System Description

System	Threat
Training Squadron: Aircraft Students Instructors	Delayed replacement aircraft Surge in graduate demand

	Commanding Officer	Program Manager
Functional Outputs	Graduates / Quarter	Graduates / Quarter
	Satisfaction / Quarter	Satisfaction / Quarter
		Aircraft / Day

Stakeholder Preferences

Stakeholder Preference	Functional Output	Commanding Officer	Program Manager
Need: $Q(t)$	Graduates	65 Normal, 90 Surge	65 Normal, 90 Surge
	Satisfaction	85%	85%
	Available Aircraft		85%
Time Horizon: t_h	All	3 Year Intervals	15, 20, 25, 30, 35 years
Intertemporal Substitutability: χ	Graduates	0, 1, & Event Dependent	0, 1, & Event Dependent

Time series performance data φ_t

Resilience Model

$$R = \frac{\mathrm{M}_\chi \Delta T_i + F_\chi \Delta T_f + R_\chi \Delta T_r + H_\chi \Delta T_h}{\Delta T_i + \Delta T_f + \Delta T_r + \Delta T_h}$$

Resilience Values with Stakeholder context