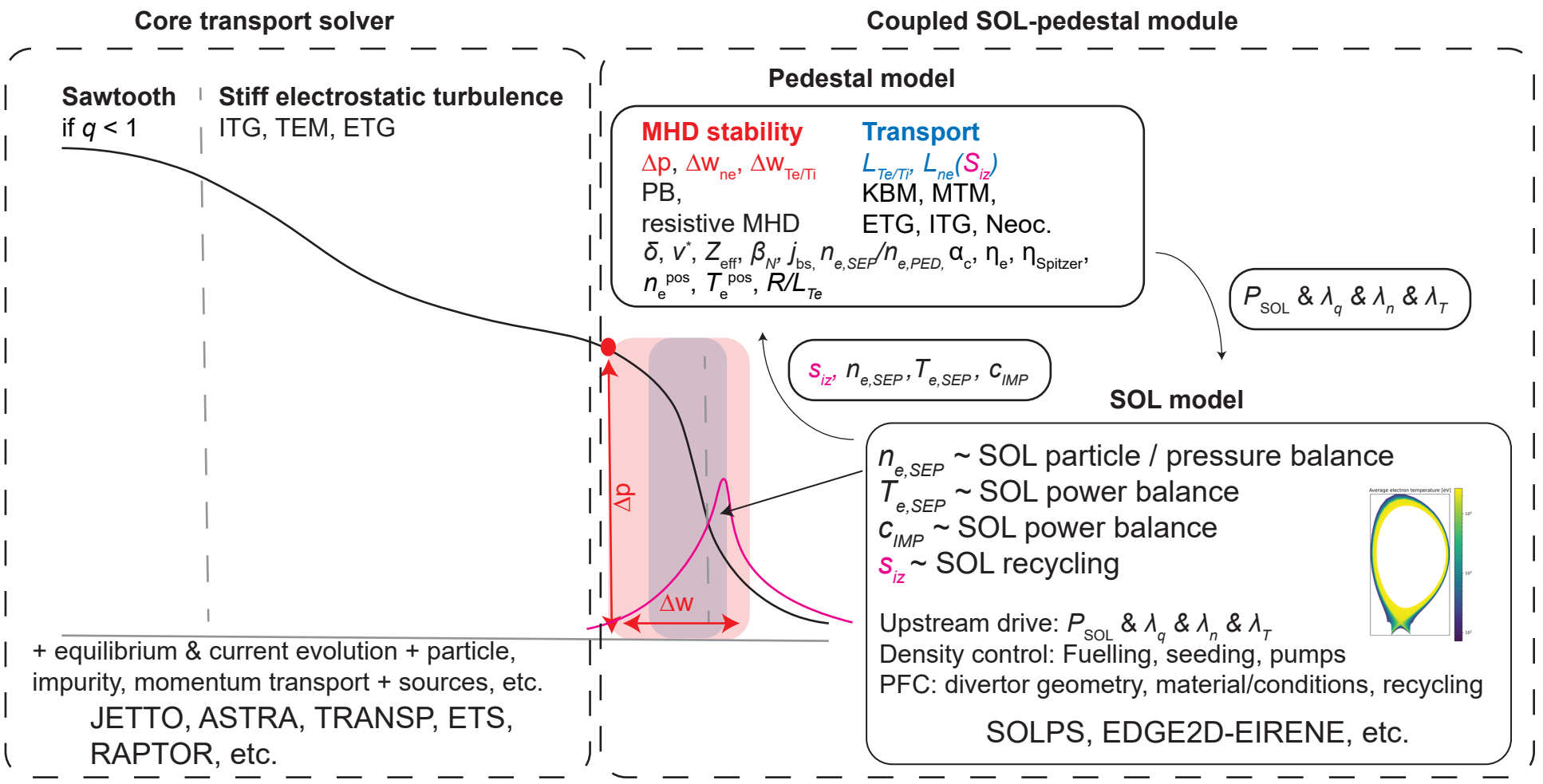
Core transport solver
Coupled SOL-pedestal module
Sawtooth
if q < 1
Stiff electrostatic turbulence
ITG, TEM, ETG
Pedestal model
MHD stability
Δp, Δw_ne, Δw_Te/Ti
PB,
resistive MHD
Transport
L_Te/Ti, L_ne(S_iz)
KBM, MTM,
ETG, ITG, Neoc.
δ, v*, Z_eff, β_N, j_bs, n_e,SEP/n_e,PED, α_c, η_e, η_Spitzer,
n_e^pos, T_e^pos, R/L_Te
P_SOL & λ_q & λ_n & λ_T
s_iz, n_e,SEP, T_e,SEP, c_IMP
SOL model
n_e,SEP ~ SOL particle / pressure balance
T_e,SEP ~ SOL power balance
c_IMP ~ SOL power balance
s_iz ~ SOL recycling
Upstream drive: P_SOL & λ_q & λ_n & λ_T
Density control: Fuelling, seeding, pumps
PFC: divertor geometry, material/conditions, recycling
SOLPS, EDGE2D-EIRENE, etc.
Δp
Δw
+ equilibrium & current evolution + particle,
impurity, momentum transport + sources, etc.
JETTO, ASTRA, TRANSP, ETS,
RAPTOR, etc.