



ICAO

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Quelle: FRAPORT AG

The social dimensions of aviation development



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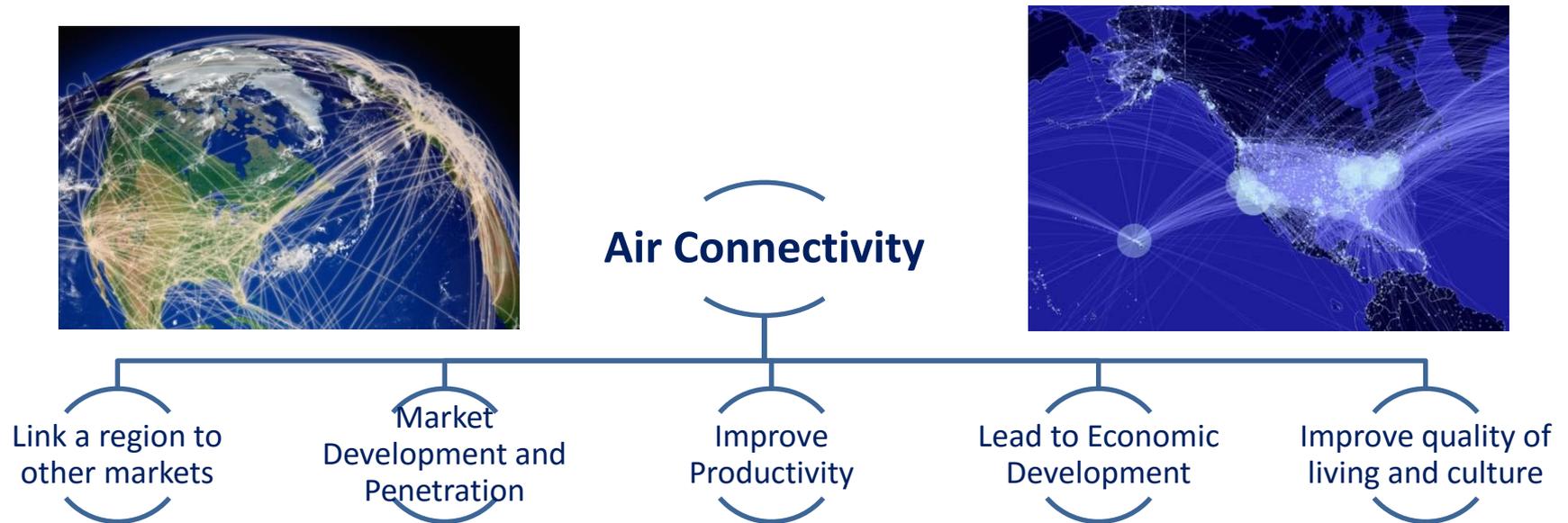


Outline

- ❑ Air transport and connectivity contribution overview
- ❑ Aviation business interactions in social values
- ❑ Aviation socioeconomic effects that influence decision making
- ❑ Needs, objectives and methodology to estimate air connectivity socioeconomic effects
- ❑ Case studies and highlights on economic contribution of air connectivity
- ❑ Discussion issues and concluding remarks

Air Transport Contribution Background

- ❑ Air transport provides the international connectivity the country needs to succeed in a competitive global economy; (*Dimitriou 2017; INTECH: "Mobilities, Tourism and Travel Behavior"*)
- ❑ Connectivity is a property of a network and can be defined in such a way as to *constitute an indicator of the network's concentration* (ICAO 2015)



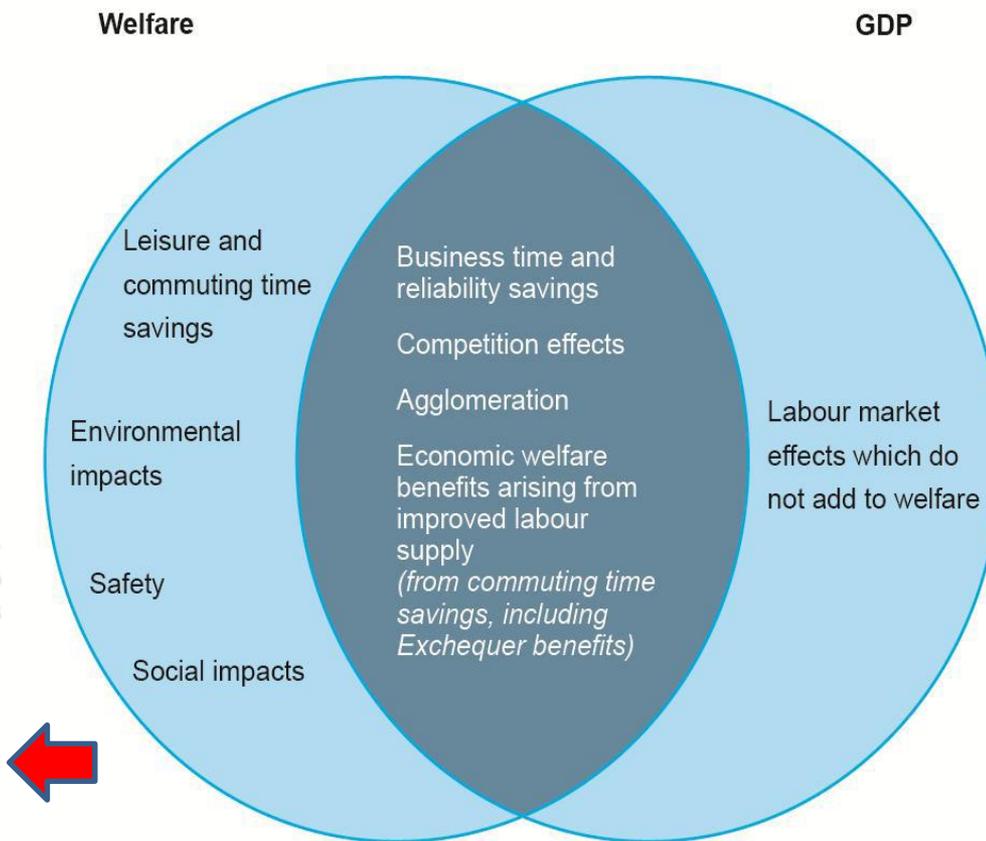
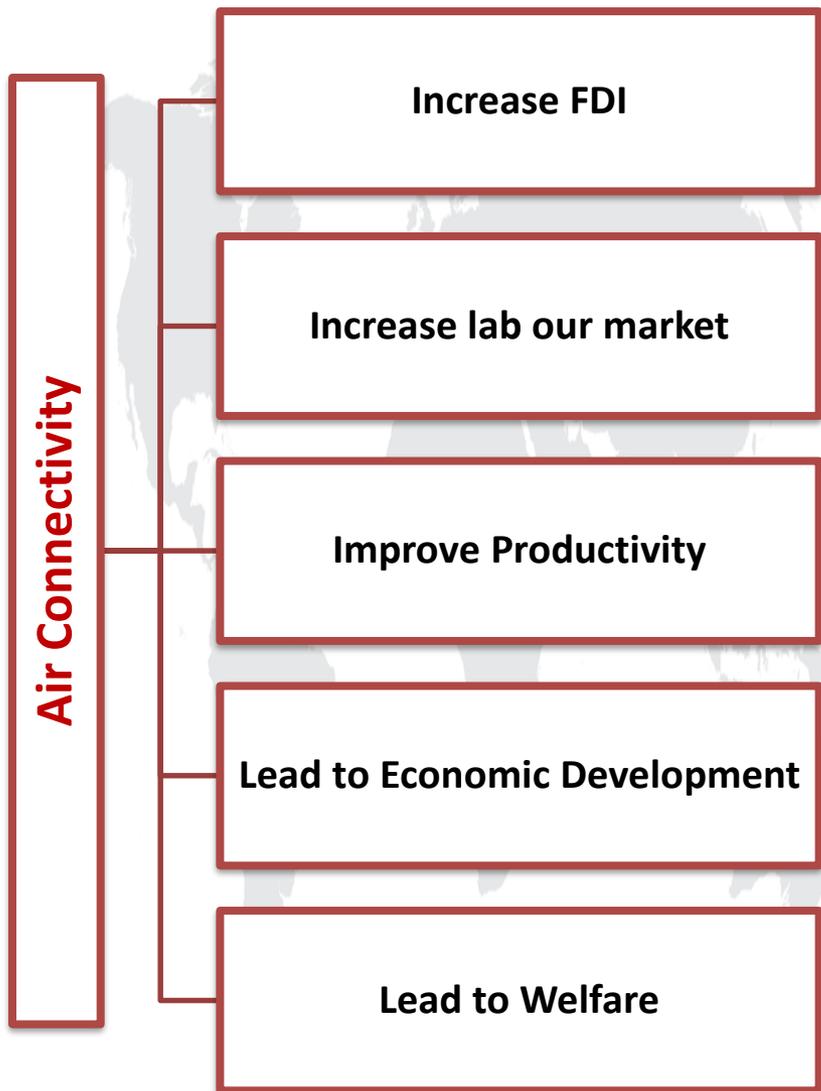
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Air connectivity economic and social interaction

Dimitriou 2017; INTECH: Mobilities, Tourism & Travel Behavior
Dimitriou 2016; ACI: Investing in Airports; Goa, India



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A. Air Transport Industry Expectations

Expectation differencing for

- Airlines
- Airports
- Authorities



Key Challenge

Business/Social benefits Equilibrium

- GVA assessment
- Socioeconomic impact

B. Investments and Business Development

Key Strategies

- Concession projects
- Attract investor's
- Market expectations
- Social expectations



Key Challenge

Social return

- Regulation
- Condition of contracts

Dimitriou 2017; COST/ATARD Workshop, Dublin

Dimitriou 2017; OECD: Forum on Governance of Infrastructure, Paris

Dimitriou 2016; ACI: Investing in Airports; Goa, India

C. Tools Influencing Demand

Key challenges

- Pricing policy
- Connectivity – Marketing
- Demand patterns



Key social outputs

Social services

- Security/safety
- Social access to facilities

D. Operational and business efficiency

Key challenges

- Efficiency (operation)
- Revenues (profitability)
- Regional Targets



Key Social Outputs

Corporate Social Responsibility (CSR)

- Employees / Pax
- Community / Environment

E. Management

Key challenges

- Risk sharing
- Business control
- System of System approach



Key Social Outputs

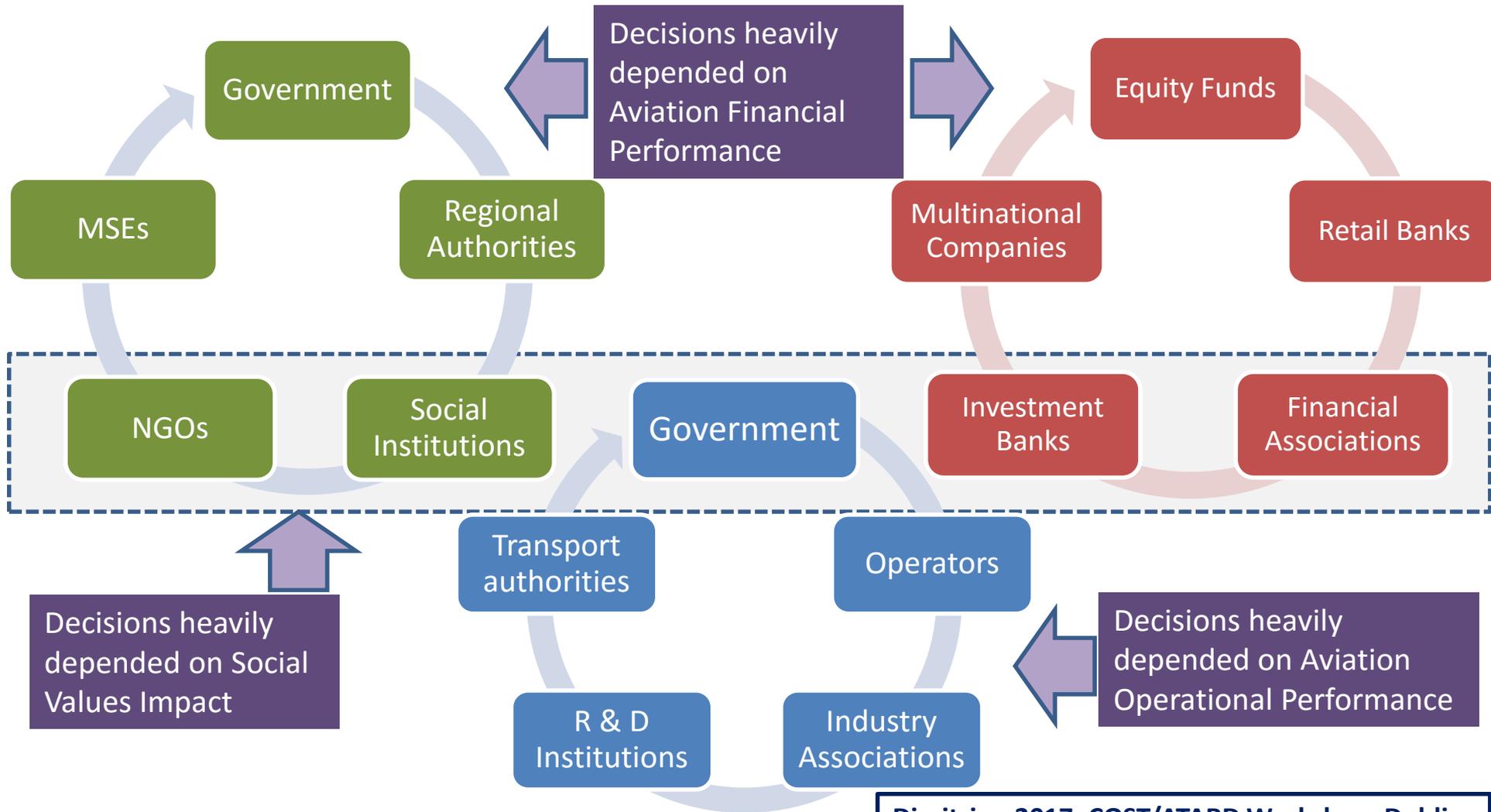
Employees

- Equality (Gender, age, etc.)
- Talent

Dimitriou 2017; COST/ATARD Workshop, Dublin
Dimitriou 2016; ACI: Investing in Airports; Goa, India



Stakeholders for aviation industry decision making



Dimitriou 2017; COST/ATARD Workshop, Dublin
 Dimitriou; ICCBMDA 2017, Barcelona, Spain

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Demand /Supply variables influence decision making

Air Transport Business	Economy Outputs	Social values	
Air Transport Cost	Income per Capita	Stability –Security	Demand side Variables A
Travelers environment sensitivity/awareness	Inflation-Consumer Prices	Education and Health	
Region connectivity	Currency exchange rates	Ecological sensitivity	
Demand pattern	ITA - Import/Export Volume	Society Isolation	
Air Transport System Capacity	Business environment and investment conditions	Environmental Capacity Tolerance/Constraints	Socioeconomic values B
Network connectivity	Working conditions Expertize and product recognition	Quality of life values / expectations	
Air Transport Assets Portfolio	Ligable assets and capitals	Human Rights and Equality	Supply side Variables C
Network efficiency and Productivity	Working force capital	Cultural Capital	

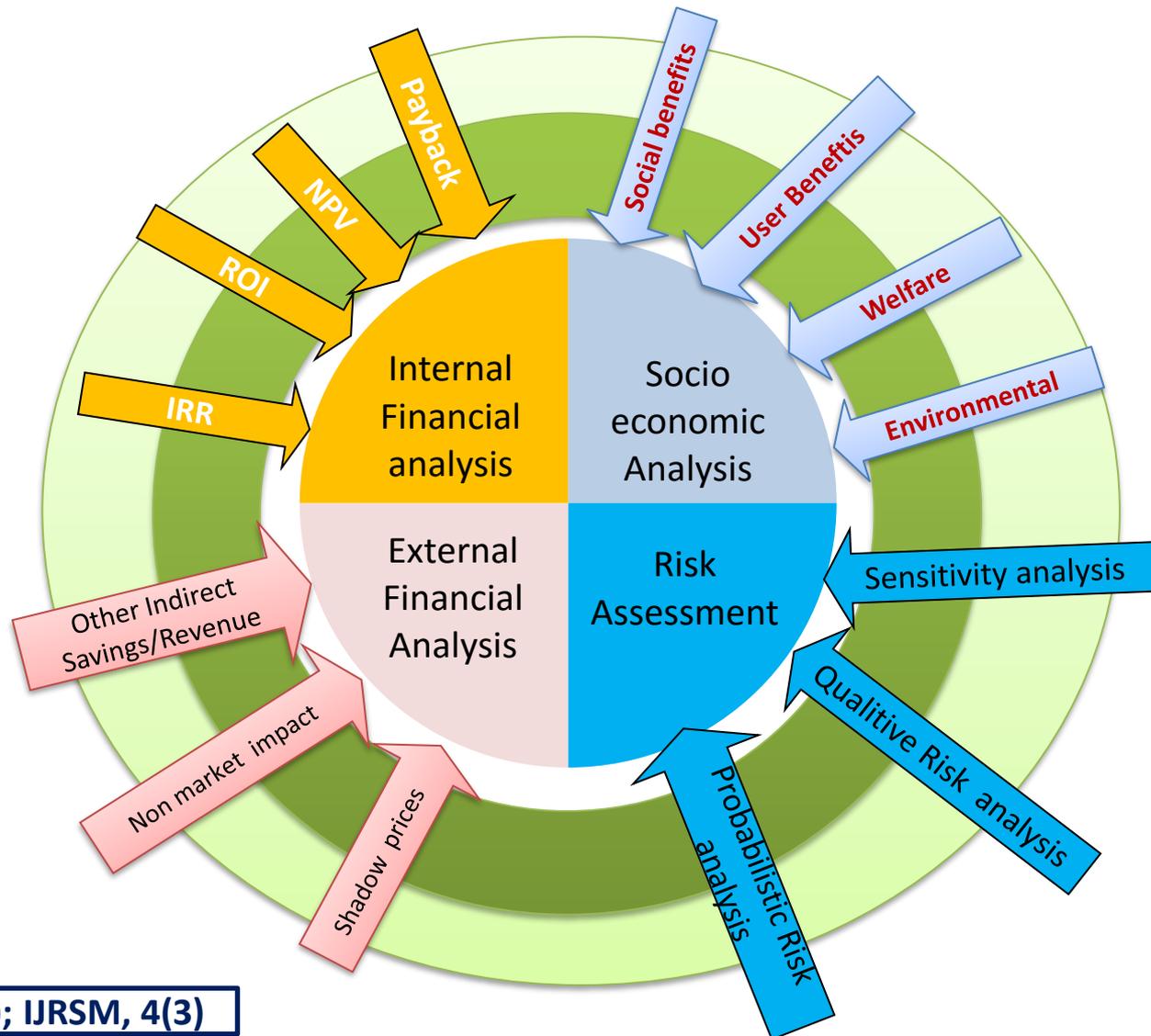
Dimitriou et al. 2016, IJSBEBIE, 10(11)

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Impact Risk Assessment Framework



Dimitriou D. (2017); IJRSM, 4(3)

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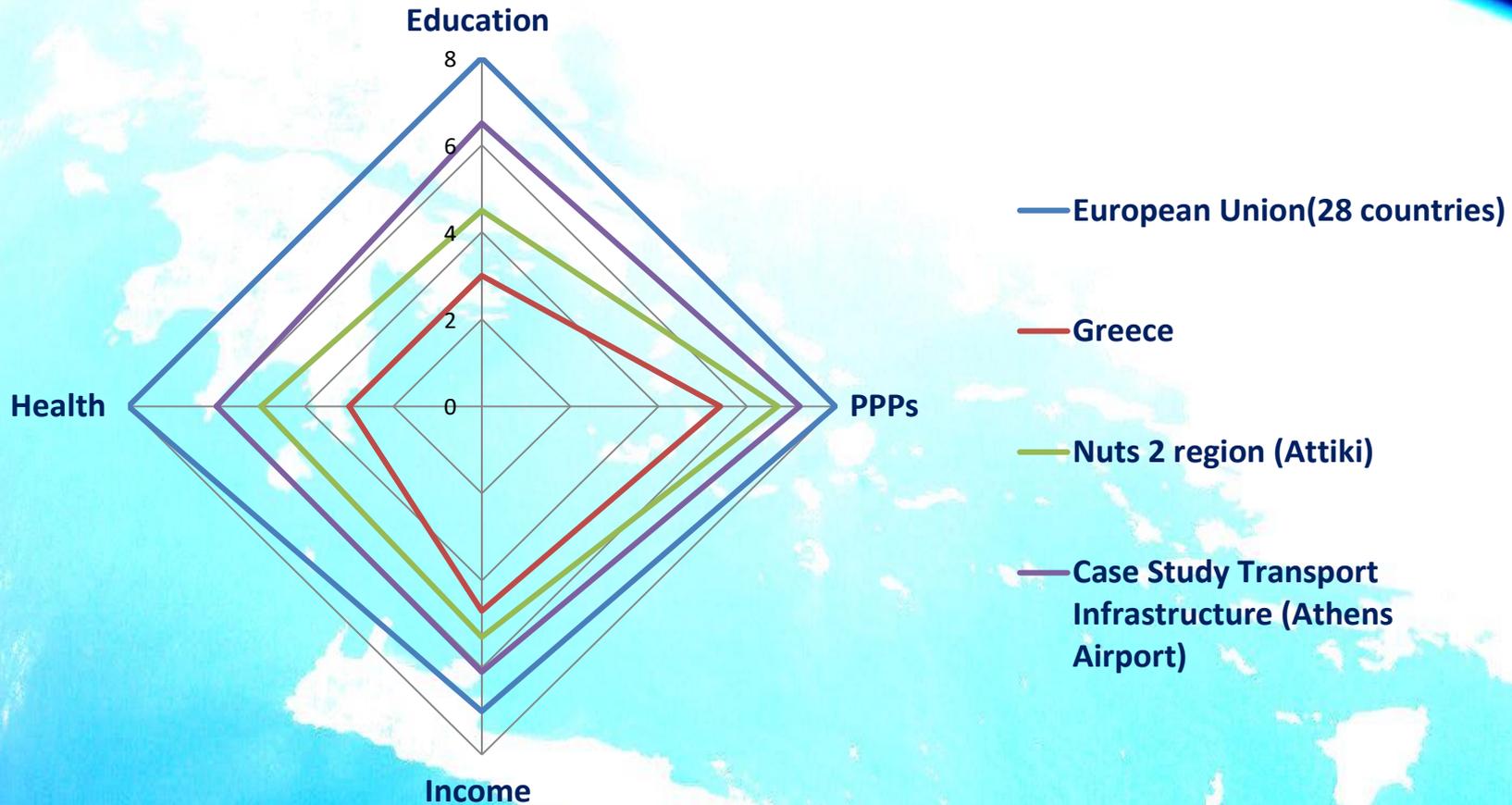
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Case: Air transport Socioeconomic impact in Greece

SARTZETAKI, DIMITRIOU, 8th Biennial PhD Symposium,
London School of Economics, 2017

Welfare impact for transport infrastructure in Greece (2016)



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Concluding Remarks

- ❖ *How to estimate air transport social impacts in national/regional economy?*
 - ✓ I-O and CGA methodology approach for income and jobs created
 - ✓ GVA for social values
 - ✓ High need for data
 - ✓ Inputs on data mining concept, in terms of income, skills, gender, etc.
- ❖ *Why to estimate air transport social impacts in national/regional scale?*
 - ✓ Review the contribution in an economic system (regional/national scale)
 - ✓ Compare with other business sectors
 - ✓ Support a variety of stakeholders involved in decision process (such as Government; authorities; NGOs, financial institutions, etc)
 - ✓ Monitoring the productivity and the efficiency of air transport in economies
 - ✓ **Estimate contribution on welfare**



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Thank you

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