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DEPARTMENT OF ECONOMICS

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Business Ecosystem in Supply Chain Changes and Prospects

October 12th, 2021

Ecosystem – Definitions



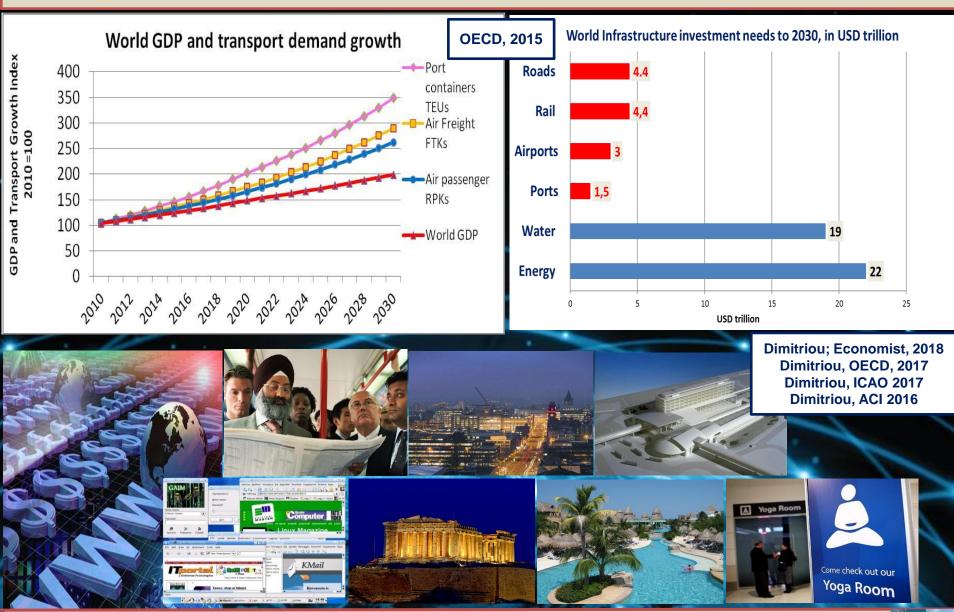
Key definitions

- the term ecosystem occurs 20 times more frequently now than it did a decade ago.
 But like any buzzword, it's often overapplied.
- the term has been used to refer to everything from
 - a country ("China is the second strongest ecosystem...")
 - a support function ("the HR ecosystem"),
 - a portfolio of products ("the xCompany ecosystem is made up of 5 products"),
 - a bundle of services intended to make people happy ("a happiness ecosystem")
 - even to a faction of services delivered to a specific spatial area (FAU ecosystem)
- Behind this semantic overstretch, however, lies a substantive *new* phenomenon:
 - the rise of dynamic, multicompany systems as a new way of organizing economic activity.
 - 7 of the world's 10 largest companies, all using technology to disrupt not only their sectors but broad swaths of the economy, **now depend on such systems**, and ecosystems thinking is more prominent in faster-growing companies across the S&P500 (e.g. google, amazon, etc).
- Ecosystems are attractive partly because of the new possibilities they create for products and services spanning traditional boundaries
 - often using digital platforms, APIs, internet of things technology, and new tools for data gathering and analysis.





Demand drivers





Transport sector key business planning variables

Dimitriou, UNECE; 2018

Dimitriou et al.2017, IJESRT, 6(1)

Dimitriou et al., 2018; Transportation proceedia, Elsevier

Strategy

- ➤ New market development
- Regulation / protection vs deregulation
- Funding capitals leverage
- > Socioeconomic impact

> Planning

- New business (routes, destinations, etc)
- Business viability (risk sharing, incentives)
- Intellectual property (new business)
- Benefits return to society (CSR)

Dimitriou, 2016; Infrastructure Governance, OECD

Dimitriou, 2017; GACS II, ICAO, Athens

Dimitriou, 2017; Mobility as a service, UNECE, Geneva

Dimitriou, 2017; NGAP, ICAO, Canada

Dimitriou, 2018; New Skills, Economist, Athens

Competitiveness

- Regulatory framework
- Monitoring/Review performance
- > Analysis of the competition
- > Provide information to users/market

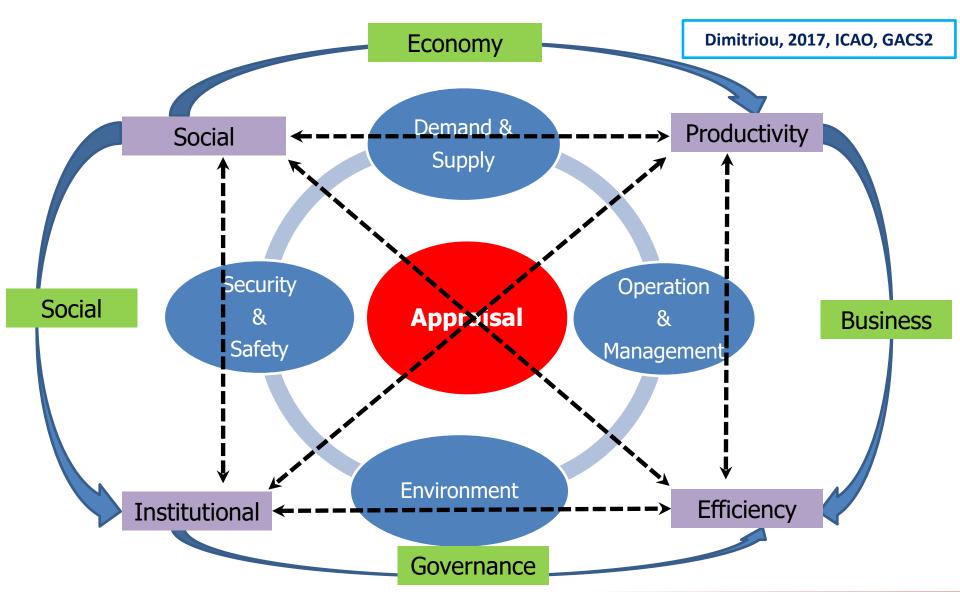
> Innovation

- ➤ New Products services
- ➤ IT ITS SMART Business
- Artificial Intelligence machine learning
- > Research (SU)





Performance Appraisal and Decision Making in Transportation

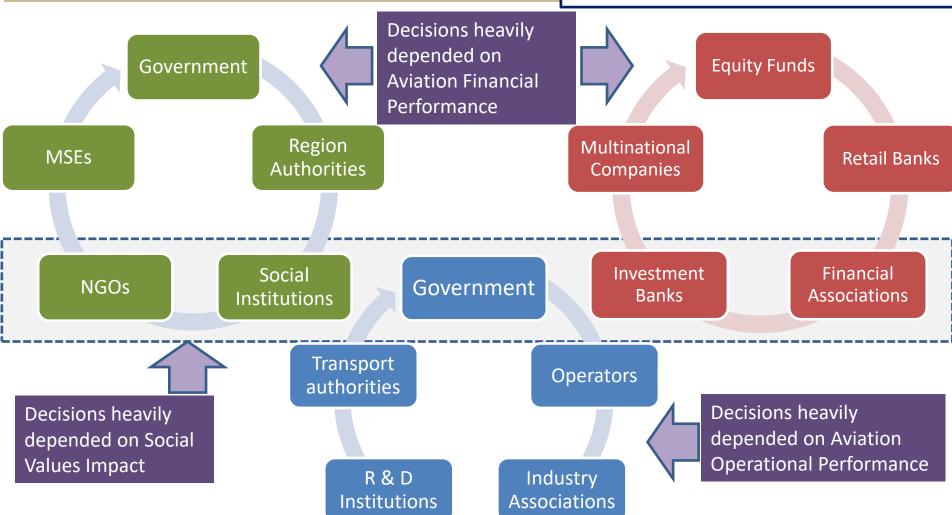






Transport industry decision making

Dimitriou 2018; Economist Workshop, Athens Dimitriou 2017; COST/ATARD Workshop, Dublin Dimitriou; ICCBMDA 2017, Barcelona, Spain







DM TAXONOMY FOR TRANSPORT INFRA PERFORMANCE **INPUT OUTPUT DECISION MAKING SET OF Business Sustainability CONNECTIONS** Socio-economic → Carriers (load factors) characteristics for → transport infra (profits) ORIGINs (pax) → Capacity / Efficiency Demand scaling and morphing factors **AGENTS Network Evaluation ACT OBSERVE** → Competition (fares) **Network formulated** → Robustness (seasonal vs **Travel Demand** through interaction Generator scheduled) between agents → Saturation (new routes) **Regional Authorities Tourist Agents** Institutions **Suppliers UPDATE DECIDE Economic Productivity** → Demand volume (total **TIP & Carriers** Performance expenditure) → Transfer pax Regulatory and **BELIEFS OBJECTIVES** → Spill over effects to regional Policy maker framework economy

Dimitriou D., (2017). Quantitative evaluation taxonomy for transport infrastructure projects, IJRSM, 4(3), 34-40.

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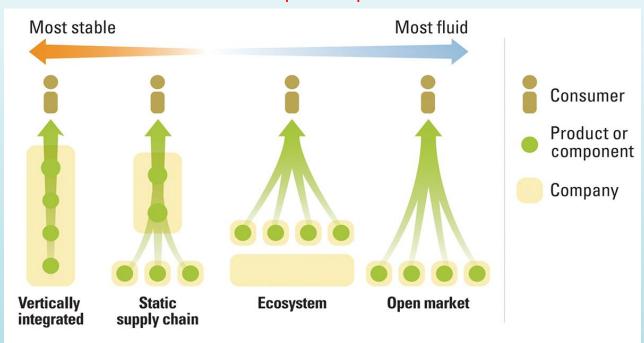


Ecosystem – Key aspects



A Spectrum of Organizational Structures

Different organizational structures, along a spectrum of market fluidity, demonstrate the different kinds of relationships companies can have between their products and



Ecosystems sit between:

on one extreme, vertically integrated companies or static supply chains, and on the other extreme, open, competitive markets, in which customers combine various products according to their shifting patterns of need.

The essential characteristics of **business ecosystems** are the following:

- They are multi-entity, made up of groups of companies not belonging to a single organization.
- They involve networks of shifting, semi-permanent relationships, linked by flows of data, services, and money.
- The relationships combine aspects of competition and collaboration, often involving complementarity between different products and capabilities (e.g. smartphones and apps).
- The players coevolve as they redefine their capabilities and relations to others over time.







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12 October 2021:

Research Workshops and VIP4RIDE Networking

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14 & 15 October 2021:

2nd International Conference on Intermodal Transports

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2nd International Conference

(October 14 & 15, 2021)

"Intermodal Transports"

Innovations in Planning, Management, Business Development & Decision Making

<u>Info</u>:



Conference Web: https://vip4ride.com/

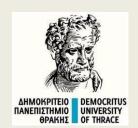


Contact e-mail: v4r@vip4ride.com

Research Activities and Conference chair:

Dimitrios Dimitriou, Associate Professor, Department of Economics, DUTh, (ddimitri@econ.duth.gr)





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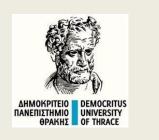
Registration

Terms and conditions

a) According to the Greek Government gazette (issue: 4206/12.09.2021), the holdings of conferences/exhibitions are permitted under the following operating rules: On side entry rules:

Entry to the conference is allowed to those who display the following:

i) Vaccination certificate in accordance with paragraph 2 of Article 10 or



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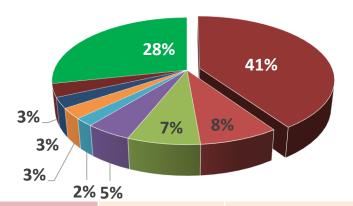
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- Aristotle University of Thessaloniki
- National Technical University of Athens
- University of Aegean
- University of Thessaly



Vip4ride: Network of experts

Facebook: 100+

Linkedin: on progress

Εργασίες	Τοποθετήσεις	Research Workshops	Παρουσιάσεις Εκδόσεων και Βιβλίων	Συμμετέχοντες on side	
80	30	2	4	Ερευνητές / ΔΕΠ	Στελέχη Επιχειρήσεων
1	130	6		64	31

Συμμετέχοντες virtual

342

<u>216</u> 152

95

126



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Thank you for your attention Any question?



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