

# The Human Factors Tool for the Aviation Industry



## Flight Deck Human Factors Decision Support

Your human factors partner for design and decision-making is now ready to help you soar. Available as a comprehensive web-based application, the **HFYI Design CoPilot™** brings human factors expertise to the design and certification process in a rigorous, methodical, and consistent manner to allow you to more quickly and effectively make your design decisions. Based on the human factors decision-support tool used by the FAA, **HFYI Design CoPilot™** is easy to use and it's easy to see how it will become an integral part of your human factors design process.

## Harnessing Human Factors

### Easy. Comprehensive. Online.

HFYI Design CoPilot™  
[www.DesignCoPilot.com](http://www.DesignCoPilot.com)  
(800) 675-1510 x 327

A Product of Research Integrations, Inc.

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### A Systematic Approach.

Human factors considerations are a set of concepts that are useful for identifying or resolving flight deck human factors issues during the design and certification process. The systematic use of human factors considerations provides a comprehensive way to address human factors in any design or certification project.

### Authoritative.

Content and functionality is based on the decision-support tool designed by Research Integrations that has been successfully used by FAA certification team members since 2002.

### Easy to understand. Easier to use.

Design and certification team members will find human factors considerations related to FAA regulations and guidance material, flight deck component design, and general human factors topics. The **HFYI Design CoPilot™** provides a consistent approach and common language for addressing human factors considerations across design teams and work groups making it a readily useful tool for those with varying levels of human factors knowledge and expertise.

### Comprehensive.

The **HFYI Design CoPilot™** includes everything designers and certification personnel need to address human factors considerations in any flight deck project, including:

- flight deck displays
- controls
- systems
- equipment
- tasks and procedures
- human factors testing assumptions

Team members will find everything they need — all in one place:

- regulation and guidance materials: regulations, ACs, TSOs, policies and standards
- flight deck components
- human factors topics and descriptions
- keyword search and highlight functions
- regulatory documents linked with human factors considerations
- design strategies, measures and trade-offs
- references and glossary

### Customizable.

Custom versions of the application can be developed to include proprietary company standards or other useful document sets.



## Adding HFYI Design CoPilot™ to the Team:

### Saves Time.

No need to spend countless hours researching and assembling human factors information. With **HFYI Design CoPilot™**, everything you need to streamline those tasks is at [www.DesignCoPilot.com](http://www.DesignCoPilot.com). The design and certification process moves along more efficiently, freeing personnel to meet project deadlines.

### Reduces Cost.

Reduced personnel costs means increased productivity and increased savings. With **HFYI Design CoPilot™** by your side, human factors issues are identified and resolved before they become costly errors.

### Improves Efficiency.

**HFYI Design CoPilot™** efficiently navigates the issues.

- Search through complete sets of human factors considerations for flight deck displays, controls, and systems.
- Find human factors considerations by using the capabilities to search by regulatory or guidance document, human factors topic, or flight deck component.

### Identifies Issues Early and Communicates Easily.

Early identification of human factors issues that could lead to pilot errors and potentially unsafe conditions are critical to efficient project design. Decide if a particular human factors issue should be raised. Effectively communicate the issues and possible solutions to the design and certification teams.

### Helps Evaluate Your Options.

Tap into readily accessible human factors reference information for each human factors consideration, including a general description, design strategies, and examples, measures, and trade-offs.

### Increases Confidence in Your Decisions.

With complete access to human factors research, certification regulations, guidance documents, and the links between them, **HFYI Design CoPilot™** provides the resources for your design decision-making.

About HFYI Design CoPilot™ from  
Research Integrations, Inc.  
([www.ResearchIntegrations.com](http://www.ResearchIntegrations.com))

**HFYI DesignCoPilot™** is an integral part of **HFYI Solutions™**, a suite of proprietary technology that enables innovative and compliance-driven companies to improve the usability and usefulness of their systems and products, thereby, enhancing safety, efficiency, and effectiveness.

For over a decade Research Integrations, Inc. has been developing and applying design principles to enhance human performance in simple and complex task environments. We identify and develop products to make scientific and technical information usable by the people who need it. Based in Tempe, Arizona, Research Integrations, Inc. assists customers nationwide including the FAA, NASA, Boeing Commercial Airplanes, Booz Allen Hamilton, and other research and industrial organizations in the aviation, automotive, and manufacturing sectors.

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### Contact Us

For a demonstration of HFYI DesignCoPilot content and functionality, contact Beth Lyall, (800) 675-1510 x 327 or email: [beth.lyall@researchintegrations.com](mailto:beth.lyall@researchintegrations.com) for answers to your questions about signing on.

## Learn More about the HFYI DesignCoPilot

Learn how to experience the full capabilities and functions at [www.DesignCoPilot.com](http://www.DesignCoPilot.com). Its intuitive navigation easily guides you through your flight path to human factors considerations and decision making.

**DesignCoPilot.com**