



ICAO

# INTERNATIONAL CIVIL AVIATION ORGANIZATION

A UN SPECIALIZED AGENCY



# ACB Workshop Overview

## Agenda

- Cost-benefit analysis (ACB) – MCAAP Project;
- ACB Workshop Agenda;
- Subject Matter Expert (SME); and
- Other relevant matters.



01

Cost-benefit  
analysis (ACB)  
– MCAAP  
Project



# MCAAP Project

## Cost-benefit analysis (ACB)

**Justification:** It was identified at the Second CAR Workshop for the Implementation of the CAR/SAM Air Navigation Plan Volume III, of February 2024, that the greatest deficiency of States in the development of the Regional Air Navigation Plan, Vol III, is in the cost-benefit methodology. For this reason, the Workshop on strategic planning focused on air navigation and airports, including guidance for decision-making based on cost-benefit analysis, was programmed to end of 2024.



**Title:** Development of regional guidance material for support States in the cost-benefit analysis process within the GNAP six-step methodology, for the preparation of VOL III of the Regional Air Navigation Plan.



**Activity:** Develop regional guidance material for support States in the cost-benefit analysis in air navigation planning and conduct a Workshop to capacity building of States in the CAR Region.



**Outcomes:** Regional guidance material for support States in the cost-benefit analysis in air navigation planning and a Workshop about this guidance.



**Follow-up actions:** Monitoring the CAR/SAM eANP VOL III update process with the States by GREPECAS.

02  
ACB  
Workshop  
Agenda



**DAY ONE / DÍA UNO**  
*Tuesday 17 September 2024 / Martes 17 de septiembre de 2024*

08:30 – 09:00	Registration / Registro
09:00 – 09:30	<p>Opening Ceremony / Ceremonia de Apertura</p> <p>Remarks by / Palabras de apertura de</p> <ul style="list-style-type: none"> <li>• <i>Mr. Christopher Barks, ICAO NACC Regional Director, International Civil Aviation Organization – ICAO</i>  <i>Sr. Christopher Barks, Director Regional NACC de la OACI, Organización de Aviación Civil Internacional – OACI</i></li> </ul>
<i>Group Picture / Foto de Grupo</i>	
<i>Seminar module topics / Temas de los módulos del Seminario:</i>	
09:30 – 10:50	<ul style="list-style-type: none"> <li>• <i>Workshop Overview, Mrs. Fabiana Todesco, Regional Officer, Aerodromes and Ground Aids (AGA)</i>  <i>Perspectiva General del Taller, Sra. Fabiana Todesco, Especialista Regional en Aeródromos y Ayudas Terrestres (AGA)</i></li> <li>• <i>Presentación de participantes y ronda de intercambio de antecedentes, Participantes</i></li> </ul>
11:30 – 13:00	<ul style="list-style-type: none"> <li>• <i>Distinctions between financial and economic analysis and introduction to economic project and regulatory appraisal.</i>  <i>Mr. Daniel Thá, Economist</i>  <i>Distinciones entre análisis financiero y económico e introducción al proyecto económico y evaluación regulatoria</i>  <i>Sr. Daniel Thá, Economista</i></li> </ul>

DAY ONE / DÍA UNO Tuesday 17 September 2024 / Martes 17 de septiembre de 2024	
14:00 – 16:00	<ul style="list-style-type: none"> <li>• <i>Define project contexts, identify decision-making issues and identify objectives and indicators for air navigation projects, Group exercise</i> Mr. Daniel Thá, Economist/ Antonio Marcos Oliveira, Engineer <i>Definir contextos de proyectos, identificar cuestiones de toma de decisiones e identificar objetivos e indicadores para proyectos de navegación aérea. Ejercicio de grupo.</i></li> <li>• <i>Case studies on Cost-Benefit Analysis with an emphasis on air navigation.</i> Sr. Daniel Thá, Economista / Antonio Marcos Oliveira, Ingeniero <i>Casos de estudio sobre el Análisis de Costo-Beneficio con énfasis en navegación aérea</i></li> </ul>

DAY TWO / DÍA DOS Wednesday 18 September 2024 / Miércoles 18 de septiembre de 2024	
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Seminar module topics / Temas de los módulos del Seminario: (Cont'd)	
08:30 – 09:30	<ul style="list-style-type: none"> <li>• <i>Fundamental concepts of a socioeconomic evaluation (objectives, baseline scenario and project scenario, self-sufficient unit of analysis, strategic alternatives, timeframes).</i> Mr. Daniel Thá, Economist <i>Conceptos fundamentales de una evaluación socioeconómica (objetivos, escenario base y escenario del proyecto, unidad de análisis autosuficiente, alternativas estratégicas, plazos)</i> Sr. Daniel Thá, Economista</li> </ul>
09:30 – 10:30	<ul style="list-style-type: none"> <li>• <i>Discussion on stylized 'case studies' to be progressively developed, Group exercise</i> Mr. Daniel Thá, Economist / Mr. Antonio Marcos Oliveira, Engineer <i>Discusión sobre 'casos de estudio' a ser desarrollados de manera progresiva, Ejercicio de grupo</i> Sr. Daniel Thá, Economista / Sr. Anotonio Oliveira, Ingeniero</li> </ul>
11:00 – 13:00	<ul style="list-style-type: none"> <li>• <i>Identifying relevant costs, benefits, and impact categories for CBA.</i> Mr. Daniel Thá, Economist <i>Identificar costos, beneficios y categorías de impacto relevantes para el CBA</i> Sr. Daniel Thá, Economista</li> </ul>
14:00 – 16:00	<ul style="list-style-type: none"> <li>• <i>Data gathering, boundary setting, imperfect information and risk.</i> Mr. Daniel Thá, Economist <i>Recopilación de datos, establecimiento de límites, información imperfecta y riesgo.</i></li> <li>• <i>Estimates of social costs (market price distortions and conversion factors).</i> <i>Estimaciones de costos sociales (distorsiones de precios de mercado y factores de conversión).</i> Sr. Daniel Thá, Economist</li> </ul>

*Seminar module topics / Temas de los módulos del Seminario: (Cont'd)*

08:30 – 09:30	<ul style="list-style-type: none"> <li>• <i>Cost estimation roadmap for the stylized 'case studies', Collaborative exercise. Mr. Daniel Thá, Economist / Antonio Marcos Oliveira, Engineer Hoja de ruta de estimación de costos para los 'casos de estudio' estilizados, Ejercicio colaborativo Sr. Daniel Thá, Economista / Antonio Marcos Oliveira, Ingeniero</i></li> </ul>
09:30 – 10:30	<ul style="list-style-type: none"> <li>• <i>Estimates of social benefits and externalities (non-market valuation). Mr. Daniel Thá, Economist Estimaciones de beneficios sociales y externalidades (valoración no de mercado)</i></li> <li>• <i>Sr. Daniel Thá, Economista</i></li> </ul>
11:00 – 13:00	<ul style="list-style-type: none"> <li>• <i>Estimates of social benefits and externalities (non-market valuation). Mr. Daniel Thá, Economist Estimaciones de beneficios sociales y externalidades (valoración no de mercado) Sr. Daniel Thá, Economista</i></li> </ul>
14:00 – 14:30	<ul style="list-style-type: none"> <li>• <i>Estimates of social benefits and externalities (non-market valuation). Mr. Daniel Thá, Economist Estimaciones de beneficios sociales y externalidades (valoración no de mercado) Sr. Daniel Thá, Economista</i></li> </ul>
14:30 – 16:00	<ul style="list-style-type: none"> <li>• <i>Benefit estimation roadmap for the stylized 'case studies', Collaborative exercise. Mr. Daniel Thá, Economist/ Mr. Antonio Marcos Oliveira, Engineer Hoja de ruta de estimación de beneficios para los 'casos de estudio' estilizados, Ejercicio de grupo Sr. Daniel Thá, Economista / Sr. Antonio Marcos Oliveira, Ingeniero</i></li> </ul>



DAY FOUR / DÍA CUATRO  
Friday 20 September 2024 / Viernes 20 de septiembre de 2024

*Seminar module topics / Temas de los módulos del Seminario: (Cont'd)*

08:30 – 09:00	<ul style="list-style-type: none"> <li>• <i>Cost-benefit value flow, discounting, and socioeconomic viability indicators.</i> <i>Mr. Daniel Thá, Economist / Mr. Antonio Marcos Oliveira, Engineer</i> <i>Flujo de valor costo-beneficio, descuento e indicadores de viabilidad socioeconómica</i> <i>Sr. Daniel Thá, Economista / Sr. Antonio Marcos Oliveira, Ingeniero</i></li> </ul>
09:00 – 10:30	<ul style="list-style-type: none"> <li>• <i>Dealing with uncertainty and risk.</i> <i>Mr. Daniel Thá, Economist</i> <i>Cómo afrontar la incertidumbre y el riesgo</i> <i>Sr. Daniel Thá, Economista</i></li> </ul>
11:00 – 13:00	<ul style="list-style-type: none"> <li>• <i>Evolving risks (from climate change to terrorists).</i> <i>Mr. Daniel Thá, Economist</i> <i>Riesgos en evolución (desde el cambio climático hasta terrorismo)</i> <i>Sr. Daniel Thá, Economista</i></li> </ul>
14:00 – 15:30	<ul style="list-style-type: none"> <li>• <i>Risk analysis roadmap for the stylized 'case studies', Collaborative exercise.</i> <i>Mr. Daniel Thá, Economist/ Mr. Antonio Marcos Oliveira, Engineer</i> <i>Hoja de ruta de análisis de riesgos para los 'cosos de estudio' estilizados, ejercicio de grupo</i> <i>Sr. Daniel Thá, Economist/ Sr. Antonio Marcos Oliveira, Ingeniero</i></li> </ul>
15:30 – 16:00	<p><i>Closing</i> <i>Clausura</i></p>

03  
Subject  
Matter  
Expert (SME)





# Daniel Thá

## Economist

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Economist with a master's degree in Economics and Business from Erasmus University Rotterdam (2008) and a master's degree in Environment and Resource Management from Vrije Universiteit Amsterdam (2008). Currently a PhD candidate in Environmental Science and Technology at Universidade do Vale do Itajaí (2021-2025). Instructor of Cost-Benefit Analysis (CBA) at the National School of Public Administration - ENAP. Author of Annex II of the CBA Guide – Climate Risk, and co-author of the CBA Manual in Water Infrastructure and Sanitation. Consultant in the fields of environmental economics, planning, and socioeconomics through Kralingen Consulting, where he applies tools such as cost-benefit analysis (CBA), scenario analysis, multi-criteria analysis, and indicator development to assist governments, companies, and multilateral organizations in planning and decision-making processes. Experienced in Natural Resource Economics, with a focus on sanitation, water resources, land use planning, and climate change.



# Antonio Marcos Oliveira

## Electrical Engineer

Electrical Engineer with a master's degree in Air Navigation Management from the École nationale de l'aviation civile (2021). Employee of the National Civil Aviation Agency (ANAC) since 2007, responsible for the implementation of Slot Coordination in Brazil and for overseeing commercial flights during the 2014 FIFA World Cup and the Rio 2016 Olympic and Paralympic Games. Seconded to the National Civil Aviation Secretariat in 2018, where he was responsible for the development of the National Aviation Plan, equivalent to the National Plan of Integrated Airport Systems (NPIAS) in Brazil. The PAN uses Cost-Benefit Analysis (CBA) methodology to select the optimal airport network.

# Welcome and enjoy this event with us!



ICAO





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Thank You!

