CARBON FOOTPRINT Malta International Airport



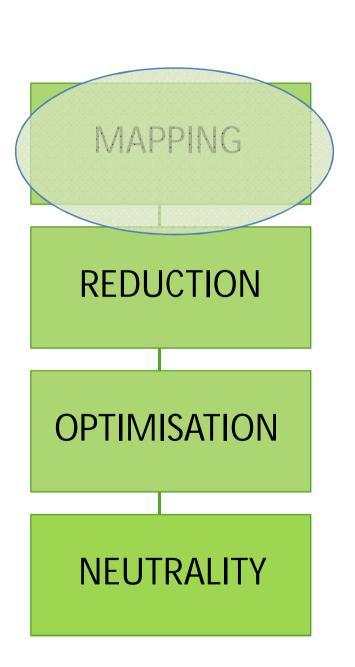
D-AIR is an EU funded project where local governments together with airport operators work on converting airports into ecological and sustainable transport hubs, helping to reduce CO2 emissions. D-AIR is founded in part by Interreg IVC through the European Regional Development Fund (ERDF).

Scope of Assignment

- A base line estimation of the carbon emissions established for the carbon footprint of the MIA, its environs, its activities as well as the ancillary activities related to its operations
- An action plan to render airport operations cleaner and as carbon neutral as possible
- A proposed plan recommending how Maltese citizens and foreigners can be persuaded to make more use of public transport connections to and from the airport rather than use of private transport

Outline of Methodology

- Airport Carbon Accreditation
- Defining the Boundary
- Identification of Stakeholders
- Identification of carbon emitting sources
- Conclusion





Recognises and accredits the efforts of airports to manage and reduce their carbon emissions

http://www.airportcarbonaccreditation.org

ACI Europe Accreditation scheme

• 77 European airports accredited, between them account for 58% of Europe's air traffic

Mapping 29 Airports with 12.7% of European passenger traffic	Reduction 21 Airports with 12.9% of European passenger traffic	Optimisation 13 airports with 27.6% of European passenger traffic	Neutrality 14 airports with 5.3% of European passenger traffic
Albania Tirana	Czech Republic Prague	Belgium Brussels	Italy Milan Linate Milan Malpensa
Austria Vienna	Finland Enontekiö Airport Ivalo Airport	France Paris Charles de Gaulle Paris Orly	Norway Trondheim
Croatia Dubrovnik Zagreb	Kemi-Tornio Airport Kittilä Airport Kuusamo Airport	Germany Frankfurt	Oslo Sweden
Estonia Tallinn	Rovaniemi Airport Vantaa	Munich Italy	Stockholm-Arlanda Airport Stockholm-Bromma Airport Umea Airport
France	France Nice	Rome Fiumicino	Göteborg Landvetter Airport Malmö Airport
Toulouse Blagnac Lyon	Paris le Bourget	Netherlands Amsterdam	Åre Östersund Airport Lulea Airport
Germany	Germany Dusseldorf	Switzerland	Ronneby Airport Visby Airport
Cologne/Bonn	Hamburg	Geneva Zurich	Kiruna Airport
Hungary Budapest	Greece Athens	Turkey Antalya	
Italy Rome Ciampino	Ireland Cork Dublin	United Kingdom London Heathrow	
Poland Warsaw Chopin	Shannon	Manchester Farnborough	
Portugal Faro	Italy Bologna		
Flores Horta Lisbon	Netherlands Eindhoven		
Porto Punto Delgrade Santa Maria	Norway Kristiansand		

GHG Protocol

- **Direct emissions** come from sources that are owned or controlled by the reporting entity.
- Indirect emissions are a consequence of the activities of the reporting entity, but occur at sources owned or controlled by another entity.

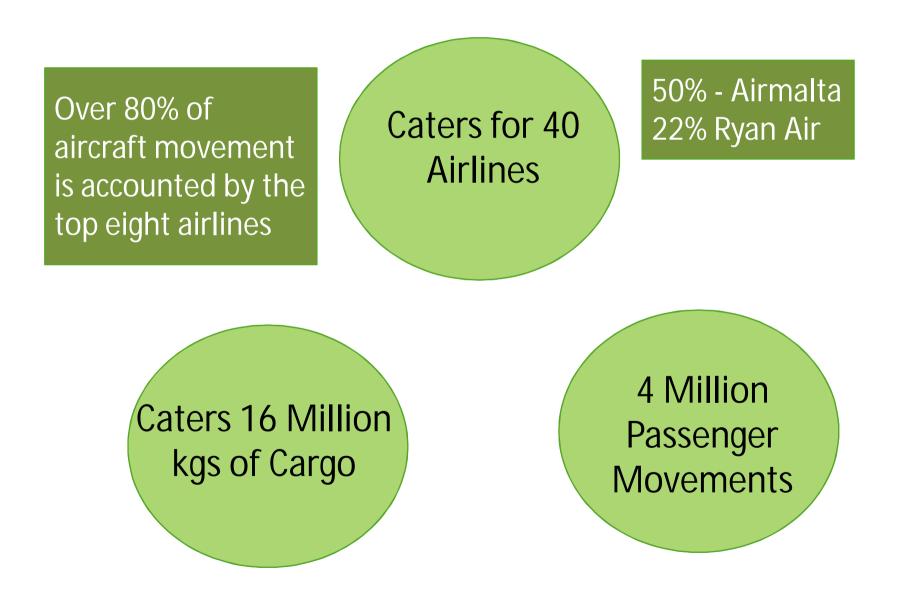
Emission Scopes

Scope 1: All direct GHG emissions **Scope 2:** Indirect GHG emissions from consumption of purchased electricity, heat or steam

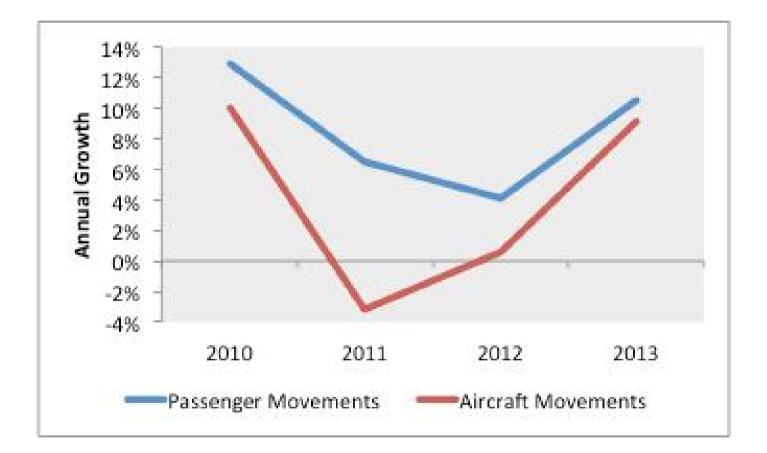
Scope 3: Other indirect emissions, such as:

- The extraction, production and transport of purchased materials and fuels
- Transport-related activities in vehicles not owned or controlled by the reporting entity
- Outsourced activities

Malta International Airport (2013)



Malta International Airport

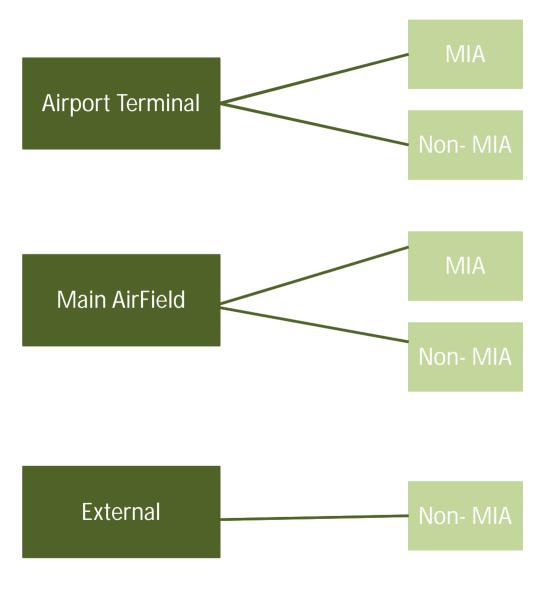


Malta International Airport



IDENTIFICATION OF STAKEHOLDERS

Identification of Stakeholders



Identification of Stakeholders

The Airport Terminal Building MIA: MIA's own offices at Level 2 Other Tenants: Various retail outlets, catering establishments and offices

The airfield

MIA is responsible for airfield operations related to flights such as the control tower, airfield lighting, security, fire and rescue services, etc.

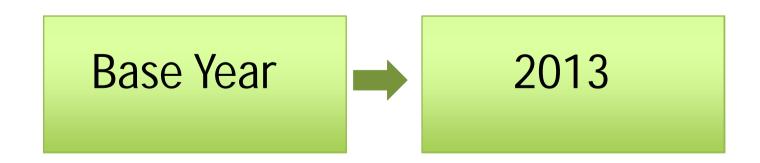
Other Tenants: Flying Schools, Hangars, Customs, Fuel Supplier, etc.

External Skyparks and retail Aircraft Maintenance Firms Aircraft Catering

CARBON EMITTING ACTIVITY

Collection of Data

- Water and Electricity Bills
- Fuel Bills
- Gas
- Number of employees
- Passenger movement
- Aircraft movements
- Frequency of public transport

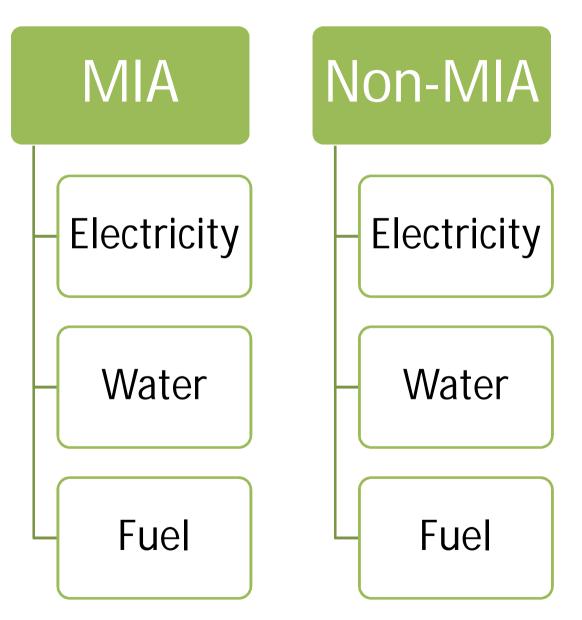


Stakeholder Meetings

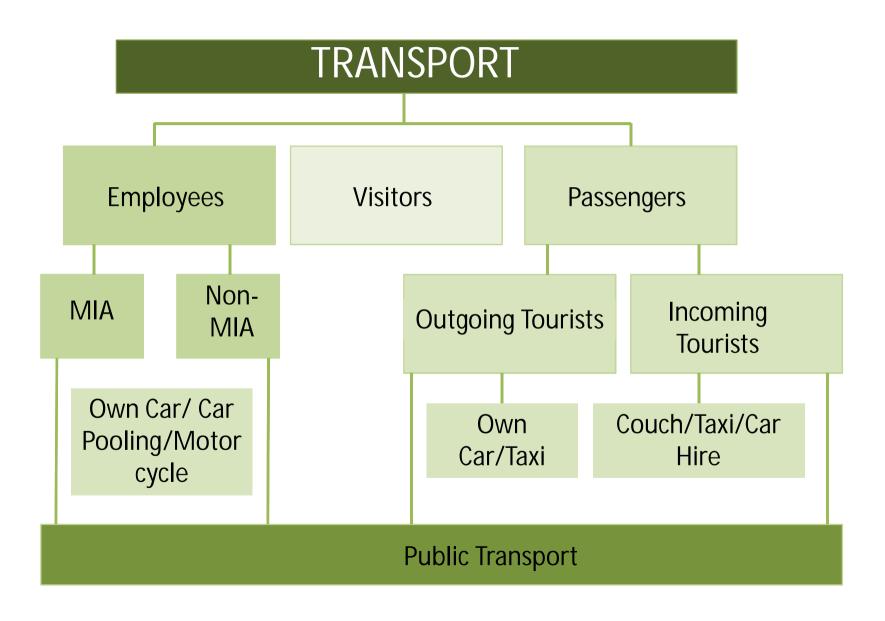
- Malta International Airport
- SkyParks
- AirMalta
- Lufthansa Technic Malta
- Medavia
- SR Technics
- Sky Gourmet
- Enemalta
- GlobeGround Malta
- World Aviation Services



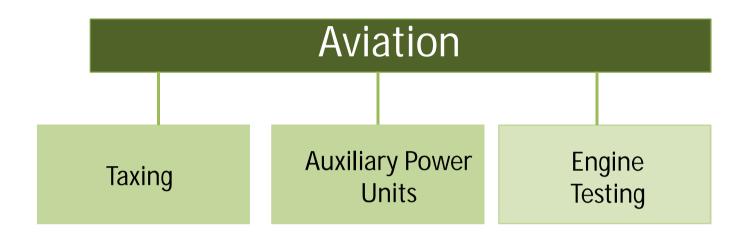
Estimation of Emissions



Estimation of Emissions



Estimation of Emissions



Conclusion

- The methodology allows us to identify the activities which emit the most CO₂e emissions
- Nature of activities allows us to determine whether and to what extent the activities can be addressed to reduce carbon emissions.