

# **GETTING THE BALANCE RIGHT**



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# THE GROWTH IN AIR TRAVEL



- 1903 The Wright brothers
- 1914-1945 Two world wars
- 1950 Air travel for the affluent
- 1975 B747 –affordable air travel
  
- 2000 Climate change measurable
- Airports constrained by noise.

# **SOME IMPACTS UPON SOCIETY**



- The global economy
- Trading patterns
- Multinational companies
- Mobility of employment
- Leisure industry
- Cultural diversity
- Universities/ research collaboration
- Consumer choice
- European Community
- Social Inclusion
- Social and family network

# ECONOMIC IMPACTS




- Transport and Development (SACTRA)
- Economic benefits – T5, R/2, OEF, others.
- Some have questioned assumptions or magnitude of benefits (e.g. IPPR).
- The economic impacts are very significant.

# REGIONAL IMPACTS



- Support for local and regional development.
- Regional competition for investment in Global economy.
- The need for regional air route networks.
- The benefits of regional aviation gateways.
- The problems of interlining through other hubs.

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- Aviation therefore plays a critical role in modern society.
  - Regions needs extensive route networks to link to the global economy.
  - The benefits of air transport industry are significant and growing.
  - However so too are the costs.

# ENVIRONMENTAL IMPACTS GLOBAL



- 3-5% of GHG emissions ( > 12%).
- IPCC indicates this will continue to grow.
- Kyoto seeking reductions in emissions.
- Kyoto - 20% - 8%      Aviation +150%
- Ability of sectors to reduce emissions.
- Consequences of constraining growth ?

# ENVIRONMENTAL IMPACTS LOCAL



- Aircraft noise
- Local air quality
- Road traffic congestion
- Vortex damage
- 3<sup>rd</sup> party risk
- Habitat losses / urbanisation

# ENVIRONMENTAL IMPACTS

## NOISE



- The single most important issue to opponents of airport development.
- Sensitivity to noise is increasing.
- Noise exposure (400,000 57 LAeq) will increase again in future.
- This trend is unsustainable.

# Implications of noise disturbance



- Increasing disturbance.
- Significant investment in mitigation.
- Constraints to development of regional air transport systems
- Regions fail to secure social and economic benefits of aviation.

# THE BRUNDTLAND REPORT



- Development that meets the needs of the present generation without compromising the ability of future generations to meet their own needs.

# THE NATURAL STEP



- A sustainable society is one in which nature is not subject to systematically increasing .....
  - Concentrations of substances extracted from the earth's crust.
  - Concentrations of substances produced by society
  - Degradation by physical means
- and that .....
  - Human needs are met worldwide.

# DETR



- Sustainable development ensures :
- Maintenance of high and stable levels of economic growth and employment.
- Social progress which recognises the needs of everyone.
- Effective protection of the environment
- Prudent use of natural resources

# SUSTAINABLE DEVELOPMENT



- Variety of definitions.
- Government definitions seek to balance the costs and benefits of air transport to society
- Assess not only environmental and economic impacts but also wider social implications of decisions.

# THE FUTURE



- Aviation will play an increasingly important role in development of UK.
- Development of global society.
- Expansion of EU towards the east.
  
- Demand will continue to increase.
- Environmental impacts will continue to increase.
- Sensitivity to environmental impacts will increase.
  
- Environmental issues will become the single most significant constraint to aviation growth.

# How to get the balance right ?



- Climate change –
  - - constrain growth in aviation to balance technological development or find GHG savings in other sectors better placed to make change ?
  - - this is a major challenge for government given its commitments to Kyoto and given that benefits of growth accrue now but costs carried by future generations.

# How to get the balance right ?



- Aircraft noise disturbance –
  - RASCO – 400,000 in 57Leq contour – onset of significant community annoyance.
  - These numbers will increase around many airports causing increasing community disturbance.
  - How to find the correct balance between the disbenefits of airport development to local residents and region wide social and economic benefits ?

# Minimise the adverse environmental impacts



- - technological / operational improvements
- - operational improvements
- - infrastructure developments
- - integrated transport systems
- - most appropriate transport mode for task
- - action to reduce need to travel
- - alternative ways of delivering the service

# Maximise the benefits



- Maximise the social and economics benefits of airport development.
- Direct those benefits to :
  - - areas worst affected by the airport.
  - - areas of greatest need.
  - - areas where greatest benefit would accrue.

# The role of Airport Consultative Committees



- To help identify the costs and benefits of the airports growth and operation to different stakeholders.
- To facilitate dialogue between stakeholders about how local need for economic and social development can be best met whilst protecting local people.
- To act as a pressure group where the airport does not appear to be taking account of stakeholder needs.
- Thereby help airports get the balance right.