

Impact Factor: 3.2

5-Year Impact Factor:

Contents

## Abstract

Exports are generally known as the export channel. The first, mechanism has recently been applied to tourism services exports (the *tourism-led growth*, TLG, hypothesis). The second channel is the financing of imports of foreign capital goods, thus raising the level of capital formation. Although this channel turns out to be empirically important, no theoretical rigorous foundation has yet been provided. Moreover, it has never been investigated for tourism exports. This paper fills two gaps. On the theoretical side, it provides a clear justification of the role of capital good imports in the link between exports and overall economic growth. A model has been built to examine this so-called EKIG hypothesis (exports → capital good imports → growth) in which sustained economic growth is achieved by imports of foreign capital entirely financed through inbound tourism. This model highlights a mechanism of international transmission of economic growth from the tourist-generating country (the tourism services importer) to the tourist-receiving economy (the tourism services exporter) through trade and terms-of-trade movement without any technological progress, research and development (R&D) activity or accumulation of human capital in the host economy. On the empirical side, this study constitutes the first attempt to examine the role of tourism exports on economic growth through capital good imports. The authors use Johansen's cointegration approach and the multivariate Granger causality test to analyse the TKIG (tourism → capital good imports → growth) hypothesis in the Spanish economy.



Get full access to this article

[View all access and purchase options for this article.](#)

By clicking "Accept Non-Essential Cookies", you agree to the storing of cookies on your device to enhance site navigation, analyze site usage, and assist in our marketing efforts. [Privacy Policy](#) [Cookie Policy](#)

[Manage Cookies](#)

[Accept Non-Essential Cookies](#)

[Reject Non-Essential Cookies](#)

## References

Alam M.I. (2003), 'Manufactured exports, capital good imports and economic growth: Experience of Mexico and Brazil', *International Economic Journal*, Vol 17, No 4, pp 85–105.

[Crossref](#)

[Google Scholar](#)

Bacha E.L. (1990), 'A three gap model of foreign transfers and the GDP growth rate in developing countries', *Journal of Developing Economics*, Vol 32, pp 279–296.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Balaguer L., Cantavella-Jordá M. (2002), 'Tourism as a long-run economic growth factor: The Spanish case', *Applied Economics*, Vol 34, pp 877–884.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Balassa B. (1978), 'Exports and economic growth: Further evidence', *Journal of Development Economics*, Vol 5, pp 181–189.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Ben-David D., Loewy M.B. (1998), 'Free-trade, growth and convergence', *Journal of Economic Growth*, Vol 3, pp 143–170.

[Crossref](#)

[Google Scholar](#)

Bender D., Löwenstein W. (2005), Two-Gap Models: Post-Keynesian Death and Neoclassical Rebirth, IEE Working Papers, Ruhr University Bochum, Bochum.

[Google Scholar](#)

Bhagwati J.N. (1978), Foreign Trade Regimes and Economic Development: Anatomy and Consequences of Exchange Control Regimes, National Bureau of Economic Research, New York.

[Google Scholar](#)

Gómez Bote V. (1993), 'La necesaria revalorización de la actividad turística española en una economía terciarizada e integrada en la CEE', *Revista Estudios Turísticos*, Vol 118, pp 5-26.

[Google Scholar](#)

Buisán A., Gordo E. (1997), El sector exterior en España, Servicio de Estudios del Banco de España, Madrid.

[Google Scholar](#)

Chenery H.B., Bruno M. (1962), 'Development alternatives in an open economy: The case of Israel', *Economic Journal*, Vol 72, pp 79-103.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Chenery H.B., Strout A.M. (1966), 'Foreign assistance and economic development', *American Economic Review*, Vol 56, pp 679-733.

[Web of Science](#)

[Google Scholar](#)

Cheung Y.W., Lai K.S. (1993), 'Finite-sample sizes of Johansen's likelihood ratio tests for cointegration', *Oxford Bulletin of Economics and Statistics*, Vol 55, pp 313-328.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Cheung Y.W., Ng L.K. (1998), 'International evidence on the stock market and aggregate economic activity', *Journal of Empirical Finance*, Vol 5, pp 281-296.

[Crossref](#)

[Google Scholar](#)

Chuang Y.-C. (1998), 'Learning by doing, the technology gap and growth', *International Economic Review*, Vol 39, No 3, pp 697-721.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Copeland B.R. (1991), 'Tourism, welfare and de-industrialization in a small open economy', *Economica*, Vol 58, No 4, pp 515–529.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Cortés-Jiménez I., Artís M. (2006), 'The role of the tourism sector in economic development. Lessons from the Spanish experience', *Documents de Treball de la Facultat de Ciències Econòmiques I Empresarials*, No E06/158, Universitat de Barcelona, Barcelona.

[Google Scholar](#)

De la Dehesa G., Ruiz J.J., Torres A. (1991), 'The timing and sequencing of a trade liberalization policy: The case of Spain', in Michael M., Choksi A., Papageorgiou D., eds, *Liberalizing Foreign Trade*, Basil Blackwell, Oxford.

[Google Scholar](#)

Dickey D., Fuller W. (1979), 'Distribution of the estimators for autoregressive time series with a unit root', *Journal of the American Statistical Association*, Vol 74, pp 427–431.

[Web of Science](#)

[Google Scholar](#)

Dritsakis N. (2004), 'Tourism as a long-run economics growth factor: An empirical investigation for Greece using causality analysis', *Tourism Management*, Vol 10, No 3, pp 305–316.

[Google Scholar](#)

Engle R.F., Granger C.W.J. (1987), 'Cointegration and error correction: Representation, estimation and testing', *Econometrica*, Vol 55, pp 251–276.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Esfahani H.S. (1991), 'Exports, imports and economic growth in semi-industrialized countries', *Journal of Development Economics*, Vol 35, pp 93–116.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Evans M.R., Fox J.B., Johnson R.B. (1995), 'Identifying competitive strategies for successful tourism destination development', *Journal of Hospitality & Leisure Marketing*, Vol 3, No 1, pp 37–45.

[Crossref](#)

[Google Scholar](#)

Feder G. (1983), 'On exports and economic growth', *Journal of Development Economics*, Vol 12, No 3, pp 59–73.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Felipe J. (2003), Is Export-Led Growth Passé? Implications for Developing Asia, Economics and Research Department Working Paper Series, Asian Development Bank, Manila.

[Google Scholar](#)

Gonzalo J. (1994), 'Comparison of five alternative methods of estimating long run equilibrium relationship', *Journal of Econometrics*, Vol 60, pp 203–233.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Granger C.W.J. (1969), 'Investigating causal relations by econometric models and cross-spectral methods', *Econometrica*, Vol 37, pp 424–438.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Granger C.W.J. (1988), 'Some recent developments in a concept of causality', *Journal of Econometrics*, Vol 39, pp 199–211.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Gray H.P. (1966), 'The demand for international travel by the United States and Canada', *International Economic Review*, Vol 7, No 1, pp 83–92.

[Crossref](#)

[Google Scholar](#)

Grossman G.M., Helpman E. (1991), *Innovation and Growth in the Global Economy*, MIT Press, Cambridge, MA.

[Google Scholar](#)

Gunadhi H., Boey C.K. (1986), 'Demand elasticities of tourism in Singapore', *Tourism Management*, Vol 7, No 4, pp 239–253.

[Crossref](#)

[Google Scholar](#)

Gunduz L., Hatemi A.-J. (2005), 'Is the tourism-led growth hypothesis valid for Turkey?', *Applied Economics Letters*, Vol 12, pp 499–504.

[Crossref](#)

[Google Scholar](#)

Hazari B.R., Nowak J.-J. (2003), 'Tourism, taxes and immiserization: A trade theoretic analysis', *Pacific Economic Review*, Vol 8, No 3, pp 279–287.

[Crossref](#)

[Google Scholar](#)

Hazari B.R., Nowak J.-J., Sahli M. (2003), 'International tourism as a way of importing growth', Proceeding of the International Conference on Tourism Modelling and Competitiveness, Paphos, Cyprus, 31 October–1 November.

[Google Scholar](#)

Herzer D., Nowak-Lehmann F., Siliverstovs B. (2006), 'Export-led growth in Chile: Assessing the role of export composition in productivity growth', *The Developing Economies*, Vol XLIV, No 3, pp 306–328.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Johansen S. (1988), 'Statistical analysis of cointegration vectors', *Journal of Economic Dynamics and Control*, Vol 12, pp 231–254.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Johansen S. (1991), 'Estimation and hypothesis testing of cointegrating vectors in Gaussian vector autoregressive models', *Econometrica*, Vol 59, pp 1551–1580.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Johansen S., Juselius K. (1990), 'Maximum likelihood estimation and inference on cointegration – with applications to the demand for money', *Oxford Bulletin of Economics and Statistics*, Vol 52, No 2, pp 169–210.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Kim H.J., Chen M., Jang S. (2006), 'Tourism expansion and economic development: The case of Taiwan', *Tourism Management*, Vol 27, No 5, pp 925–933.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Krueger A.O. (1980), 'Trade policy as an input to development', *American Economic Review*, Vol 70, pp 188–192.

[Web of Science](#)

[Google Scholar](#)

Krueger A.O. (1985), 'The experience and lessons of Asia super exporters' in Corbo V., Krueger A.O., Ossa F., eds, *Export-Oriented Development Strategies: The Success of Five Newly Industrialized Countries*, Westview Press, London.

[Google Scholar](#)

Lanza A., Pigliaru F. (1994), 'The tourism sector in the open economy', in Nijkamp P., Coccossis W., eds, *Tourism and the Environment*, Avebury, Aldershot.

[Google Scholar](#)

Lanza A., Temple P., Urga G. (2003), 'The implications of tourism specialisation in the long run: An econometric analysis for 13 OECD economies', *Tourism Management*, Vol 24, pp 315–321.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Levine R., Renelt D. (1992), 'A sensitivity analysis of cross-country regressions', *American Economic Review*, Vol 82, pp 942–963.

[Web of Science](#)

[Google Scholar](#)

Lucas R.E. (1988), 'On the mechanics of economic development', *Journal of Monetary Economics*, pp 3-42.

[Google Scholar](#)

MacKinnon J.G. (1996), 'Numerical distribution functions for unit root and cointegration tests', *Journal of Applied Econometrics*, Vol 11, pp 601-618.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

McKinnon R.I. (1964), 'Foreign exchange constraints in economic development and efficient aid allocation', *Economic Journal*, Vol 74, pp 388-409.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Mazumdar J. (2001), 'Imported machinery and growth in LDCs', *Journal of Development Economics*, Vol 65, pp 209-224.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Newey W., West K. (1994), 'Automatic lag selection in covariance matrix estimation', *Review of Economic Studies*, Vol 61, No 4, pp 631-653.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Nowak J.-J., Sahli M. (2006), 'Tourism, capital good imports and long-run growth', Proceedings of the Thirteenth Economic Research Forum, Kuwait, 17-19 December.

[Google Scholar](#)

Oh C. (2005), 'The contribution of tourism development to economic growth in the Korean economy', *Tourism Management*, Vol 26, No 1, pp 39-44.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Osterwald-Lenum M. (1992), 'A note with quintiles of the asymptotic distribution of the maximum likelihood cointegration rank test statistics: Four cases', *Oxford Bulletin of Economics and Statistics*, Vol 54, pp 461–472.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Padilla R. (1988), 'La demanda de servicios turísticos en España', *Investigaciones Económicas*, Vol 12, pp 461–472.

[Google Scholar](#)

Pearce D. (1989), *Tourism Development*, Longman, Harlow.

[Google Scholar](#)

Phillips P.C.B., Perron P. (1988), 'Testing for a unit root in time series regression', *Biometrika*, Vol 75, pp 335–346.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Pye E.A., Lin T.B., eds (1983), *Tourism in Asia: The Economic Impact*, Singapore University Press, Singapore.

[Google Scholar](#)

Riezman R.G., Whiteman C.H., Summers P.M. (1996), 'The engine of growth or its handmaiden? A time-series assessment of export-led growth', *Empirical Economics*, Vol 21, pp 77–110.

[Crossref](#)

[Google Scholar](#)

Rivera-Batiz L.A., Romer P. (1991), 'International trade with endogenous technological change', *European Economic Review*, Vol 35, pp 971–1004.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Sims C. (1980), 'Macroeconomics and reality', *Econometrica*, Vol 48, pp 1–48.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Sims C.A., Stock J.H., Watson M.W. (1990), 'Inference in linear time series models with some unit roots', *Econometrica*, Vol 58, pp 113–144.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Sinclair M.T. (1998), 'Tourism and economic development: A survey', *The Journal of Development Studies*, Vol 34, No 5, pp 1–51.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Sinclair M.T., Gómez Bote V. (1996), 'Tourism, the Spanish economy and the balance of payments', in Barke M., Newton M., Towner J., eds, *Tourism in Spain: Critical Perspectives*, CAB International, Wallingford, Chapter 4.

[Google Scholar](#)

Song H., Witt S.F. (2000), *Tourism Demand Modelling and Forecasting: Modern Econometric Approaches*, Pergamon, Oxford.

[Google Scholar](#)

Summers R., Heston A. (1991), 'The Penn-World Table (Mark 5): An expanded set of international comparisons, 1950–1988', *Quarterly Journal of Economics*, Vol 106, pp 327–368.

[Crossref](#)

[Web of Science](#)

[Google Scholar](#)

Syriopoulos T. (1995), 'A dynamic model of demand for Mediterranean tourism', *International Review of Applied Economics*, Vol 9, No 3, pp 318–336.

[Crossref](#)

[Google Scholar](#)

Uysal M., Crompton J.L. (1984), 'Determinants of demand for international tourist flows in Turkey', *Tourism Management*, Vol 5, No 4, pp 288-297.

[Crossref](#)

[Google Scholar](#)

World Bank (1982), World Development Report, Washington, DC (table 2).

[Google Scholar](#)

World Bank (2004), World Development Indicators, CD-Rom.

[Google Scholar](#)

### Similar articles:

 Restricted access

[Do Bangladesh and Sri Lanka Enjoy Export-Led Growth? A Comparison of Two Small South Asian Economies](#)

Show Details ▾

 Restricted access

[Is There an Export- or Import-led Growth in BRICS Countries? An Empirical Investigation](#)

Show Details ▾

 Restricted access

[Mass Beach Tourism and Economic Growth: Lessons from Tunisia](#)

Show Details ▾

[View More](#)

### Sage recommends:

#### SAGE Knowledge

Entry

[Export-Led Development](#)

Show Details ▾

#### SAGE Knowledge

Entry

Entry

## [Economic Growth](#)

Show Details ▾

---

### SAGE Knowledge

Entry

#### [Economic Policy \(Mexico\)](#)

Show Details ▾

---

[View More](#)

You currently have no access to this content. Visit the [access options](#) page to authenticate.

[Download PDF](#)

## Also from Sage

### CQ Library

Elevating debate

### Sage Data

Uncovering insight

### Sage Business Cases

Shaping futures

### Sage Campus

Unleashing potential

### Sage Knowledge

Multimedia learning resources

### Sage Research Methods

Supercharging research

### Sage Video

Streaming knowledge

### Technology from Sage

Library digital services

