

Training of Pilots and Air Traffic Controllers in Weather-related Decision Making using Probabilistic Hazard Information Displays

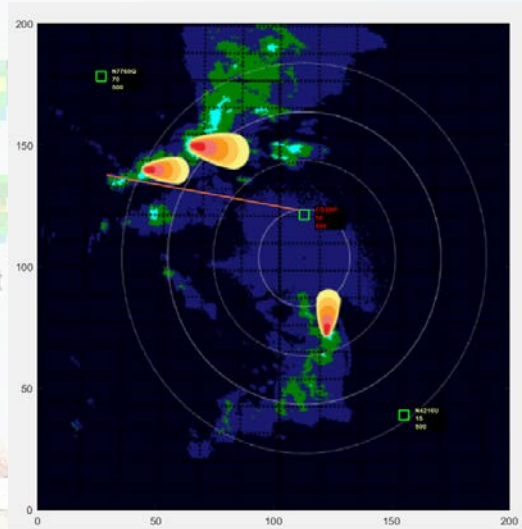
Human Factors

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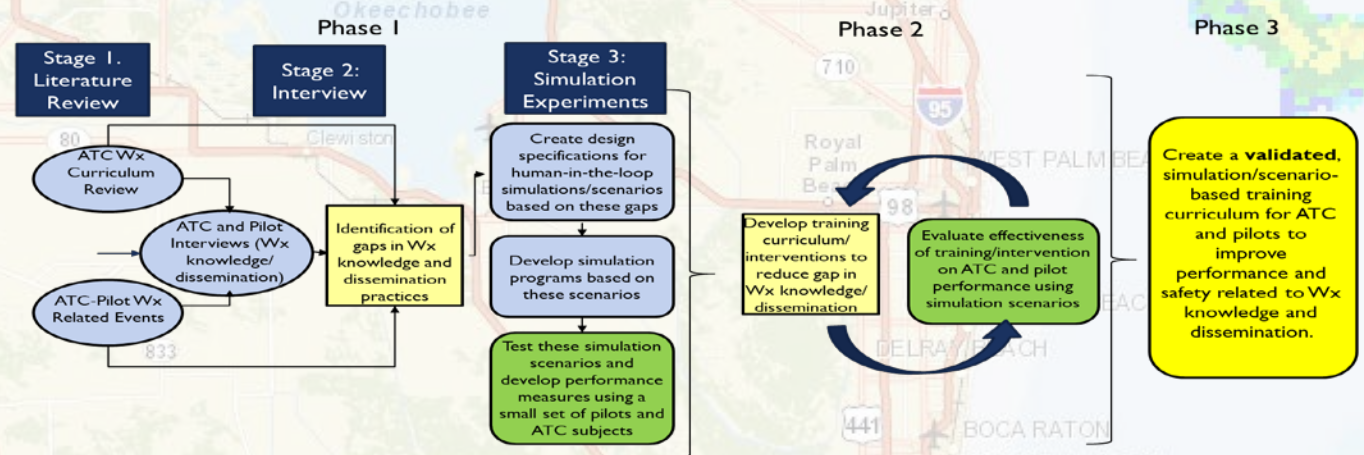
WHAT: This project is looking to see if scenario-based training can have a positive impact on weather dissemination to pilots.

GOALS:

1. Determine the extent to which gaps in weather-related training exist
2. Determine if scenario-based simulation with advanced weather modeling can bridge gaps in weather-related training.
3. Study pilots and air traffic controller decision making when encountering severe weather situations



HOW:



WHY:

- Increase safety by providing realistic weather dissemination training to controllers.
- Improving the quality of instruction
- Improving learner engagement
- Increasing trainee knowledge retention
- Incorporating evolving technologies into the training environment

Impact – The results can be used to evaluate new guidelines and procedures for disseminating weather to pilots in ways to help reduce weather-related accidents.