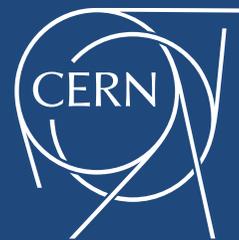


# Research Infrastructures for Global Challenges



Agnieszka Zalewska, IFJ PAN  
President of CERN Council

ICRI 2014 Conference  
Athens, 2-4 April 2014



SUISSE  
FRANCE

CMS

LHCb

ATLAS

CERN Meyrin

CERN Prévessin

SPS 7 km

ALICE

LHC 27 km

**CERN was founded 1954: 12 European States**

“Science for Peace”

**Today: 21 Member States**

~ 2300 staff  
~ 1600 other paid personnel  
~ 10500 users

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

**Candidate for Accession:** Romania

**Associate Member in Pre-Stage to Membership:** Serbia

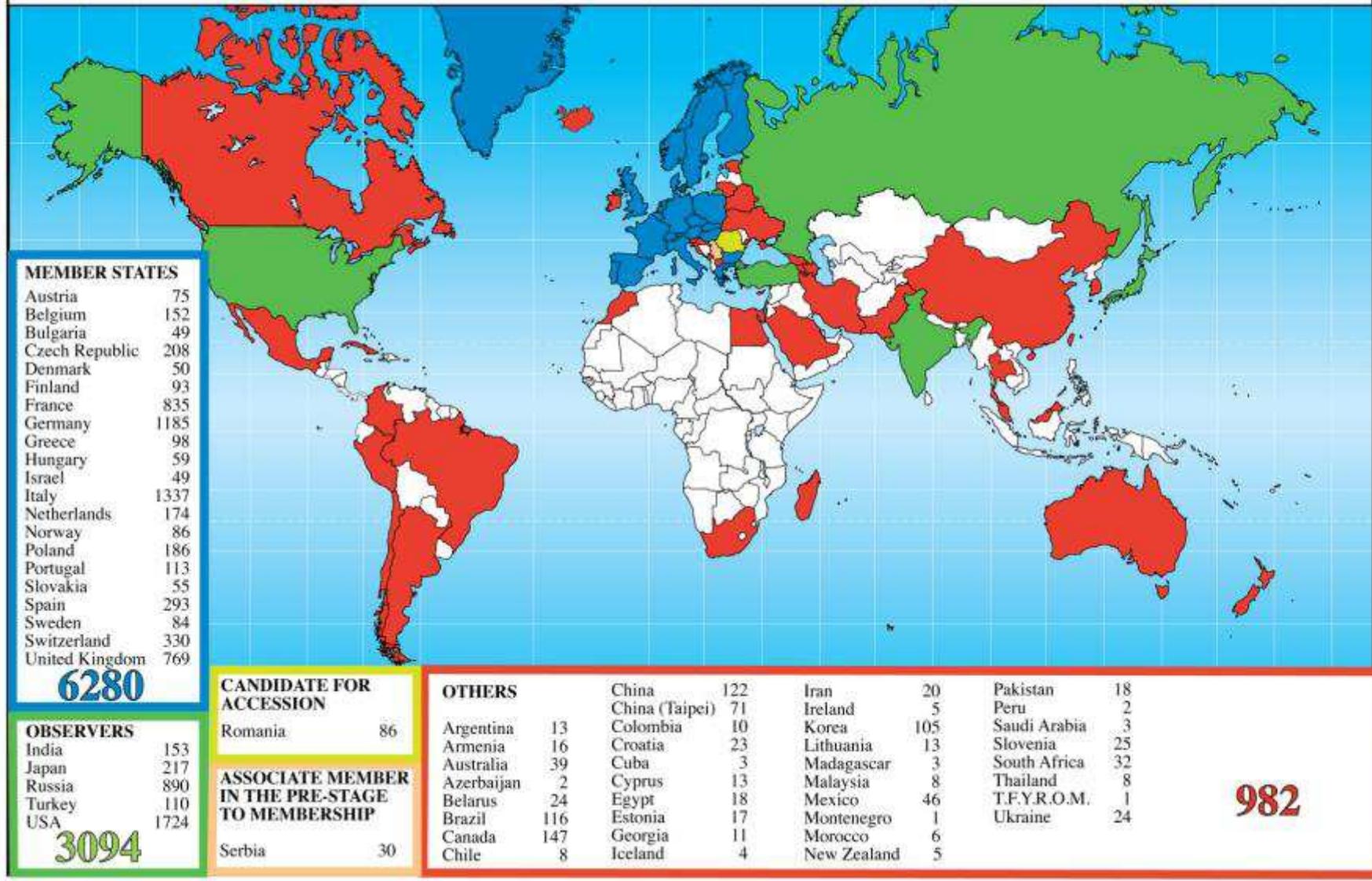
**Applicant States for Membership or Associate Membership:**  
Brazil, Cyprus, Pakistan, Russia, Slovenia, Turkey, Ukraine

**Observers to Council:** India, Japan, Russia, Turkey, United States of America; European Commission and UNESCO



# Science is getting more and more global

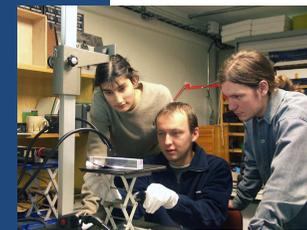
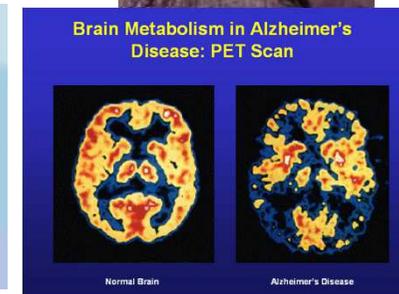
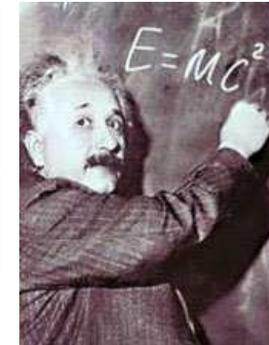
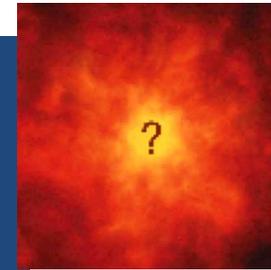
## Distribution of All CERN Users by Location of Institute on 14 January 2014





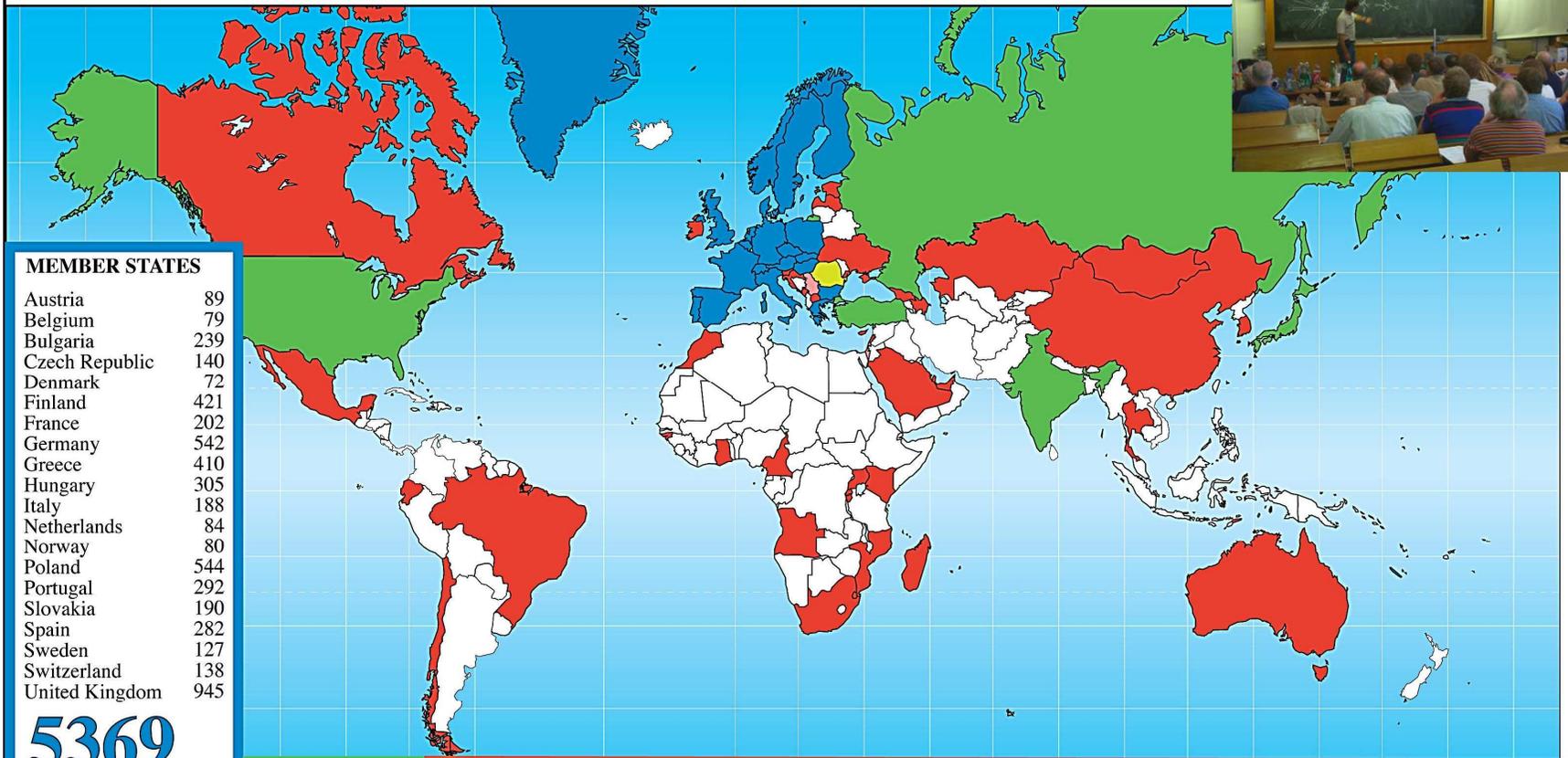
# Mission of Research Infrastructures using CERN as an example

- ❑ **Research**  
Push forward the frontiers of knowledge
- ❑ **Innovation**  
Develop new technologies
- ❑ **Education**  
Train scientists and engineers of tomorrow
- ❑ **Outreach**  
Promote science in society
- ❑ **Unite** people from different countries and cultures



# CERN Teacher Programme

## Teacher Programme Participants 1998 - 2012



### MEMBER STATES

Austria	89
Belgium	79
Bulgaria	239
Czech Republic	140
Denmark	72
Finland	421
France	202
Germany	542
Greece	410
Hungary	305
Italy	188
Netherlands	84
Norway	80
Poland	544
Portugal	292
Slovakia	190
Spain	282
Sweden	127
Switzerland	138
United Kingdom	945

**5369**

### CANDIDATE FOR ACCESSION

Romania	11
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### ASSOCIATE MEMBER IN THE PRE-STAGE TO MEMBERSHIP

Israel	4
Serbia	12

### OBSERVER STATES

India	2
Japan	4
Russia	163
Turkey	3
USA	61

**233**

### OTHERS

Angola	4
Australia	3
Azerbaijan	1
Brazil	83
Burundi	1
Cameroon	3
Canada	2
Cape Verde	3

Chile	3
China	1
Croatia	1
Cyprus	8
Ecuador	2
Estonia	35
Georgia	55
Ghana	6
Guinea Bissau	1
Ireland	3

Kazakhstan	3
Kenya	2
Latvia	1
Lebanon	1
Madagascar	2
Malta	36
Mexico	5
Mongolia	1
Montenegro	13
Morocco	2

Mozambique	17
Qatar	1
Rwanda	15
Sao Tome	3
Saudi Arabia	1
Singapore	2
Slovenia	21
South Africa	6
South Korea	44
Swaziland	1

Thailand	6
T.F.Y.R.O.M.	11
Timor-Leste	4
Uganda	1
Ukraine	57
U.A.E.	1

**472**





# Key elements in CERN's success

- ❑ Ambitious scientific projects with defined deadlines
- ❑ Excellent scientists and engineers forming very creative environment
- ❑ Sustainable support of Member States
- ❑ Close collaboration with the MS research institutes and universities on one side and with leading industrial firms on the other side
- ❑ Promoting knowledge and technology transfer
- ❑ Opening to the world

