





I D A L A B

INDUSTRIAL DESIGN STUDIO



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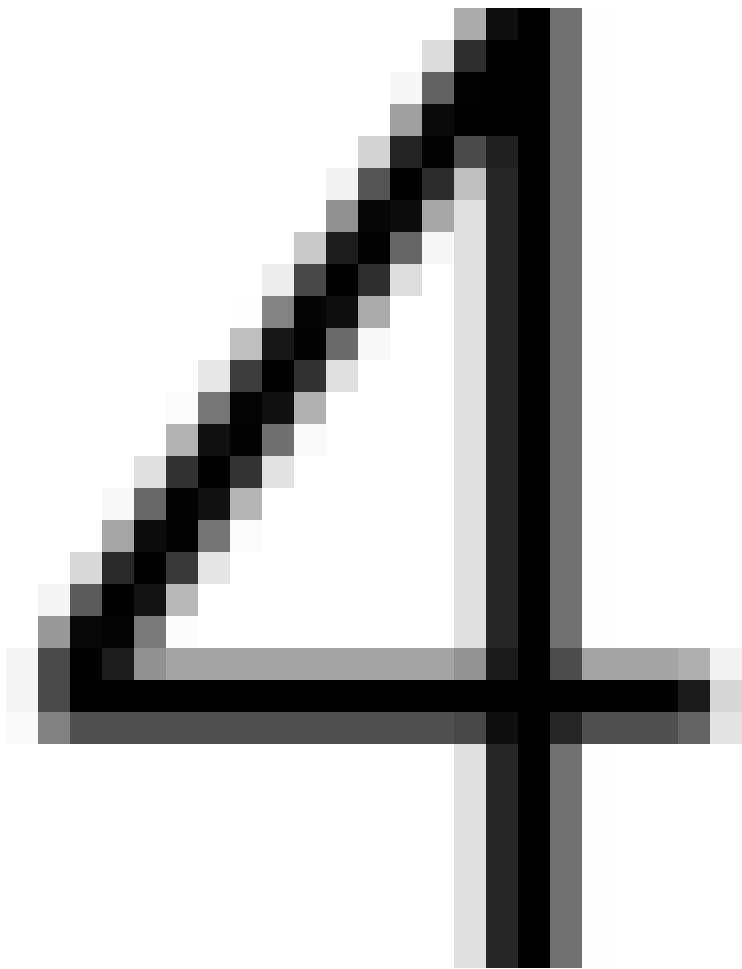


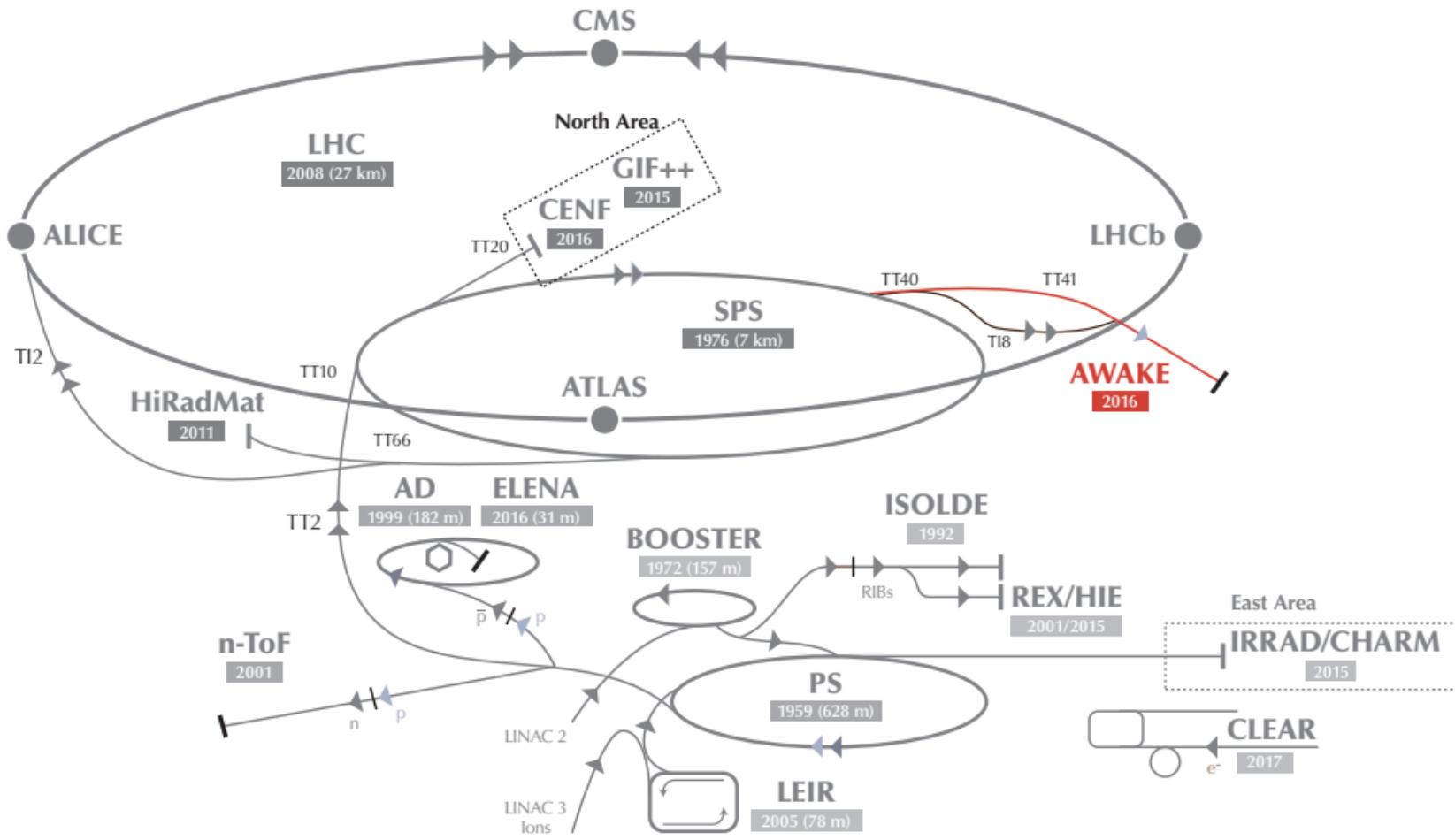
CERN AWAKE steering problem

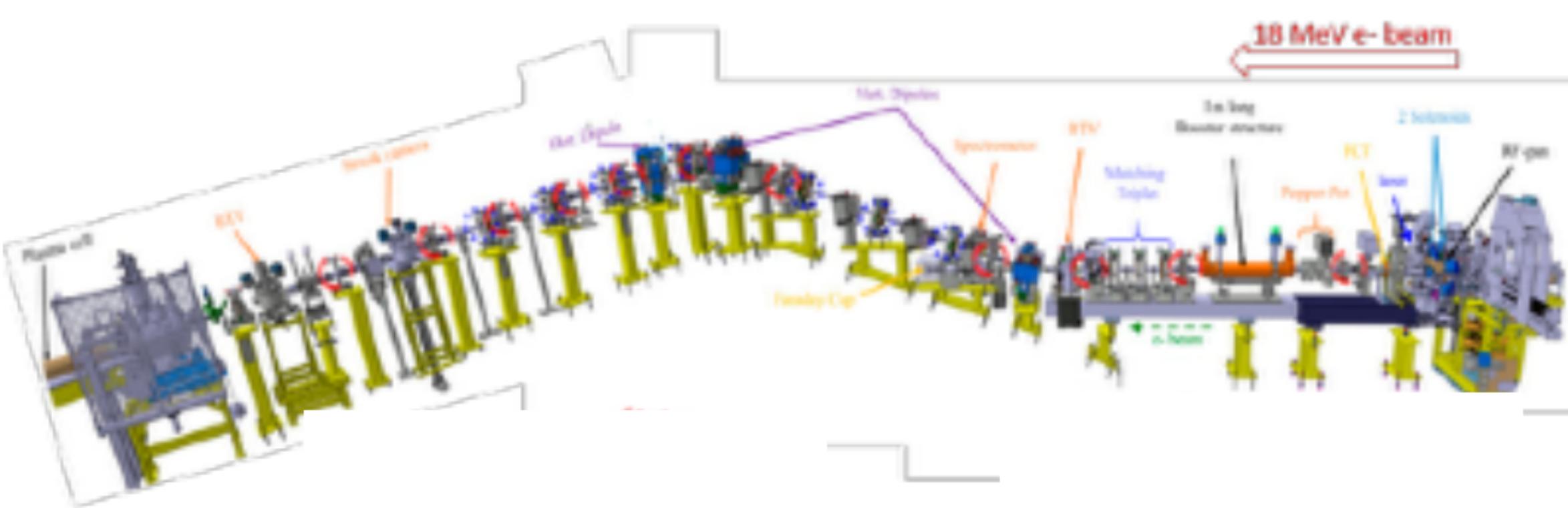
AWAKE electrons - start 5 MV (RF gun), accelerated to 18 MeV through beam line of plasma cell.

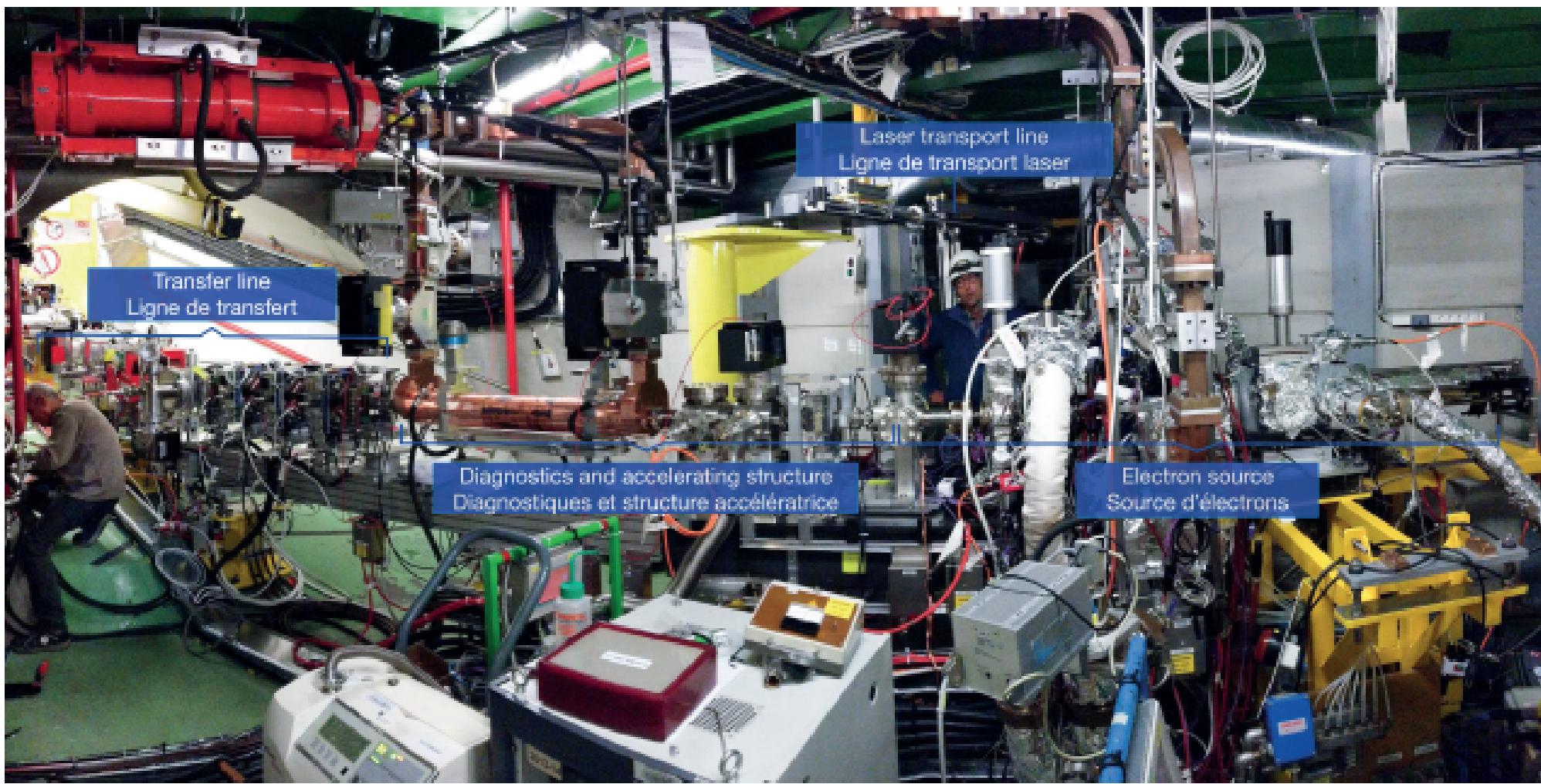
parallel beam short step PS and mean vertex calibration

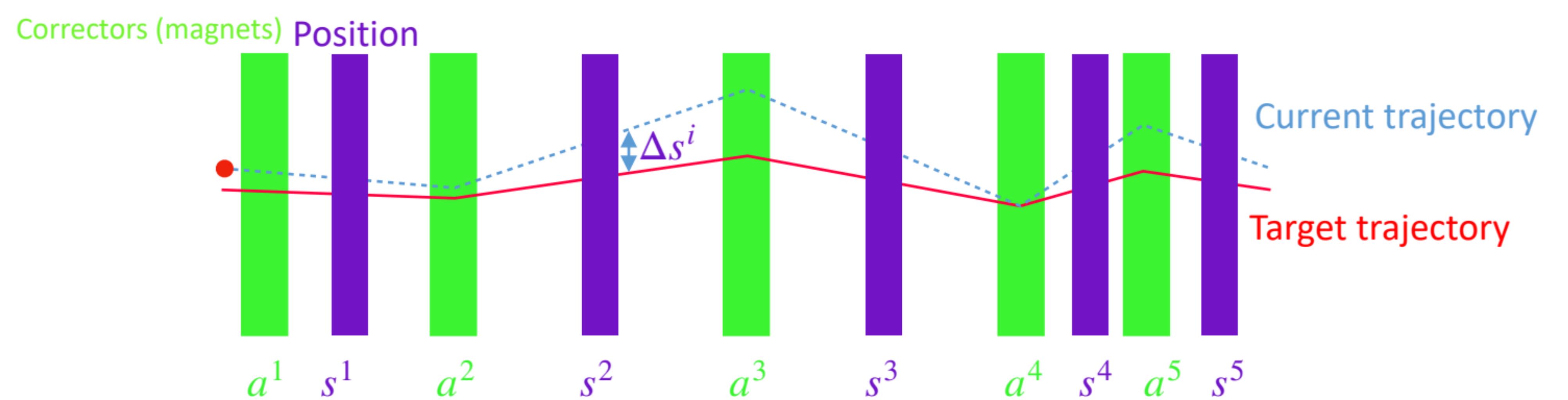
The trajectory is controlled with 10 horizontal and 10 vertical steering dipoles according to the measurements of 10 beam position monitors (BPMs).



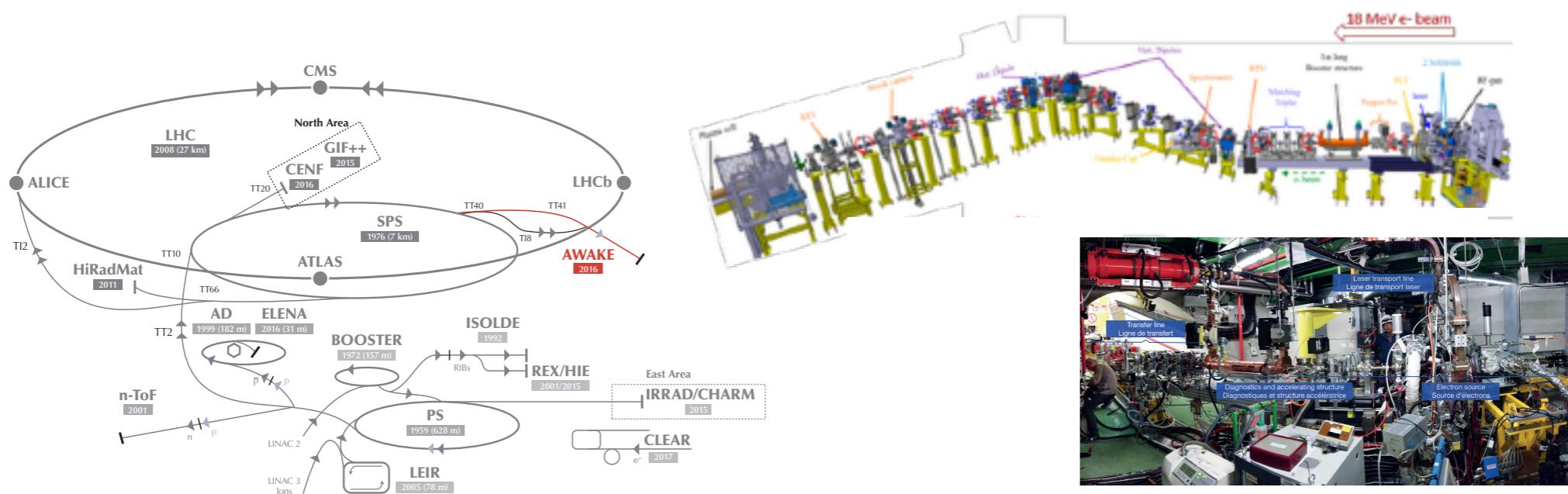




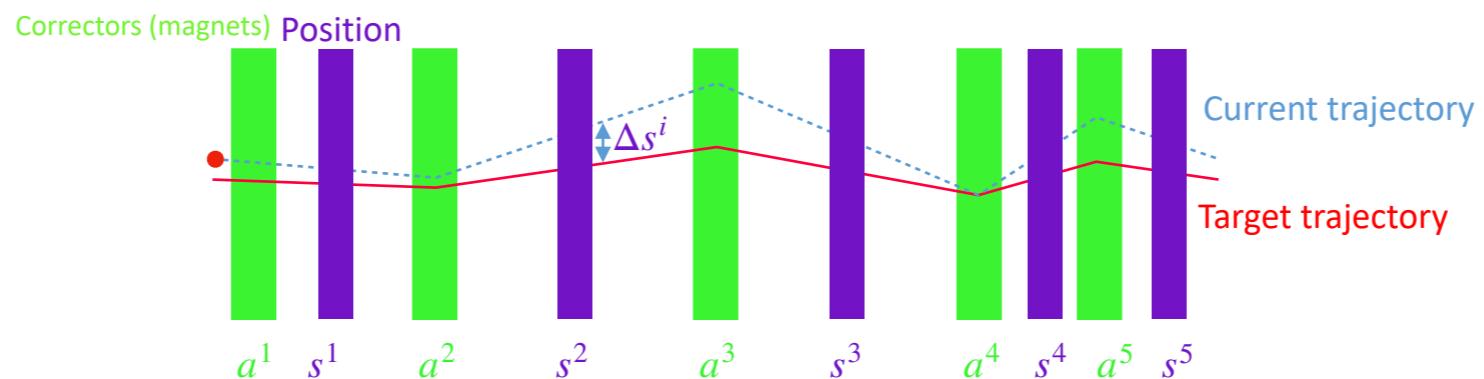




# CERN AWAKE steering problem



- AWAKE electrons - start 5 MV (RF gun), accelerated to 18 MeV transported through beam line of 12 m to the AWAKE plasma cell.
- Vertical 1 m step and a 60° bend bring electron beam parallel SPS proton beam shortly plasma cell.
- The trajectory is controlled with 10 horizontal and 10 vertical steering dipoles according to the measurements of 10 beam position monitors (BPMs).



# CERN AWAKE steering problem