Safety has Value
A free one-day conference
Eurocontrol Headquarters
Brussels
29th November 2006

Venue
The conference is being hosted by Eurocontrol at their headquarters at Brussels (Rue de la Fusee, 96, 1130 Bruxelles (Haren), Belgium) and all delegates must pre-register.

To Register:
Please e-mail your full details (Name, Company Name and address, email address and Job Title) to:
asicba@dappolina.it

If you have any queries please contact Arianna Perassi, or Elisabetta Noce, on +39 010 3628148, or Paul Hayes on +44 (0)2 08 564 6728, or paul.hayes@ascendworldwide.com.
SAFETY HAS VALUE

The members of ASICBA are pleased to invite you to attend a one day conference, free of charge, where we will demonstrate a new unique tool The Decision Support System (DSS) that allows the cost and benefits of safety to be quantified and incorporated in cost benefit analysis calculations.

For the first time the DSS allows safety benefits to be quantified financially and compared against the cost of planned safety measures.

The ASICBA Approach

The application of cost-benefit analysis theory is widespread in the transport sector and decisions about investments in new infrastructure are often supported by such analysis.

However, cost-benefit analysis of safety measures is a relatively new concept in the aviation community and decisions on safety related matters are often taken without knowing precisely how safety benefits relate to the costs they induce.

Now ASICBA has developed a methodology that allows a balanced trade-off between safety and investment costs to be made. The main concept in the approach is that safety benefit can be expressed in monetary terms, and thus can be compared with the associated costs of safety measures.

The model developed in ASICBA consists of three main integrated building blocks: a risk model, a cost model and the cost-benefit trade-off.

The Decision Support System (DSS) Tool

The ASICBA model has been incorporated into a web enabled Decision Support System (DSS) tool which takes the user through all the necessary steps in carrying out a Cost Benefit Analysis.

The DSS is an expert system that, through a friendly graphical interface based on Flash®, takes the user through a question and answer phase to identify their needs. The user is then asked to quantify the parameters of the resulting model to make them more meaningful to the specific case. Finally the DSS provides the user with a Microsoft Excel® report that contains all data (either default or specified by the user) and formulas used to calculate the final results.

The DSS is totally transparent and allows the user to see every step and every assumption used in the calculation.

The DSS is comprised of:

- A Risk Module including:
  - Quantified event probabilities contained in Event Sequence Diagrams (ESDs) and supporting Fault Trees and Basian Belief Networks
  - The ability to change any of the default probabilities to values chosen by the user

- A Cost Module including:
  - Accident severity ranges (Impact Vectors) for each party involved in an accident
  - 24 detailed Heads of Cost linked to each Impact Vector
  - Default figures for each potential cost
  - An ‘insurance model’ taking into account the modifying effect of insurance

Who Should Attend

All those having an interest in air safety, including:

- Airlines
- Airports
- ANSPs
- Manufacturers
- Regulators
- Service Providers

The ASICBA approach and the DSS tool have been developed in the context of commercial aviation safety but many of the concepts that are used are believed to have a wider application, especially in other modes of transport and we would therefore welcome participation from areas outside aviation.

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