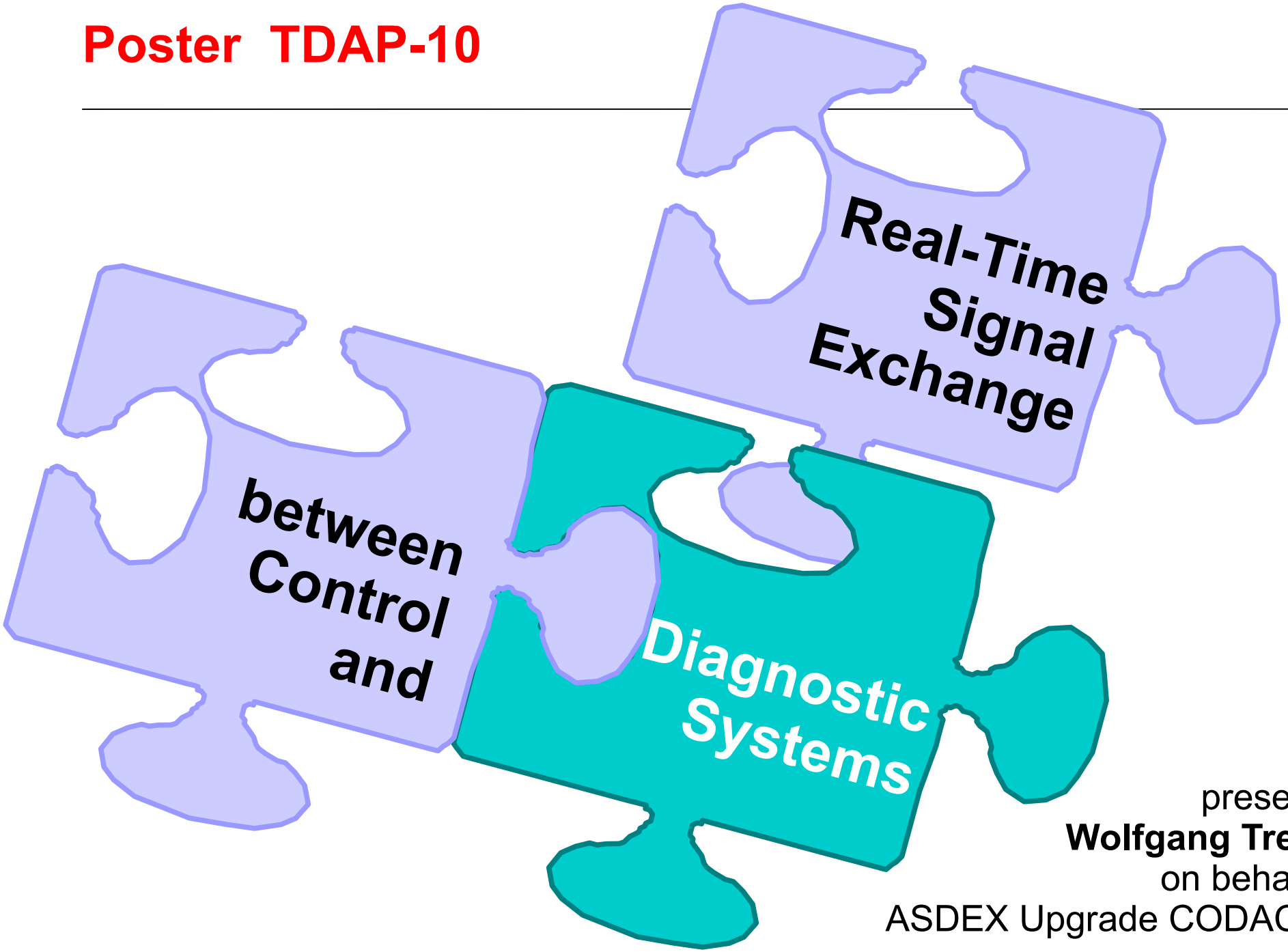
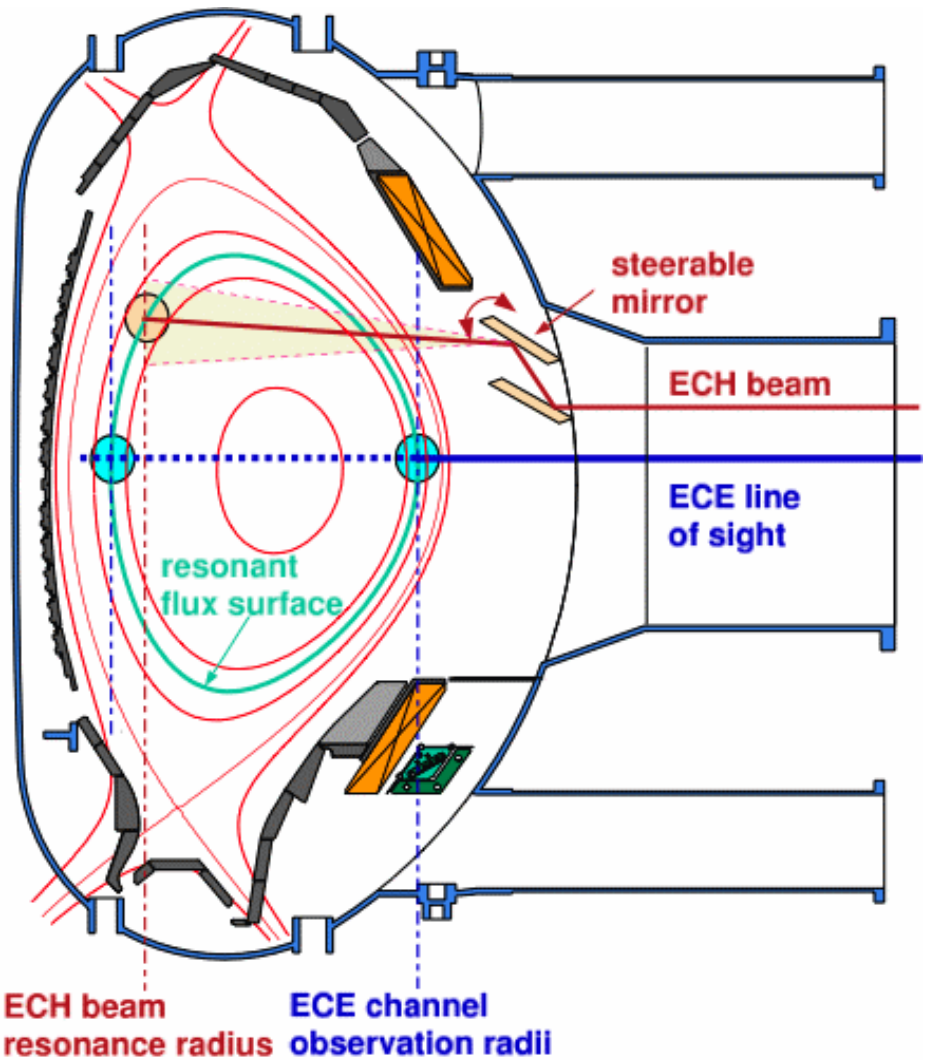
Poster TDAP-10



presented by
Wolfgang Treutterer
on behalf of the
ASDEX Upgrade CODAC Group

Control of Neoclassical Tearing Modes, an Example



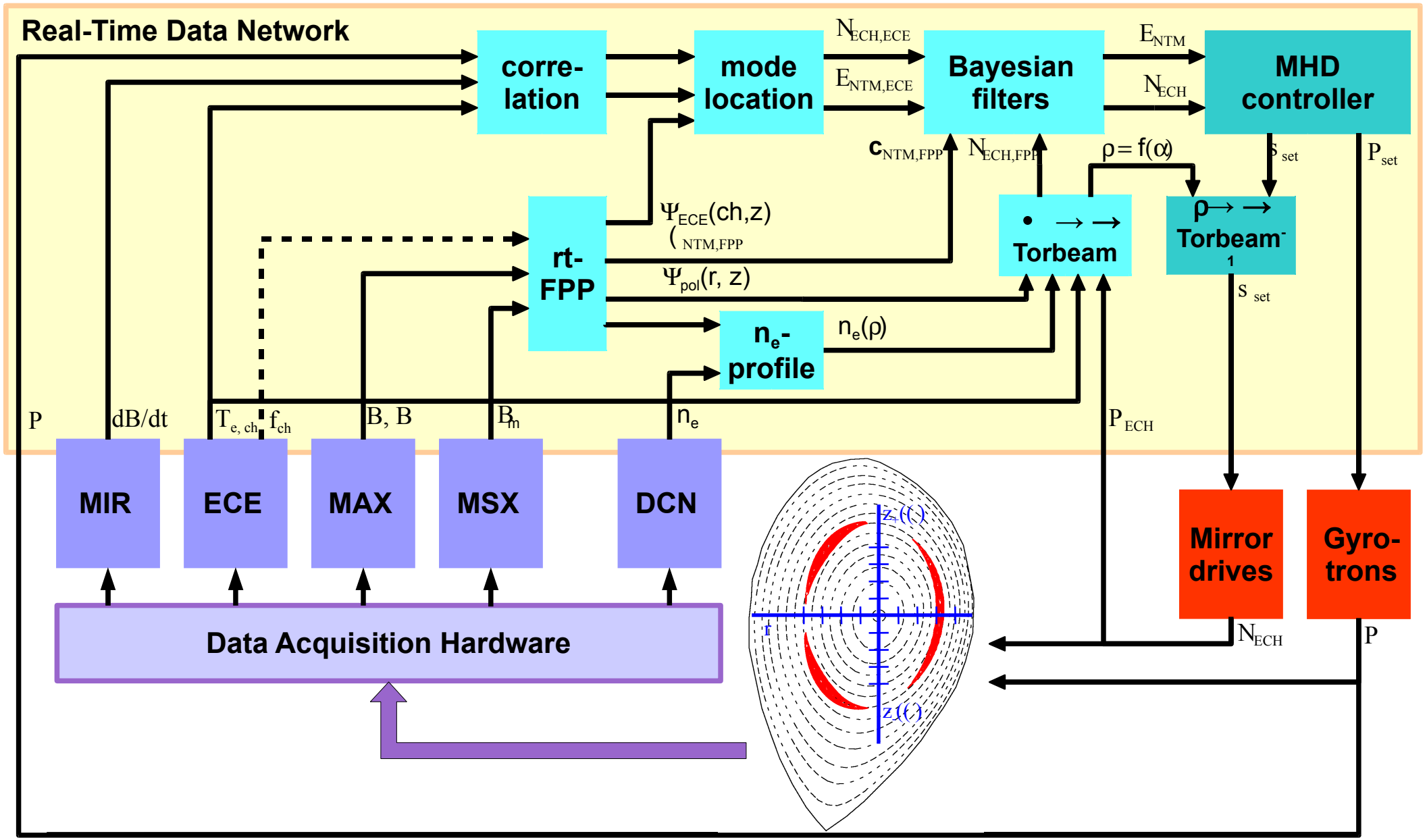
Goal :

- suppress or mitigate neoclassical tearing modes (NTM)
- avoid disruptions due to locked modes
- improve plasma confinement

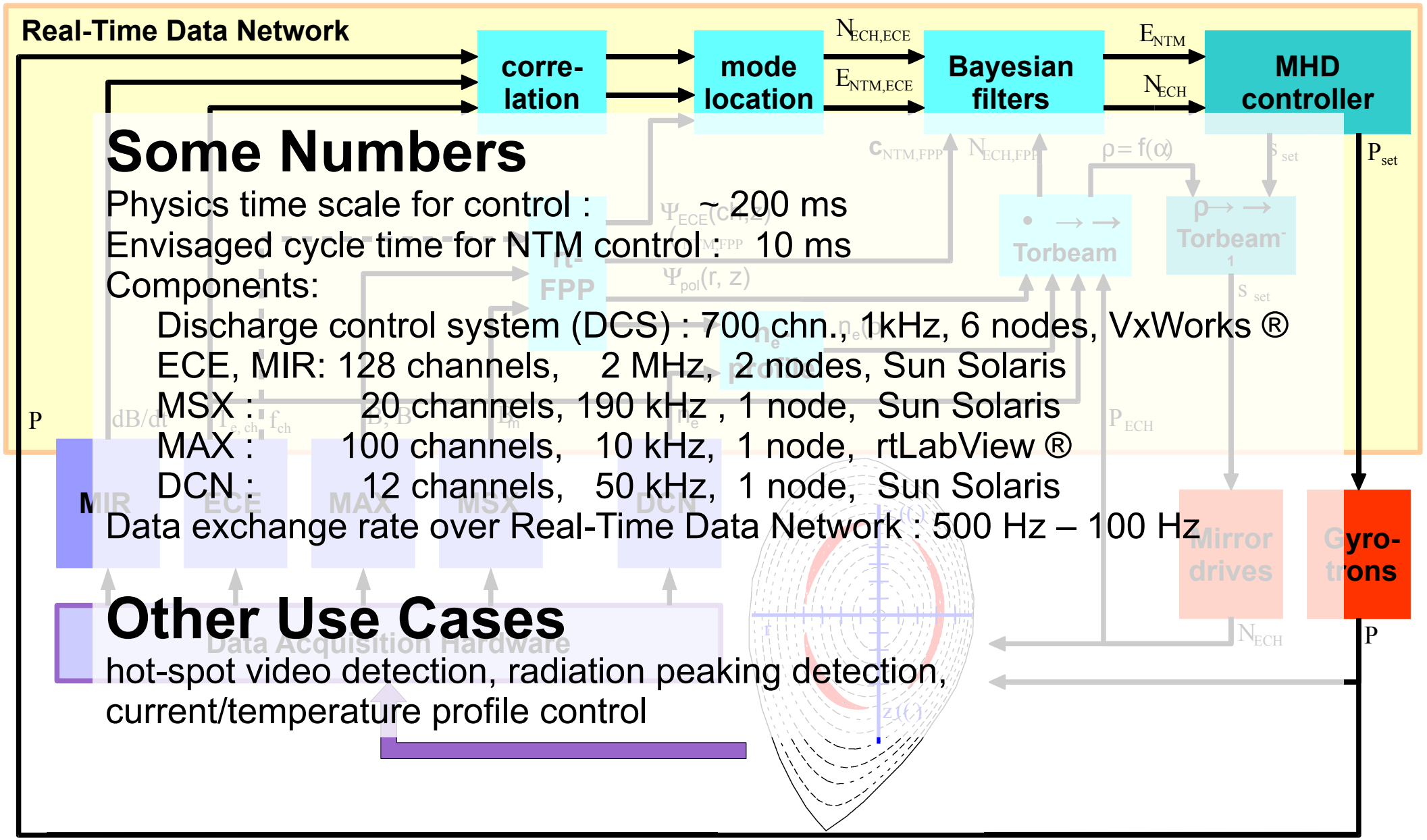
Control Recipe :

- move mirrors to guide Electron Cyclotron Heating (ECH) beams to the magnetic flux surface
- turn on ECH power when there
- drive current at the location of the NTM magnetic island to make it disappear

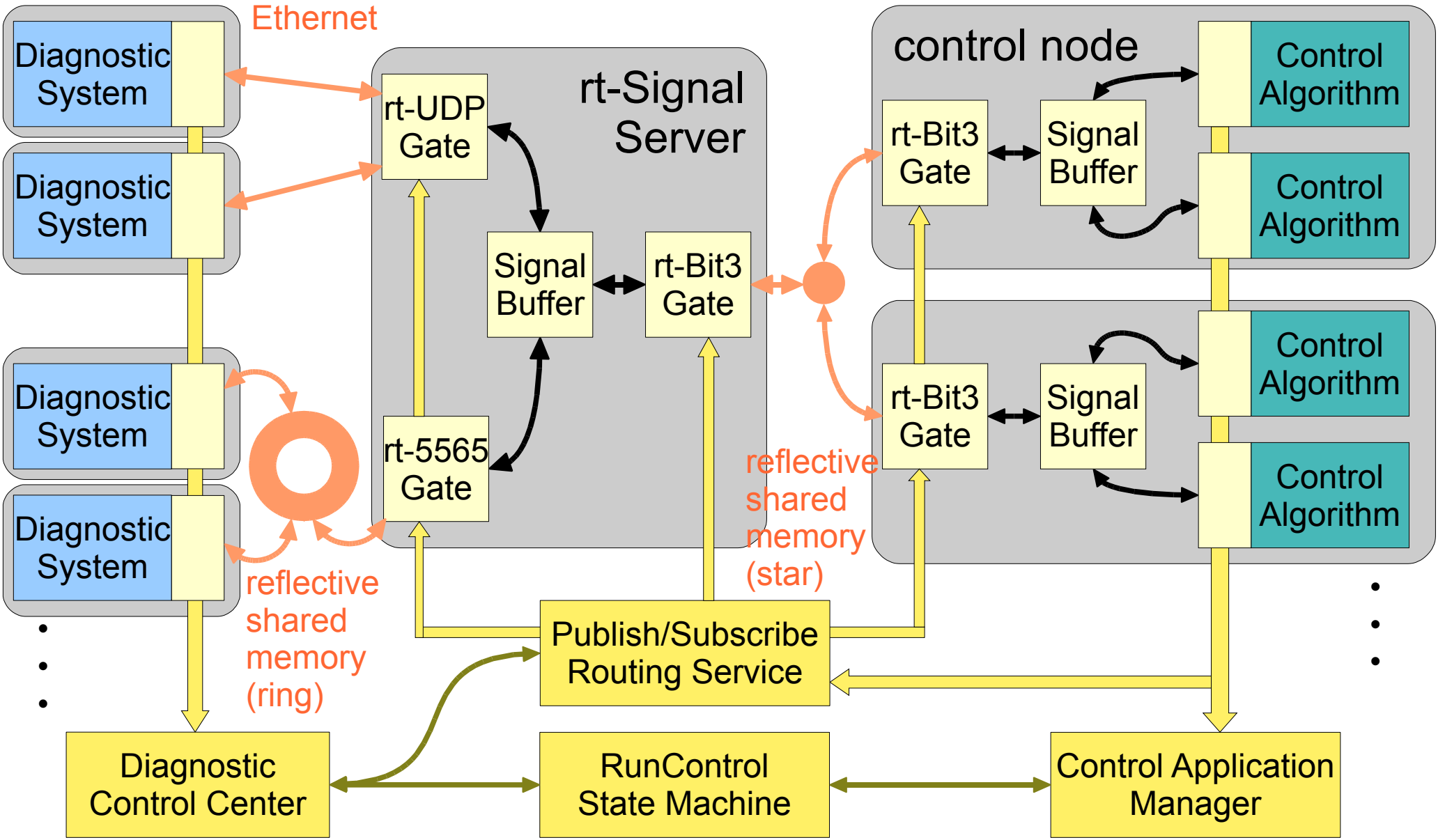
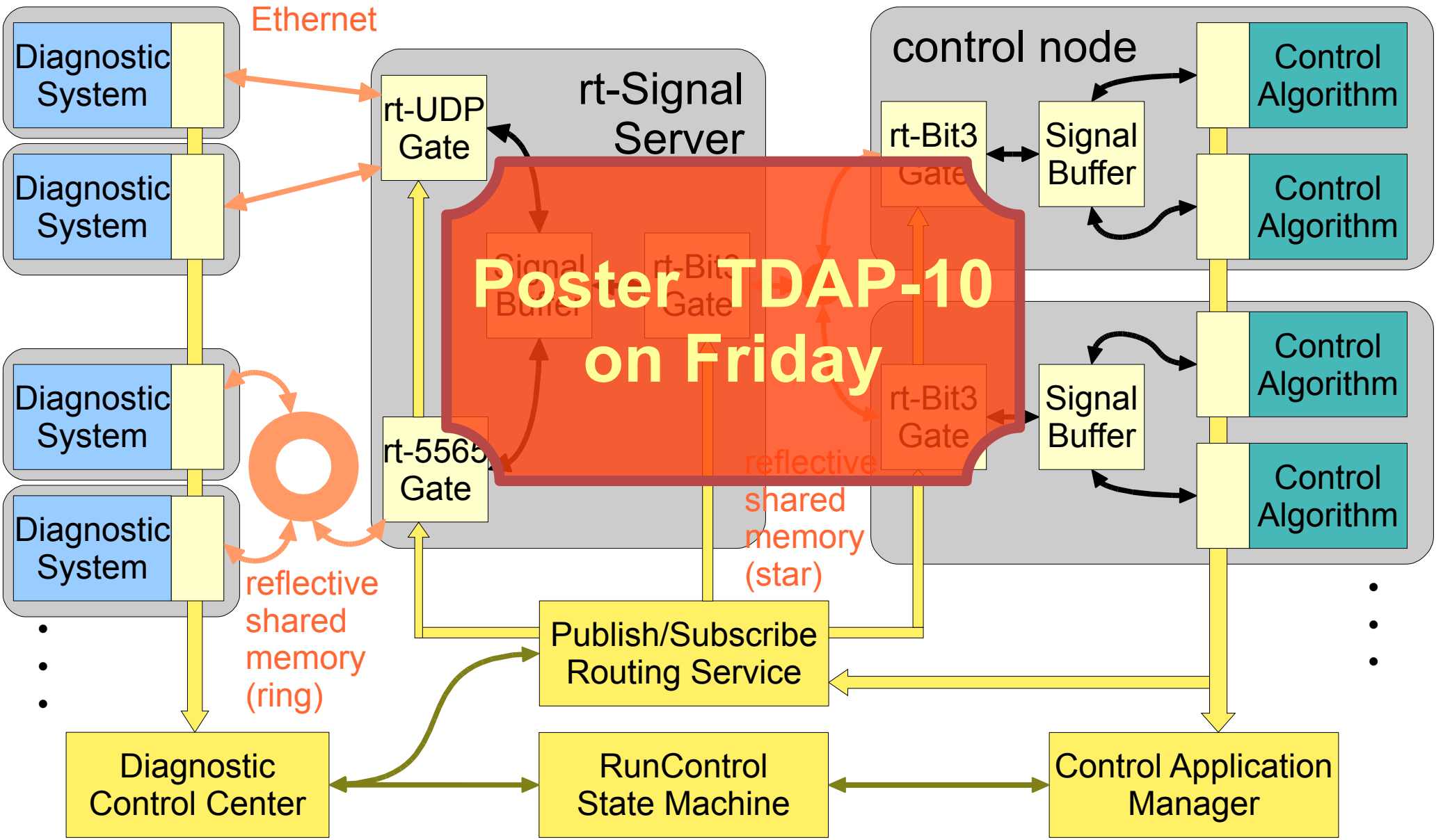
Functional Overview



Challenge by Diversity



Software Framework with Real-Time Networks



Software Framework with Real-Time Networks