The Lessons from the OPTICON TNA Programme

John Davies

OPTICON Project Scientist

UKATC

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OPTICON since 2000

- **FP5 (2000-2004) Start-up networking**
- **FP6 (2004-2008) 47 partners €19M (5 years)**
- **FP7-1 (2009-2012) 30 partners €10M (4 years)**
- **FP7-2 (2013-2016) 26 partners €8.5M (4 years)**
- **H2020 (2017-2020) 32 partners €10M (4 years)**
- Partners: funding agencies, hardware R&D groups, observatories, industrial partners
- Activities: observing access, technology R&D, networking / community development

Coordinator: Prof Gerry Gilmore

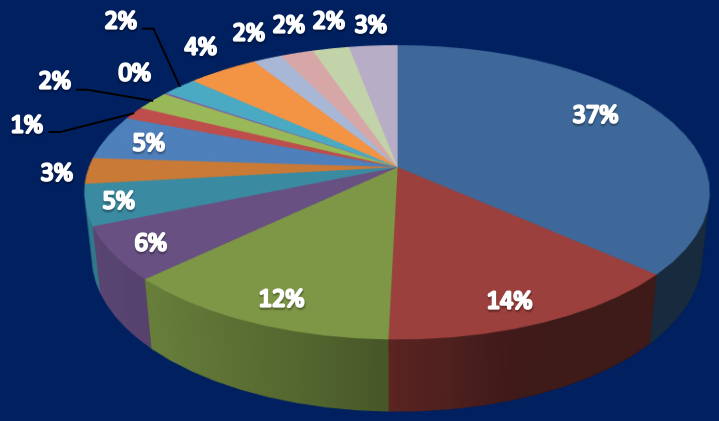
Project Manager: Dr Gudrun Pebody

Project Scientist: Dr John Davies (ATC Edinburgh)

Stable experienced management team – will evolve to remaining EC for FP9

OPTICON H2020

- 32 Partners
- 15 countries + 1 IO
- Funding agencies (STFC, CNRS, MPG, INAF, CSIC, NOVA, ESO)
- Industry
- University technology groups
- Telescope operators
- € 2.4 Million TNA budget

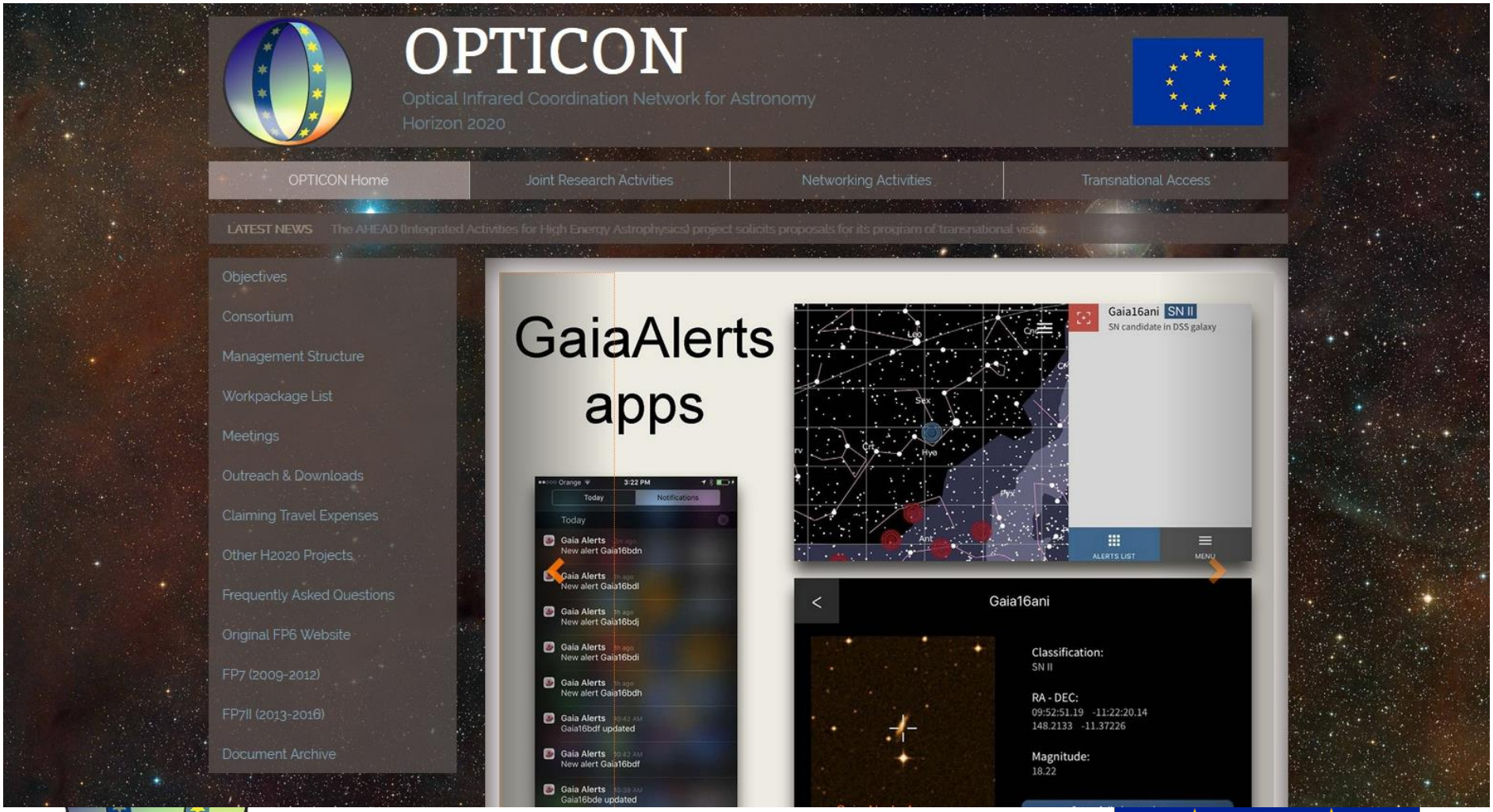


Budget distribution by country

#	Participant organisation name	Country
1	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF CAMBRIDGE	UK
2	CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE	FR
3	ISTITUTO NAZIONALE DI ASTROFISICA	IT
4	MAX PLANCK GESELLSCHAFT ZUR FOERDERUNG DER WISSENSCHAFTEN E.V.	DE
5	SCIENCE AND TECHNOLOGY FACILITIES COUNCIL	UK
6	EUROPEAN SOUTHERN OBSERVATORY	IO
7	AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS	ES
8	UNIVERSITEIT LEIDEN	NL
9	FIRST LIGHT IMAGING SAS	FR
10	OFFICE NATIONAL D'ETUDES ET DE RECHERCHES AEROSPATIALES	FR
11	NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO	NL
12	INSTITUTO DE ASTROFISICA DE CANARIAS	ES
13	MAGYAR TUDOMANYOS AKADEMIA CSILLAGASZATI ES FOLDTUDOMANYI KUTATOKOZPONT	HU
14	UNIWERSYTET WARSZAWSKI	PL
15	NATIONAL OBSERVATORY OF ATHENS	EL
16	NATIONAL UNIVERSITY OF IRELAND, GALWAY	IE
17	KOBENHAVNS UNIVERSITET	DK
18	UNIVERSITE DE LIEGE	BE
19	UNIVERSIDADE DO PORTO	PT
20	LEIBNIZ-INSTITUT FUR ASTROPHYSIK POTSDAM (AIP)	DE
21	POLITECNICO DI MILANO	IT
22	NORDIC OPTICAL TELESCOPE SCIENTIFIC ASSOCIATION	SE
23	DEPARTMENT OF INDUSTRY - AUSTRALIA	AU
24	HERIOT-WATT UNIVERSITY	UK
25	THE UNIVERSITY COURT OF THE UNIVERSITY OF ST ANDREWS	UK
26	LIVERPOOL JOHN MOORES UNIVERSITY	UK
27	UNIVERSITY OF DURHAM	UK
28	THE UNIVERSITY OF EXETER	UK
29	UNIVERSITY OF BATH	UK
30	THE CHANCELLOR, MASTERS AND SCHOLARS OF THE UNIVERSITY OF OXFORD	UK
31	THE UNIVERSITY OF SHEFFIELD	UK
32	INSTITUT D'OPTIQUE THEORIQUE ET APPLIQUEE IOTA	FR


UNIVERSITY OF COPENHAGEN
NUI Galway
OÉ Gaillimh
HERIOT WATT UNIVERSITY
ONERA
THE FRENCH AEROSPACE LAB
MAX-PLANCK-GESELLSCHAFT
UNIVERSITY OF OXFORD
The University Of Sheffield.
AIP
ESO
UNIVERSITY OF WARSAW
INSTITUT d'OPTIQUE GRADUATE SCHOOL
U.PORTO
cnrs
UNIVERSITY OF CAMBRIDGE
TNO innovation for life
UNIVERSITY OF EXETER
FIRST LIGHT ADVANCED IMAGERY
NORDIC OPTICAL TELESCOPE
POLITECNICO MILANO 1863
KONKOLY
Durham University
INSTITUTO DE ASTROFISICA DE CANARIAS
IAC
University of St Andrews FOUNDED 1413
CSIC
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTÍFICAS
CSFK
Universiteit Leiden
OPTICON
Université de Liège
LIVERPOOL JOHN MOORES UNIVERSITY
NATIONAL OBSERVATORY OF ATHENS

Website



http://www.astro-opticon.org

JRAs

[JRA 1]
Calibration and test tools for adaptive-optics E-ELT instruments
Jean-Luc Beuzit
CNRS
€ 500,500

[JRA 2]
(CMOS) Fast Detectors and Cameras for Laser Guide Stars
Philippe Feautrier
CNRS
€ 1,000,000

[JRA 3]
(APD) Emerging Fast Detectors
Andrew Shearer
NUIG
€ 400,000

[JRA 4]
Unlocking the Potential of Freeform Optics for Astro-nomical Instrumentation
Michiel Rodenhuis
UL-NOVA
€ 600,000

[JRA 5]
Additive Astronomy Integrated-component Manufacturing
Hermine Schnetler
STFC
€ 849,957

[JRA 6]
Astro Photonics
Roger Haynes
AIP
€ 529,989

[JRA 7]
Innovative Photosensitive Materials for Diffractive and Reflective Optical Elements
Andrea Bianco
INAF
€ 500,000

[JRA 8]
Next Generation Instrument Concepts for VLT Interferometry
Jörg-Uwe Pott
MaxPlanck
€ 550,625

Networks

[NA 1]
Adaptive Optics Community Network
Richard Myers
UDUR
€ 499,500

[NA 3]
Enhancing Community Skills – Integrating Communities
Heidi Korhonen
UCPH
€ 429,527

[NA 5]
Technology and Innovation Network
Wayne Holland
STFC
€ 124,416

[NA 2]
VLTI Expertise Centres Network
Paulo Garcia
UPORTO
€ 250,000

[NA 4]
Time-Domain Astronomy
Lukasz Wyrzykowski
UNIWARSAW
€ 600,000

[NA 6]
Long-term Strategic Planning
Gerry Gilmore
UCAM
€ 100,000

OPTICON

Trans-national Access Programme

www.astro-opticon.org

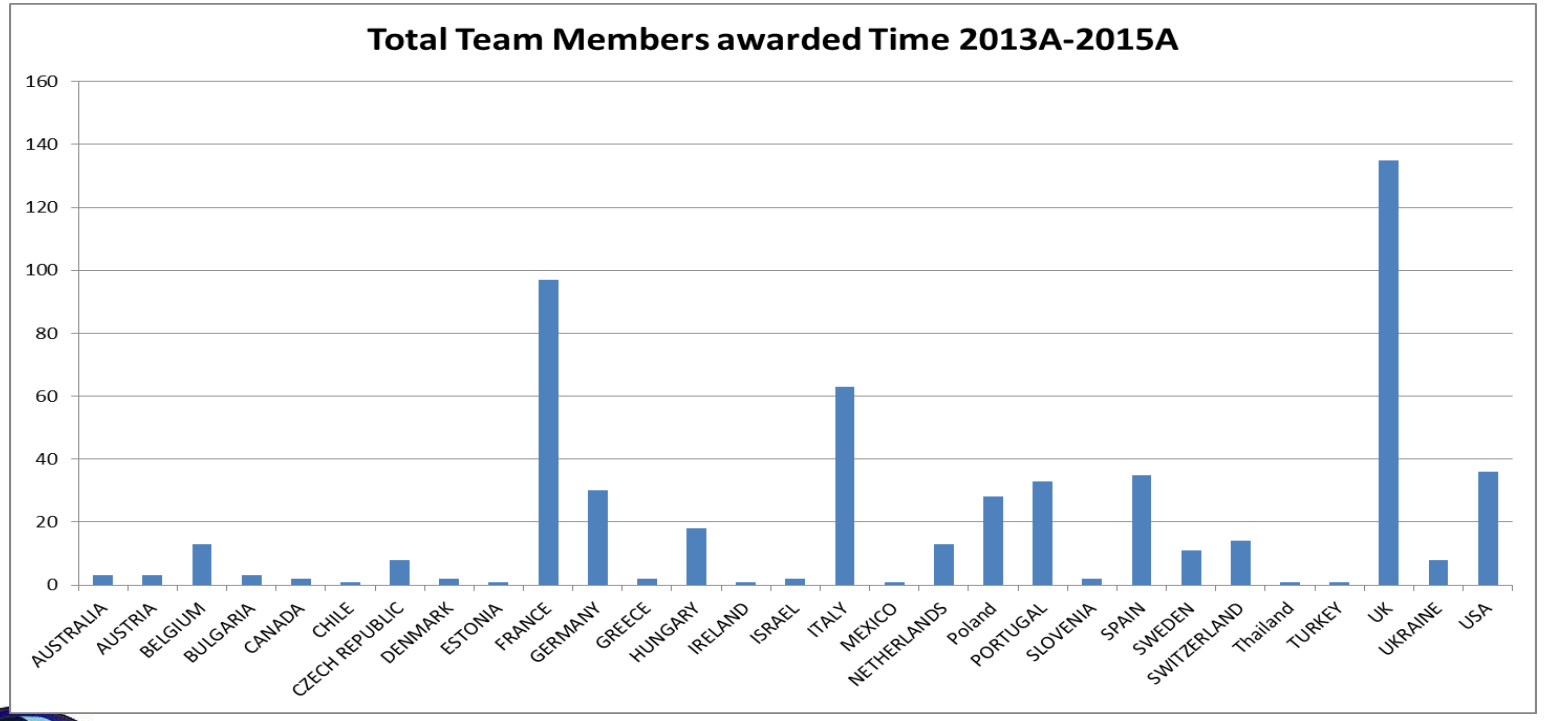
Philosophy

- Use a single OPTICON TAC comprising 7 different nationalities allocating time across the whole network using a single proposal system .
- Rank projects in science merit order and allocate time until the resources available for that semester runs out
- Give successful qualifying applicants travel support
- Telescopes receive ‘user fees’ based on user demand, not pre-defined quotas. The user fees follow the best science

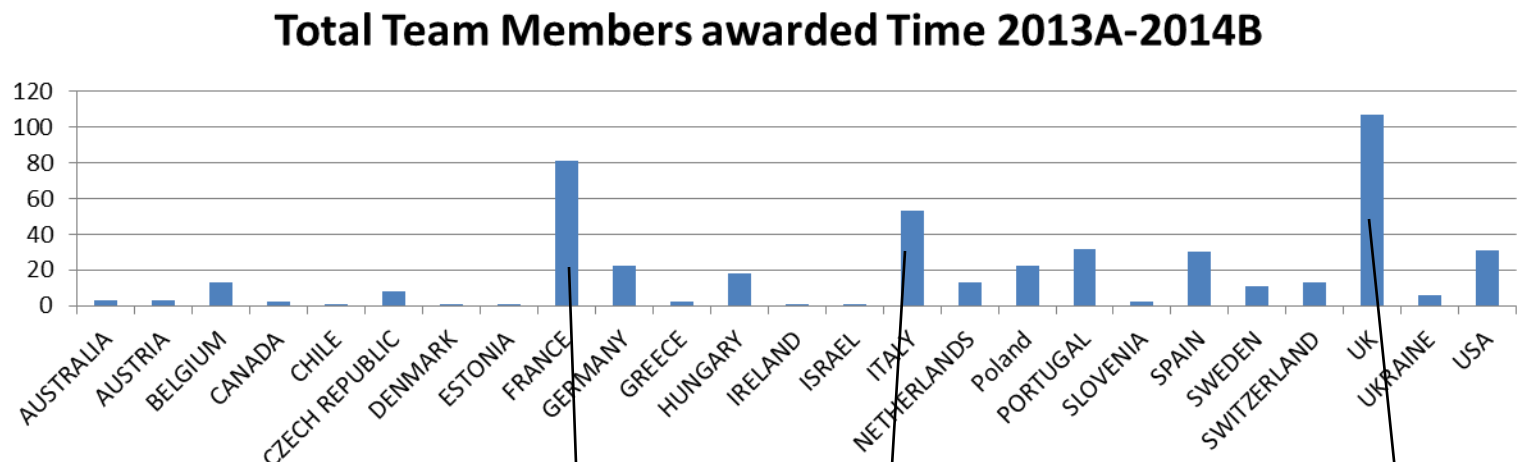
Proposals and Allocations (FP7)

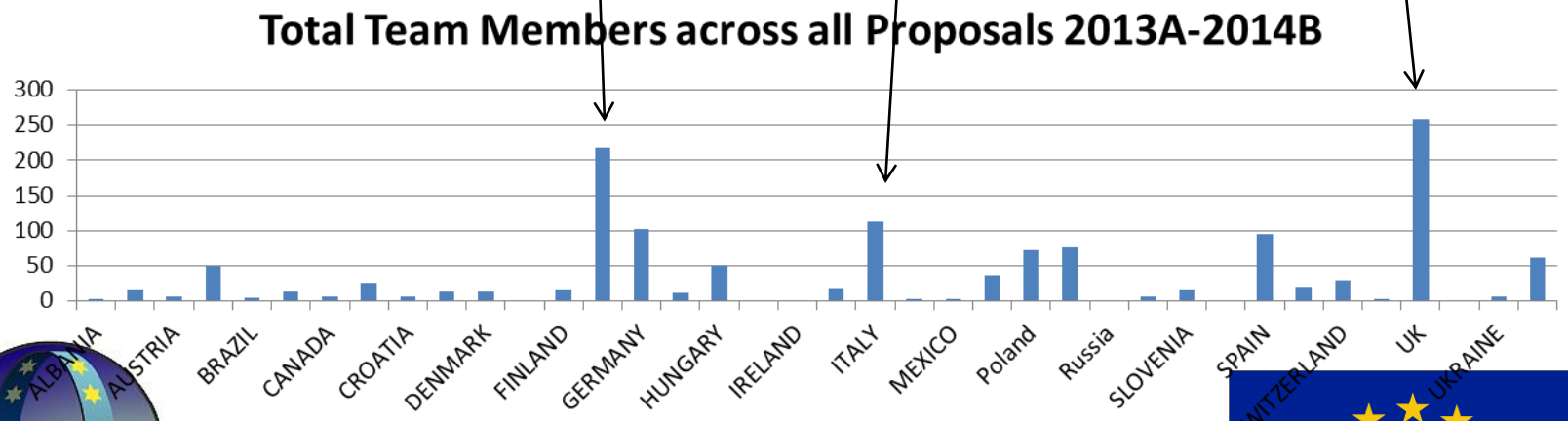
2013A	17/41
2013B	18/71
2014A	13/55
2014B	18/70
2015A	21/60
2015B	16/65
2016A	17/60
2016B	13/75
Total Proposals	497

In FP7 OPTICON had 497 proposals, about 60 per semester.
The oversubscription (pressure factor) is about 3.5



OPTICON





OPTICON

50+ papers in high impact journals

2017B

54 Proposals requesting 69 Instruments

of which

Imaging 27

Spectroscopy 42

2017B

- Stars and Stellar Physics 17
- Extrasolar Planets 13
- Low –z Universe 2
- High –z Universe 2
- Solar system 0

2017B Spectroscopy Requests

- Hi Resolution 22
- Med Resolution 20

2017B Allocations

- Imaging(incl Robotic monitoring) 8
- Spectroscopy 13

SPRAT 2

HARPS 3

ACAM (long slit) 1

SOFIE 1

Carmenes 1

FIES 1

Giano 2

Dolores 1

NOTCAM (spect) 1

FIN

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730890.
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