



# Extended Operations

## Briefing

for



OFFICE OF  
MANAGEMENT AND BUDGET

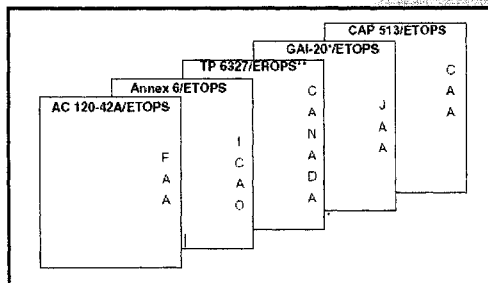
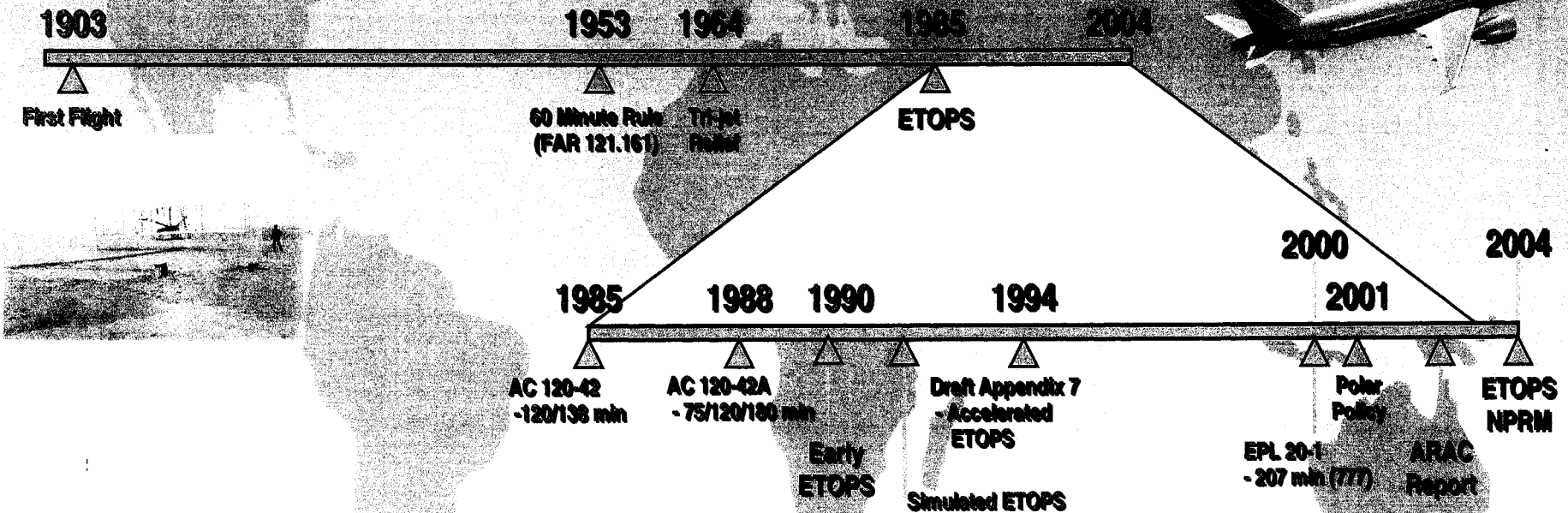
**Captain Chet Ekstrand**

VP, Regulatory Affairs

September 7, 2006

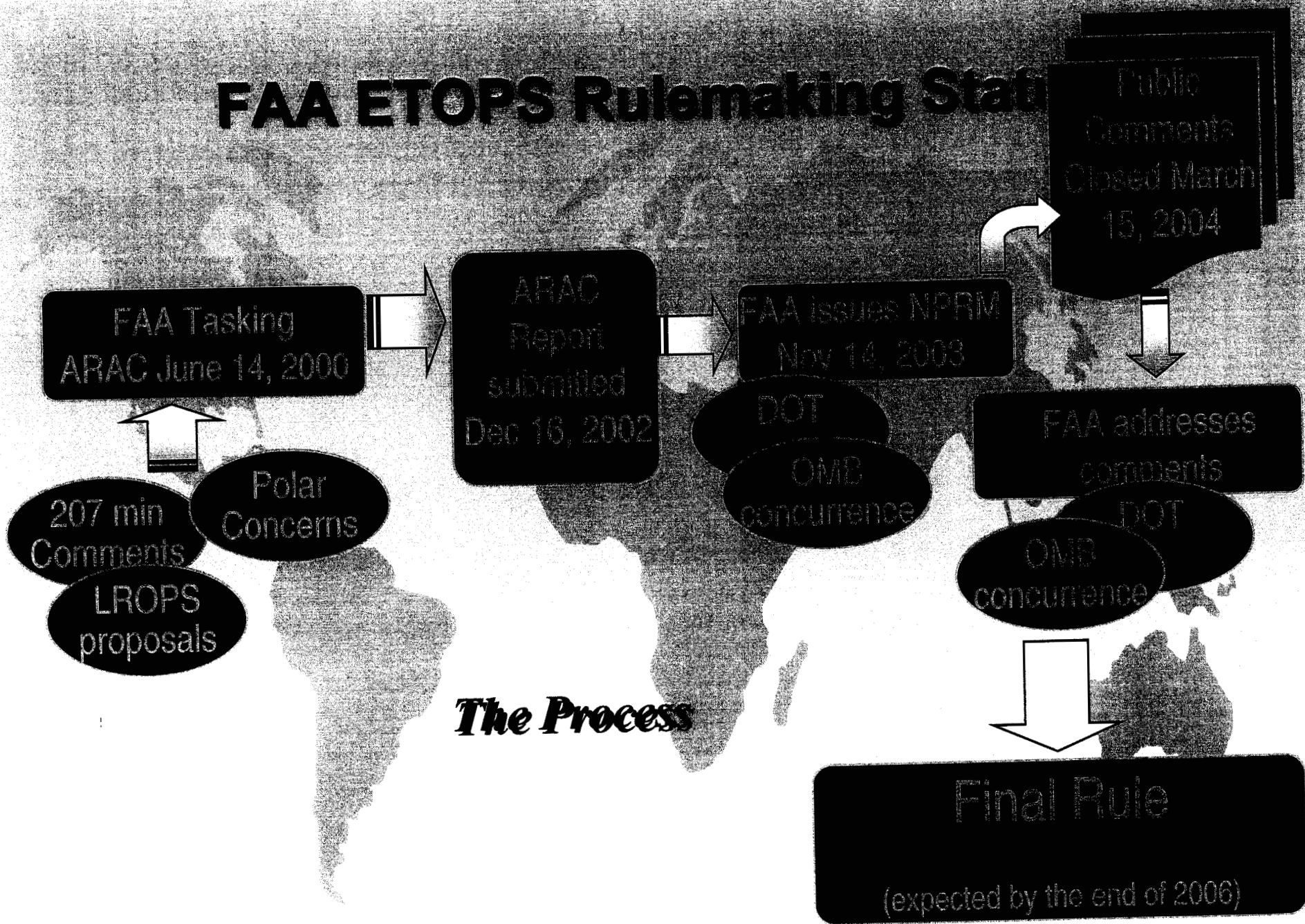
# The Evolution of ETOPS

Twin engine airplane capabilities have evolved based on improved reliability of jet engines.



**Worldwide ETOPS standards share a common intent and many common requirements.**

# FAA ETOPS Rulemaking Status



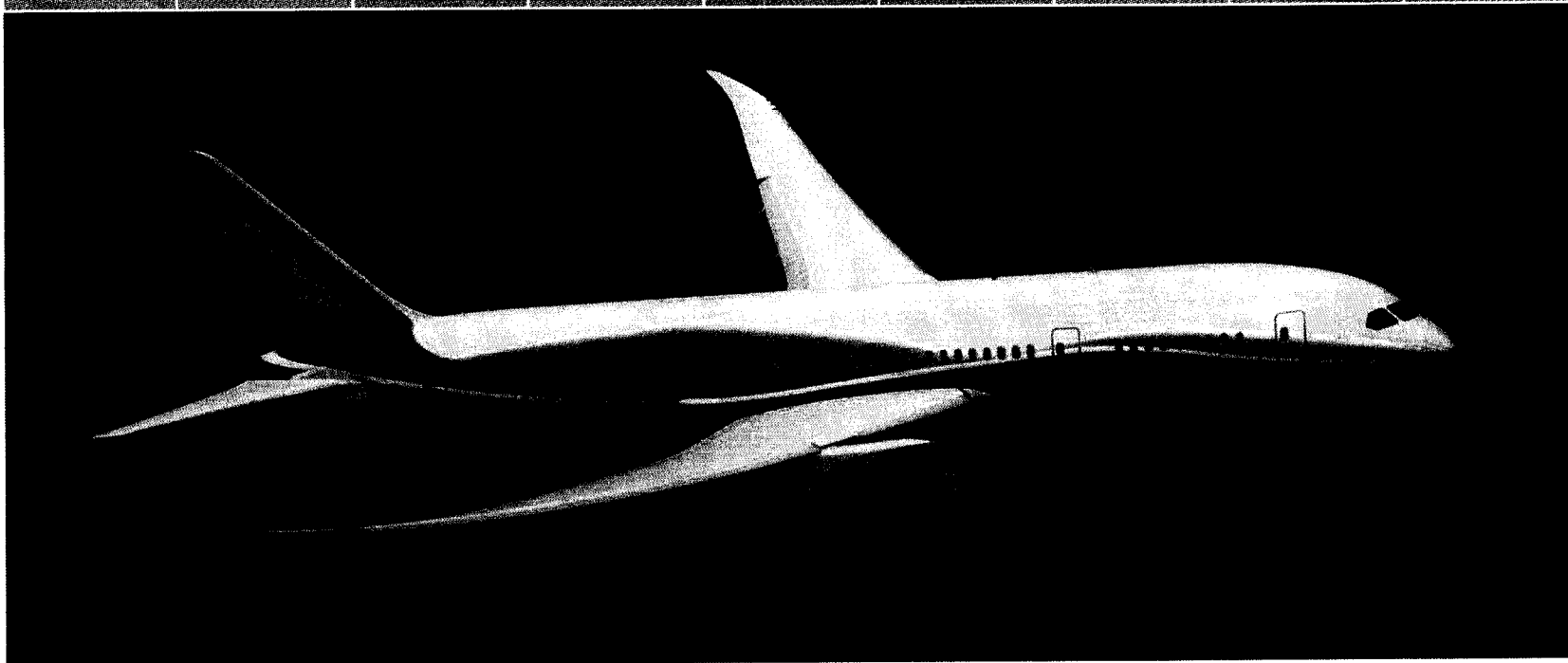
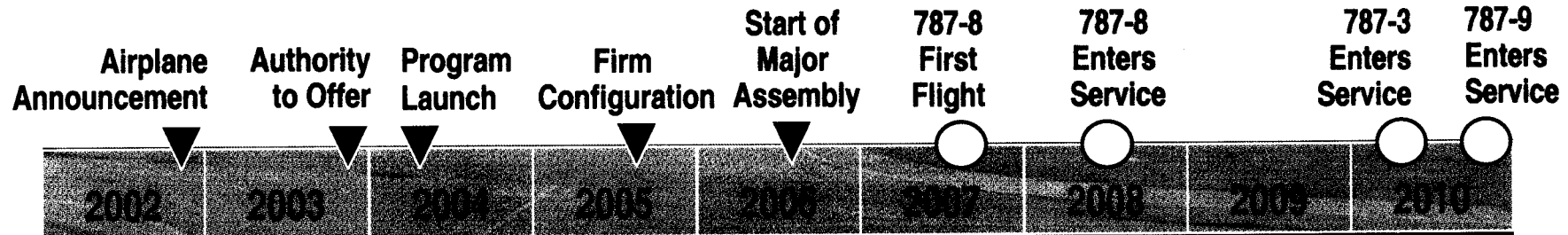
*The Process*

Final Rule

(expected by the end of 2006)

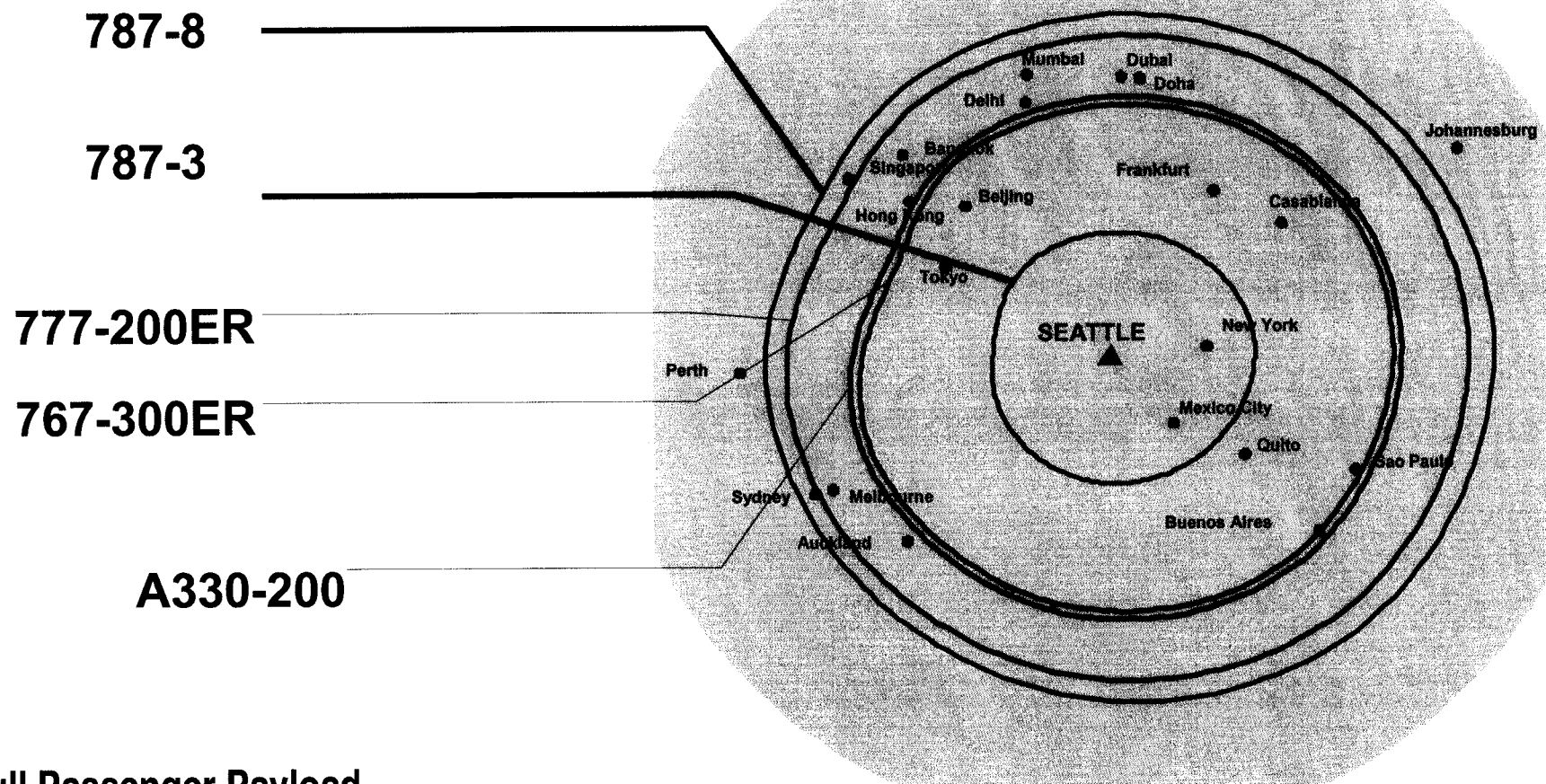
# Progressing on Schedule

**787**  
DREAMLINER



# New Range Capability with Mid-Size Capacity

787  
DREAMLINER



Full Passenger Payload

# Point-to-Point Enabled

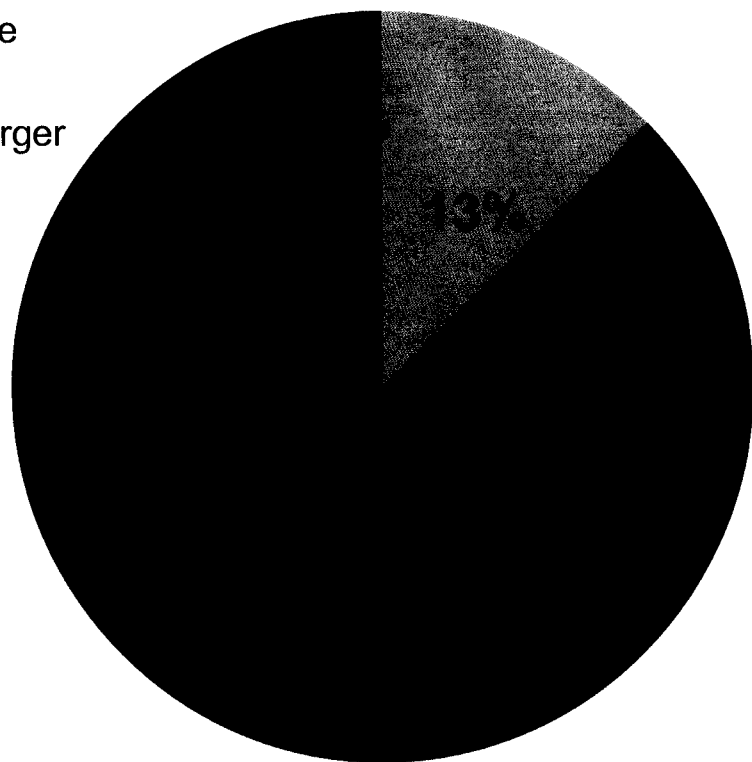
787  
DREAMLINER

- Vancouver - Sao Paulo
- Seattle - Shanghai
- San Francisco - Manchester
- Boston - Athens
- Tel Aviv - Montreal
- Munich - Nairobi
- Geneva - Singapore
- Dubai - Taipei
- Madrid - Manila
- Auckland - Beijing

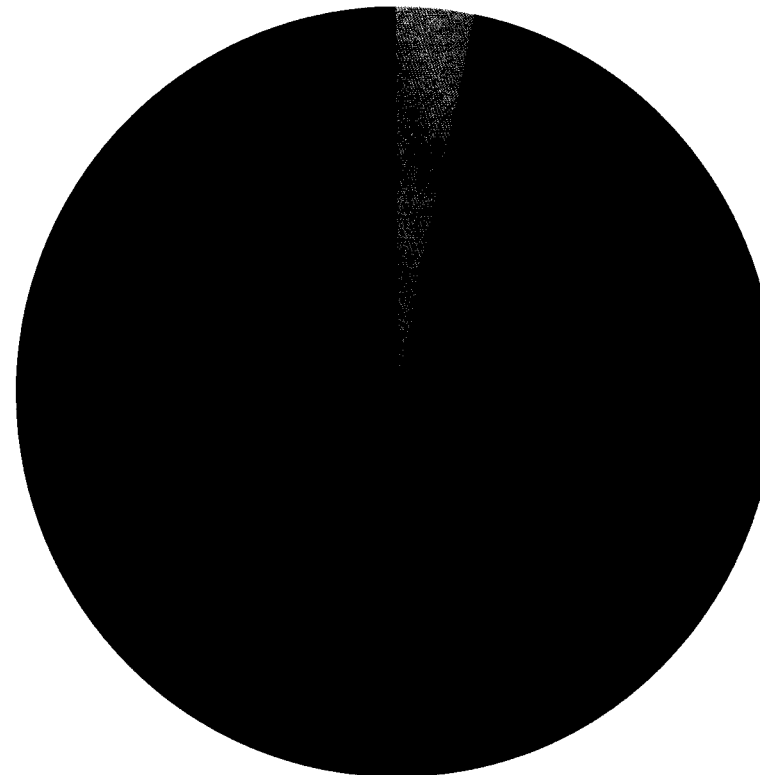
# Addressing the Market's Needs (2006-2025)

787  
DREAMLINER

- Regional jets
- Single-aisle
- Twin-aisle
- 747 and larger



**27,200  
airplanes**



**2.6 trillion  
delivery dollars\***

\*In year 2005 dollars

# Worldwide Market Interest Strong

787  
DREAMLINER

28 customers, 407 announced orders and commitments

AIR CANADA 

ANA 

Ethiopian  
የኢትዮጵያ

Jet 

JAL 

  
AIR CHINA  
中國國際航空公司

 Pegasus

 First Choice

 Kenya Airways  
*The Pride of Africa*

 QANTAS

 AIR INDIA

  
中國東方航空  
CHINA EASTERN

  
Garuda Indonesia

KOREAN AIR 

  
الخطوط الملكية المغربية  
royal air maroc

  
AIR NEW ZEALAND

  
中國南方航空  
CHINA SOUTHERN

  
Hainan Airlines

POLISH AIRLINES

LOT 

Vietnam Airlines 

 AIR  
PACIFIC

Continental  
Airlines 

ICELANDAIR 

  
nwa  
NORTHWEST AIRLINES

SINGAPORE AIRLINES 

中富航空  
CR AIRWAYS 

  
ILFC

 Air  
Seychelles \*

  
AEROMEXICO \*

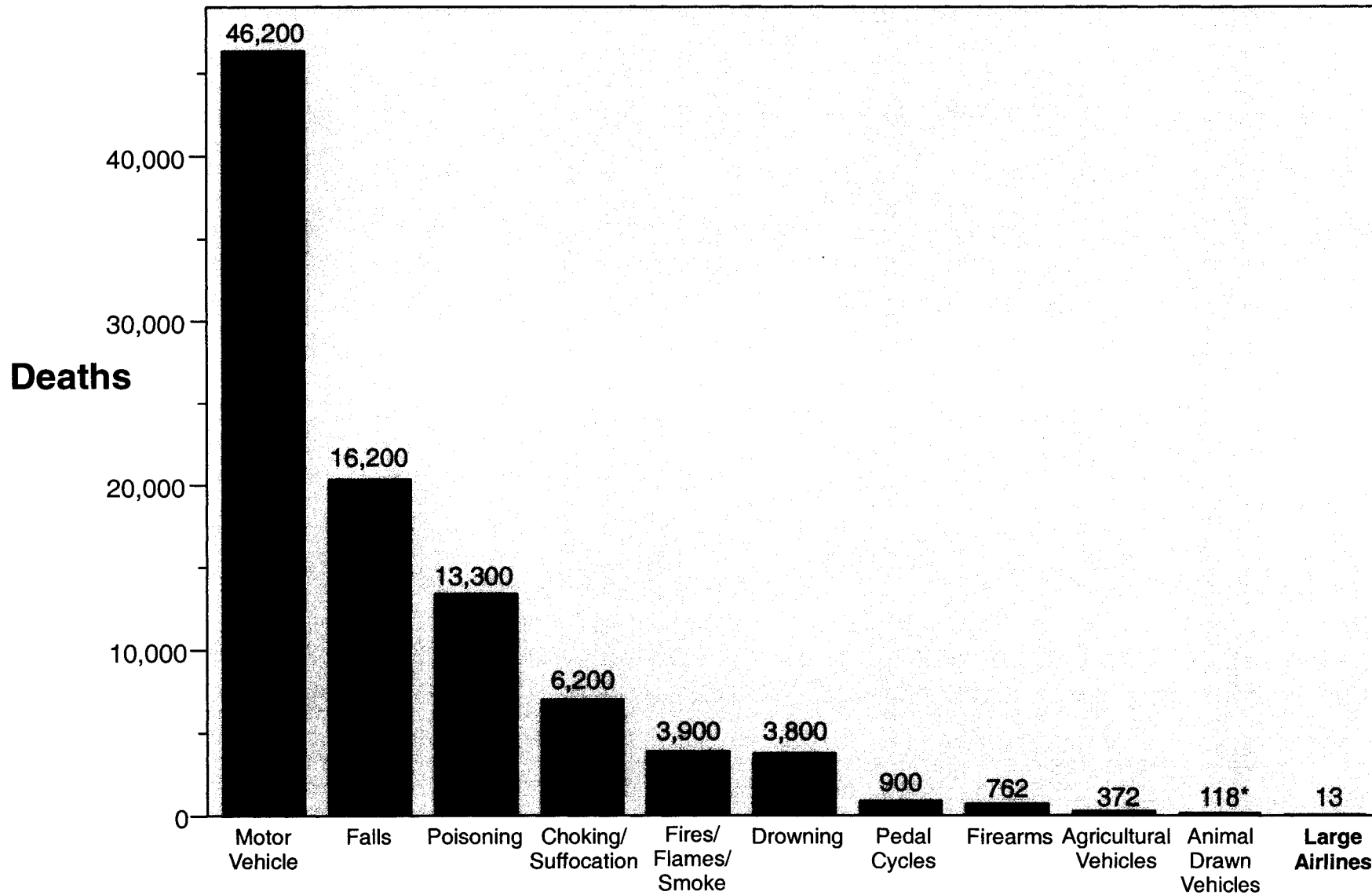
 Blue Panorama  
airlines \*

\* Leasing

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Figure 2  
**U.S. Accident Deaths**  
*2004*

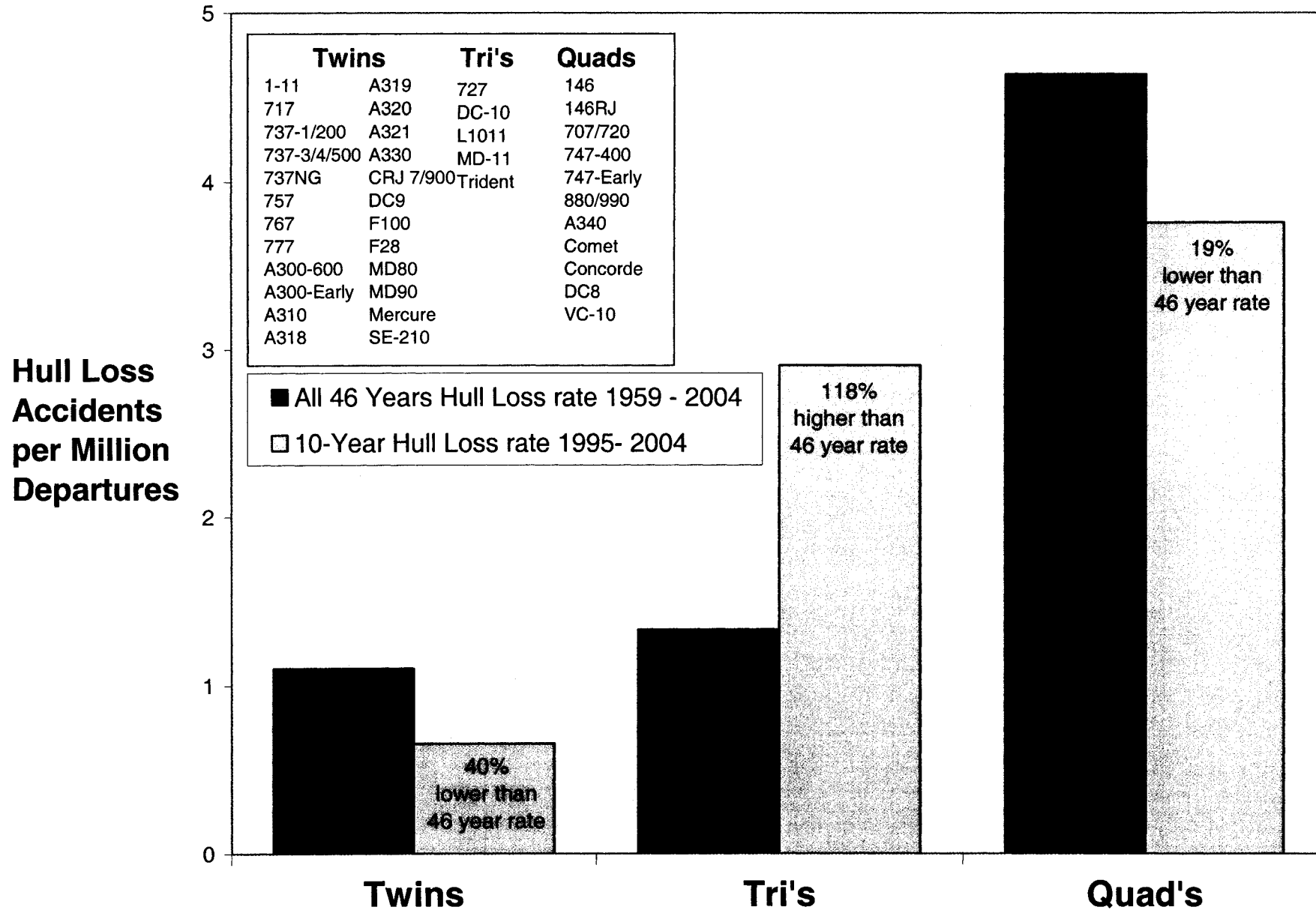


Source: *Injury Facts 2005-2006 Edition*, National Safety Council  
\* 2002 data is latest available in these categories.

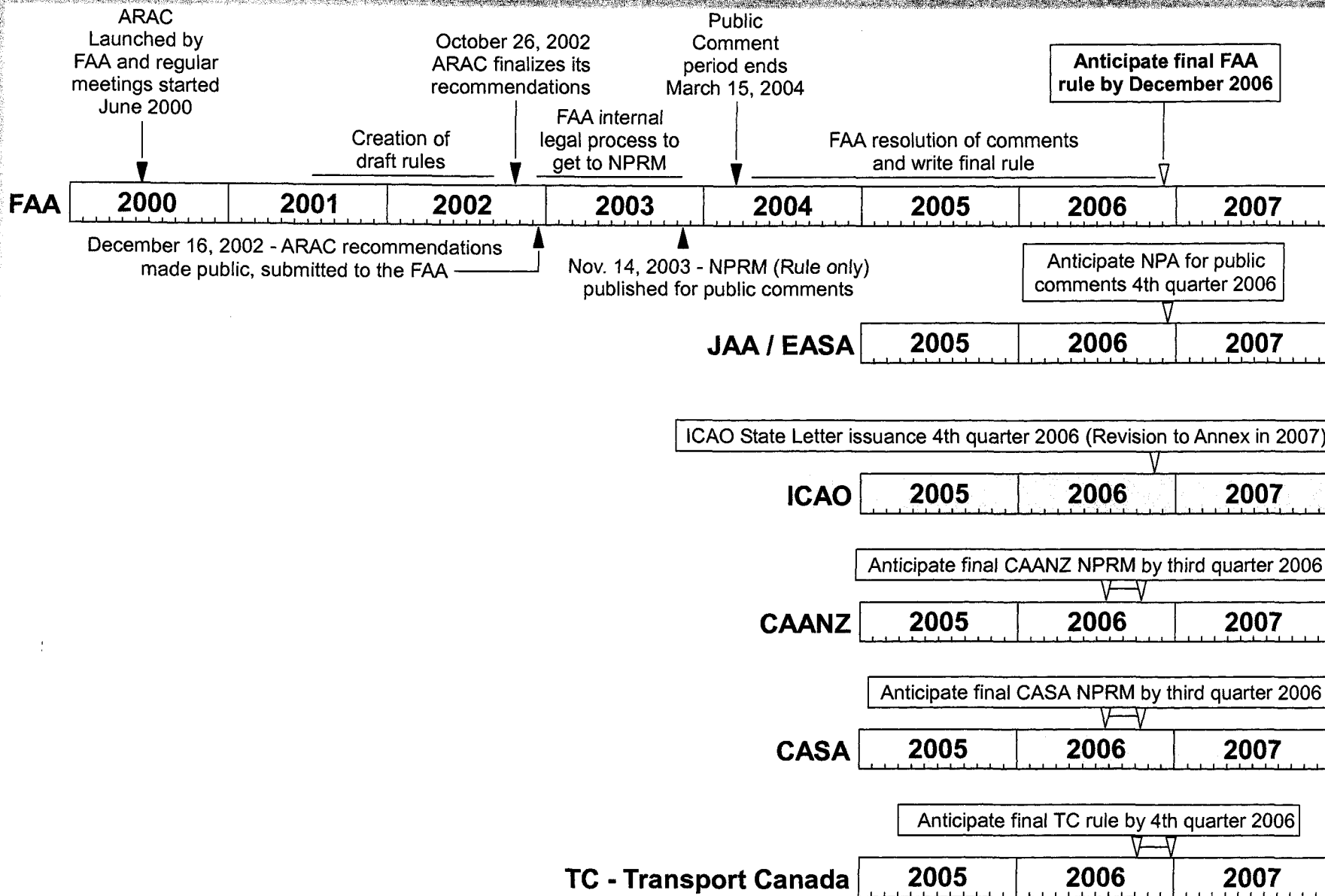
Figure 4

## Twins Have Both the Lowest & the Most Improved Accident Rate

### *Hull Loss Accident Rates*



# New Rules - Extended Operations (ETOPS) Time Line



Boeing looks forward to updated regulations

