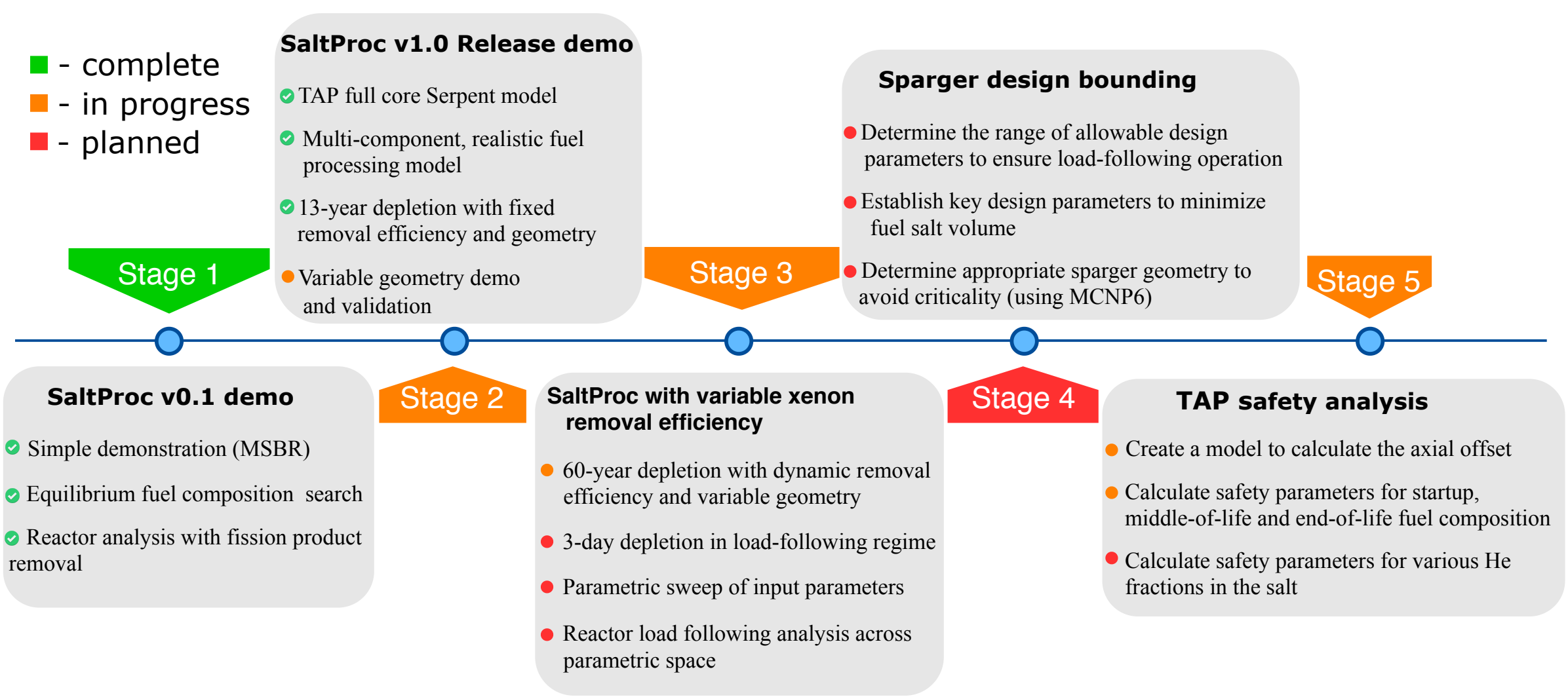
- complete
- in progress
- planned
SaltProc v1.0 Release demo
TAP full core Serpent model
Multi-component, realistic fuel processing model
13-year depletion with fixed removal efficiency and geometry
Variable geometry demo and validation
Sparger design bounding
Determine the range of allowable design parameters to ensure load-following operation
Establish key design parameters to minimize fuel salt volume
Determine appropriate sparger geometry to avoid criticality (using MCNP6)
Stage 1
Stage 3
Stage 5
SaltProc v0.1 demo
Simple demonstration (MSBR)
Equilibrium fuel composition search
Reactor analysis with fission product removal
Stage 2
SaltProc with variable xenon removal efficiency
60-year depletion with dynamic removal efficiency and variable geometry
3-day depletion in load-following regime
Parametric sweep of input parameters
Reactor load following analysis across parametric space
Stage 4
TAP safety analysis
Create a model to calculate the axial offset
Calculate safety parameters for startup, middle-of-life and end-of-life fuel composition
Calculate safety parameters for various He fractions in the salt