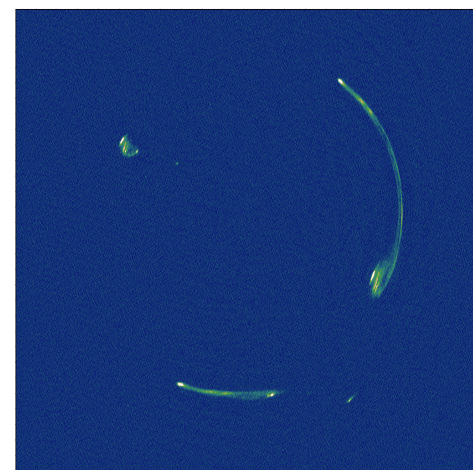
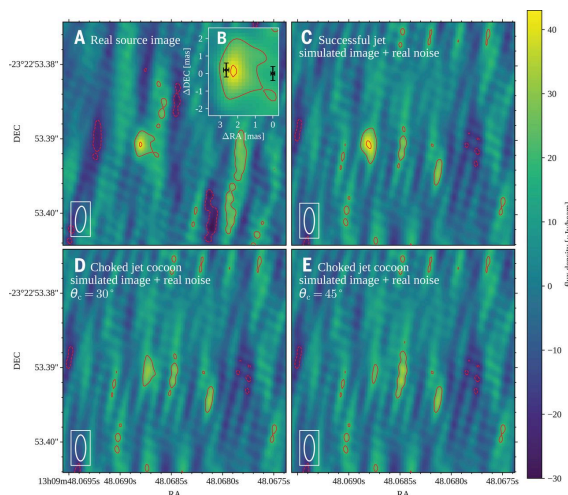
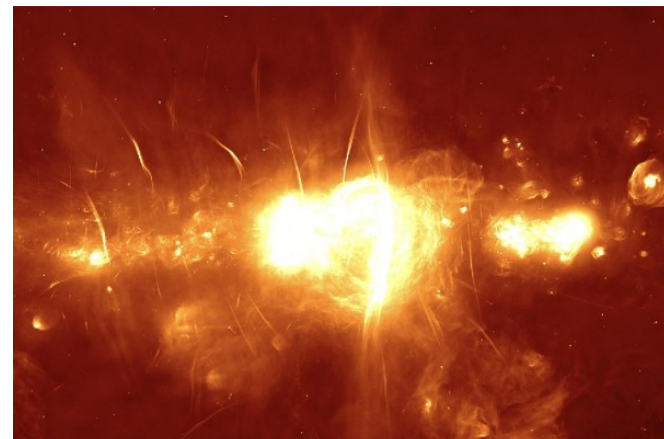
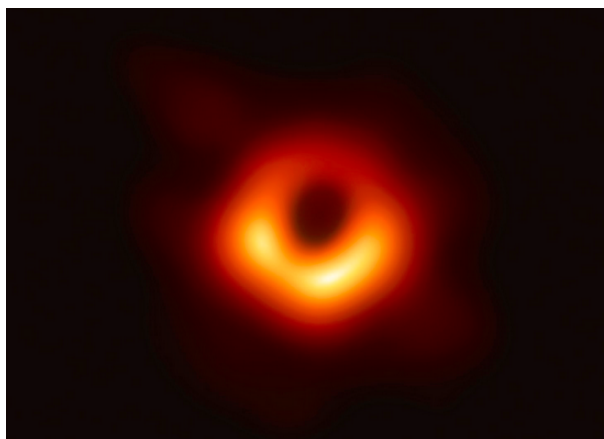
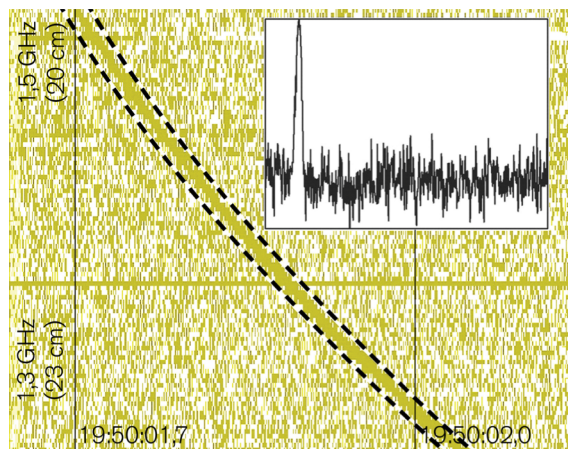


# CRAF and RadioNet

Michael Lindqvist, Onsala Space Observatory, Chalmers, Sweden



# Outline

- CRAF
- RadioNet (our sponsor), including film

# What is CRAF?

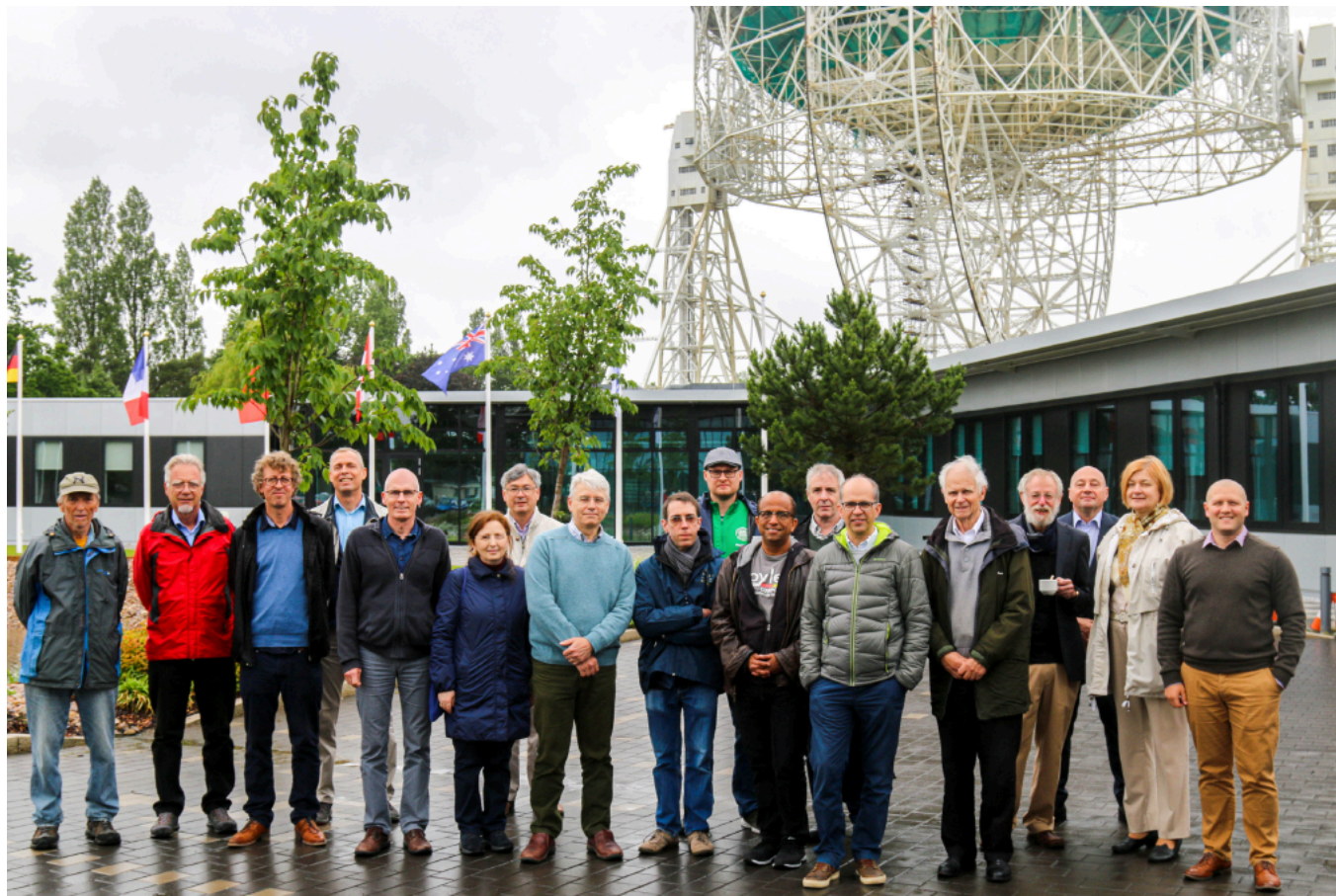
- CRAF is the expert committee on radio astronomy frequencies of the European Science Foundation (ESF).
- ITU sector member & observer status in CEPT.
- It can submit input documents (usually on compatibility studies for new proposed frequency allocations for active spectrum use)

# Who is CRAF?

- CRAF has member institutes (radio observatories, national academies or funding agencies) in 22 countries.
- International organisations participate as observers (ESA, IRAM, IVS and SKA).
- CRAF employs a full-time Frequency Manager: Waleed Madkour.
- Management team (6 people): Chair: Michael Lindqvist (Sweden).
- f2f meeting: once per year + video meetings.
- Next f2f meeting, May 6-8, Ventspils, Latvia



# Who is CRAF?



Jodrell Bank Observatory, June 2019

# Why do we need CRAF?

- CRAF represents all European radio observatories at the European and global level: at CEPT and ITU fora
- CRAF represents national RAS interests at national Spectrum management administrations



together we are stronger

# RadioNet





# EC supports radio astronomy since FP4

## Since 2004 officially under RadioNet

2004-2008

24 partners (EU, AU, ZA)

12,5 M€ & 18 WP

MANCHESTER  
1824



2009-2011

26 partners (EU, KR, US, ZA)

10 M€ & 18 WP

ASTRON



2012-2015

27 partners (EU, AU, KR, ZA)

9,5 M€ & 19 WP



Max-Planck-Institut  
für Radioastronomie



MAX-PLANCK-GESELLSCHAFT



2016-2020

27 partners (EU, KR, ZA)

10 M€ & 14 WP



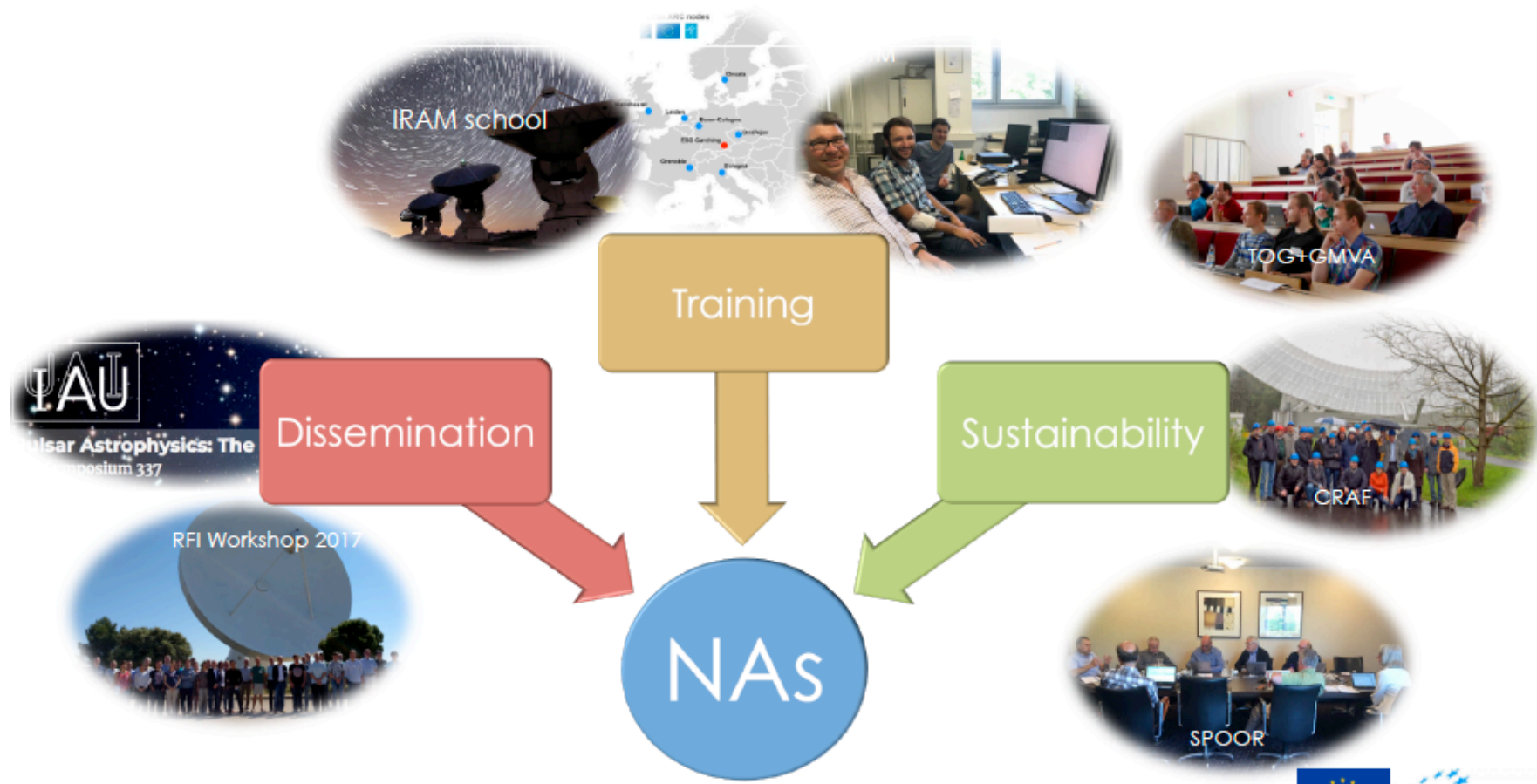
Max-Planck-Institut  
für Radioastronomie



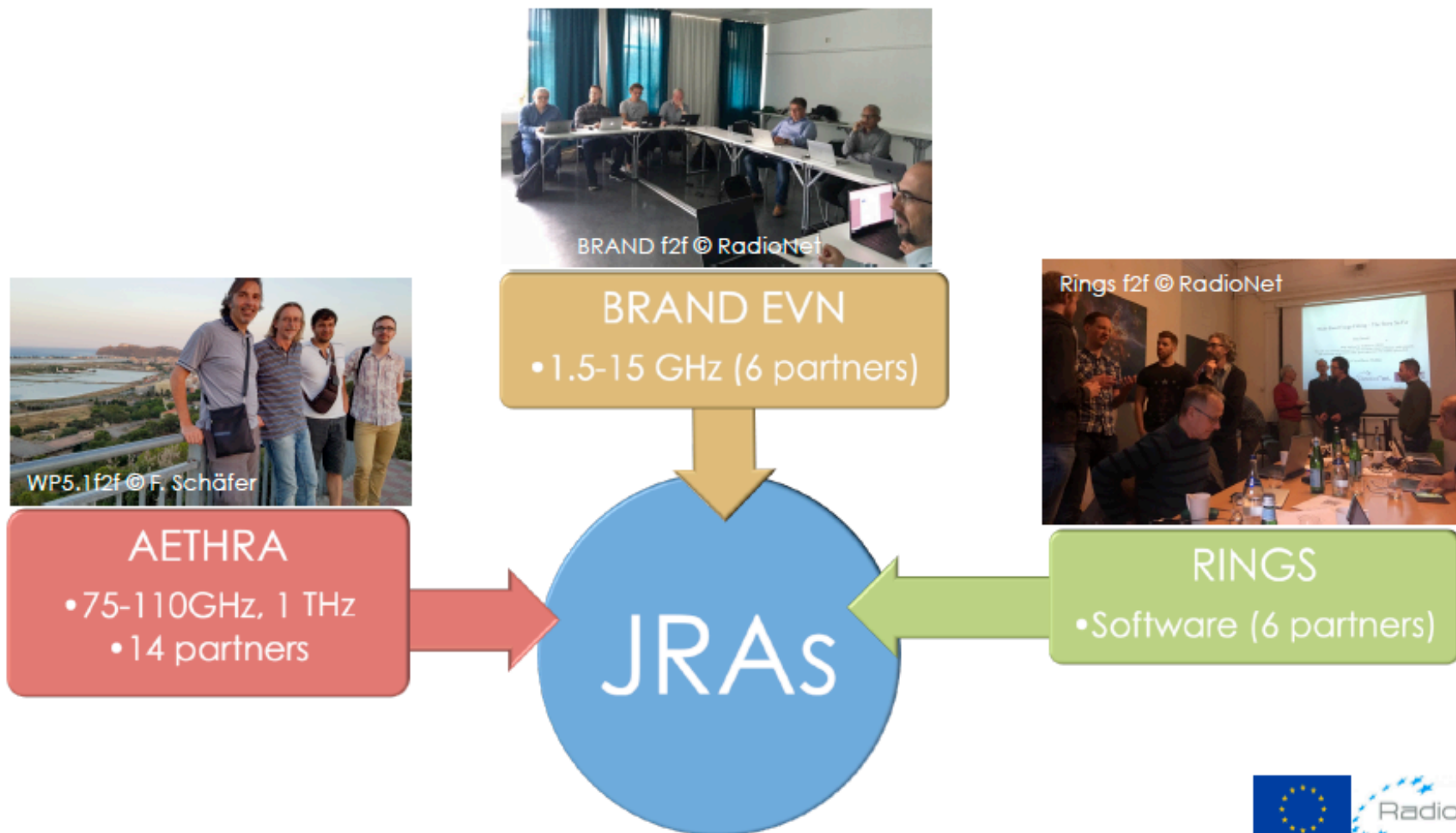
MAX-PLANCK-GESELLSCHAFT



# Network activities



# Joint research activities



# Transnational Access

EVN



IRAM NOEMA



LOFAR



e-MERLIN



VA

Apertif Long Term Archive



IRAM 30m



APEX



Effelsberg