The objective of this project is to expose and incorporate swarm failsafe behaviors into a design through the creation of Monterey Phoenix (MP) models of unmanned/robotic agents interacting, as individuals or as a swarm, with each other and with humans providing command and control as well as other types of swarm-human interaction.

This objective is supported by the development of a tool that implements the MP approach and language.

MP exposes component interactions that result in unwanted, hazardous, incorrect or otherwise undesirable behaviors before operational use.

MP makes models more flexible, manageable, reusable, and multi-dimensional with interacting and overlapping phases, states, and actors.

MP automates many error-prone tasks currently done manually, such as use case generation and verification.

This automation allows human designers and analysts to spend a larger portion of their time on analysis tasks (e.g., identifying inefficient use of resources, design errors, failure modes, safety hazards, behavior patterns, etc.)

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Website: [https://wiki.nps.edu/display/MP](https://wiki.nps.edu/display/MP)

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