (like today)
Conferences
Training-Schools
etc.

COST Actions: global participation (status: June 2010)

COST (European Cooperation in Science and Technology) is one of the longest-running European instruments supporting cooperation among scientists and researchers across Europe





MP0905

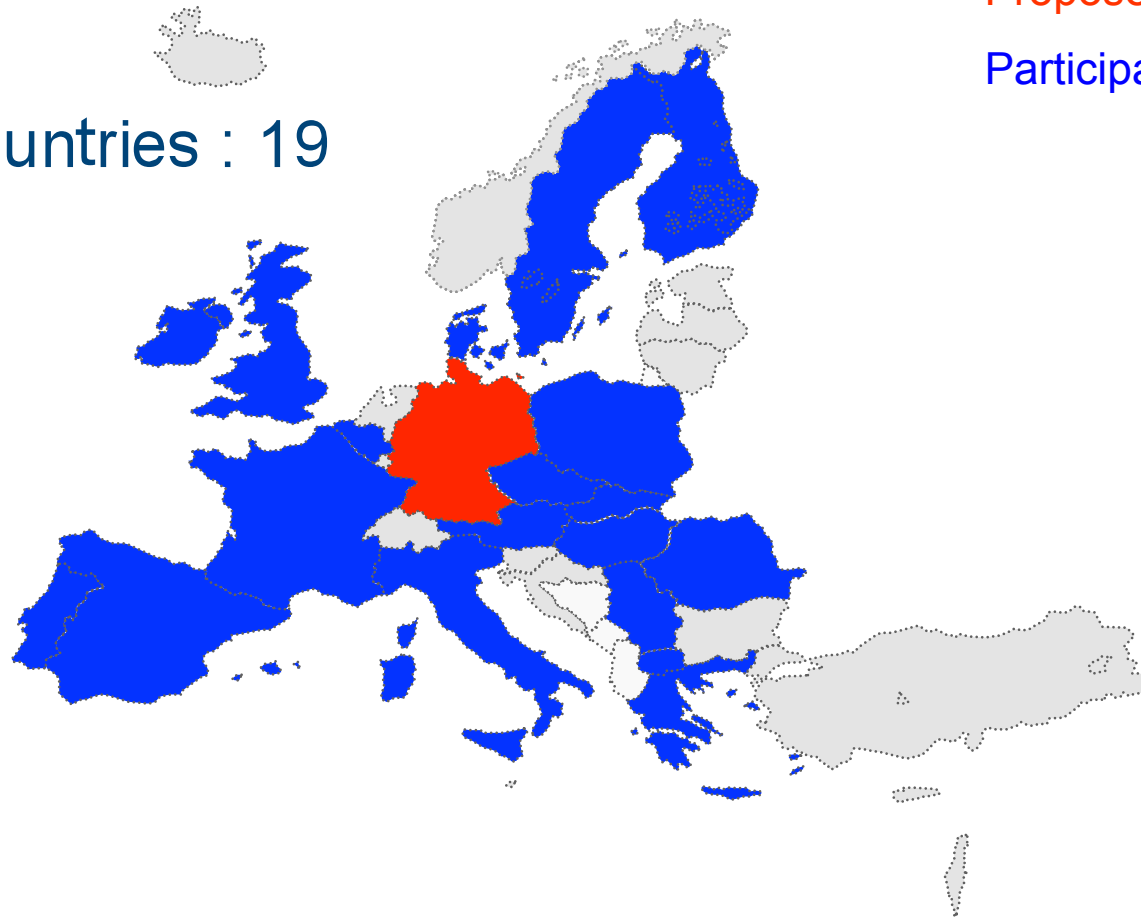
Proposer : red

Participants: blue

Participating Countries : 19

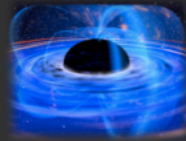
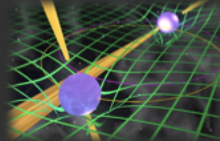
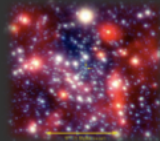
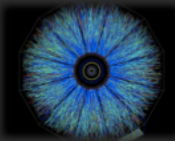
Proposer : **DE**

AT, BE, CZ,
ES, FI, FR,
GR, HU, IE,
IT, PL, PT,
RO, RS, SI,
SE, UK, DK



Plus: Australia

In preparation: South-Africa, Georgia, Russia, etc.



The Core Group

E. Ros

X. Calmet



Vice-chair:
Antxon Alberdi



Chair:
Silke Britzer

me

Please sign the
participants list for
every day
of this meeting!

Coordinator



Management
Izabela Rottmann & Viola Reichen

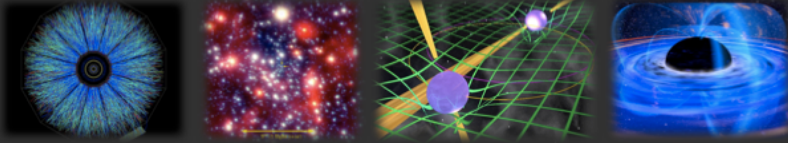


Gender Coordinator

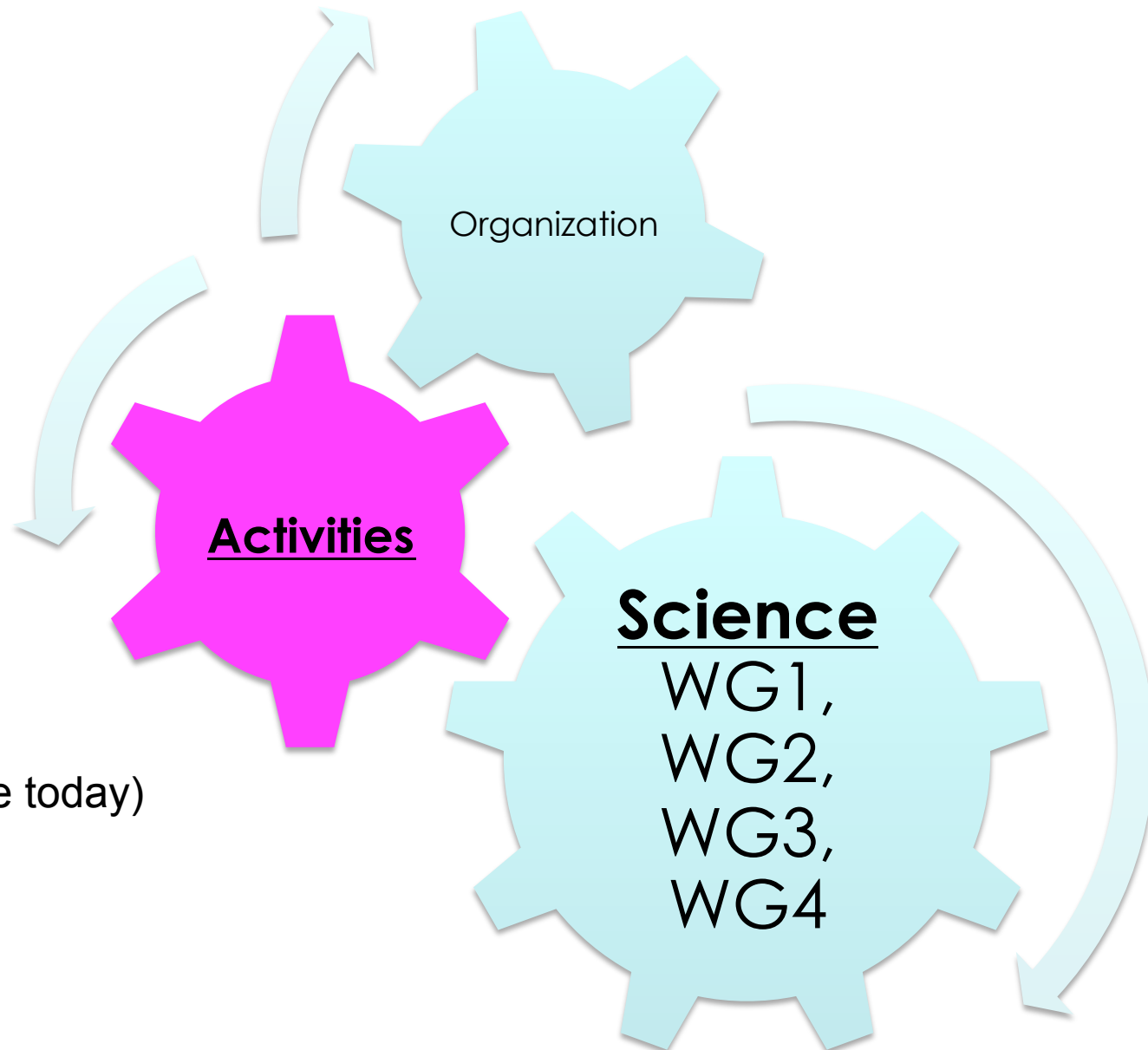


Outreach
Coordinator

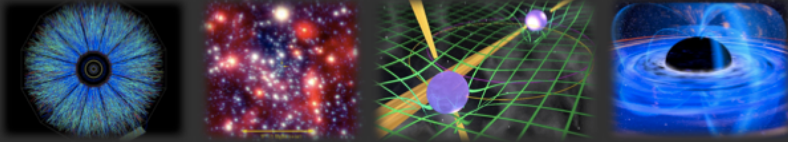




How COST works

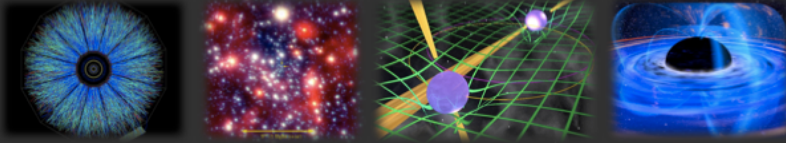


Activities =
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etc.



Activities





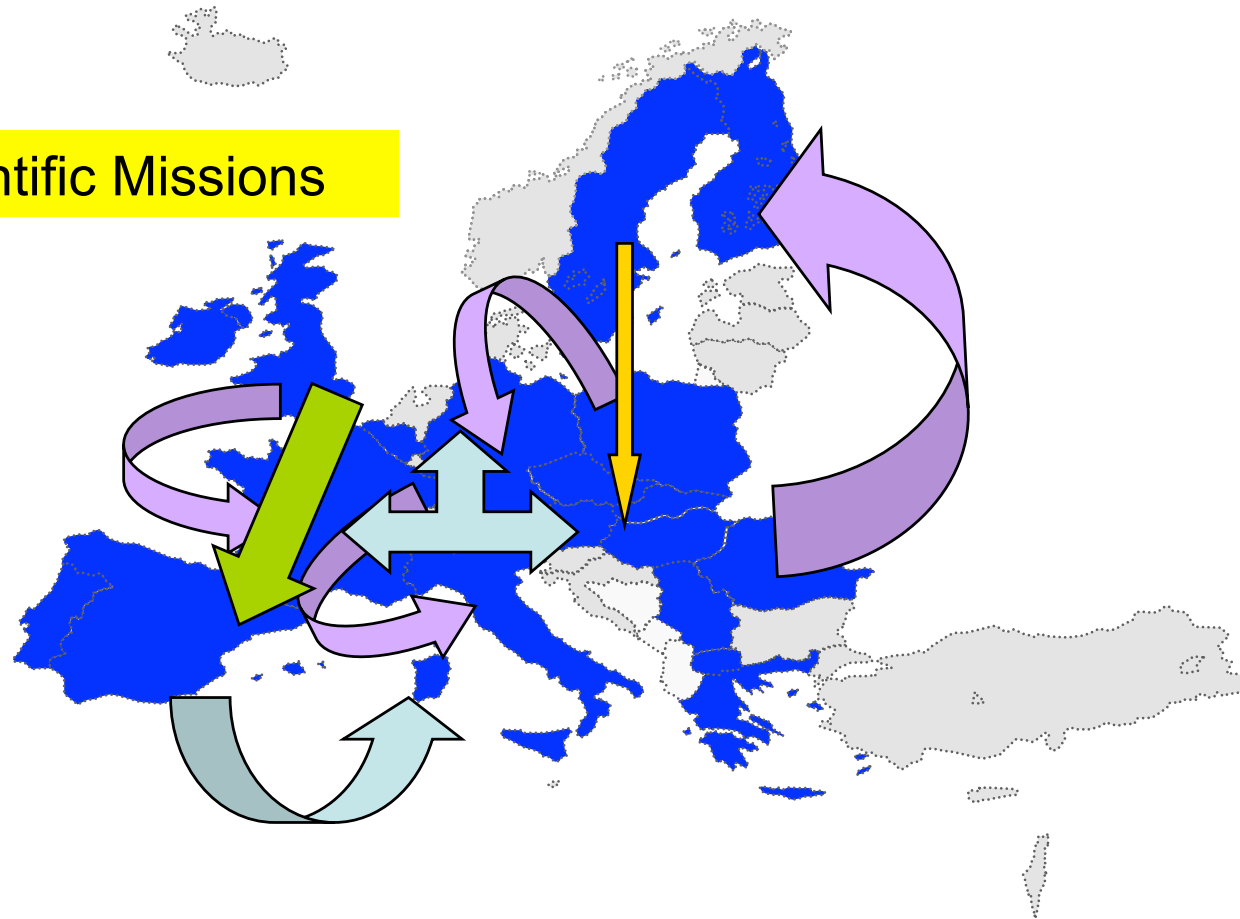
Prel. schedule

- 2010: next WG meeting in Nov. Valencia
- 2011: 2 conferences + combined WG meeting
- 2011: still open 2. WG meeting (independent) – suggestions welcome
-
- 2012: 2 schools + WG meetings



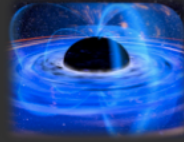
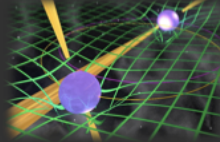
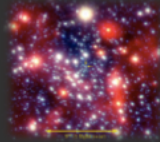
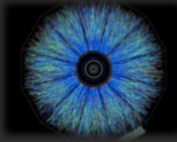
In case you would like to visit another european institute to
do great science

Short Term Scientific Missions



- Website (<http://www.mpifr-bonn.mpg.de/div/vlbi/COST>)
 - Public
 - All information about the scientific activities: calls, conference announcements, programs, *presentations (pdf-file of your presentation at this WG meeting wanted!!)*
 - Contains all activities of the Action of interest to the public, e.g. science description (in all languages), conferences, events, Girls Days, etc.
 - Link to COST
 - Internal
 - Password protected
 - Action coordination on all levels
 - Gender Forum
 - Communication platform for female scientists (Role model, etc.)
 - To present „Astronomers at work“
 - Link to IAU working group „Women in Astronomy“
- Publications
 - Scientific (COST acknowledgement)
 - Wider public





Short Term Scientific Mission

1. Objectives

- to contribute to the scientific aims of the Action
- to strengthen the existing network and to foster collaboration

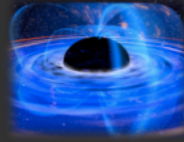
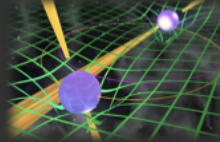
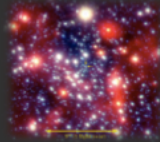
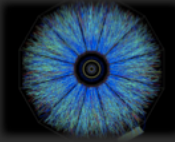
2. The Applicant

- Employed by the COST institute active in the Action

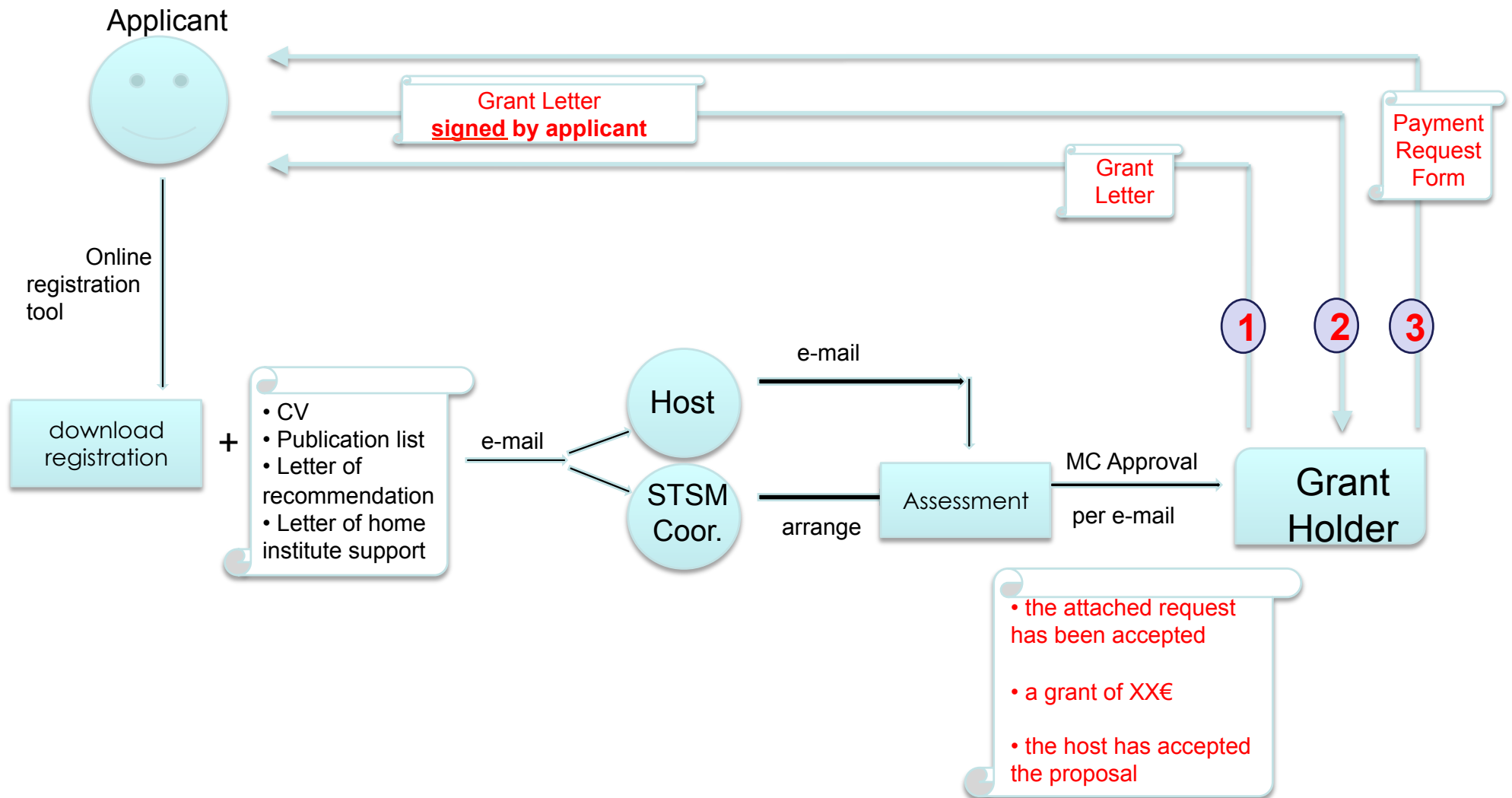
3. Home and Host Institute

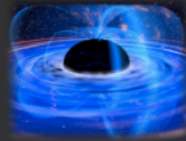
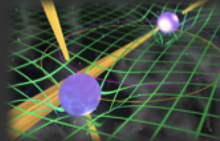
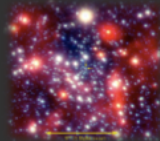
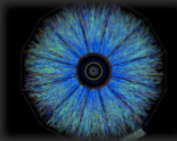
COST country → COST / approved non-COST country
Approved Near Neighbour country → COST country



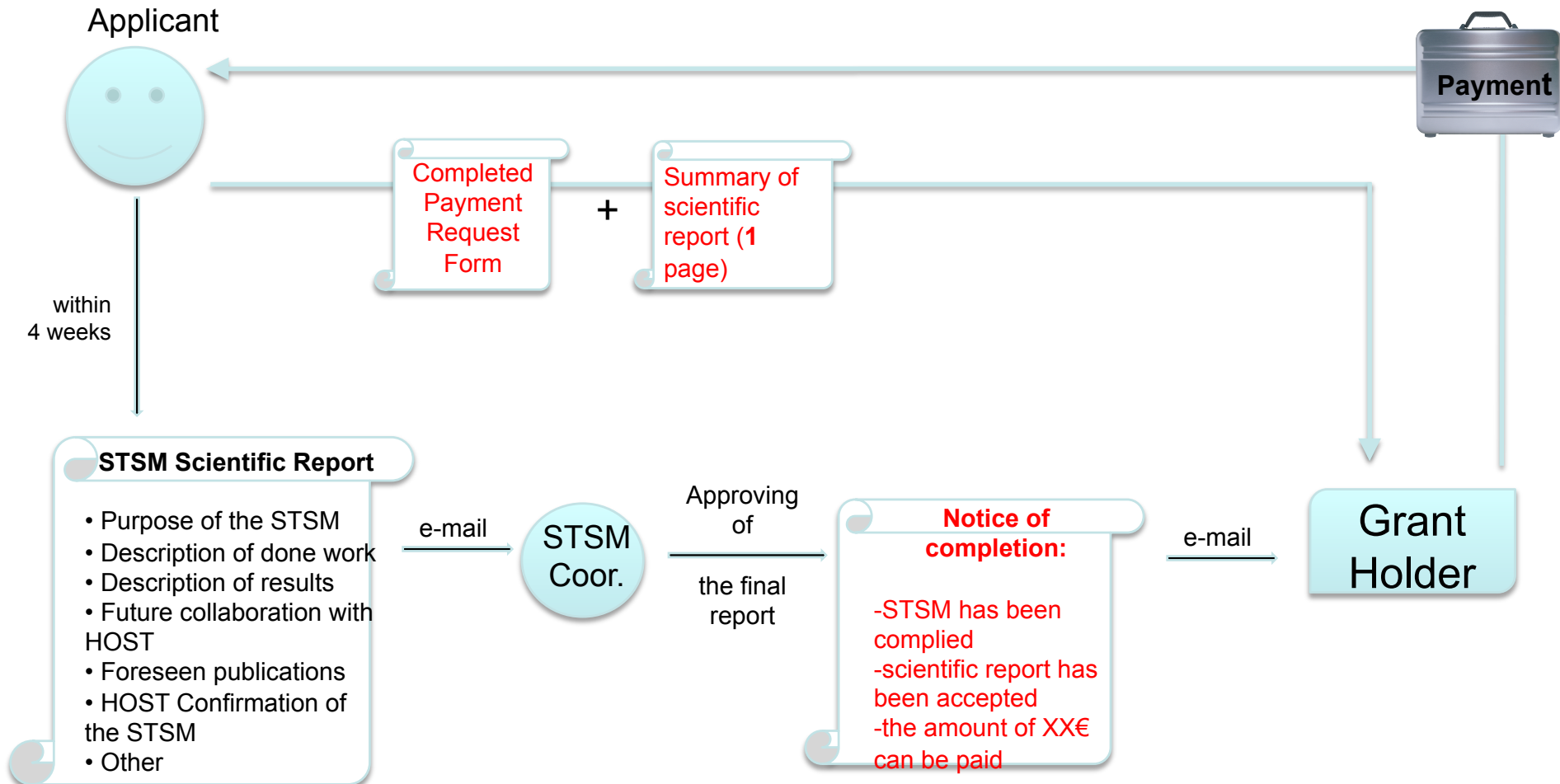


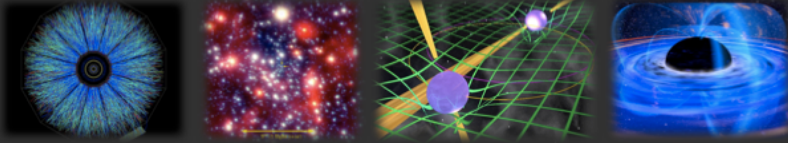
Short Term Scientific Mission



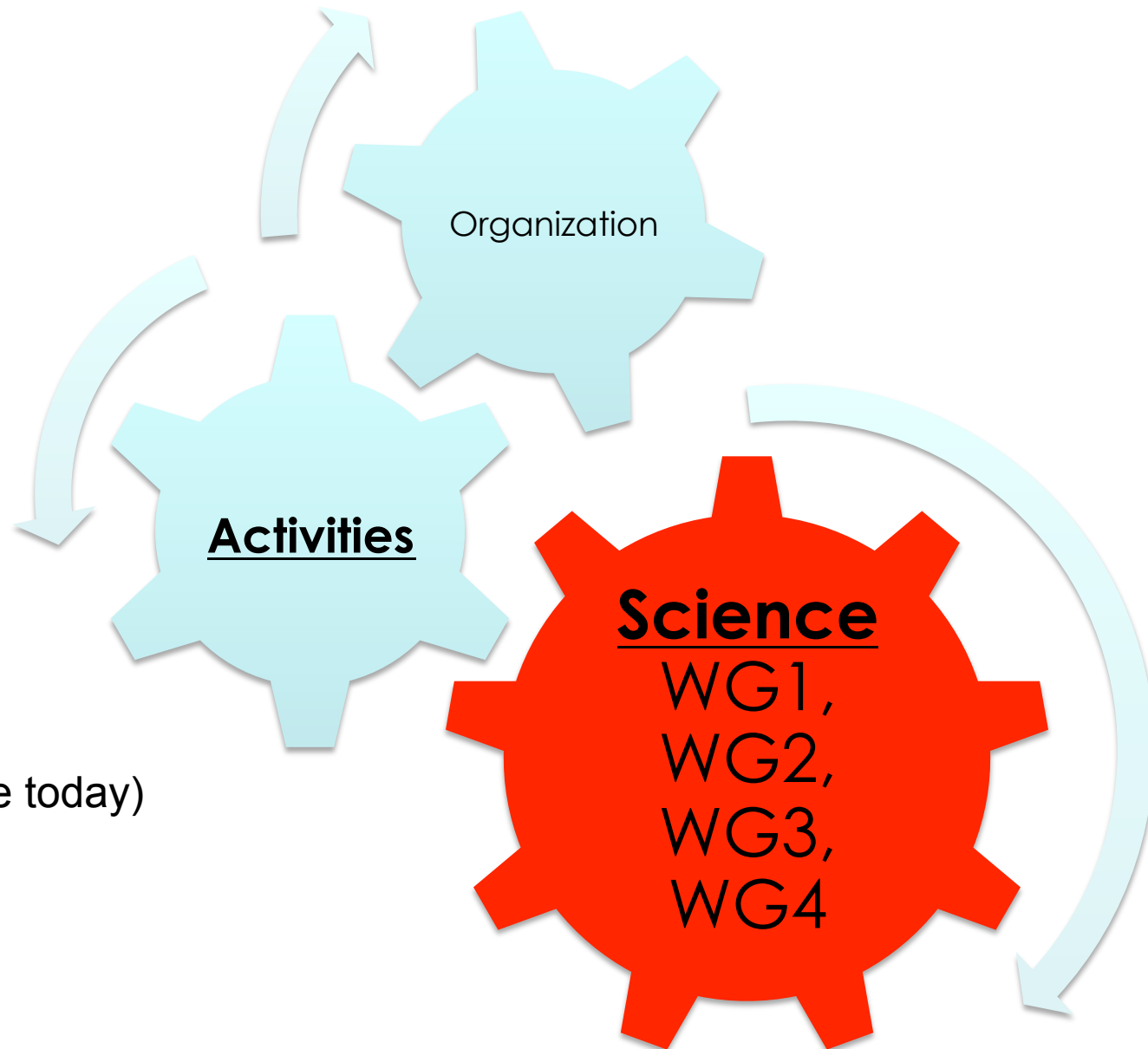


After the STSM








How COST works






Activities =
WG meetings (like today)
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etc.

Programme for the 1st WG's meeting:

June 24

Time		Person	Room
10:00-10:30	Coffee		
10:30-11:00	Welcome	S. Britzen & A. Zensus	0.02
11:00-11:30	Action MP0905	S. Britzen	0.02
11:30-12:15	Quantum Black Holes	X. Calmet	0.02
12:15-12:45	Stellar Black Holes	A. Rushton	0.02
12:45-14:00	Lunch		
14:00-14:45	Galactic Centre Black Holes	A. Eckart	0.02
14:45-15:30	Supermassive Black Holes	E. Ros	0.02
15:30-16:00	Coffee		
16:00-18:00	WGs meetings (separately)		
	 WG1	X. Calmet	0.01
	 WG3	A. Eckart	EK09
	 WG4	E. Ros	0.02

June 25

09:00-10:30	WGs meetings (separately)		
	 WG1	X. Calmet	0.01
	 WG3	A. Eckart	EK09
	 WG4	E. Ros	0.02
10:00-10:30	Coffee		
11:00-13:00	Forum Synergy	S. Britzen	0.02
13:00-14:00	Lunch		
14:00-15:00	Organizational issues	I.Rottmann&V.Tegethoff	
15:00	End		

Let's get started ...

