



I D A L A B

INDUSTRIAL DESIGN STUDIO



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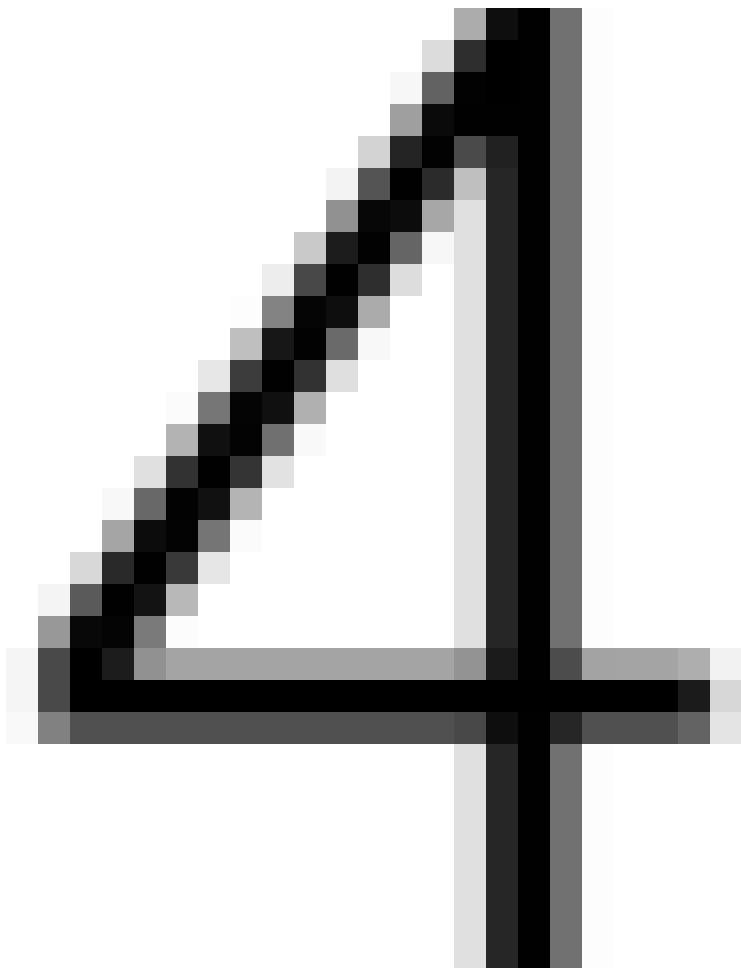


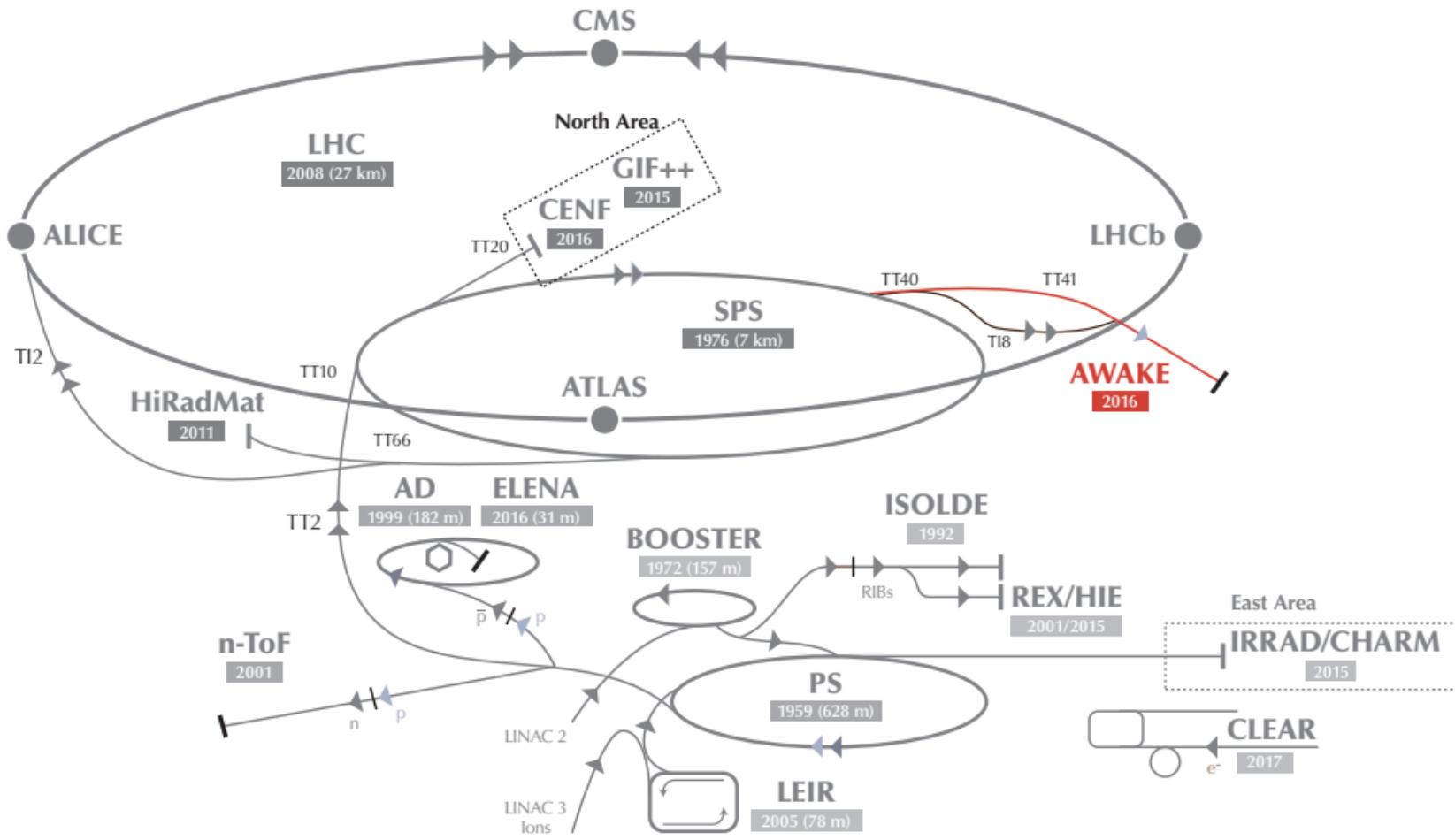
CERN AWAKE steering problem

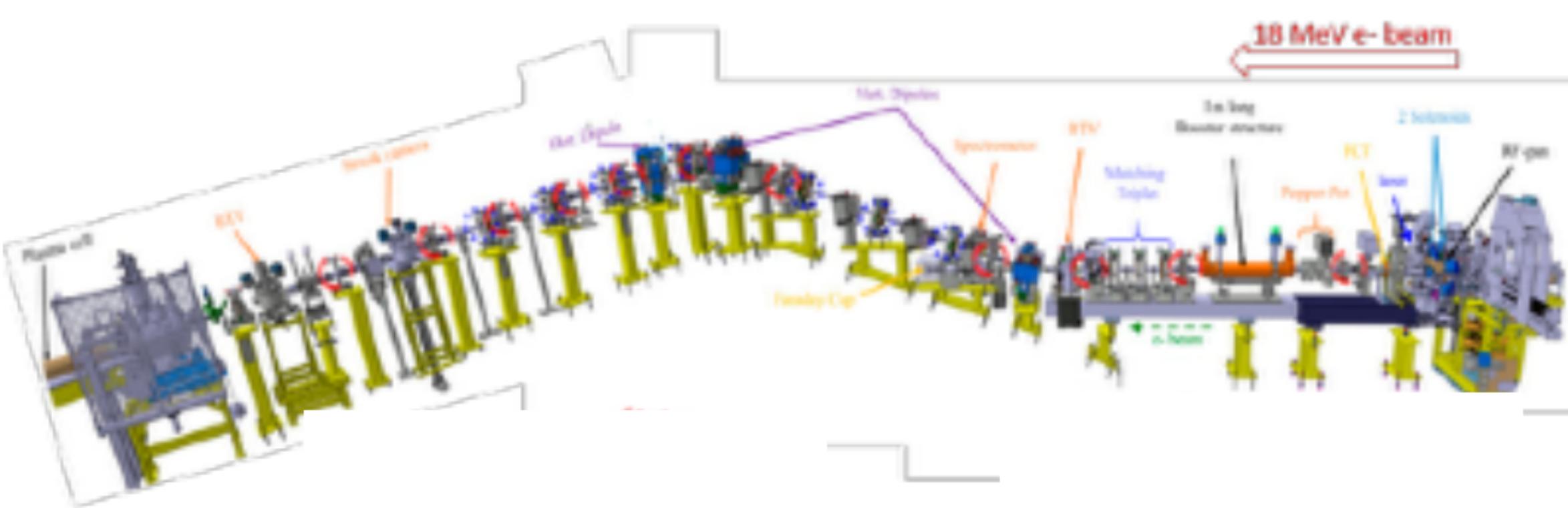
AWAKE electrons - start 5 MeV (RF gun), accelerated to 18 MeV through beam line of plasma cell.

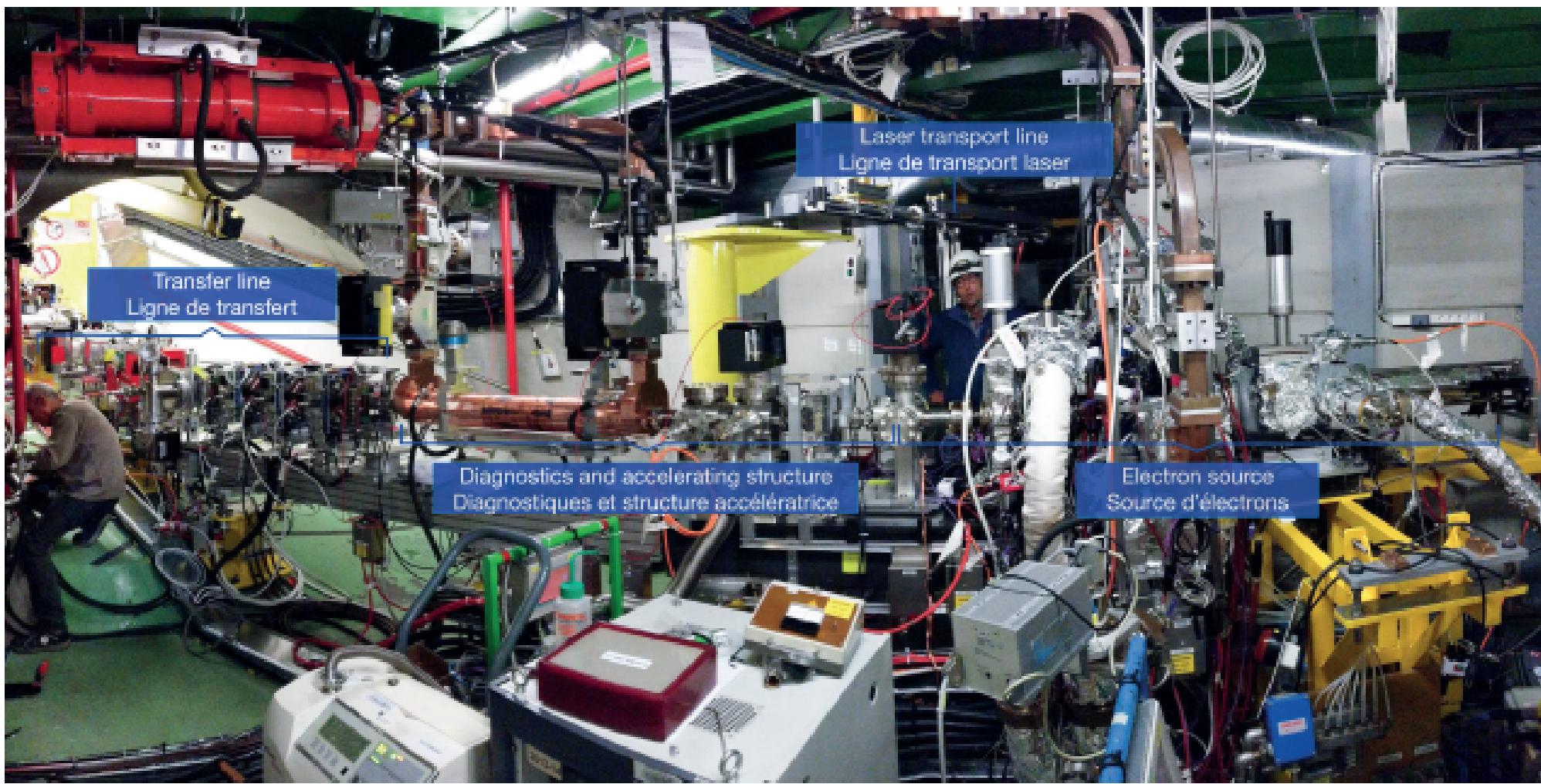
beam and parallel beam S_P rotationally stepwise and a cell vertical selection 1m stepwise and parallel beam S_P and beam bending.

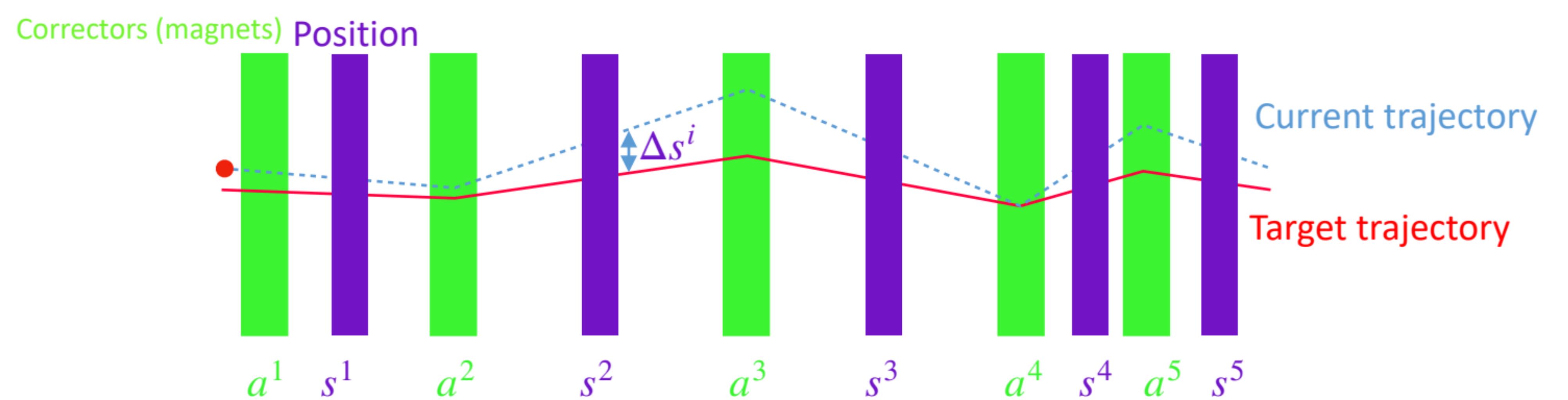
The trajectory is controlled with 10 horizontal and 10 vertical steering dipoles according to the measurements of 10 beam position monitors (BPMs).



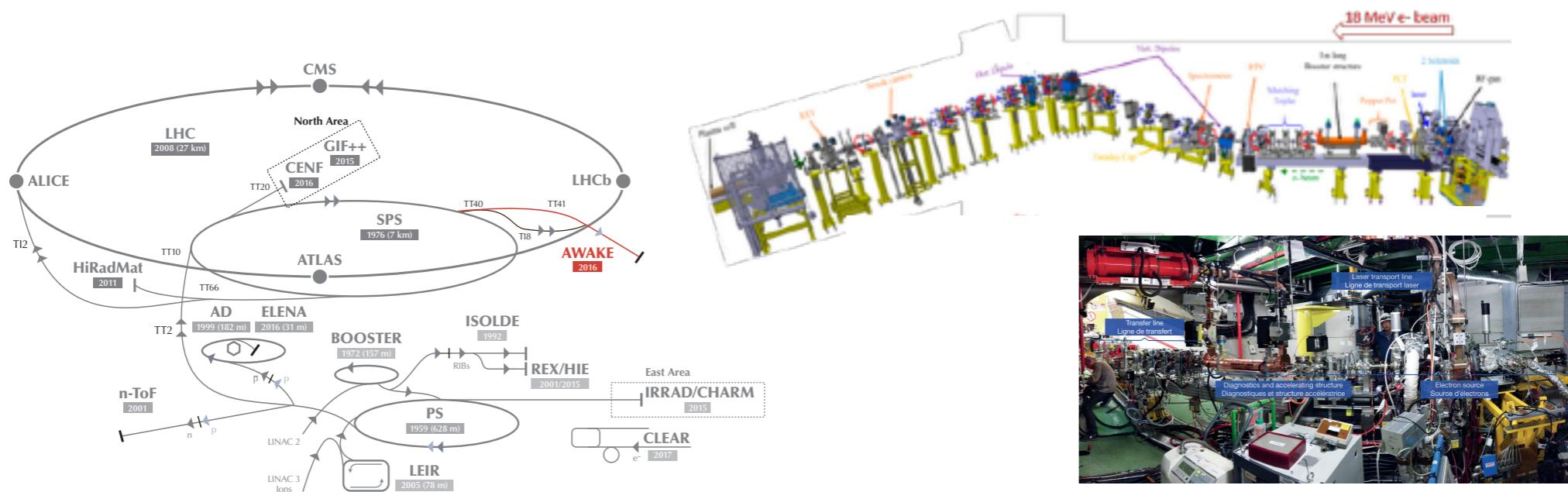




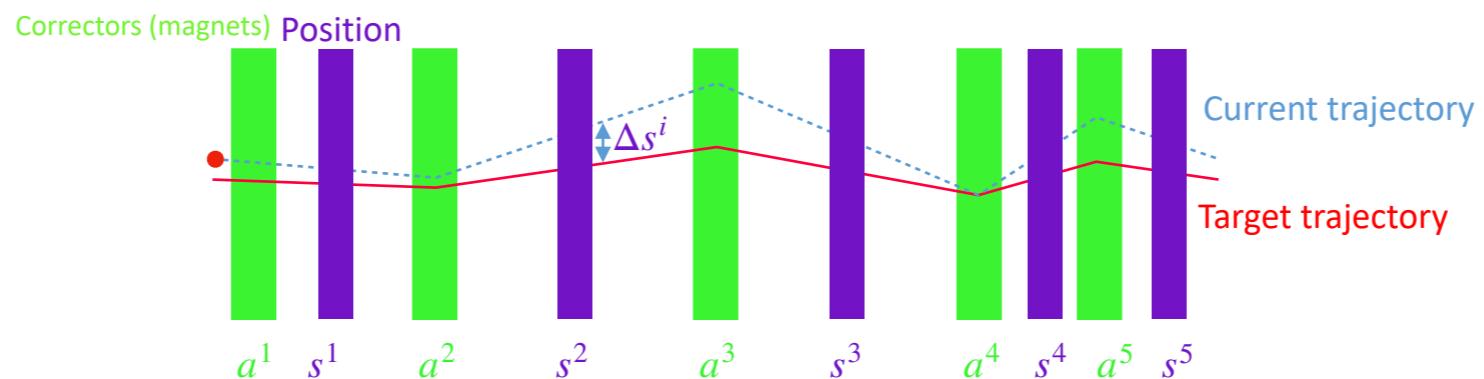




CERN AWAKE steering problem



- 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