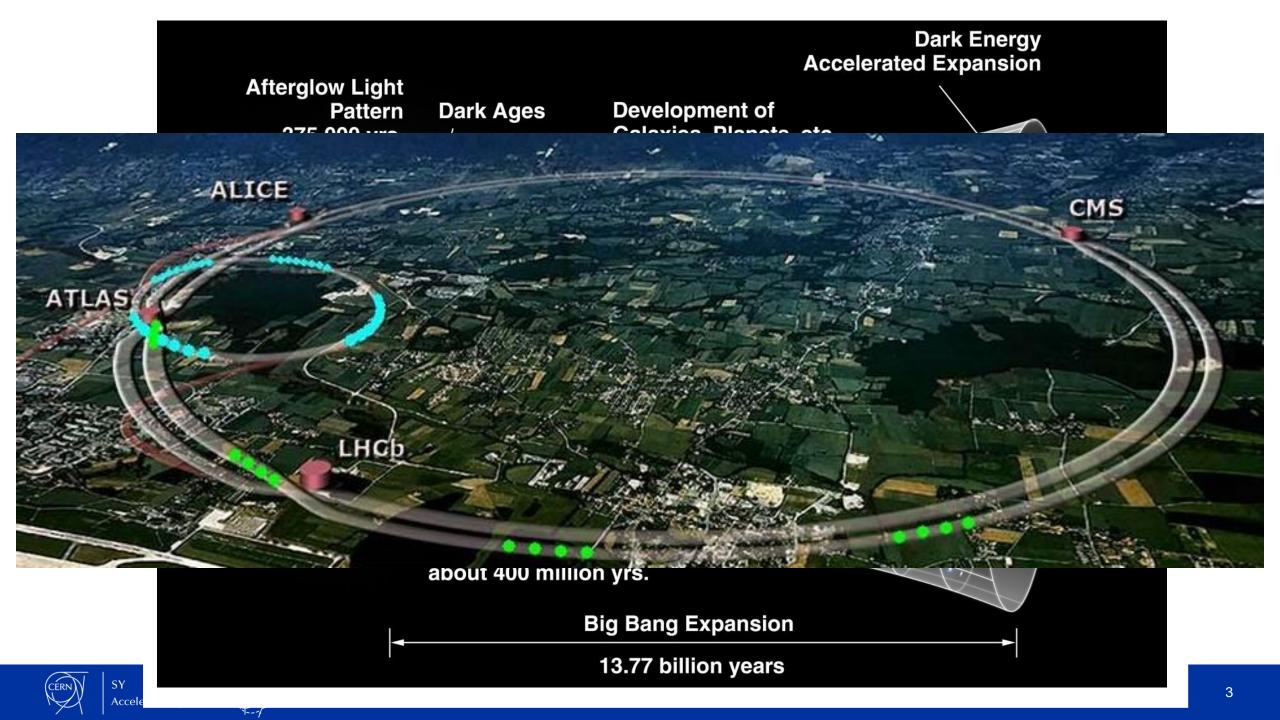
# **Welcome at CERN** CERN 1954-2024 YEARS/ANS CERN S. Gilardoni – SY/STI

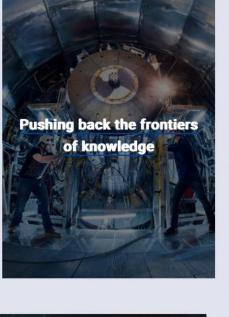
Our goal is to understand the most fundamental particles and laws of the universe.

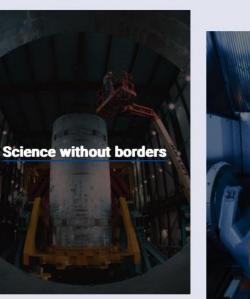


## **About CERN**

#### **23 Member States 10 Associate Member States**







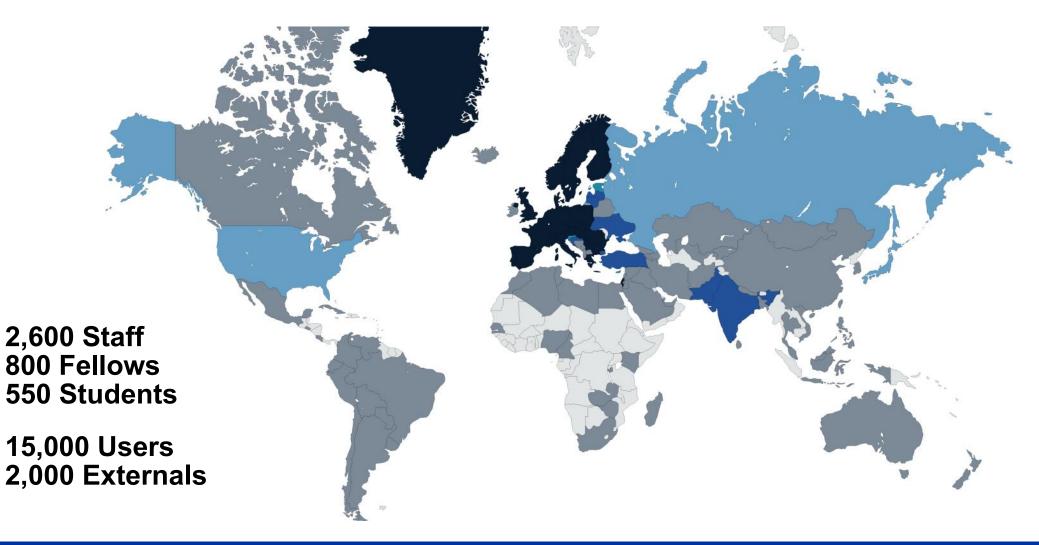






SY

## More than 20,000 scientists from around the world





## **History**

#### 1949

First steps towards civilian research in the field of nuclear technology

#### 1952

Foundation of CERN under the auspices of **UNESCO** in Geneva

1953

Signing of the CERN charta

#### 1954

Completion of the ratification process of the 12 Member States

For the German Federal Republic Pour la République Fédérale For the Kingdom of Norma d'Allemarne 7. Timuter subject to setification or the Einedon of the Netherland For the Kingdom of Belgium le Royaume de Belgique For the Kingdom of That and Northern Ireland Valeren sous reserve de la éfication 23 12 53 For the French Republic Pour la République Prancai For the Kingdom of Sweden Colecants 1/sent Dale For the Kingdom of Greece Pour le Royaume de Grad Imejisies. sens reserve to ratification For Italy For the Federal People's Republic of Tugos lavis antonio Donne

long reserve Se ratification

Pour la République Fédérative Populaire de Tougoslavie Jarle Jane Nono réserve de rahification

The Sixth Session of the CERN Council took place in Paris on 29 June-1 July 1953. It was here that the Convention establishing the Organization was signed, subject to ratification, by twelve States.

La sixième session du Conseil fut organisée à Paris du 29 juin au 1er juillet 1953. C'est à cette occasion que la Convention établissant l'Organisation fut signée, sous réserve de ratification, par douze Etats membres.

Pour le Royaume des Pays-Ba

Pour le Royaume de Sudde

our le Royaume de Norvèr

Salist to estate

Salged to relification

For the United Kingdom of Great Britain Four le Royaume-Uni de la Grande-Bretagne et de l'irelande du Nor bleet to satisfication

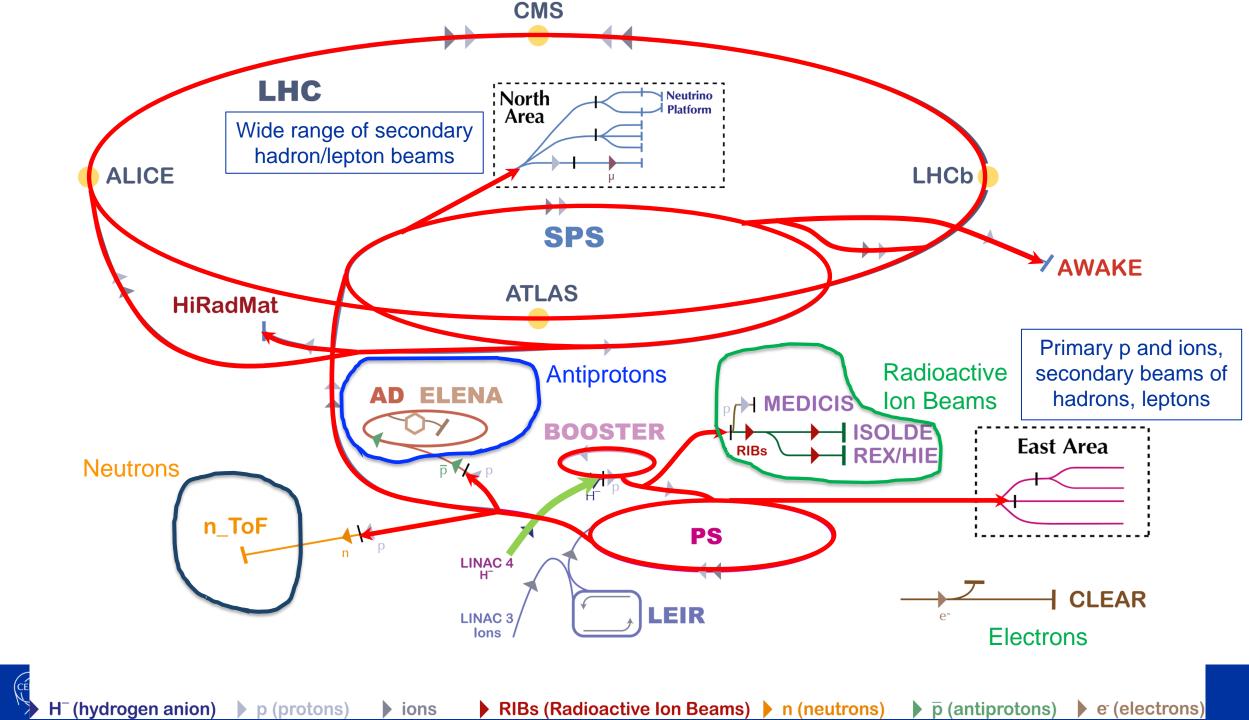
Jose Walle orster Gus

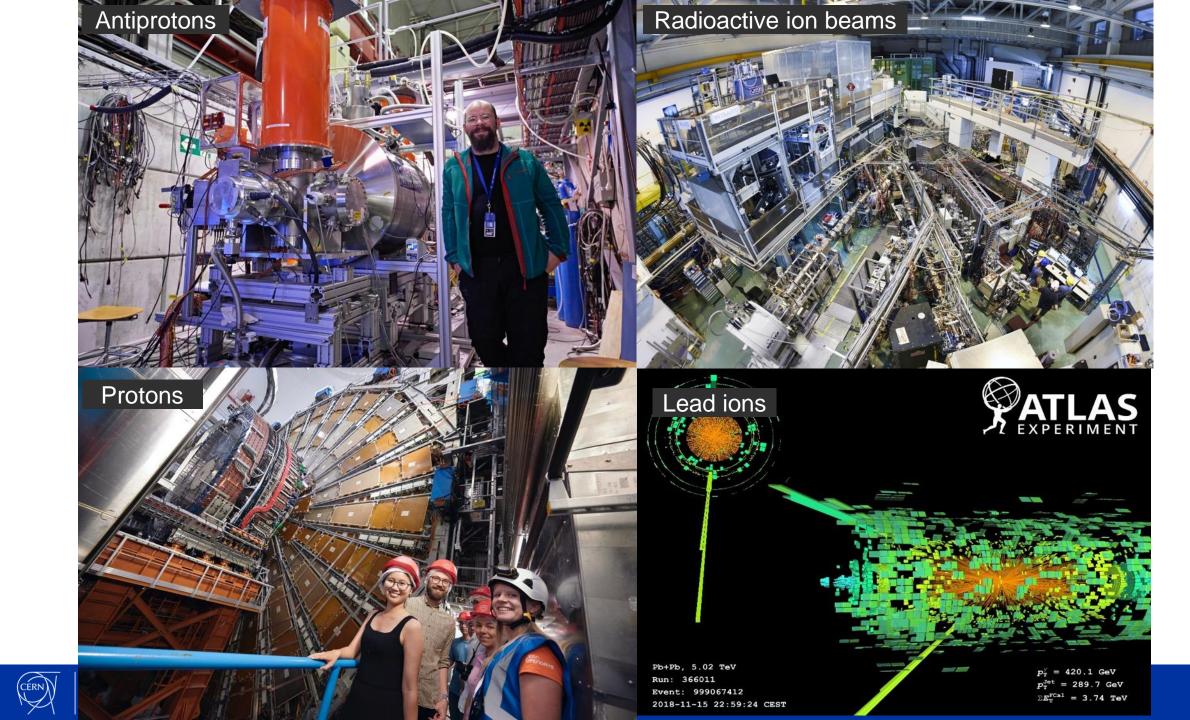
Pour la Confédération Sulas

Jali resure de ralification

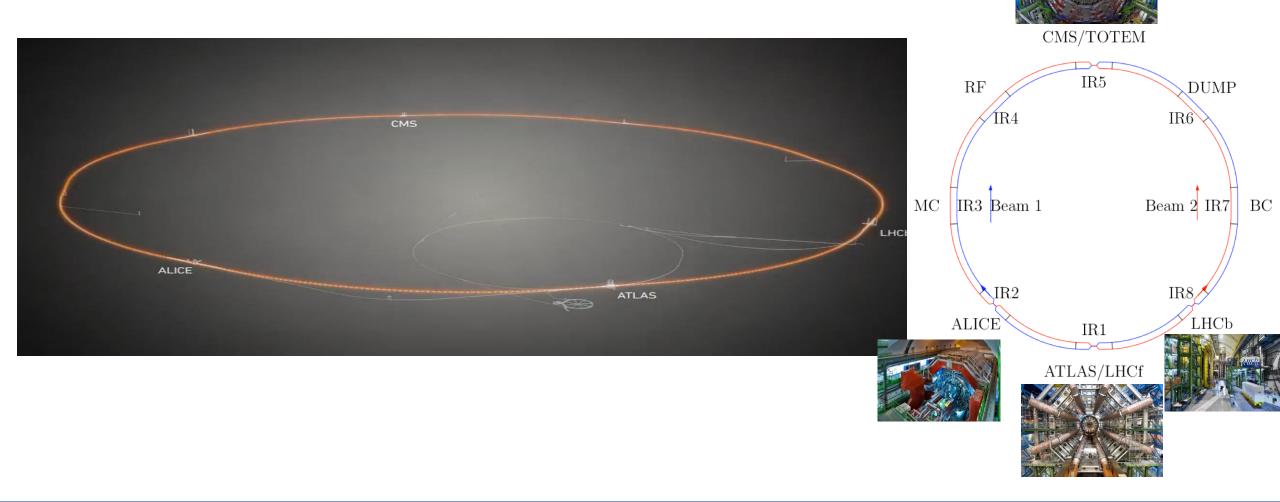
6





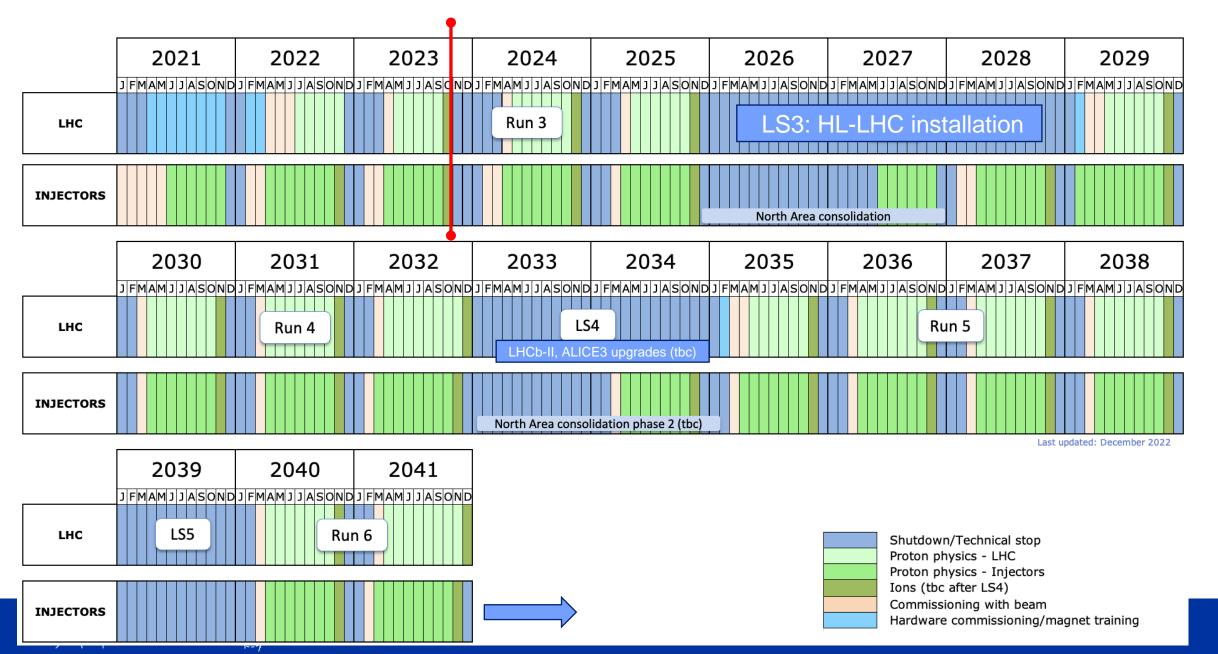


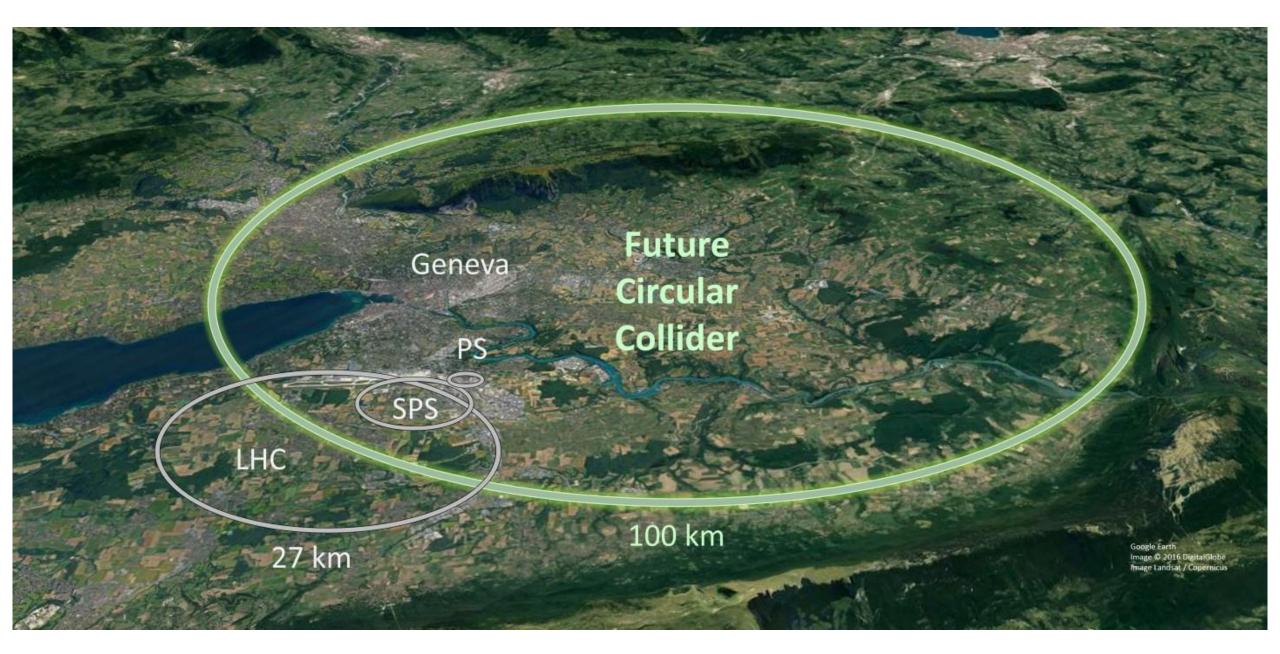
## **Collider: LHC with 4 collision points (IP)**





## Indicative timeline - full and diverse physics programme

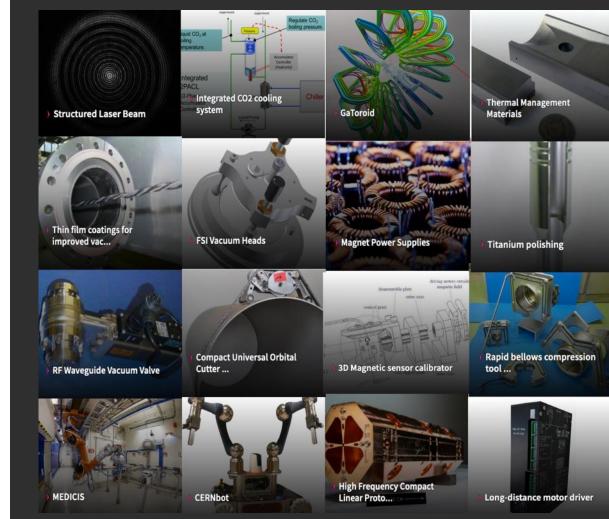








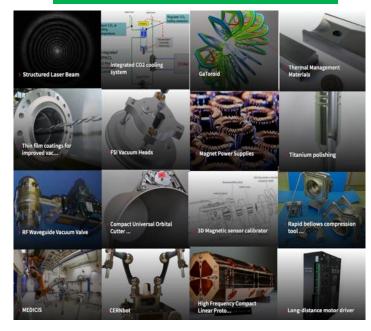




*"Places like CERN contribute to the kind of knowledge that not only enriches humanity, but also provides the wellspring of ideas that become the technologies of the future"* 

Fabiola Gianotti

### Knowledge Transfer



## Sustainability









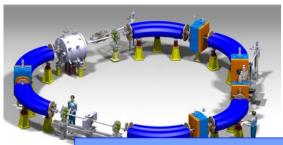
## Medical Applications



Compact high-frequency RFQ

Innovative Radiation Therapy with Electrons





Compact Helium Synchrotron



Compact Gantries (HITRIplus, SIGRUM)





I.FAST	Fostering Innovation in Accelerator Science and Technology
RADNEXT	Radiation facility network
PRISMAP	European Medical Isotope programme
HITRIplus	Heavy Ion Therapy Research Integration
FCC-IS	FCC Innovation Study
EURO-LABS	European Labs for Accelerator Based Sciences

# Rich collaborative ecosystem

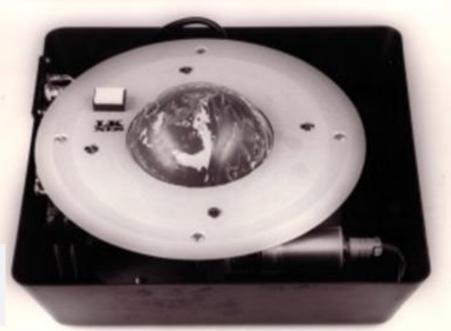
CERN's strengths as a research infrastructure are well proven and it is a nexus for international collaboration, innovation, knowledge creation and dissemination.



# How do we MAXIMISE IMPACT?







## WWW



200

.....

EIZO

# First 3D colour X-ray images of a human – using Medipix3 technology





Knowledge Transfer Accelerating Innovation





home.cern