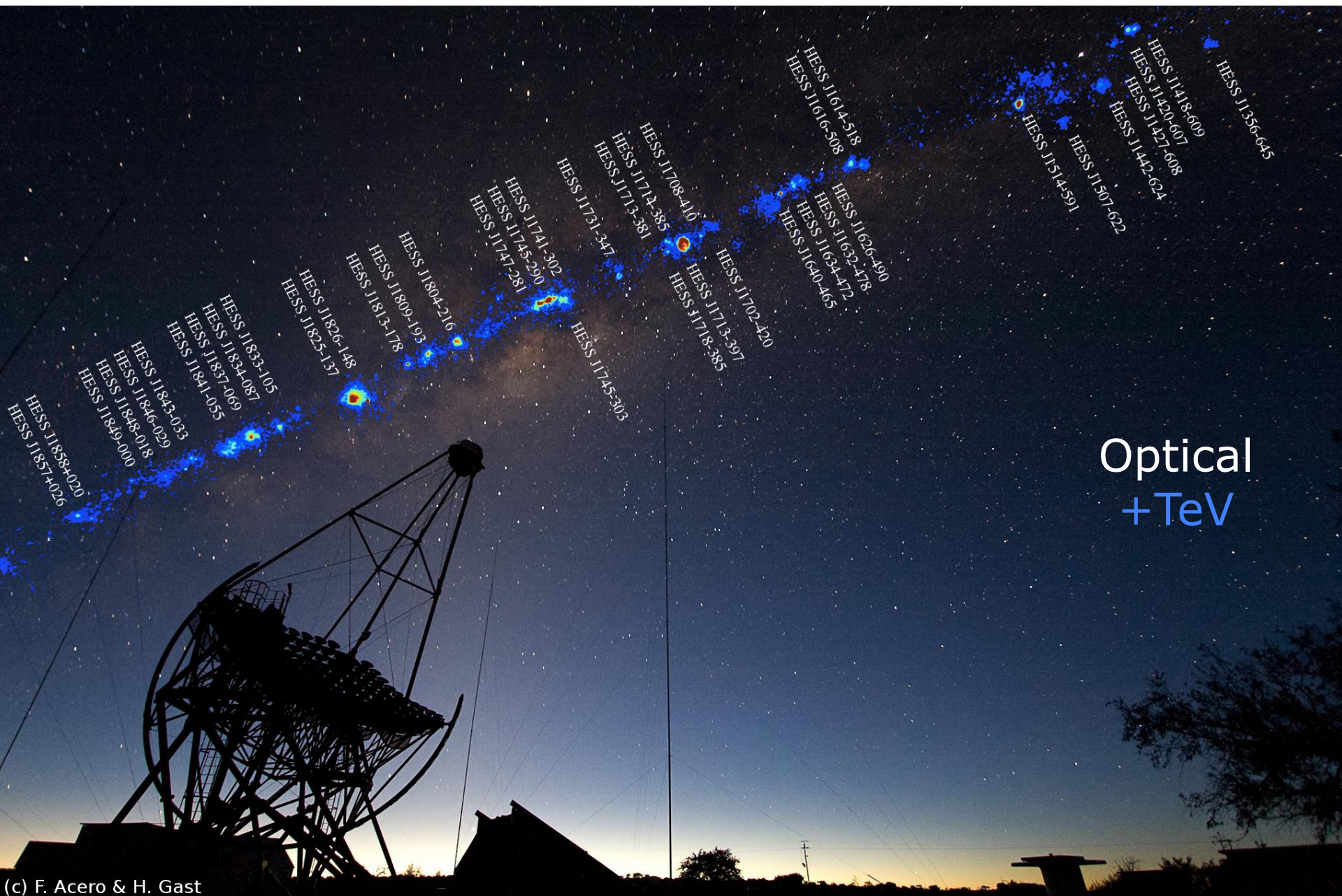

CTA
IL FUTURO
DELL'ASTRONOMIA GAMMA
CHERENKOV TELESCOPE ARRAY

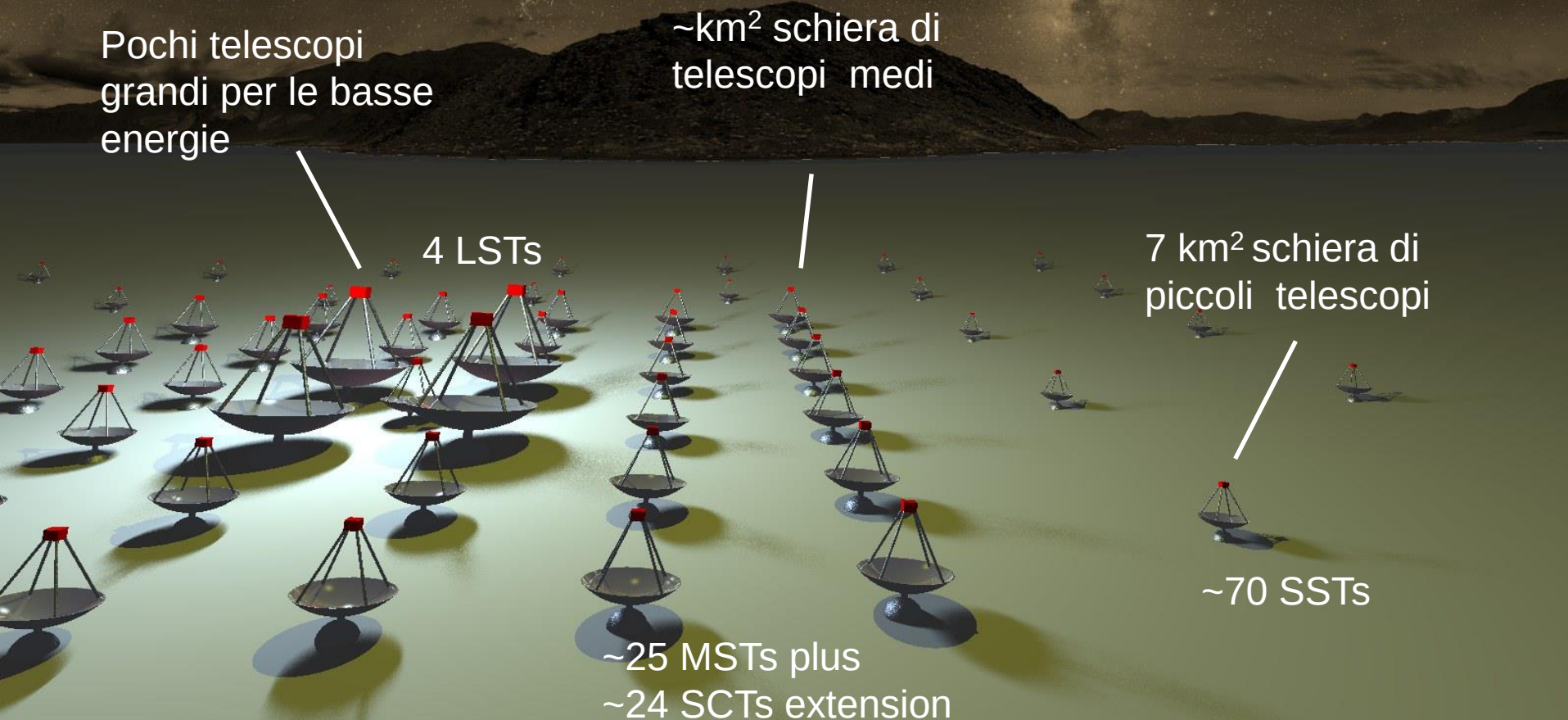
Patrizia Caraveo



Optical
+TeV

Una schiera di telescopi Cherenkov **COME ?**

- γ di bassa energia sono tanti ma producono segnale debole
→ ci vogliono telescopi molto grandi
- γ di alta energia sono pochi ma producono segnale forte
→ specchi piccoli sparsi su grande area





Science with the Cherenkov Telescope Array

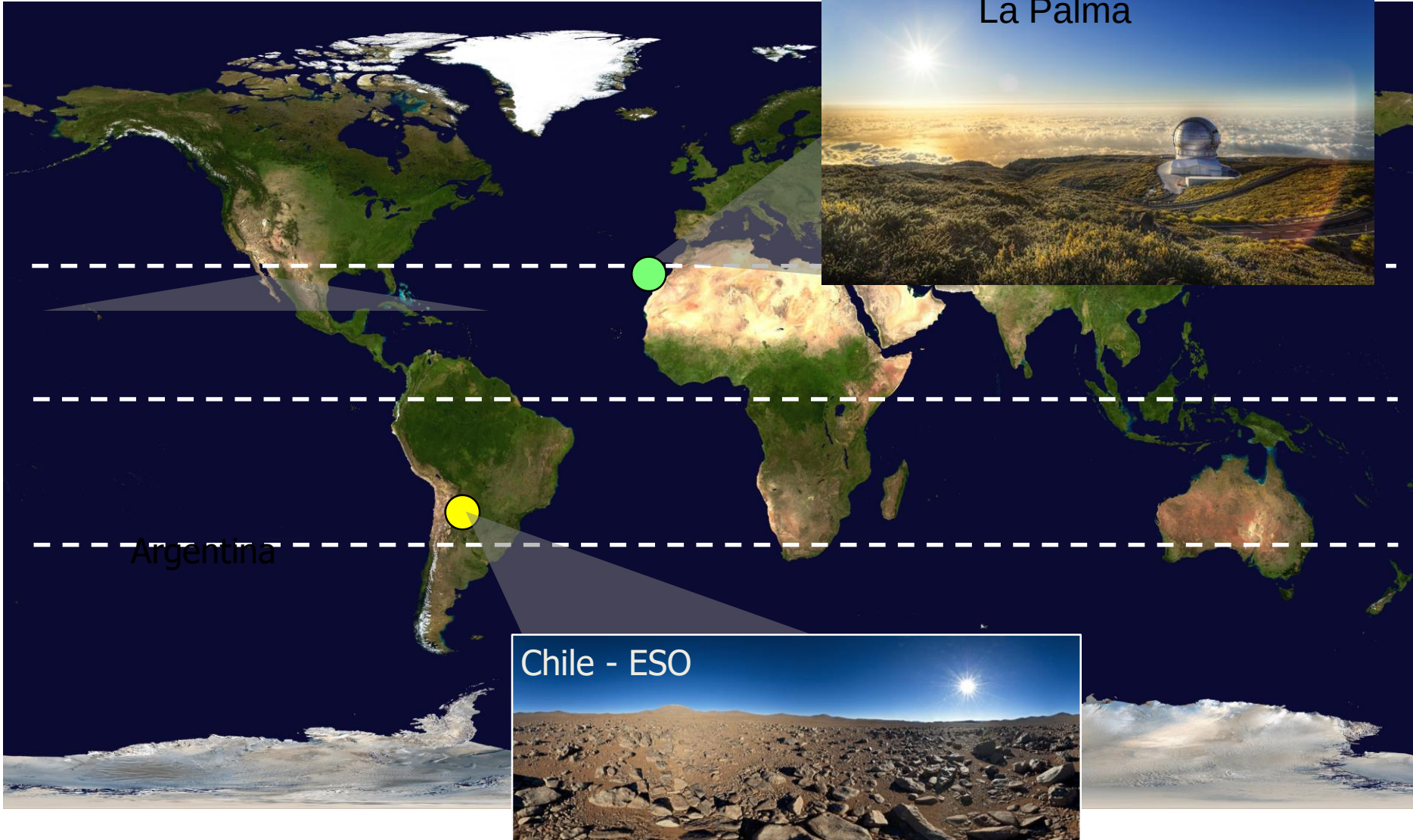
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Astrophysics and Cosmology*

DOVE?

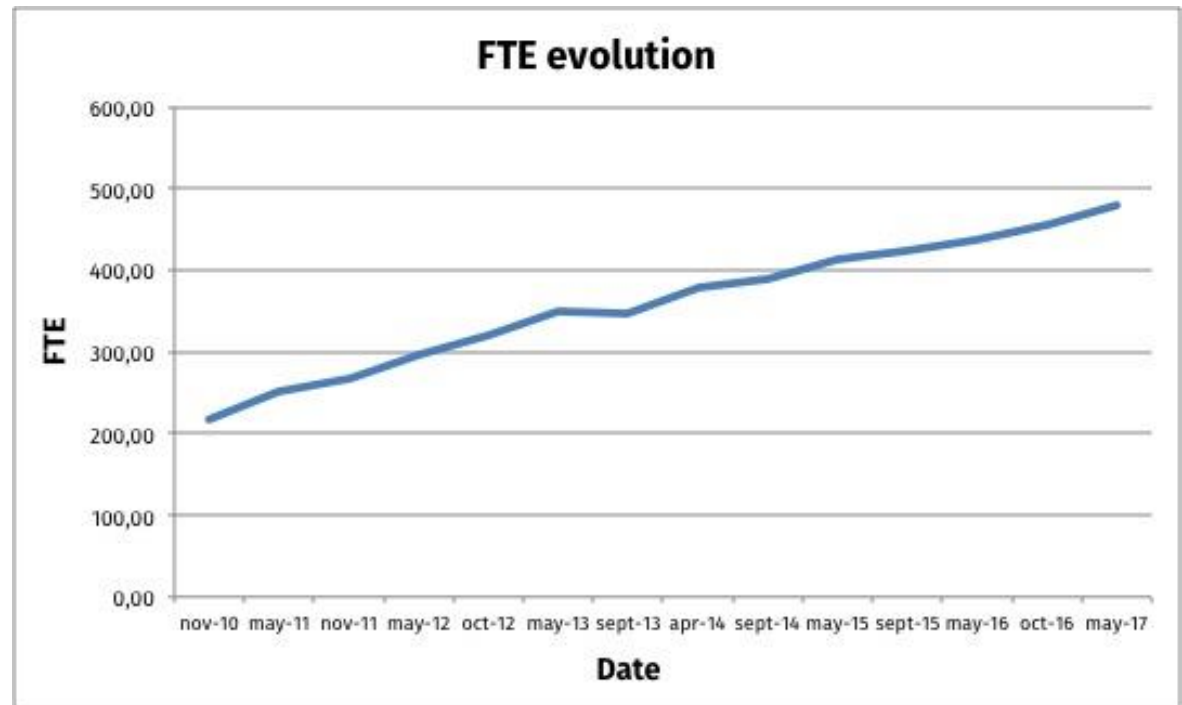


CTA CONSORTIUM



CONSORTIUM STATUS

Country	Members	FTE	FTE (%)
Italy	243	94,4	19,6%
France	213	84,0	17,5%
Germany	187	81,0	16,8%
Spain	107	44,3	9,2%
Japan	118	34,9	7,3%
USA	88	25,8	5,4%
Poland	56	17,3	3,6%
Switzerland	29	14,3	3,0%
Brazil	41	11,9	2,5%
United Kingdom	47	11,8	2,4%
Netherlands	23	10,6	2,2%
South Africa	24	6,3	1,3%
Chile	36	6,2	1,3%
Czech Republic	26	5,7	1,2%
Sweden	11	3,0	0,6%
Argentina	11	2,7	0,6%
Croatia	11	2,6	0,5%
Norway	7	2,5	0,5%
Greece	24	2,4	0,5%
Slovenia	9	2,4	0,5%
India	10	2,2	0,4%
Austria	10	2,1	0,4%
Australia	20	2,0	0,4%
Thailand	5	1,9	0,4%
Mexico	9	1,8	0,4%
Ukraine	10	1,7	0,3%
Canada	4	1,5	0,3%
Armenia	5	1,2	0,2%
Finland	6	1,2	0,2%
Ireland	7	0,8	0,2%
Bulgaria	6	0,5	0,1%
Namibia	2	0,3	0,1%



Consortium keeps growing with stable pace

431 members with >50% FTE

Breakdown:

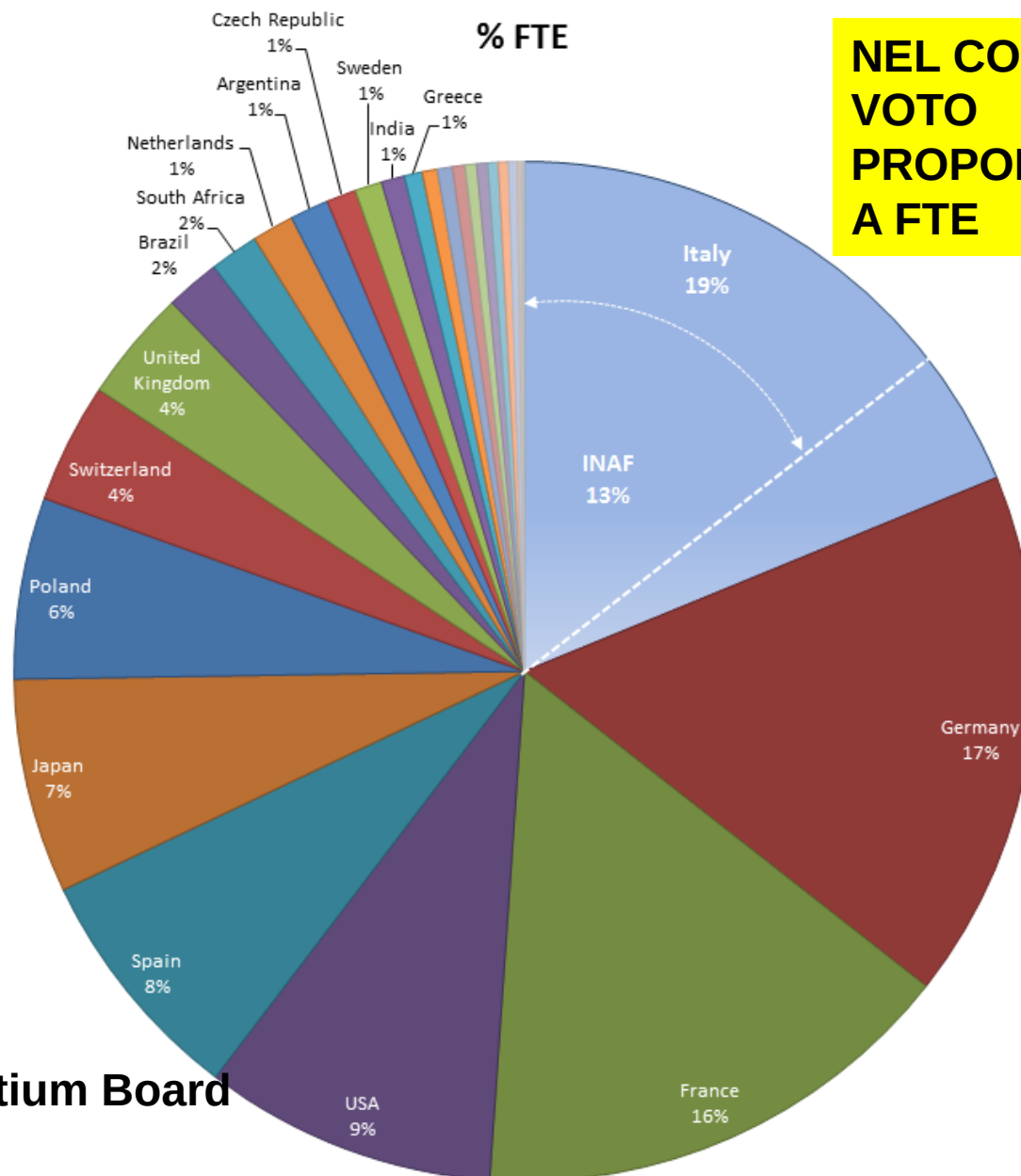
Scientists: 879 (63%)

Engineers: 316 (22%)

Students: 190 (14%)

Administration: 20 (1%)

**NEL CONSORZIO
VOTO
PROPORZIONALE
A FTE**



Chair Consortium Board

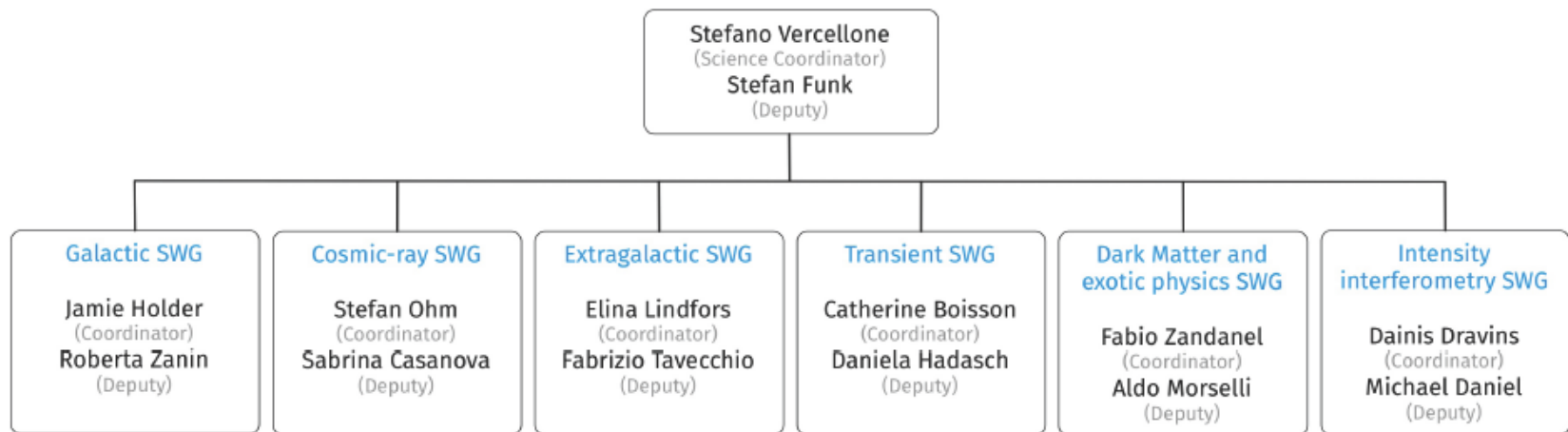
Jürgen Knödlseider

Consortium Board activities

- Last meeting in Rio (May 2017)
- Spokesperson election
 - Werner Hofmann was re-elected spokesperson of CTAC
 - Election of co-spokesperson during next meeting in La Palma (Nov. 2017)
- New Consortium MoU
 - First draft written by editorial board (Spokespersons, CB chair, 3 CTAC members)
 - Walkthrough during CB meeting
 - Call for additional comments via discussion forum
 - Aim for approval at next meeting in La Palma (Nov. 2017)

Science Working Group

- Organisation
 - Overall coordination by Science Coordinator and Deputy
 - 6 Science Working Groups, led by Coordinator and Deputy
 - In addition: transverse Multi-Wavelength group
 - Rotation scheme (election of new Deputy during 2nd semester meeting)



LEGAL ENTITY

Cherenkov Telescope Array Observatory

CTAO- GMBH – società per azioni

CTAO COUNCIL

VOTO PROPORZIONALE AL
CONTRIBUTO

URNr.: K 644/2017

VNr. 11558, SB: ba

LISTE

der Gesellschafter der

Cherenkov Telescope Array Observatory gemeinnützige GmbH

mit dem Sitz in Heidelberg Amtsgericht Mannheim, HRB 720310

Geschäfts- anteile Nrn.	Gesellschafter	Nennbe- trag in €	Anzahl	Summe Nennbetrag in €
4 – 7.628	Deutsches Elektronen-Synchrotron DESY Stiftung bürgerlichen Rechts mit dem Sitz in Hamburg	Je 1,00	7.625	7.625
7.629 – 8.128	Leopold Franzens Universität mit dem Sitz in A-Innsbruck	Je 1,00	500	500
8.129 – 8.753	Commissariat à l'énergie atomique et aux énergies alternatives mit dem Sitz in Paris/Frankreich (Registre du Commerce et des Sociétés de Paris No. R.C.S. PARIS B 775685 019)	Je 1,00	625	625
8.754 – 10.003	Centre national de la recherche scientifique (CRNS) mit dem Sitz in Paris/Frankreich	Je 1,00	1.250	1.250
10.004 – 11.253	Max-Planck-Gesellschaft zur Förderung der Wissenschaften e.V. mit dem Sitz in Berlin (AG Charlottenburg, VR 13378)	Je 1,00	1.250	1.250
11.254 – 12.503	The Science and Technology Facilities Council mit dem Sitz in UK-Swindon (Company No. RC000817)	Je 1,00	1.250	1.250
12.504 – 15.003	Instituto de Astrofísica de Canarias (IAC) mit dem Sitz in ES-La Laguna (Teneriffa)	Je 1,00	2.500	2.500
15.004 – 15.503	National University Corporation, The University of Tokyo, main business address 7-3-1 hongo, Bunkyo-ku, Tokyo-Japan	Je 1,00	500	500

15.504 – 16.003	Institute of Physics of the Academy of Sciences of the Czech Republic (Fyzikální ústav AV GR, v. v. i.) mit dem Sitz in Prag/Tschechien, (Company ID no.: 68378271)	Je 1,00	500	500
16.004 – 23.503	Istituto Nazionale Di Astrofisica (INAF) mit dem Sitz in I-Rom	Je 1,00	7.500	7.5000
23.504 – 24.003	Istituto Nazionale Di Fisica Nucleare Mit dem Sitz in I-Frascati	Je 1,00	500.00	500,00
24.004 – 25.003	Universität Zürich öffentlich-rechtliche Anstalt des Kantons Zürich mit dem Sitz in CH-Zürich	Je 1,00	1.000	1.000
GESAMT:				25.000,00

Die vorstehende Liste enthält die Veränderungen, die sich aufgrund meiner Urkunde vom 8.3.2017, UR.Nr.K 643/2017, ergeben und stimmt ansonsten mit den Eintragungen der zuletzt im Handelsregister aufgenommenen Liste überein.

München, den 8. März 2017

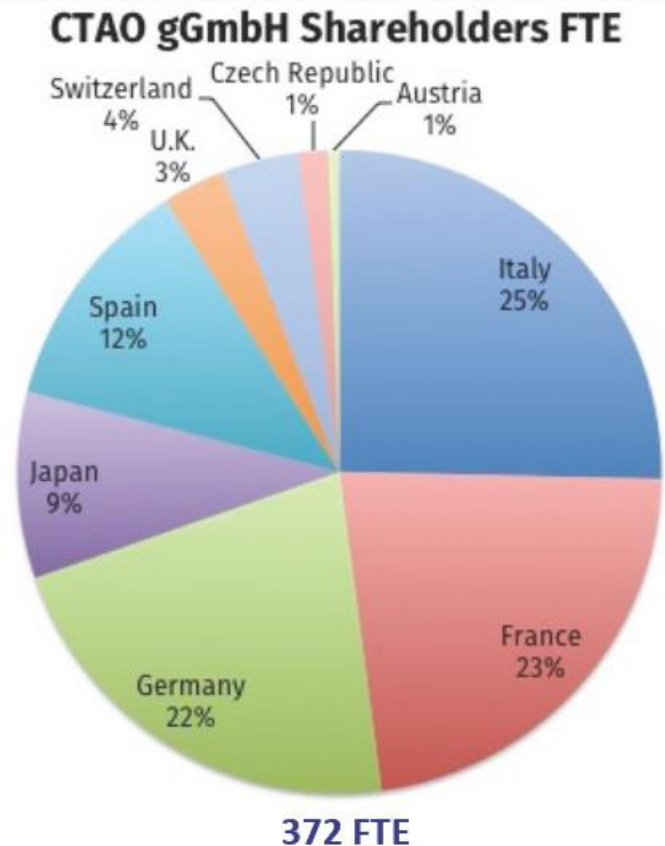
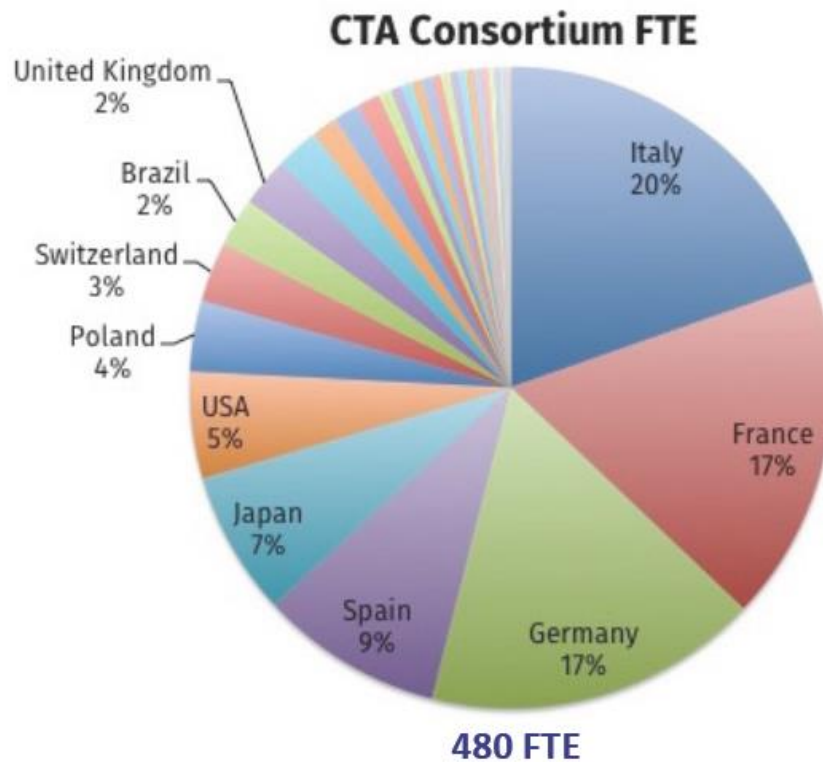


[Signature]
Notar
(Krick)
Notar

LISTA DEGLI AZIONISTI CTAO

CONSORZIO VS SHAREHOLDERS

Consortium workforce



100 FTE vengono da paesi che non sono in CTAO

	Declaration of votes as of 31 March, 2017	Document number: 44-2017
	Confidential to Council of CTAO gGmbH	Version 1.0 Page: 1/2

Shareholder	Accountable contributions [Euro]	Votes	Straw votes
Commissariat à l'énergie atomique et aux énergies alternatives (CEA) France	58'333	1	1
Centre national de la recherche scientifique (CNRS) France	116'667	2	2
Deutsches Elektronen-Synchrotron (DESY) Stiftung bürgerlichen Rechts Hamburg Germany	1'312'503	21	20
Innsbruck University, Innsbruck Austria	175'000	3	3
Instituto de Astrofísica de Canarias (IAC) La Laguna, Tenerife Spain	250'000	4	4
Istituto Nazionale Di Astrofisica (INAF) Rom Italy	1'517'000	25	23
Istituto Nazionale di Fisica Nucleare (INFN) Rom Italy	0	0	0
Institute of Physics of the Academy of Sciences of the Czech Republic (Fyzikální ústav AV ČR, v. v. i.) Prague Czech Republic	587'000	9	9
Max-Planck-Gesellschaft (MPG) München, Germany	1'612'503	26	25
Science and Technology Facilities Council (STFC) Swindon UK	225'000	4	3

	Declaration of votes as of 31 March, 2017	Document number: 44-2017
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University of Tokyo Japan	135'000	2	2
Universität Zürich öffentlich-rechtliche Anstalt des Kantons Zürich Zürich Switzerland	200'000	3	3
Netherlands Organisation for Scientific Research (NWO) The Hague The Netherlands	120'000		2
National Research Foundation (NRF) Pretoria South Africa	150'000		2
Sum	6'459'005	100	99

**VOTO PROPORZIONALE AL
CONTRIBUTO**

NON DIPENDE DA FTE