



## Understanding Vertical Guidance

**Objective** To integrate modeling, design, and training to improve pilots' understanding of vertical-guidance modes.

**Approach** A NASA/university/industry team conducted extensive analyses of vertical-guidance mode logic, using several different modeling approaches.

Modeling results were integrated and tested in a redesign-and-training experiment.

**Impact** Pilot performance showed significant and substantial improvement: a 2/3 reduction in predicted errors when using the new design and training.



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[http://humansystems.arc.nasa.gov/ihi/research\\_groups/air-ground-integration/](http://humansystems.arc.nasa.gov/ihi/research_groups/air-ground-integration/)

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