

Naval gigantism and  
new alliances in the container sector.  
Current status and future outlook

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economies of scale and from the horizontal integration in the maritime part of the chain. Anyways, monitoring the actual impacts of these strategies, in order to both verify their economic, social and environmental sustainability, and to avoid forms of abuse of dominance, is essential as a central element in the accompanying policies for the development of new port logistics systems.

## Bibliography

- ACCIARO M. & MCKINNON A. (2013), "Efficient hinterland transport infrastructure and services for large container ports", Discussion Paper 19, International Transport Forum
- ALPHALINER, Weekly Newsletter, various numbers of 2013 and of 2014
- BACCELLI O. & BARONTINI F. (2013), *L'Italia in Europa. Le politiche dei trasporti per rimanere in rete*, EGEA, Milan, Italy
- BACCELLI O., PERCOCO M. & TEDESCHI A. (2008), "Port Authorities as cluster managers: the case of the Ligurian ports", in *European Transport, International Journal of Transport Economics, Engineering and Law*, No. 39, Year XIII
- BACCELLI O., RAVASIO M. & SPARACINO G. (2007), *Porti italiani. Strategie per l'autonomia finanziaria e l'intermodalità. Il caso dei porti liguri*, EGEA, Milan, Italy
- BACCELLI O. (2001), *La mobilità delle merci in Europa. Potenzialità del trasporto intermodale*, EGEA, Milan, Italy
- BANCA D'ITALIA (2012), *Indagine campionaria sui trasporti internazionali dell'Italia. Benchmark 2011*, Rome, Italy
- BERNHOFEN D. M., ZOUHEIR EL-SAHLI & KNELLER R. (2013), "Estimating the Effects of the Container Revolution on International Trade", Lund University, Working Paper No. 4
- BOLOGNA S. (2010), *Le Multinazionali Del Mare. Letture Sul Sistema Marittimo-Portuale*, EGEA, Milan, Italy
- BONNEY, J. (2010), "Carriers Move Full Speed into Slow Steaming" in *Journal of Commerce*, 12th January
- CHEN F. & ZHANG R. (2008), "The Economic Viability of Mega-size Container Vessels in Different Service Networks" in *Journal of Shanghai University*, Vol. 13, No. 2, 221-225
- CHOU C.C. ET AL. (2010), "AHP Model For the Container Port Choice in the Multiple-Ports Region" in *Journal of Marine Science and Technology*, Vol. 18, No. 2, pp. 221-232
- CULLINANE, K. & KHANNA, M. (2000), "Economies of Scale in Large Containerships: Optimal Size and Geographical Implications" in *Journal of Transport Geography*, Vol. 8, pp. 181-195
- DREWRY CONSULTING (2007), "Transshipment and Global Container Traffic Growth", 5th ASEAN ports and shipping conference, Johor Bahru, 12th June
- DREWRY CONSULTING (2008), *Ship and Operating Costs – Annual Review and Forecast*
- DREWRY CONSULTING (2010), *Container Forecaster*, September
- FERRARI C. & TEI A. (2012), "Emission Savings through a Re-Scheduling of Maritime Services: Possible implications for the Mediterranean ports" in *Economics and Policy of Energy and the Environment*, No. 2
- FREMONT A. (2007), "Global Maritime Networks – The Maersk Case" in *Journal of Transport Geography*, Vol.15, pp. 431-442
- GALLAGHER T. (2010), "Three Lines Start Asia-Europe Sharing Agreement" in *Journal of Commerce*, 25th July

- GELAREH S. ET AL. (2000), Liner Shipping Hub Network Design in a Competitive Environment, DTU Management Engineering, February
- HARALAMBIDES H.E.(2000), A Second Scenario on the Future of the Hub-and-Spoke System in Liner Shipping, Latin ports and shipping 2000 conference and Exhibition, Miami, Florida
- HSU C.I. & HSIEH Y.P (2005), "Direct Versus Terminal Routing on a Maritime Hub-and-spoke Container Network" in Journal of Marine Science and Technology, Vol. 13, No. 3, pp. 209-217
- IYVER K.V.A. (2006), "Shipping Trends: Transshipment Versus Direct Sailing" in The Hindu business, 12th November
- MARSAKLOXX FREEPORT (MALTA) PORT AUTHORITY (2011), "Port dues, anchorage tax, pilotage fee and towage fee", April
- MAYO J. & NOHRIA N. (2005), The Truck Driver Who Reinvented Shipping, Harvard Business School, 3th October
- MCKINNON A.C. (2013), "Decarbonising the deep-sea container supply chain: the possible contribution of port centric logistics" in Proceedings of the 13th Annual Conference on Transportation Research Society, Rio de Janeiro
- MEERSMAN H., PAUWELS T., VAN DE VOORDE E. & VANELLANDER T. (2008), "The relation between port competition and hinterland connections: the case of the Iron Rhine and the Betuwe Route", International Forum on Shipping, Ports, and airport (IFSPA) – Trade based global supply chain and transport logistics hubs: trends and future development
- MIDORO R. & PAROLA F. (2011), Le Strategie delle Imprese nello Shipping di Linea e nella Portualità. Dinamiche Competitive e Forme di Cooperazione, Franco Angeli, Milan, Italy
- MOURAO M.C. & PATO M.V. (2001), "Ship Assignment with Hub-and-spoke Constraints" in Maritime Policy and Management, Vol. 29, No. 2, pp. 135-150
- NOTTEBOOM T. (2012), Dynamics in port competition in Europe: implications for North Italian ports, University of Antwerp, Milan, Workshop "I porti del Nord" organized by Fondazione IRSO
- NOTTEBOOM T. & RODRIGUE J.T. (2007), The Future of Containerization: Box Logistics in Light of Global Supply Chain, IAME Conference, Athens, Greece
- NOTTEBOOM T. & RODRIGUE J.T. (2011), Global Container Terminal Operators: From Diversification to rationalization?, Econship Conference 2011
- NG A. (2006), "Assessing the Attractiveness of Ports in the North European Container Transshipment Market: An Agenda for Future Research in Port Competition" in Maritime Economics and Logistics, Vol. 6, pp. 234-250
- PROOST S., DUNKERLEY F., VAN DER LOO S., ADLER N., BROCKER J. & KORZHENEVYCA. (2010), Do the selected Trans European Investments Pass the cost benefit test?, CES Discussion paper
- RUSSO F. (2007), I Porti Container Italiani nel Sistema Euro-Mediterraneo, Collana Trasporti, Franco Angeli, Milan, Italy
- SYS C. (2009), "Is Container Liner Shipping Industry an Oligopoly?" in Transport Policy, Vol. 15, issue 5

- TONGZON J.L. ET AL. (2008), "Port Selection Factors by Shipping Lines: Different Perspectives Between Trunk Liners and Feeder Service Providers" in *Marine Policy*, Vol. 32, pp. 877-885
- UNCTAD (2013), *Review of maritime transport*, Geneva, Swiss
- VIS I.F.A. & DE KOSTER R. (2003), "Transshipment of Containers at a Container Terminal: an Overview" in *European Journal of Operational Research*, Vol. 147, pp. 1-16
- WORLD BANK INTERNATIONAL TRADE DEPARTMENT (2012), *Connecting to Compete 2012. Trade Logistics in the Global economy*, Washington DC, Communications Development Incorporated
- YAP W.Y. (2009), *Container Shipping Services and their Impact on Container Port Competitiveness*, ITMMA

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