

Outstanding questions in social insect infrastructure resilience	
Transportation networks	Do pheromone-based trail systems invest less in topological robustness than systems based on high-cost physical trails/tunnels?
	How do social insect colonies redirect traffic through the network if one path becomes blocked?
	How is the collective repair of damaged trails coordinated?
	How do colonies decide between investing in new trails versus maintain old trails?
Communications networks	How do communication networks reform following the random or targeted (most connected) loss of individuals?
	How does colony size influence homogeneity of the communication network?
	How does the use of direct or indirect communication mechanisms influence the ability to recover following the loss of individuals?
Supply chains	Do social insects engage in forecasting to determine how much storage space to invest in?
	Do social insect colonies maintain extra suppliers? Does the number of 'backup' suppliers correlate with the stability of resources?
Memory and cognition	How does memory type (external/internal) impact resilience to loss of individuals?
	How does individual cognitive complexity influence resilience to loss of individuals?
	How does the length of memory influence colony resilience?
Economics of resilience	Is investment in resistance mechanisms associated with high frequency disturbances?
	Is investment in reconstruction mechanisms associated with high impact disturbances?
	What is the relative cost of resistance, redirection and reconstruction?
	Can colonies adjust their relative investment into resistance, redirection and reconstruction to account for changes in disturbance frequency/magnitude?
	Do the benefits of investing in infrastructure resilience exceed the costs?
Interdependency and failure cascades	Do social insects exhibit failure cascades?
	Do social insects have mechanisms for preventing failure cascades?
	Do social insects have mechanisms for preventing failures from propagating to connected infrastructure systems?
	Are phase transitions common in insect infrastructures?
Other	How does the degree of centralisation influence colony resilience?