

Welcome to CERN



LHCb

ATLAS

CERN Meyrin

CERN Prévessin

SPS 7 km

SUISSE
FRANCE

CMS

ALICE

LHC 27 km



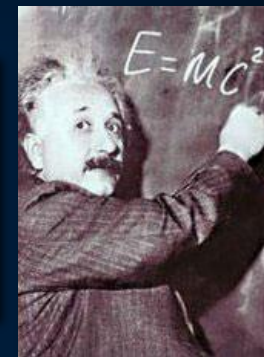
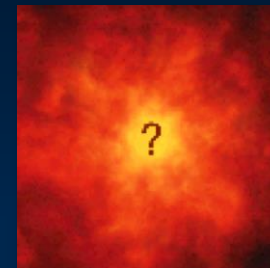
Accelerating Science and Innovation



The Mission of CERN

❑ Push back the frontiers of knowledge

E.g. the secrets of the Big Bang ...what was the matter like within the first moments of the Universe's existence?

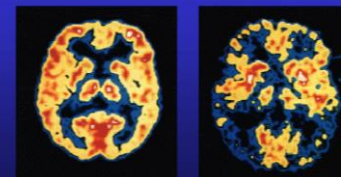


❑ Develop new technologies for accelerators and detectors

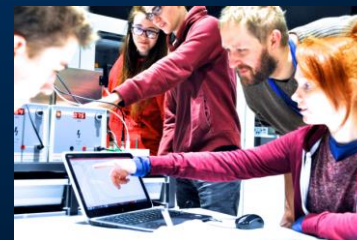
Information technology - the Web and the GRID
Medicine - diagnosis and therapy



Brain Metabolism in Alzheimer's Disease: PET Scan



❑ Train scientists and engineers of tomorrow



❑ Unite people from different countries and cultures



CERN: founded in 1954: 12 European States

“Science for Peace”

Today: 22 Member States

~ 2500 staff

~ 1800 other paid personnel

~ 13000 scientific users

Budget (2017) ~ 1100 MCHF

Member States: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovak Republic, Spain, Sweden, Switzerland and United Kingdom

Associate Members in the Pre-Stage to Membership: Cyprus, Serbia, Slovenia

Associate Member States: India, Lithuania, Pakistan, Turkey, Ukraine

Applications for Membership or Associate Membership:

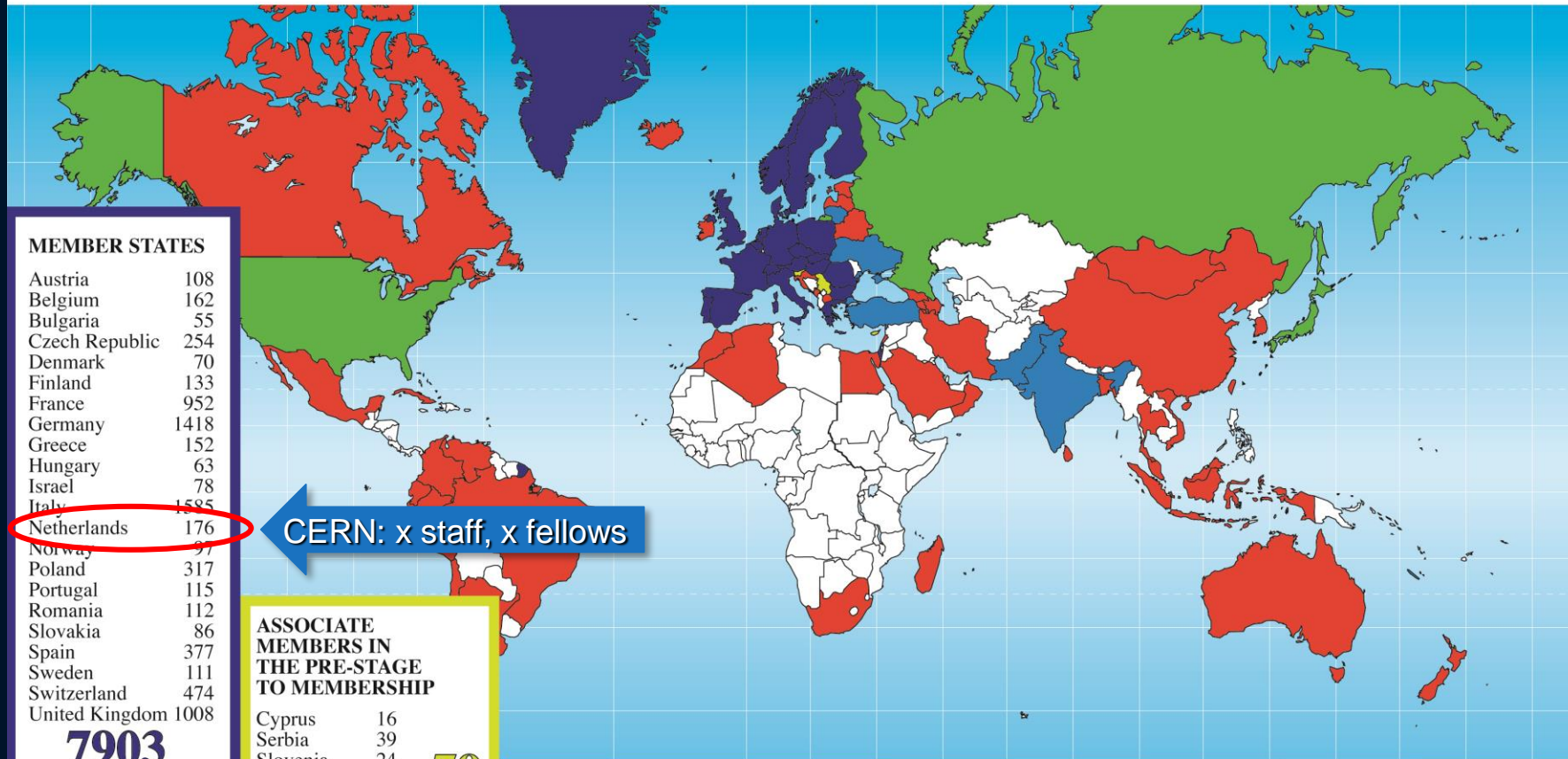
Brazil, Croatia

Observers to Council: Japan, Russia, United States of America;
European Union, JINR and UNESCO



Science is getting more and more global

Distribution of All CERN Users by Location of Institute on 24 January 2018



MEMBER STATES

Austria	108
Belgium	162
Bulgaria	55
Czech Republic	254
Denmark	70
Finland	133
France	952
Germany	1418
Greece	152
Hungary	63
Israel	78
Italy	1585
Netherlands	176
Norway	97
Poland	317
Portugal	115
Romania	112
Slovakia	86
Spain	377
Sweden	111
Switzerland	474
United Kingdom	1008

7903

CERN: x staff, x fellows

ASSOCIATE MEMBERS IN THE PRE-STAGE TO MEMBERSHIP

Cyprus	16
Serbia	39
Slovenia	24

79

ASSOCIATE MEMBERS 446

India	221
Lithuania	21
Pakistan	38
Turkey	129
Ukraine	37

OBSERVERS

Japan	285
Russia	1099
USA	2070

3454

OTHERS

Algeria	1	Chile	23	Iceland	2	Mexico	64	Sri Lanka	3
Argentina	20	China	283	Indonesia	7	Mongolia	2	T.F.Y.R.OM	2
Armenia	14	Colombia	27	Iran	26	Montenegro	7	Taiwan	68
Australia	36	Croatia	31	Ireland	10	Morocco	12	Thailand	19
Azerbaijan	5	Cuba	3	Korea	166	New Zealand	7	Venezuela	1
Bangladesh	3	Ecuador	4	Latvia	1	Oman	4	Viet Nam	1
Belarus	24	Egypt	25	Lebanon	10	Peru	3		
Brazil	135	Estonia	18	Madagascar	3	Saudi Arabia	1		
Canada	190	Georgia	28	Malaysia	7	Singapore	3		
		Hong Kong	19	Malta	8	South Africa	81		

1407

