



EGO en synthèse:

Le consortium
Franco-Italien
créé pour soutenir
l'expérience VIRGO et
promouvoir la coopération
dans le domaine de la
physique des ondes
gravitationnelles en Europe





The history of the project

The VIRGO Collaboration:

- **First studies:**
 - Brillet (Nice): optics
 - Giazotto (Pisa): seismic isolation
- **Collaboration France-Italy established in 1992**

CNRS and INFN approved the VIRGO project.

1997 Construction starts near Pisa



➤ **Foundation of EGO in 2000**

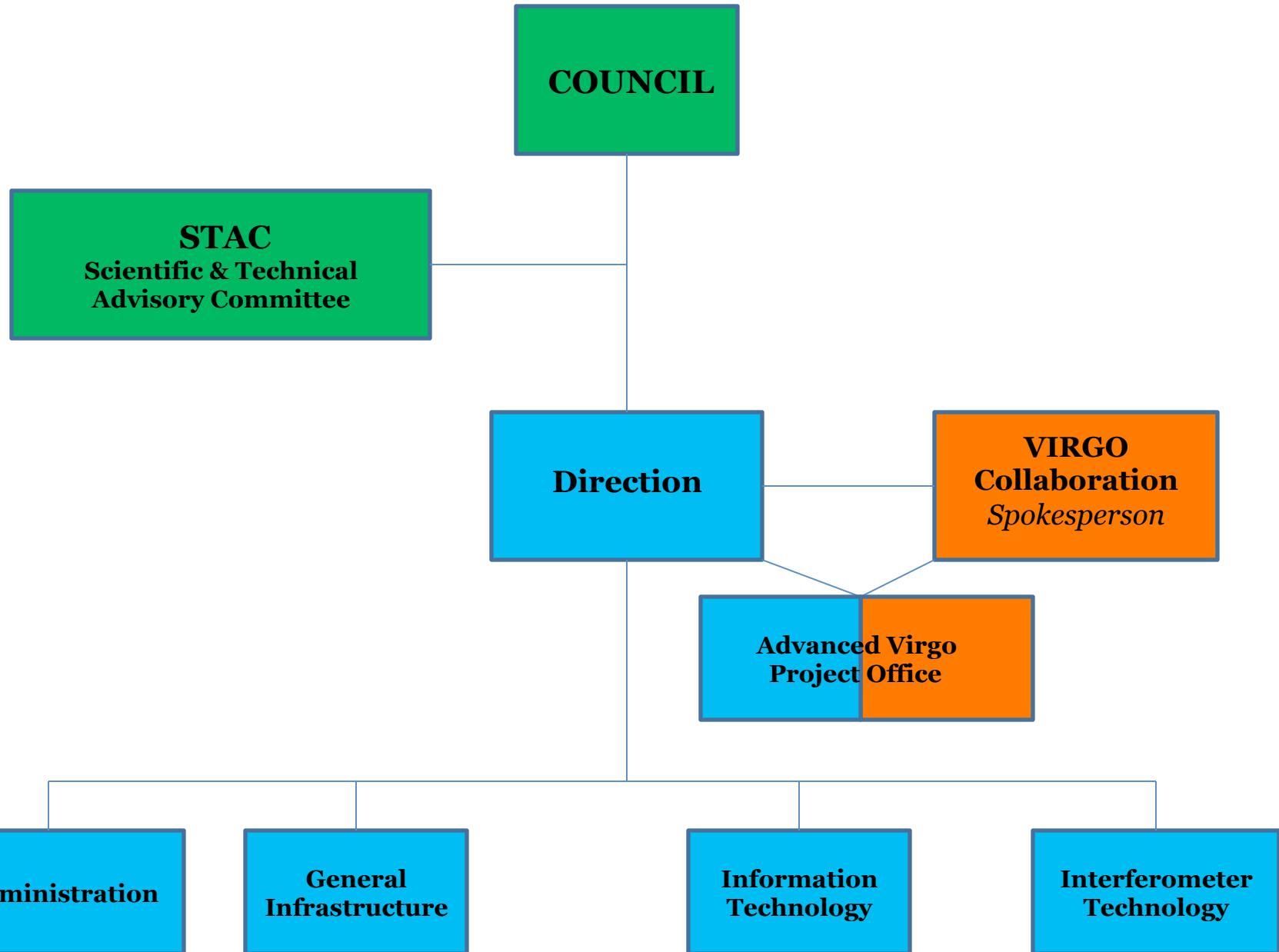
2004/2005 Commissioning

2006 Physics

Netherlands: Nikhef joined EGO/Virgo in 2006

➤ **EGO Council approved Advanced VIRGO in 2009**

Poland (POLGRAW) & Hungary (RMKI) joined EGO/Virgo in 2010, Spain (Valencia Un.) in 2016



EGO Support to VIRGO

To ensures operation, maintenance and upgrade
of the interferometer VIRGO,

Infrastructures & laboratories:

Optics

Electronics

Ultra-High Vacuum

Mechanics

Computing

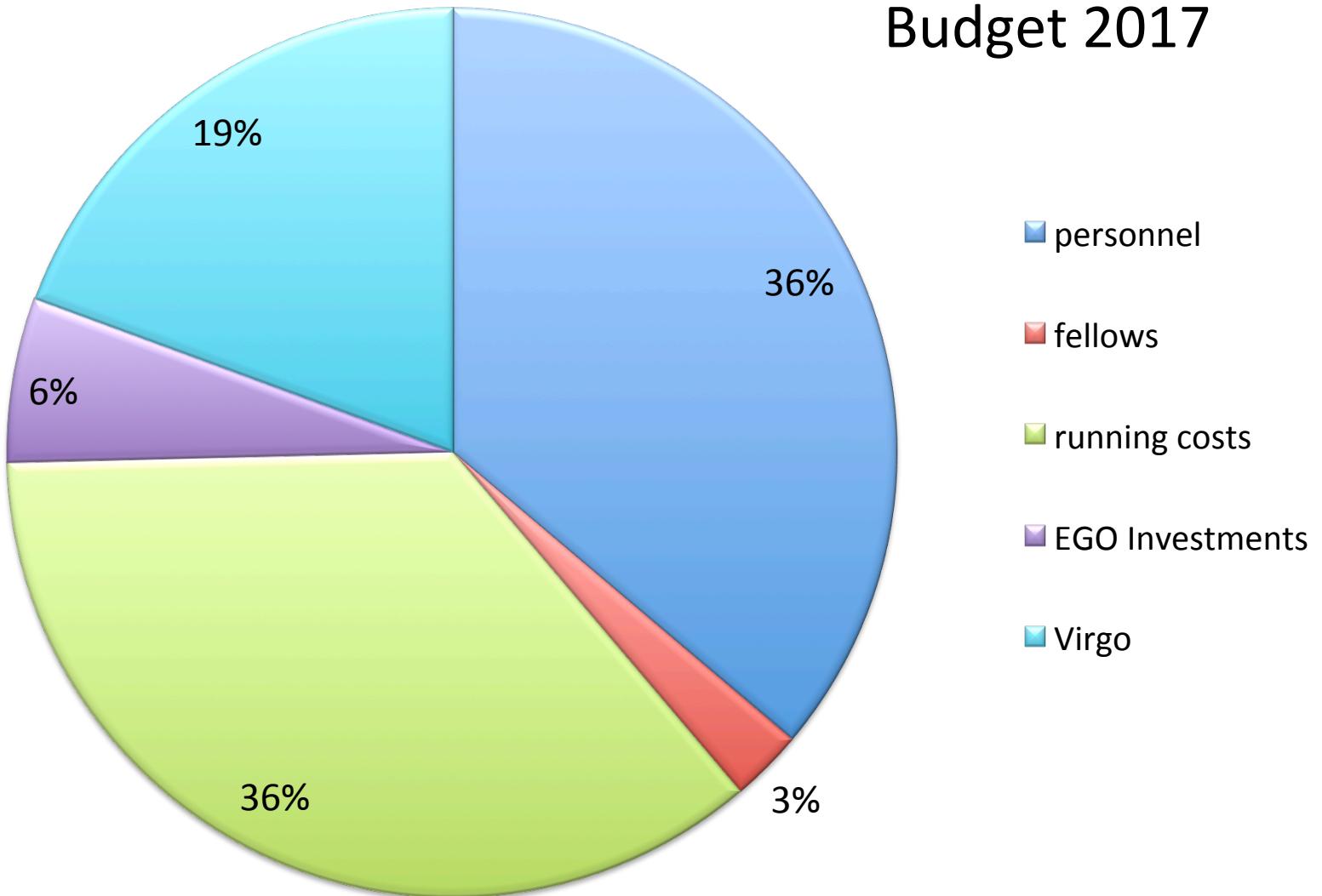
Budget 2017

	Incomes
CNRS	4.500.000
INFN	4.500.000
Other incomes	620.000
Residuals	1.057.000
	10.677.000

Till 2010
5+5 M€

Expenditures per Dept	Allocation
Administration	5.514.000
General Infrastructure	1.445.000
Interferometer Technology	583.000
Information Technology	785.000
Fellowships	280.000
AdV investments	943.000
Virgo Maintenance & Upgrades	1.127.000
	10.677.000

Budget 2017



Contributions for AdV

CNRS:

Total via EGO budget	Total via Labs	Total contribution
4 599	2 401	7 000

INFN:

Total via EGO budget	Total via Labs	Total contribution
6 027	973	7 000

Nikhef:

In Kind
2 000

EGO:

Direct	Indirect
7 800	3 339

EGO Mandate on a larger horizon, from Statute

EGO:

Carries out research in the field of gravitation
of common interest of the Members

Promotes contacts among scientists and
engineers, dissemination and training for
young researchers

Promotes co-operation on experimental and
theoretical gravitational waves research
in Europe

European Projects coordinated by EGO

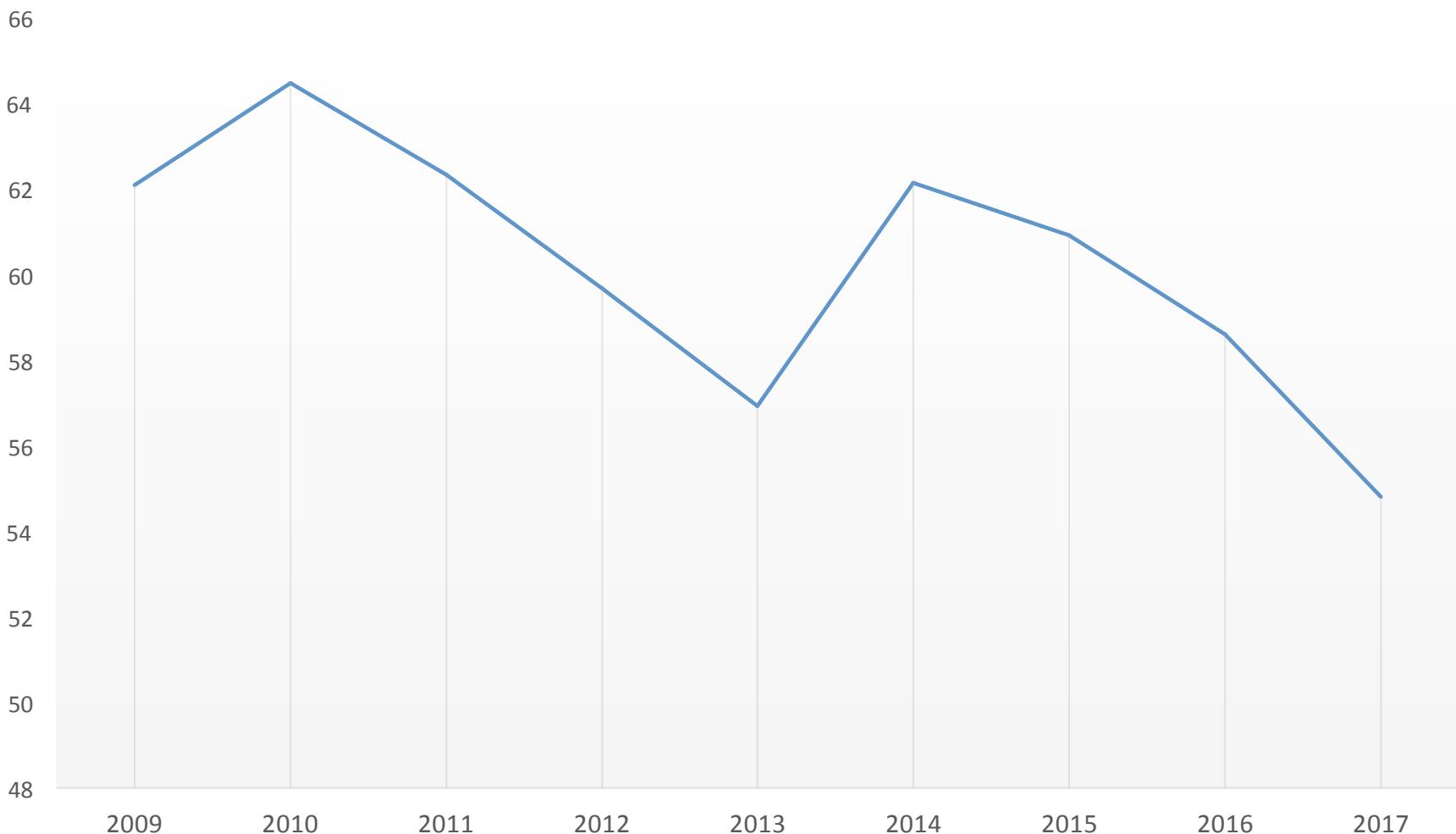
- In the past: 2004-2008
 - FP6-ILIAS integration activities (under the ASPERA hat)
 - Networking in GW - FR, DE, GB, IT (**0.1M€**)
- Recently: 2008-2012
 - Einstein Telescope Design Study - FR, DE, GB, IT, NL + HU, PL, ES (**3 M€**)
- Now: 2012-2016
 - ELiTES (FP7-IRSES) - DE, FR, GB, IT, NL / JP (**0.3 M€**)
 - GraWIToN (FP7-ITN) - FR, DE, GB, IT (**3.6 M€**)
 - *Role of EGO:*
Coordination of all the networking activities, participation to specific work packages, support of the management efforts, interface with the EU (reports, audit, ...)

Back to funding Agencies (k€)

From EGO Budget	2015	2016	2017
Missions	1380	600	600
Computing Centers	117	157	200
LMA	300	300	300
Fellowships	439	368	280
Upgrades			600
	2236	1425	1980

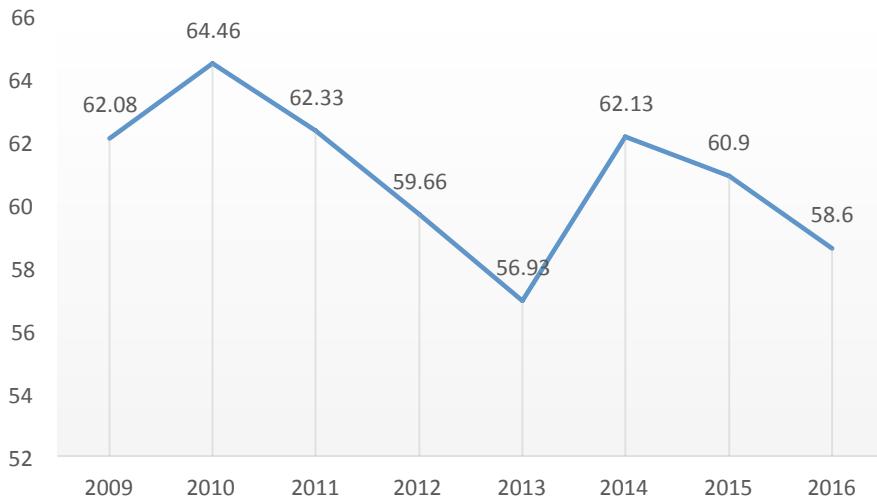
From EU funds - EGO coordination	CNRS	INFN
	727	1312

Evolution Ego staff (fte) from 2009 to 2017

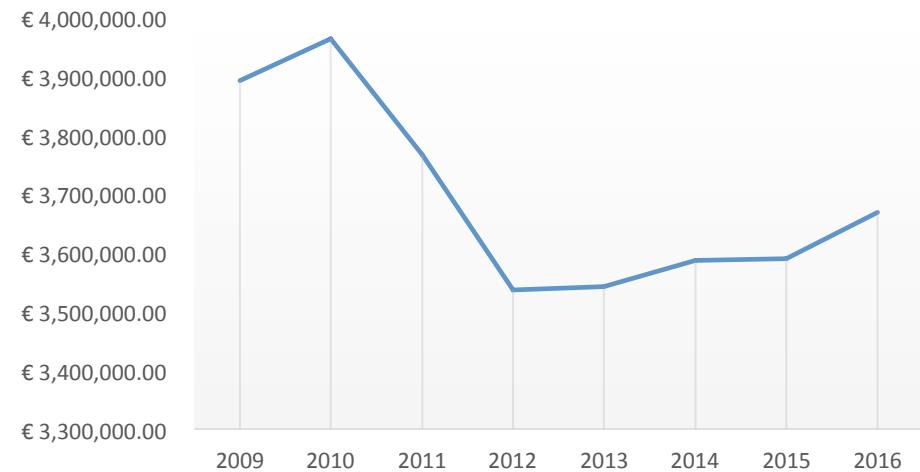


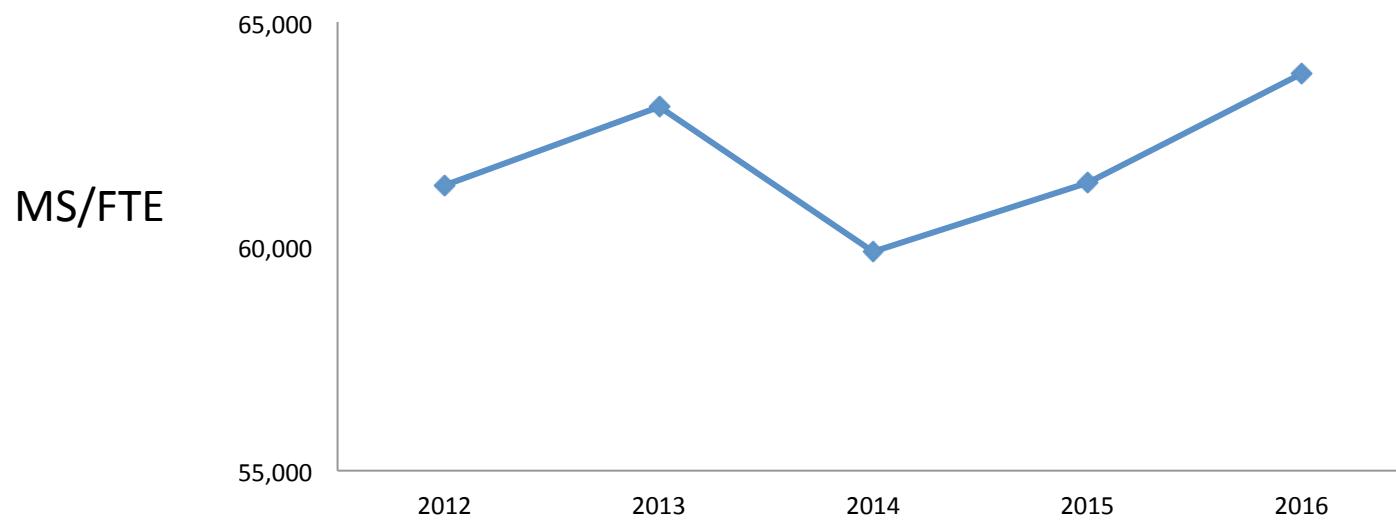
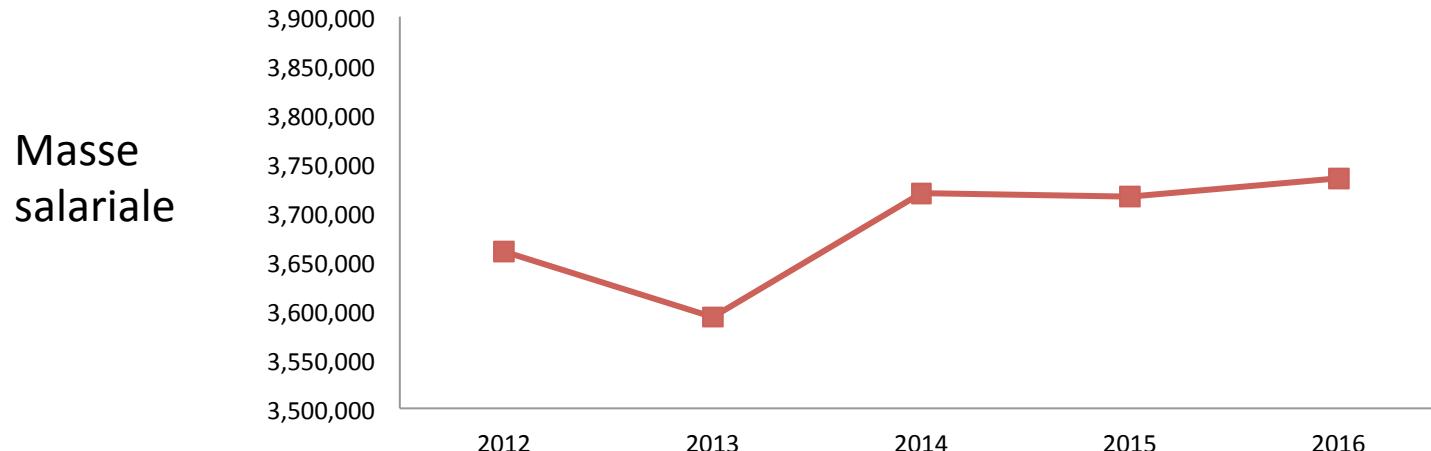
EGO Personnel Statistics

Evolution Ego staff (fte) from 2009 to 2016

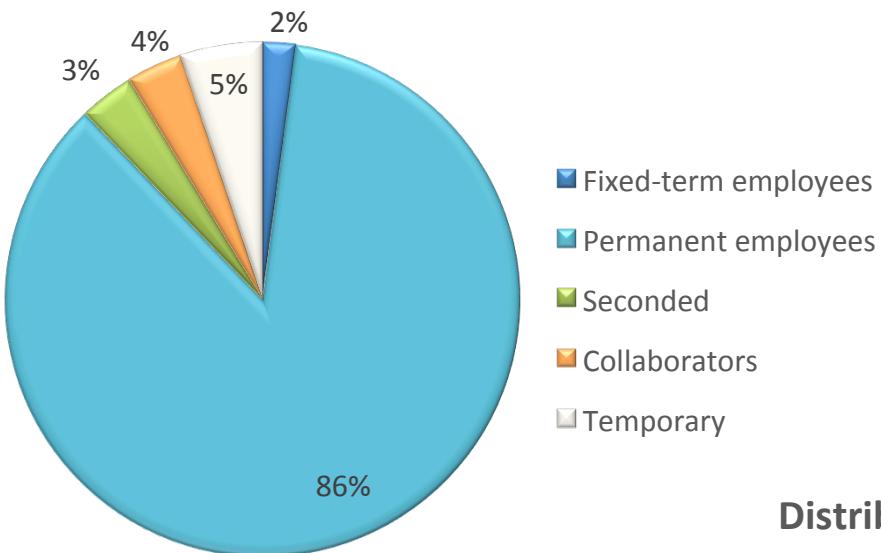


Evolution Ego staff cost from 2009 to 2016

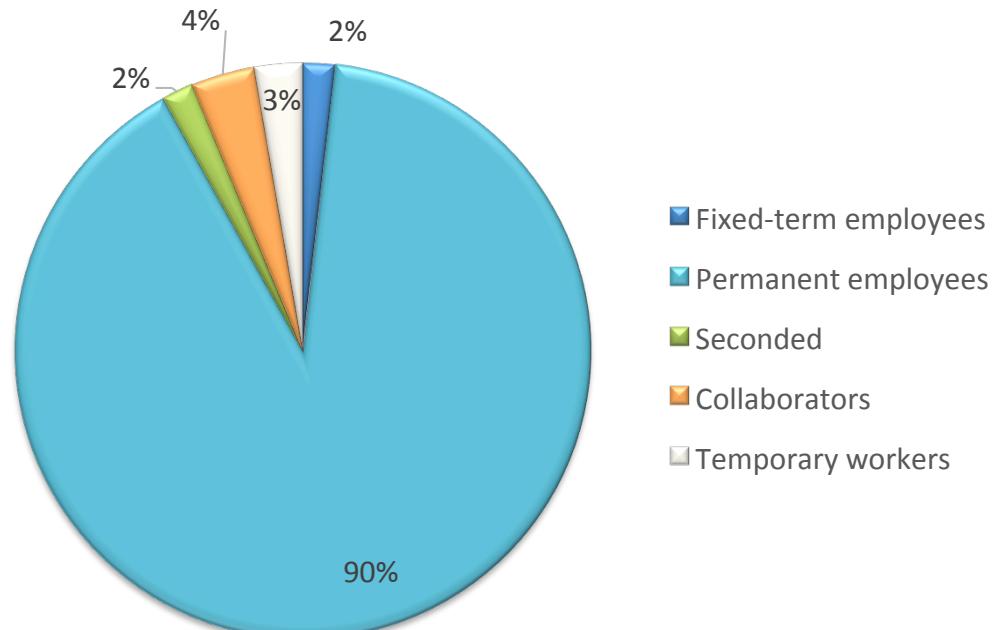




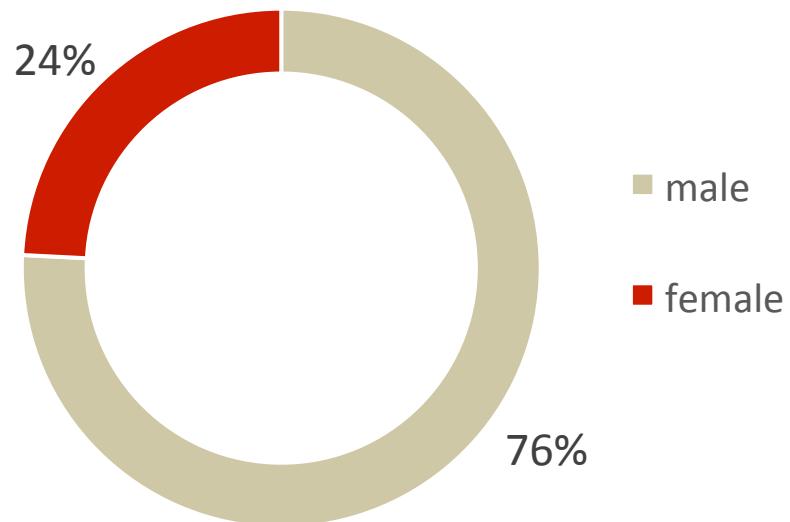
Distribution Ego staff by kind of contract (fte) year
2016



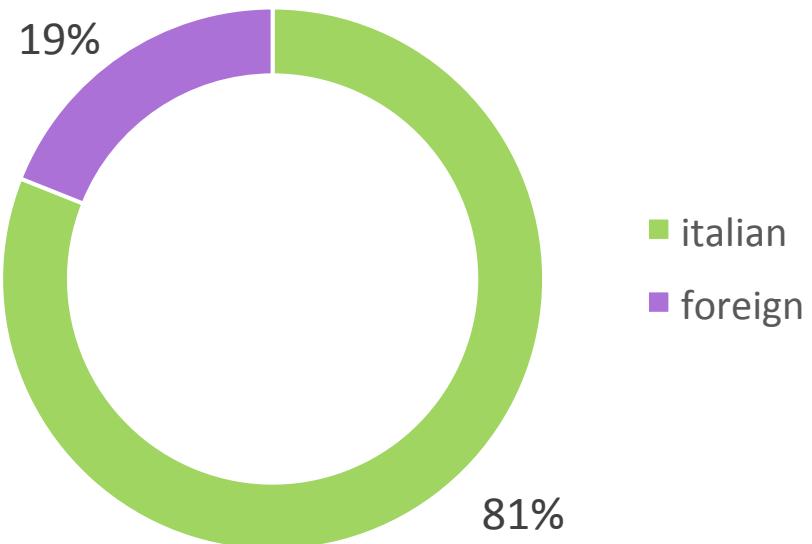
Distribution Ego staff by kind of contract (fte)
Estimation year 2017



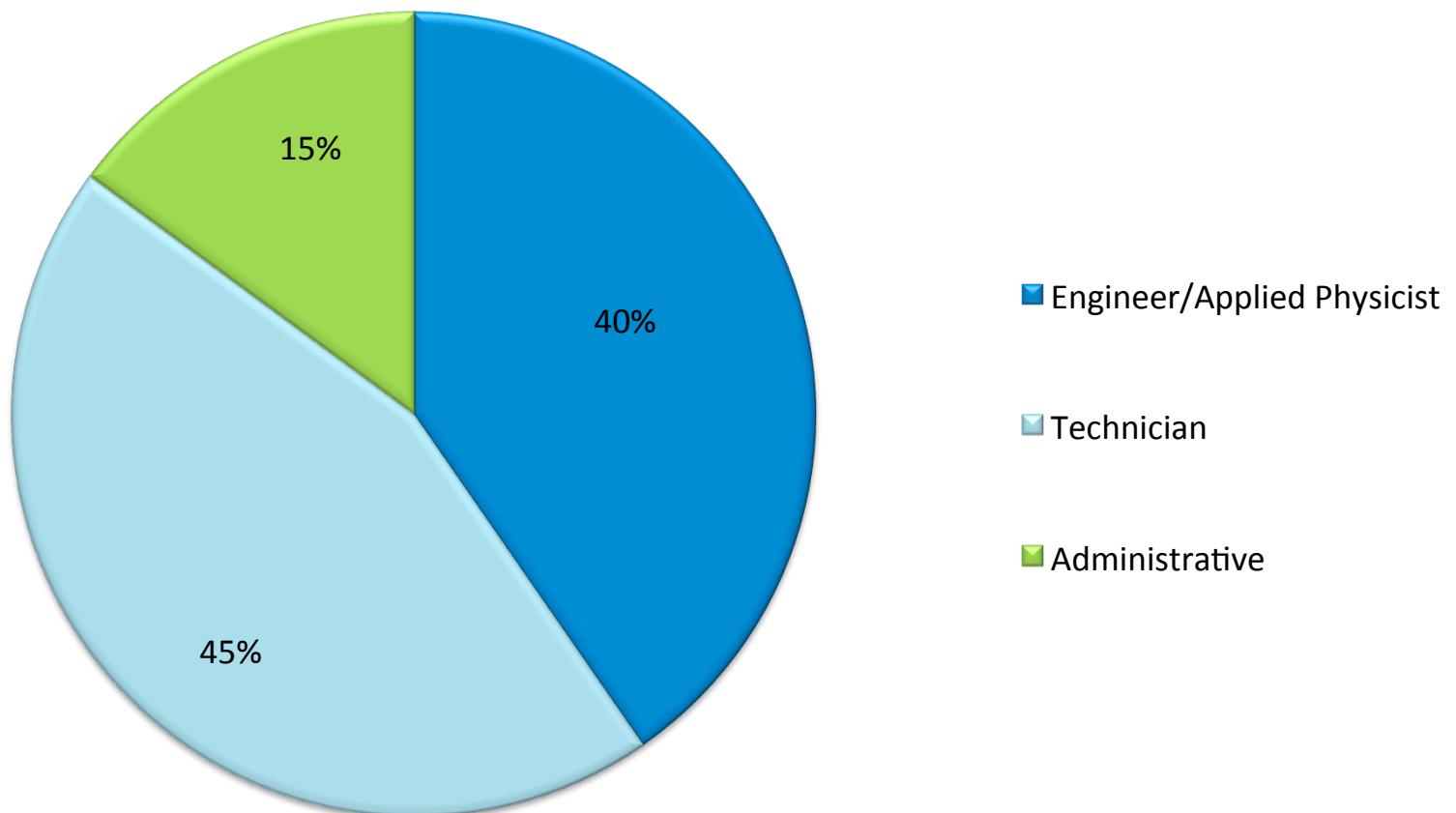
Distribution Ego staff by gender 2016



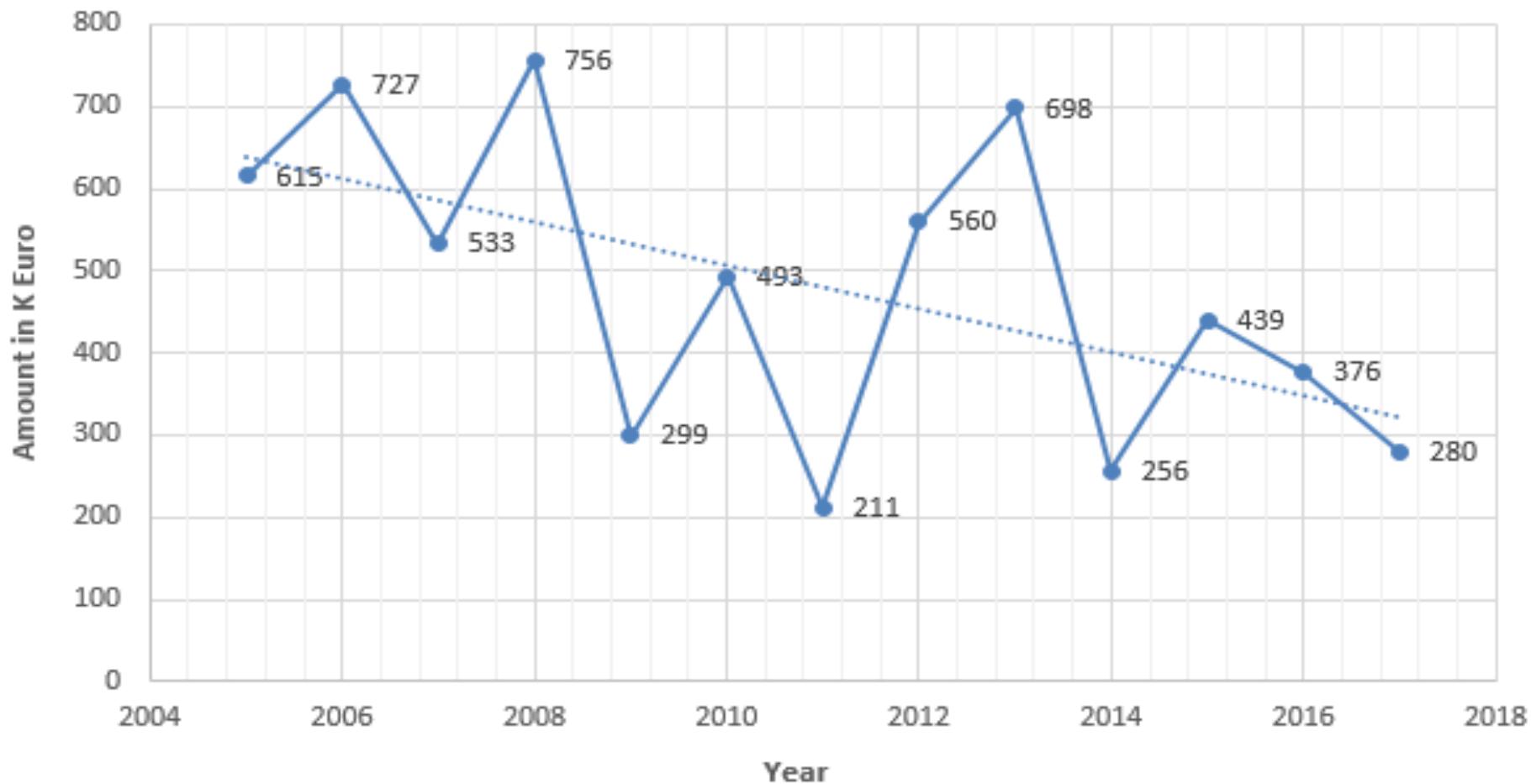
Distribution Ego staff by nationality 2016



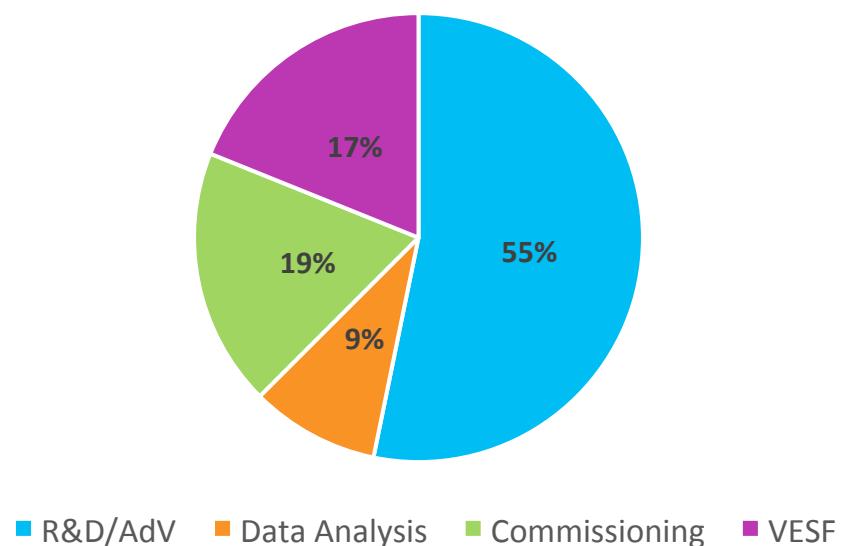
Distribution Ego staff by kind of contractual title
Estimation Year 2017



Fellowships in EGO budget over the years



Scope of EGO-funded fellowships (2009-2016)

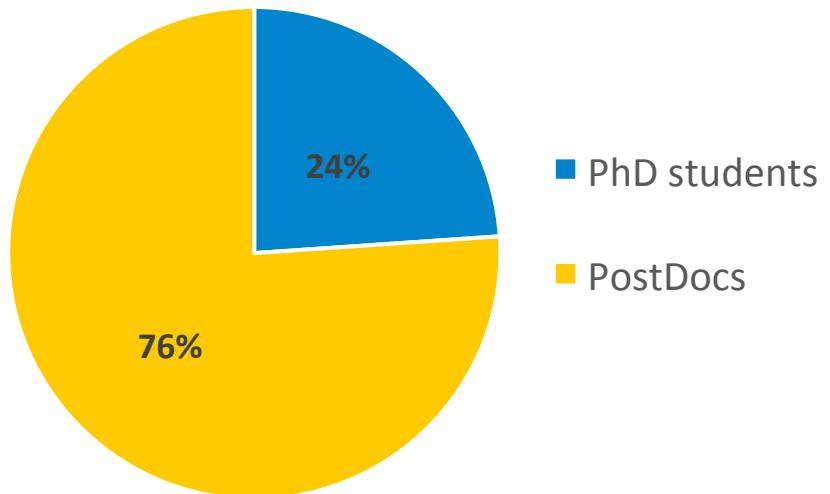


Fellowships

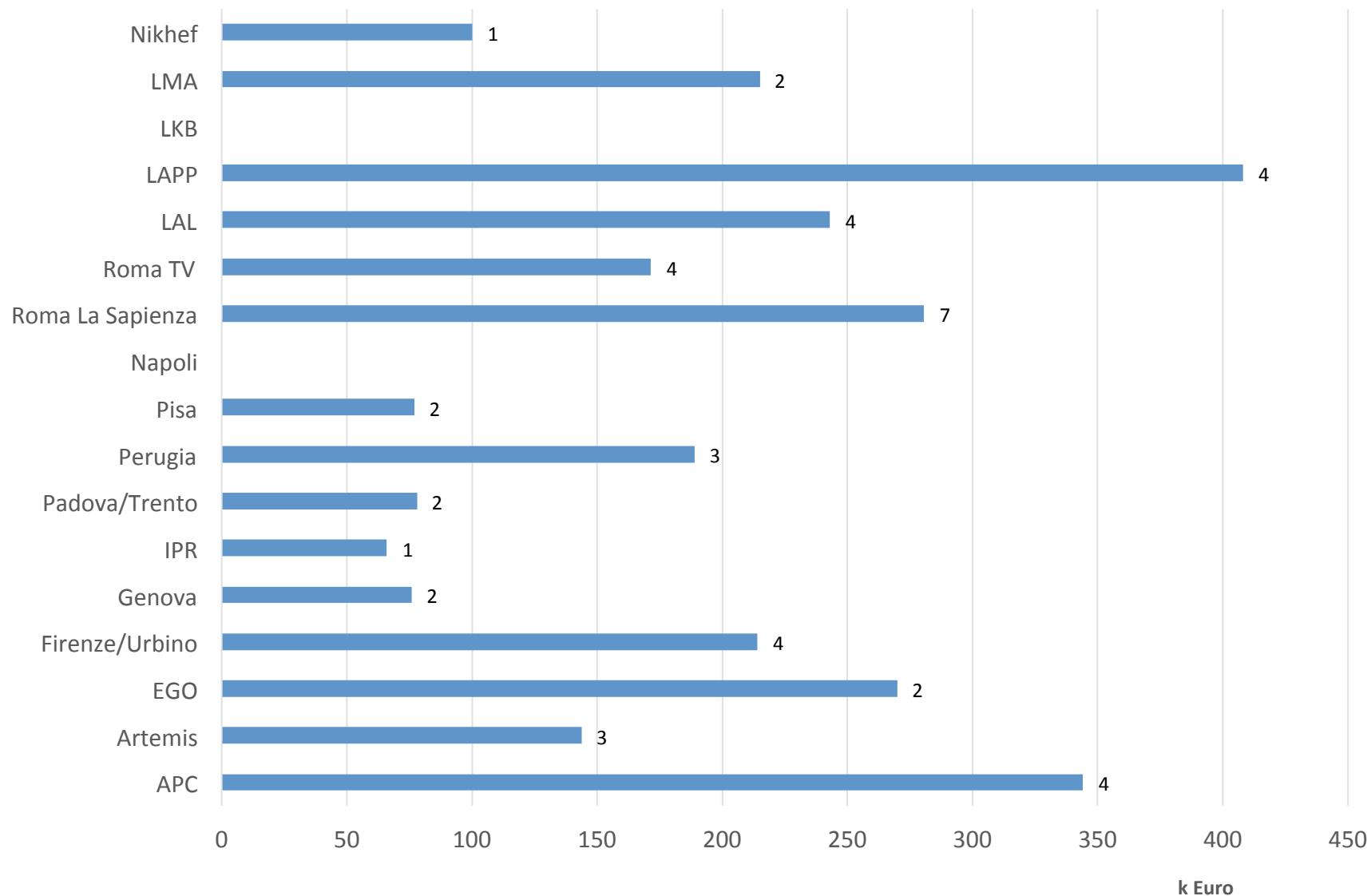
2009/2016

53 fellows
3.32 M€

PhD students versus Postdocs (2009-2016)



Total funds received for fellowships from EGO Budget (2009-2016)



Meeting of the students involved in GW search

Atelier sur les Ondes gravitationnelles et l'Astronomie

Rencontre entre chercheurs de Virgo & étudiants en thèse

Thème :

Une journée d'échanges entre chercheurs confirmés et jeunes scientifiques à l'occasion de l'ouverture d'une nouvelle fenêtre sur l'Univers

Programme :

Matin : Cours

Prof. Patrice Hello: La découverte des ondes gravitationnelles
Dr. Michel Boer: Astronomie avec les ondes gravitationnelles
Dr. Frédérique Marion: Analyse des données des détecteurs d'ondes gravitationnelles

Déjeuner : Discussion conviviale entre chercheurs et doctorants

Après-midi : Ateliers thématiques; présentation de leur sujet d'étude par les étudiants

Date : 18 Mai 2017

Lieu: EGO-Virgo, Cascina (PI), Italie

Site internet : <https://web.infn.it/VirgoRoma/index.php/en/gw-workshop>



Organisation :

Nicolas Arnaud
Simone Mastrogiiovanni
Severini Pérus

*Workshop supported by the French embassy in Italy, EGO and University of Rome La Sapienza
Cascina May 18th*

Speakers :

Federique Marion
Michel Boer
Nicolas Arnaud
Daniel Hoak

*In the afternoon:
Presentation of the student activities and discussion*

<https://web.infn.it/VirgoRoma/index.php/en/25-gw-workshop>