



AIRPORT ENVIRONMENTAL MANAGEMENT

04-08 October 2015

Abu Dhabi, UAE

Module 6: Collaborative Environmental Management

Module objective

- To highlight the particular challenges faced by multiple occupancy sites like airports

Variety of impacts

- Noise
- Local air quality
- CO₂ emissions
- Resources
- Wastes management
- Ground, surface water, soil contamination
- Habitat and bio-diversity impacts

Many airport service partners

- Airport operator
- Airlines
- ANSP (air navigation service provider)
- Apron and cargo handling
- Engineering and maintenance
- Airport retail and catering
- Ground transport providers

Exercise: EMS and airport service partners

- Using the template provided, identify the service partners that have a major influence upon different airport environmental impacts
- Provide a brief explanation for the range of service partners influencing different environmental impacts

Exercise: EMS and airport service partners

	Airport	Airline	ANSP	Ground Handling	Retail and Catering	Engineer & Maintain	Ground Transport Providers
CO ₂							
Noise							
Air quality							
Utilities							
Wastes							
Ecology							

Impacts and service partners

	Airport	Airline	ANSP	Ground Handling	Retail and Catering	Engineer & Maintain	Ground Transport Providers
CO ₂	X	X	X	x	X	x	X
Noise	X	X	X	x			
Air quality	X	X	X	X	x	x	X
Utilities	X	X	x	x	X	x	x
Wastes	X	X	x	x	X	x	x
Ecology	X						X

Drivers for site-wide approach

- Legal – landlord
- Capacity
- Most cost-efficient
- Most eco-efficient
- Sustainable development of site
- Airport viewed as responsible authority
- Airport developer of infrastructure

Service partner challenge

- Tens or hundreds of companies on site.
- Small / local or multi-national.
- Local office or international office
- Local control or subject to corporate policy
- Different CSR (corporate social responsibility) objectives

Aircraft noise

	Airport	Airline	ANSP	Ground Handling
Policy / Strategy	X			
Target Setting	X	X	X	
Assessment / Monitoring	X			
Mitigation / compensation/land use	X	X	X	
Aircraft type	X			
Infrastructure	X	X	X	
Operations	X	X	X	X

Collaboration and conflict – aircraft noise

- Airport - community / capacity
- ANSP – capacity / safety / operational flexibility
- Airline - capacity / cost / schedules

- Passengers – on-time operations.

Local air quality

	Airport	Airline	ANSP	Ground Handling	Ground Transport Providers
Policy / Strategy	X				
Target Setting	X	X	X		X
Assessment / Monitoring	X				
Infrastructure	X	X	X		X
Land Use Planning	X				
Operations	X	X	X	X	X

Carbon dioxide (CO₂) emissions

	Airport	Airline	ANSP	Ground Handling	Retail and Catering	Engineer & Maintain	Ground Transport Providers
Aircraft Operations	X	X	X	x			
Terminal energy	X	x			X		
Surface Access	X						X

Mechanisms for collaborative environmental management

- Tenant / concessionaire compliance audit procedure
- Other procedures to manage specific airport activities
- Controls for organisations 'visiting' the airport to carry out their activities
- Amendments to tenancy and contract agreements
- Charging and fining schemes
- Training and awareness requirements
- Collaborative working groups

Examples of collaborative environmental management

- Heathrow's Sustainability Partnership

<http://www.heathrow.com/company/community-and-environment/responsible-heathrow/heathrow-sustainability-partnership>

Heathrow Sustainability Partnership

With 320 companies employing 76,500 people, running Heathrow has similar challenges to a small city. The actions and behaviours of all companies based at Heathrow determine the airports' ability to operate responsibly.

The Heathrow Sustainability Partnership is a group of companies representing all sectors at the airport, from airlines and ground handlers to construction companies and retailers, all working hard to improve Heathrow's sustainability performance.

Led by a Board made up of the Chief Executives of 13 companies operating at Heathrow, the Partnership shares challenges to achieve long term improvements by focussing on three main issues;

Transport: travel to and from the airport, operating vehicles within the airport and aircraft landing, taking-off and on the ground

Resources: energy use, waste generation and building design

People: employment and skills, local procurement, community investment.

We know we can't achieve sustainability overnight, but we can set out to make our performance tomorrow better than our performance today and we are already making changes. Even small ideas can add up to make a big difference. We are confident that we can achieve more together than we can individually.

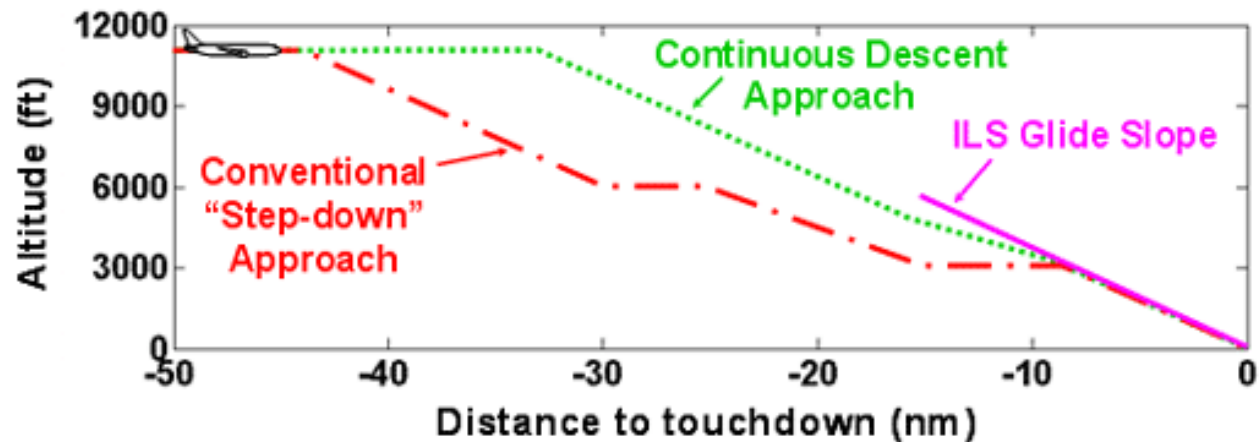
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If you would like to know more about the Heathrow Sustainability Partnership please contact sustainability@heathrow.com.



Examples of collaborative environmental management

- Continuous descent operations (CDOs)
 - Airport operator
 - ANSP
 - Airlines, pilots



<http://www.eurocontrol.int/services/continuous-descent-operations>

Any questions?