

## ADMISSIBILITY LIFECYCLE

### EMERGENCE

State  $\in$  System  $\Leftrightarrow$  Admissible  $\wedge$  Reachable



### STABILITY

$F(s) = M(s)$

Margin

Gradient

Curvature



### MOTION

Admissible trajectories  $\gamma(t)$

$M(\gamma(t)) > 0$



### BASINS

Stability regions

Separated by low-margin barriers

Transitions possible



### CONTROL

Margin restoration

Trajectory steering

Basin navigation



THRESHOLD

Point of No Return



COLLAPSE

$M(s) \leq 0$



POST-COLLAPSE

Constraint violation

Fragmentation

Loss of identity



OUTCOMES

System Re-Entry

Successor Formation

Terminal Collapse