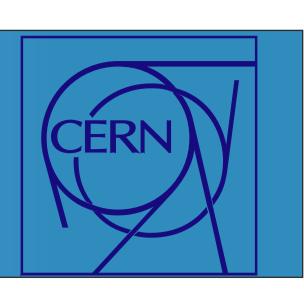


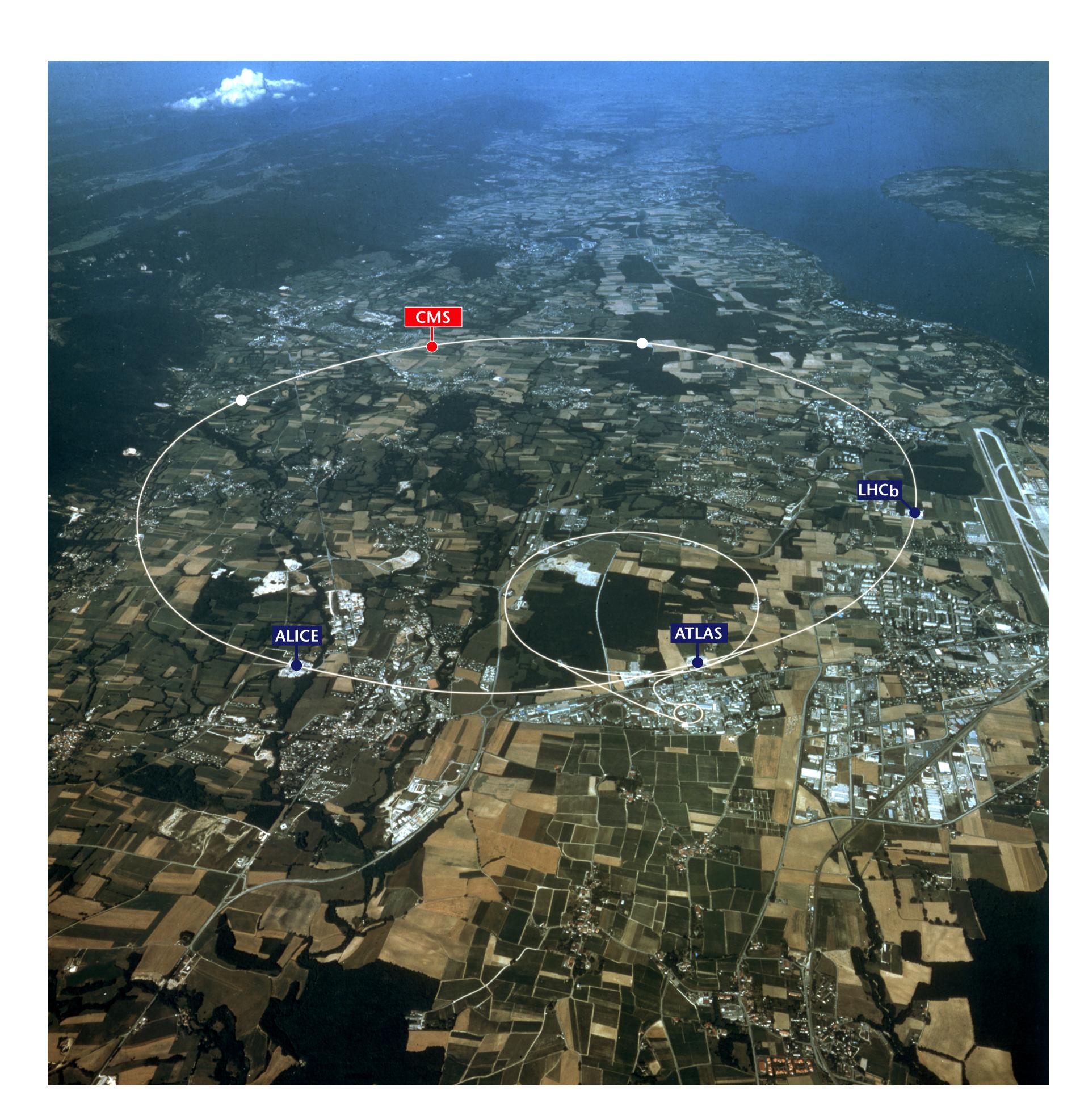
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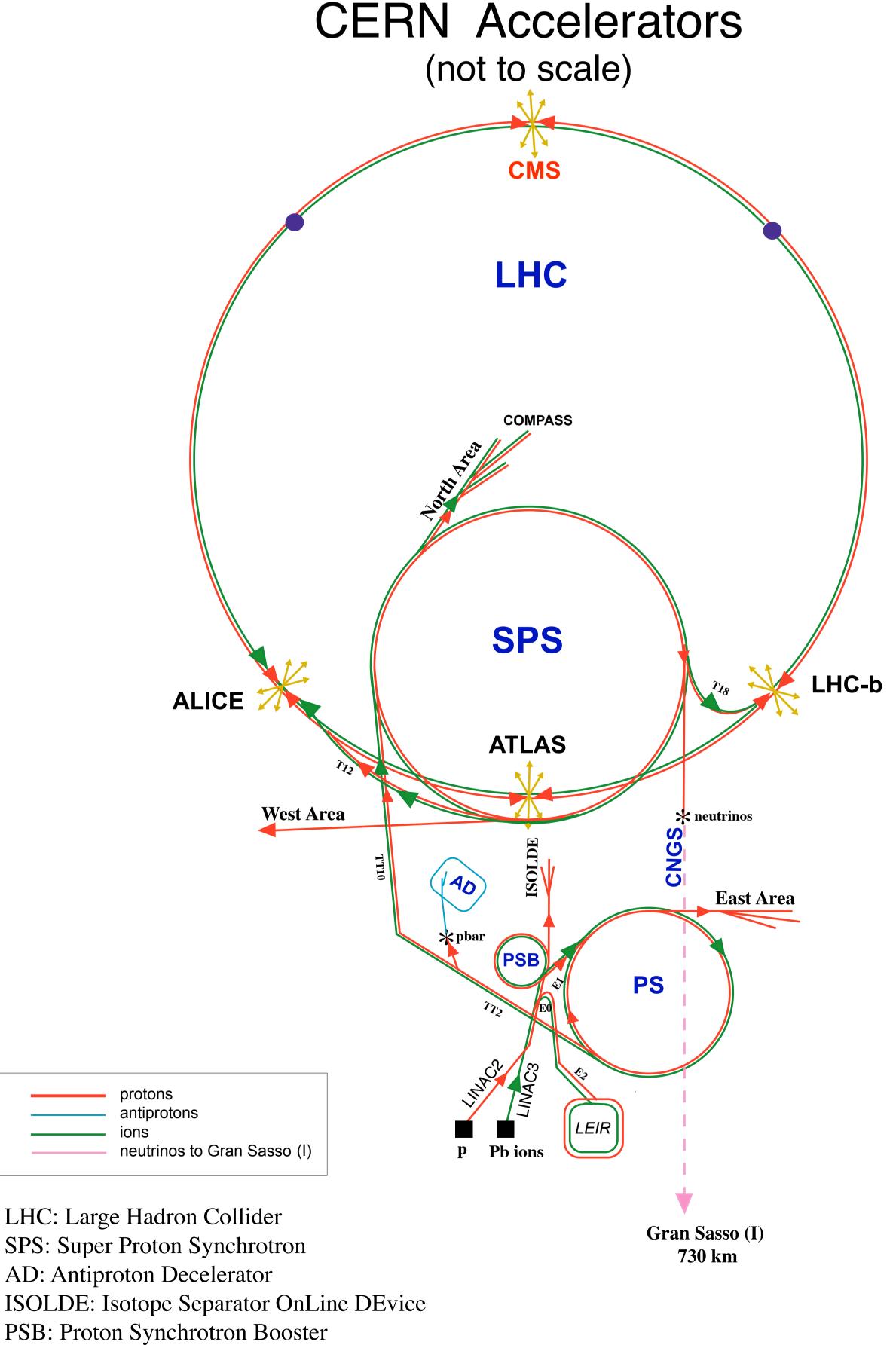


CERN is the world's largest laboratory for particle physics.

Founded in 1954, the Laboratory was one of Europe's first joint ventures, and has become a shining example of international collaboration.

From the original 12 signatories of the CERN convention, membership has grown to the present 20 Member States.





Rudolf LEY, PS Division, CERN, 02.09.96

D. Manglunki, PS Div. CERN, 23.05.01

in collaboration with B. Desforges, SL Div., and

Revised and adapted by Antonella Del Rosso, ETT Div.,

PS: Proton Synchrotron

LINAC: LINear ACcelerator

LEIR: Low Energy Ion Ring

CNGS: Cern Neutrinos to Gran Sasso

By accelerating particles to very high energies and smashing them into targets, or into each other, physicists can unravel the forces acting between them.

Crashing particles into each other inside colliders - or into targets - produces new particles. This happens as matter turns into energy and back again following Einstein's famous equation, E=mc²