

**Chapter 3 -Initiation phase**  
**Attachment 3.6**

## A-CDM Cost-Benefit Analysis Template

This template provides a simplified structure for conducting a cost-benefit analysis for A-CDM implementation, particularly suited to airports in the AFI region.

### 1. Key Assumptions

Parameter	Value
Annual passenger throughput	[Insert number per million]
Average aircraft movements/year	[Insert Number]
Fuel cost per liter	[Insert Value in USD]
Average delay encountered per flight	[Insert Minutes]
Number of stakeholders	[Insert Number]
Cost of extended turnaround time	[Insert value in USD]
Existing systems for information sharing with Stakeholders	[Available/Partial/Not Available]

### 2. Cost Estimate

Item	Year 1 (USD)	Year 2 (USD)	Year 3 (USD)	Notes
Software and IT Infrastructure				A-CDM platform setup & integration
Training and Capacity Building				Workshops, stakeholder sessions
Stakeholder Coordination Mechanism				Coordination body, governance
Data Integration and Security Systems				Cybersecurity, real-time dashboards
Maintenance and Support				Technical & operational support
<b>Total Costs</b>				

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**3. Benefits Estimate**

Benefit	Annual Value (USD)	Notes
Fuel savings from reduced taxi times		Based on delay reduction and fuel burn rate
Reduced CO2 emissions (valued)		Monetized using carbon price
Improved on-time performance		Quantified as cost savings for airlines
Operational efficiency gains		Staff time, turnaround time improvements
Capacity to handle more flights		Based on improved resource use
Total Benefits		

**4. ROI and Payback Period**

Net Present Value (NPV)	[Insert Calculation]
Internal Rate of Return (IRR)	[Insert Calculation]
Payback Period	[Insert Years]

**5. Sensitivity Analysis**

Scenario	Assumption Change	Impact on ROI
Fuel price increases	+10%	[Insert % change]
Delays reduced more than expected	+2 mins/flight	[Insert % change]
Stakeholder participation limited	50% engagement	[Insert % change]

This template can be used to build a dynamic Excel-based model for airport management and regulators to make data-driven decisions on A-CDM investments.