Traffic Forecast for 20 Years Resulting Challenges for Airports Potential Solutions AIRNETH, The Hague – 12th of April 2007

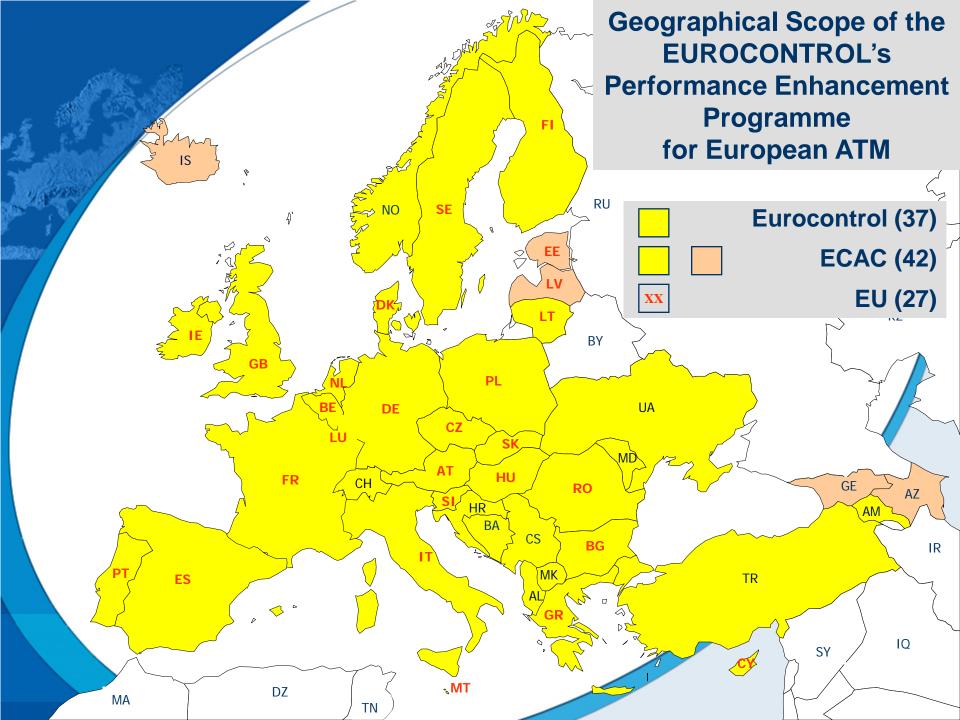
EUROCONTROL

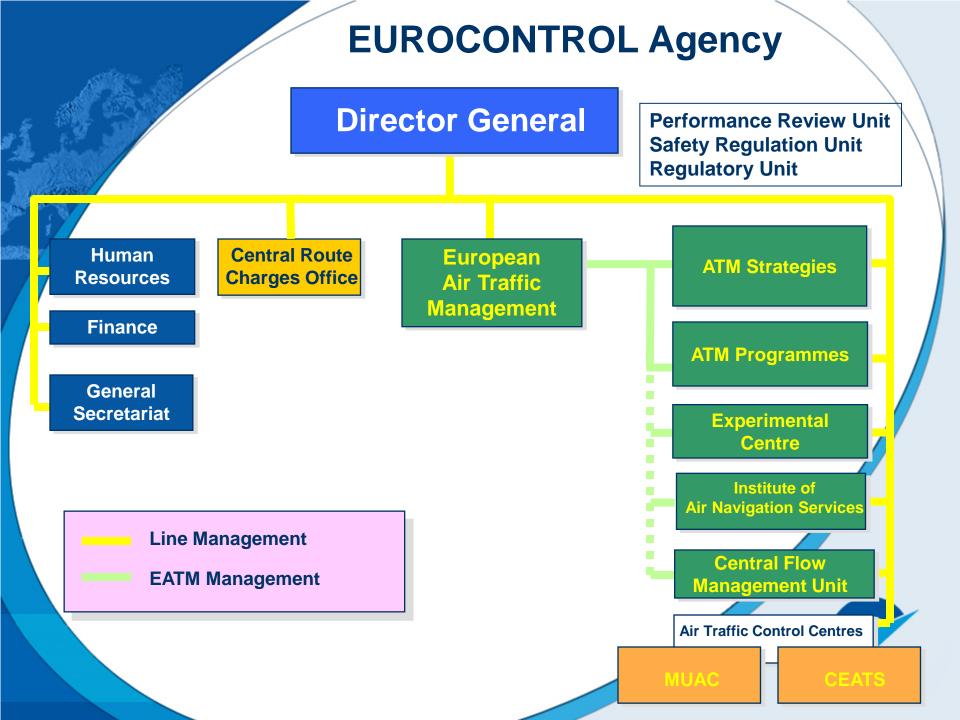
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www.eurocontrol.int/airports







EUROCONTROL Agency Core Business

- Support to Single European Sky regulation
- Management of pan-European, or multi-national or national harmonisation programmes, including support to implementation
- Central Flow Management
- Research & Development
- Collection of Route Charges on behalf of Member States and through bilateral agreements with non-Member States
- Provision of Air Traffic Services
- Management of an international (4 States) ATC Centre
- Development of an international (8 States) ATC Centre
- Provision of training, education and knowledge transfer in Air Navigation Services inside and outside Europe



Introduction to ATM in Europe

- 10,785,000 km2 of airspace
- Civil and military airspace users
- > 70 Air Traffic Control Centres
- ➤ With a total of 18,600 Controllers
- Handling 29,000+ flights on peak days
- Across 42+ states
- Up to 4,000 flights in the air at peak times
- Central high density area
- High proportion of climbing and descending traffic
- 36,000 flight plan messages filed each day





Single European Sky

- Airspace management based on traffic flows, not on political borders
- Single institutional framework to prepare, agree and implement common standards and procedures ==>
 Independent regulator at European level
- Uniform air navigation system across 42+ States ==>
 Gate to gate interoperability SESAR
- ➤ Incentivisation of the provision of Air Navigation Services



Strategic Steps towards SES Implementation

1990

En-Route Strategy for the '90s

EATCHIP

2000 ATM Strategy for 2000+

EATT



Single European Sky & SESAR

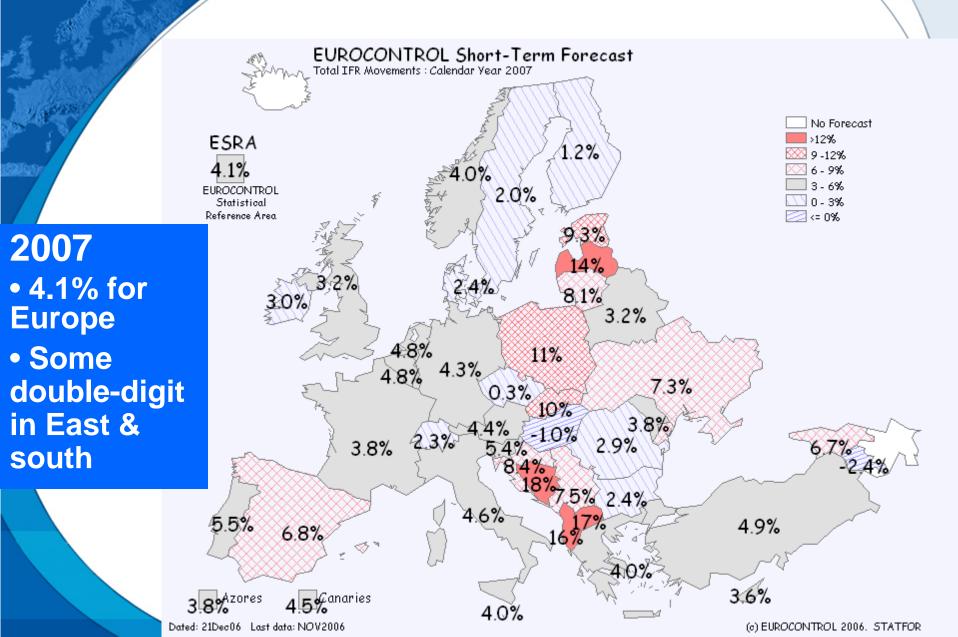


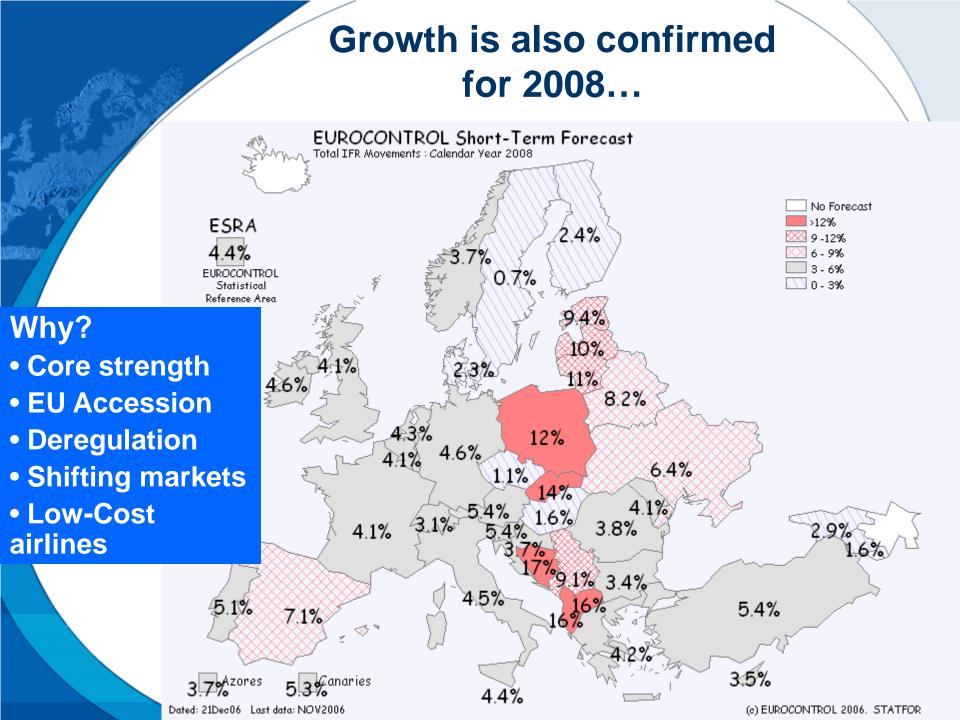


Traffic Forecast for 20 years

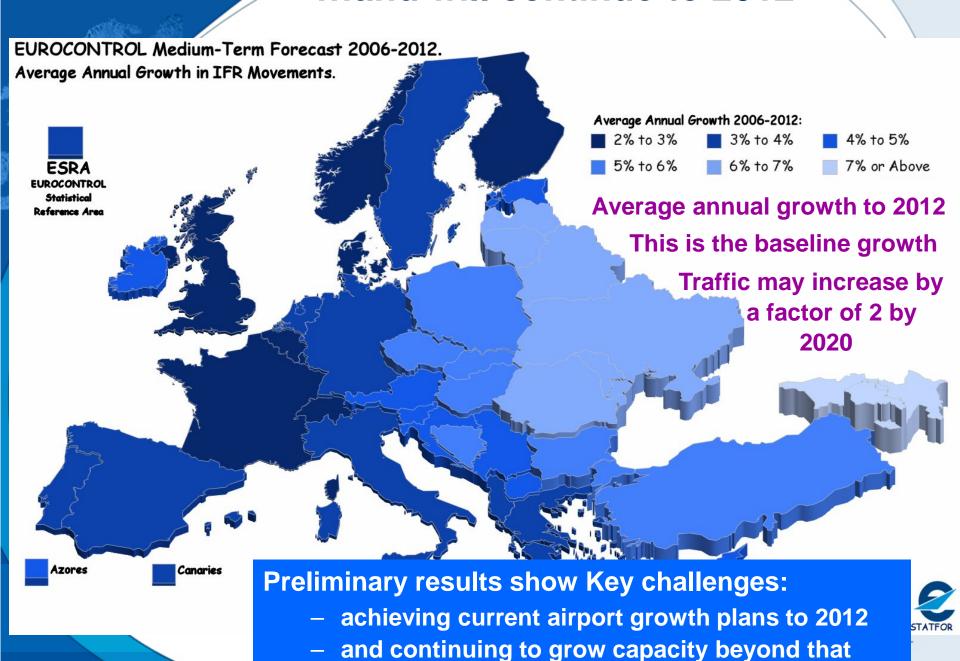


Growth is confirmed for 2007...





...and will continue to 2012



Oslo: 4251 movements/day faster growth than average

Movements per day more in 2012 than today

Growth of IFR Movements at Airports

Additional movements per day 2012 v 2005

+249 montements/day

faster growth than average

Amsterdam:

+124 movements/day

Stockholm: +212 movements/day faster growth than average

Brussels:

These figures assume no airport capacity constraints.

Copenhagen:

+244 movements/day faster growth than average

Prague:

483 movements/cay faster growth than average

Paris CDG: +124 movements/day Paris Orly⊖ +36 movements/day~

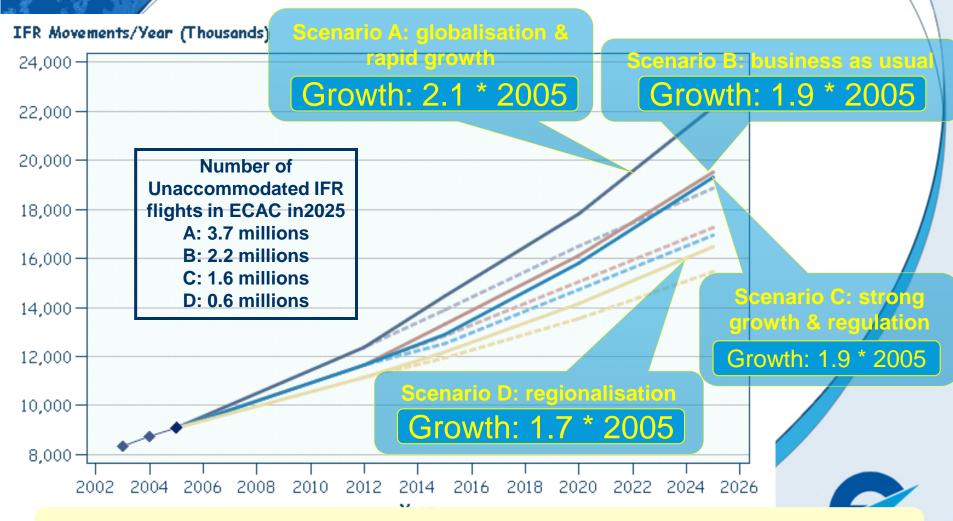
Frankfurt: +145 movements/day

Madrid:
-676 movements/day
faster growth than

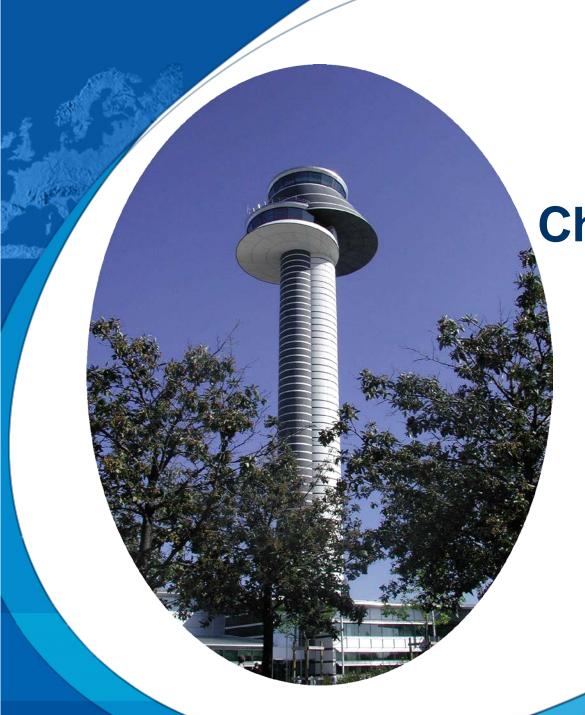
Crowth than
100 movements/day more in 2012 than in 2005
Payor is is green compared to show airports more clearly.
Minimum change displayed = 50 movements/day.

+350 movements/day faster growth than average +562 movements/day faster growth than average





Highest figures assume no airport capacity constraints.



Resulting
Challenges for
Airports

&

Potential Solutions



What Challenge?

- Normal traffic growth scenario traffic could grow by a factor of e2sby 22 frea
- Airports have capacity for 60% growth (latent capacity)
- ➤ Even if all latent capacity realised, over 3 million flights are still not accommodated

Challenges Vs Solutions

Apparent Lack of capacity

Safety Issues

Today's Challenges Increasing proportion
Of airport ATM
Related delays

Queuing

Solutions

Tuel Dulli

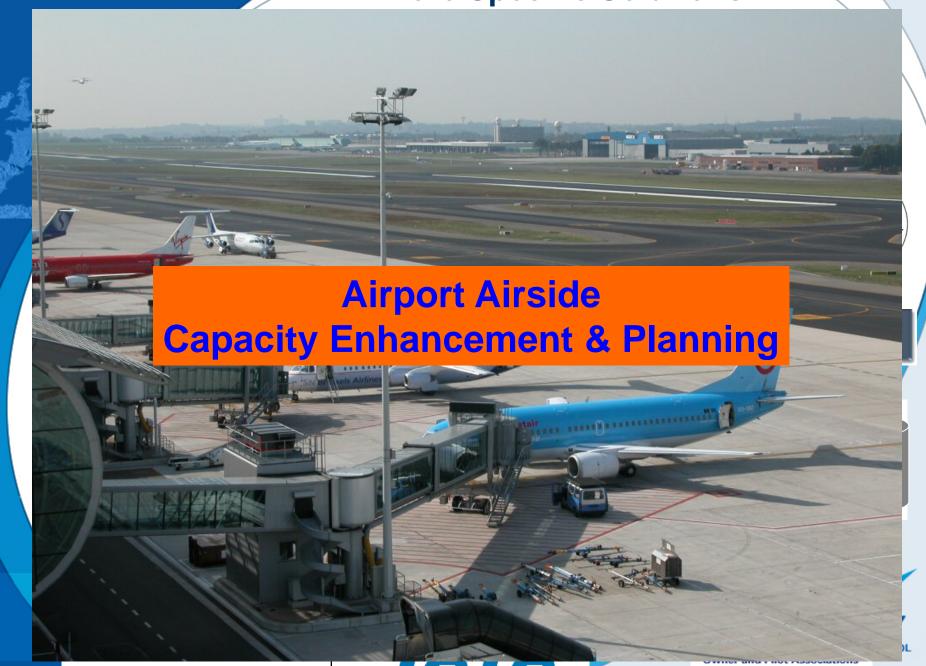
Do Have Intrastructure

Environmental concerns





More Specific Solutions





























implementation



A-SMGCS future core of efficient airport operations



• Capaqity - assessment / anhansement - Progue - movements/hour over 2.5 years, Brussels 14-17% unlock ஒடு அழு அத்தி இர delay reductions), Lisbon assist to increase from 36-40 movements (heater predictability

• Delay redDetaynedant bysing lead leasons for delays, implementing delay reduction solutions

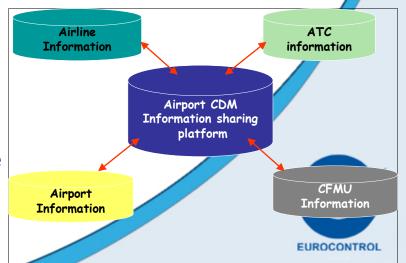
Reduced ivel consumption



13 airports will soon implement A-CDM

More implementations are expected under the "support to DMEAN activities" which take







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The Hague, 12th of April 2007



Time for Some Questions?

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