

## Framework of Analysis

- Worldwide • Passenger Safety Safety Data Metric: for the
Decade
1987-96
Death Risk per Randomly-
Chosen Flight


## General Point:

When two airlines fly a route nonstop, very rarely is there a reason related to safety to prefer one to another.

## US Domestic Trunklines

Death Risk per Flight, 1987-96:
1 in 7 million
$\left.\begin{array}{lcc} & \begin{array}{c}\text { Number of Domestic } \\ \text { Airline }\end{array} & \begin{array}{c}\text { Number of } \\ \text { Full-Crash Equivalents }\end{array} \\ & & \\ \text { Alights(Millions) }\end{array}\right\}$

## BUT:

Had fatal crashes been randomly distributed among the domestic trunklines, the chances are $11 \%$ that the biggest "loser" would have suffered as lopsided a share of crash-equivalents as US Air actually did.

# Death Risk per Flight on Three Kinds of US Domestic Jet Services, 1987-96 

Trunkline<br>1 in $7 m$

Established Regional 0

New Entrants
1 in $3 m$

## BUT:

These differences are not statistically significant. Based on the fatal-accident rate of the trunklines, the chance was roughly $40 \%$ that the new entrants would have suffered a major crash over 1987-96.

> | Death Risk per Flight for Two |
| :---: |
| Kinds of US Air Carriers, |
| 1987-96 |

Jets
1 in 2 million

Commuter Propjets 1 in 7 million

This Difference in Mortality Risk IS Statistically Significant.

## Death Risk Per Scheduled Jet Flight for First and Developing World Carriers, 1987-96

## Domestic International

First-World
1 in $8 m \quad 1$ in $3 m$

Developing World 1 in $500,000 \quad 1$ in 400,000

# But does this disparity mean that, given a choice, we should fly First-World airlines rather than Developing World ones? 

TABLE 6: Death Risk Per Scheduled Jet Flight Between The First World and The Developing World, For Two Groups Of Airlines and 1987-96:

| Carrier Group | Full-Crash <br> Equivalents | Estimated Number <br> of Flights (millions) | Death Risk <br> per Flight |
| :--- | :---: | :---: | :---: | :---: |
| First-World | 4.03 | 2.5 | 1 in 600,000 |
| Developing <br> World | 4.98 | 3 | 1 in 600,000 |

## BUT:

## Commuter propjets and jets generally fly on different routes.

## OVERALL MESSAGE:

Don't think twice; it's all right.


