

CURRICULUM VITAE (José Manuel Vassallo)

PERSONAL INFORMATION

Name: José Manuel Vassallo
Address: Calle Comandante Franco 21
28016 Madrid (Spain)
Telephone: 34 91 343 17 73 / 34 676 69 02 95
Nationality: Spanish
Date of birth: 18/02/1971

EDUCATION/DEGREES

1995 Master degree in Civil Engineering, Polytechnic University of Madrid (UPM).
1999 Ph. D. (Transport Economics). UPM, Madrid.
2005 Visiting Fellow. Kennedy School of Government. Harvard University.

PRESENT POSITION

Current Position: Associate Professor
Institution: Transport Department
Civil Engineering School
Polytechnic University of Madrid
Address: Departamento de Transportes
ETSI de Caminos, Canales y Puertos
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PROFESSIONAL AND RESEARCH EXPERIENCE

2004-2005 Visiting Research Fellow. Center for Business and Government.
Kennedy School of Government. Harvard University.
2003 to date Profesor Titular (Associate Professor in Transport Economics). ETSI
Caminos, Canales y Puertos UPM. Madrid.
2001-2004 External Advisor. Secretary for Transport and Infrastructure
(Ministry of Public Works). Madrid.
Last semester of 2001 Visiting Advisor. European Investment Bank. Luxembourg.
1999-2003 Assistant Professor. ETSI Caminos, Canales y Puertos UPM. Madrid.
Last semester of 1998 Visiting Advisor. Coordinación General de Concesiones (Ministry of
Public Works of Chile). Santiago de Chile.
1995-1999 Researcher. ETSI Caminos, Canales y Puertos UPM. Madrid.

RESEARCH EXPERIENCE

Main research areas:

- *Transport Infrastructure Funding and Regulation:*
 - Design of bidding terms in concessions.
 - New ways to improve economic efficiency in PPPs.
 - Risk assessment in PPP projects.
 - Procurement procedures in infrastructure.
 - Road maintenance funding.
- *Socio-economic Evaluation of Infrastructure Projects:*
 - Opportunity cost of public funds.
 - Internalisation of external costs.
- *Freight transportation and logistics:*
 - Rail freight competition.
 - Trans-border bottlenecks.

Participation in Research Programs:

- *Research and Development Framework Programme of the European Union:*
 - Strategic Sector (Scenarios for Trans-European Networks Project).
 - Rail Sector (High speed freight traffic in the high speed railway network in Europe Project).
- *Spanish Programmes of Research and Development:*
 - “Design of a model to optimise the bidding terms in order to adequately award infrastructure concessions.”
 - “Analysis of land impacts produced by surface transport modes defined in the Spanish Infrastructure Plan 2002-2007: connections between the Spanish Networks and the Trans European Networks.”
- *Other Programmes:*
 - “Research on PPP Projects.” Funded by the European Investment Bank.

CONSULTANCY WORKS

- “Mechanisms for Tendering Infrastructure Contracts in Colombia”. *Andean Corporation of Development (CAF)*. September 2007 to September 2009.
- “Measures to Increase Urban Transport Affordability: Case Study of Madrid.” *The World Bank*. November 2006 to February 2007
- “Report Review of the Chile’s Road Concession Programme.” *The World Bank*. June-July 2006.
- “Shadow-toll concessions to maintain and operate highways in Spain.” *Ministerio de Fomento (España)*. October 2004 to June 2005.
- “National Accountability implications derived from the shadow-toll highway concessions in the Region of Murcia (Spain).” *Region of Murcia*. June 2004 to June 2005.
- “Development of the bidding terms to tendering toll-highway concessions in Spain.” *Ministry of Public Works*. January 2001 to March 2004.
- “Traffic risk mitigation mechanisms in highway concession.” *European Investment Bank*. October 2001 to January 2002.
- “Definition of a financial plan for the shadow-toll Pamplona-Logroño Highway.” *NEC*. September 2001 to June 2002.
- “Definition of a quality index for highway concessions in Chile.” *Ministry of Public Works of Chile*. September 1998 to September 1999.

- “Re-organization of the urban transportation bus routes in the city of Almería.” *Andersen Consulting and Municipality of Almería (Spain)*. November 1997 to March 1998.
- “Definition of strategies to encouraging the increase of freight traffic in Zaragoza’s Airport.” *Aragon Development Institute*. November 1997 to March 1998.
- “Traffic demand estimation in the Madrid-Arganda railroad corridor.” *Ferrovial*. November 1996 to February 1997.

PUBLICATIONS

Books:

- Co-author of the report “*Transport Infrastructure Investment. Options for Efficiency*”. Edited by the Internacional Transport Forum of the OECD (2008).
- Co-author with Rafael Izquierdo of “*Nuevos sistemas de Gestión y Financiación de Infraestructuras de Transporte*.” Edited by the Colegio de Ingenieros de Caminos, Canales y Puertos (2004)
- Co-author with Rafael Izquierdo of the ECMT (European Conference of Ministers for Transports of the OECD) Round Table 118: “*Economic Objectives of Introducing Tolls in Intercity Road Infrastructures*” (2002)
- Author of: “*La participación privada en la gestión y financiación de la conservación de carreteras*.” Edited by the Spanish Ministry of Public Works (2001)

Journals:

- “Public Transport Funding Policy in Madrid. Is there Room for Improvement?” *Transport Reviews* (forthcoming 2008) (with P. Pérez de Villar, R. Muñoz, and T. Serebrisky).
- “Using Public-Private Partnerships to Expand Subways: Madrid-Barajas International Airport Case Study” *Journal of Management in Engineering* (forthcoming 2008) (with A. S. Soliño).
- “Implementation of Quality Criteria in Tendering and Regulating Infrastructure Management Contracts.” *Journal of Construction Engineering and Management*, Vol. 133, pp. 553-562.
- “Subordinated Public Participation Loans for Financing Toll Highway Concessions in Spain.” *Transportation Research Record*, Vol. 1996, pp. 1-9 (with A. S. Soliño).
- “Nature or Nurture. Why Railroads Carry Greater Freight Share In The United States Than In Europe?” *Transportation*, Vol. 34 (2), pp. 177-193 (with Mark Fagan)
- “The Minimum Income Guarantee in Transportation Infrastructure Concessions in Chile.” *Transportation Research Record* Vol. 1960, pp. 15-23 (with A. S. Soliño).
- “Traffic Risk Mitigation in Highway Concession Projects: the Experience of Chile.” *Journal of Transport Economics and Policy*, Vol. 49 (3), pp. 359-381 (2006).
- “Risk-sharing in the New Public Works Concession Law in Spain.” *Transportation Research Record*, Vol. 1932, pp. 1-8 (2005). (with Juan Gallego).
- “Short Term Infrastructure Concessions: Conceptual Approach and Recent Applications in Spain.” *Public Works Management and Policy*, Vol. 8 (4), 261-270.
- “El mecanismo de ingreso mínimo garantizado en las concesiones de infraestructuras en Chile.” *Estudios de Construcción y Transportes*.
- “Modelling Road Maintenance Management and Financing.” *Journal of Transportation Engineering*, Vol. 128, 559-567 (2002).
- “Mecanismos para reducir el riesgo de la financiación en concesiones de infraestructuras.” *Revista de Obras Públicas n° 3425*, 61-69 (October 2002) (with Rafael Izquierdo).

- “Concesiones de infraestructuras con plazos cortos.” *Revista de Obras Públicas* n° 3425, 119-126 (Octubre 2002) (with Rafael Izquierdo).
- “Objetivos económicos de la introducción de peajes en carreteras interurbanas.” *Revista de Obras Públicas* n° 3413, 7-31 (September 2001) (with Rafael Izquierdo).
- “Evaluación de los sobrecostos del transporte por carretera en España debidos a una insuficiente conservación.” *Carreteras* n° 116, 19-30 (July-August 2001).
- “Los contratos de conservación y explotación vial por niveles de calidad.” *Revista de Obras Públicas* n° 3400, 69-80 (July-August 2000).
- “La conservación y rehabilitación de carreteras en España: hacia nuevas fórmulas de gestión y financiación.” *Revista de Obras Públicas* n° 3389 (July-August 1999).

International Conference Papers:

- “Strategies for Mitigating Traffic Risk in Transportation Concession Contracts.” *World Conference on Transport Research*. Berkeley, June 2007. (with Mark Fagan)
- “The Minimum Income Guarantee in Transportation Infrastructure Concessions in Chile.” *Transportation Research Board, 85th Annual Meeting*. Washington DC, USA, January 22-26, 2006 (with Antonio Sánchez-Soliño)
- “¿Por qué el mecanismo de licitación “VPI” no ha sido exitoso en concesiones de carreteras en Chile?” *XIV Congreso Panamericano de Ingeniería de Tránsito y Transporte*. Las Palmas de Gran Canaria, September 21-23, 2006.
- “The Tendering Mechanism based on the Least Present Value of the Revenues: Practical Evaluation in the Highway Concession Scheme of Chile.” *European Transport Conference 2005*. Strasbourg (France), October, 3-5, 2005
- “Risk-sharing in the New Public Works Concession Law in Spain.” *Transportation Research Board (TRB)*. Washington D.C. January 2005.
- “The new infrastructure concession law in Spain: application to the tendering of new toll motorways.” *European Transport Conference*. Strasbourg (France), October 2004 (with A. Monzón).
- “Investigación de nivel, docencia de calidad y enseñanza práctica: ¿Un reto posible para el profesor de Ingeniería Civil?” *International Meeting in Civil Engineering Education*. Ciudad Real (Spain), September 2003.
- “Infraestructuras para el desarrollo sostenible: la problemática de su financiación.” *IV Congreso Internacional de Ordenación del Territorio*. Zaragoza (Spain), April 2003 (with M.A. Baeza).
- “Short-term infrastructure concessions: Conceptual approach and recent applications in Spain.” *Transportation Research Board (TRB)*. Washington (Estados Unidos). January 2003.
- “Financial measures to boost private investment.” *European Transport Conference*
- Cambridge (U.K.), September 2002 (with D. Maté).
- “Short term road concessions: application to new toll motorways in Spain.” *European Transport Conference*. Cambridge (U.K.), September 2002 (with D. Maté).
- “La regulación de la calidad en contratos y concesiones de carreteras.” *X Congreso Chileno de Ingeniería de Transporte*. Concepción (Chile), October 2001.
- “The new highway management contract for services: a new finance tool for improvement and maintenance of highways in Spain.” *European Transport Conference*. Cambridge (U.K.), September 2001 (with R. Izquierdo and D. Maté).
- “La participación privada en la gestión y financiación de la conservación de carreteras.” *14 Congreso Mundial de la Carretera IRF*. París, June 2001.

- “Metodología para el análisis de la evolución de las necesidades y déficits de conservación de carreteras: aplicación al caso de España.” *14 Congreso Mundial de la Carretera IRF*. París, June 2001 (with R. Izquierdo).
- “La experiencia de los fondos viales: situación mundial.” *14 Congreso Mundial de la Carretera IRF*. París, June 2001 (with J.D González).
- “La incorporación de indicadores de calidad en la regulación de contratos y concesiones de carreteras y autopistas.” *14 Congreso Mundial de la Carretera IRF*. París, June 2001 (with A. González Barra).
- “Analysis of the effects derived from the application of “participation loans” to new road concessions in Spain.” *European Transport Conference*. Cambridge (U.K.), September 2000 (with R. Izquierdo).
- “Road Maintenance: seeking new solutions to budgetary constraints.” Road Financing Symposium: construction, maintenance and operation. Paris, November 1998.
- “La financiación de las infraestructuras por medio de la Participación Público Privada (PPP).” *X Congreso Panamericano de Ingeniería de Tránsito y Transporte*. Santander (Spain), September 1998 (with R. Izquierdo).
- “El mercado de carga aérea en aeropuertos de segundo y tercer nivel: el caso de Zaragoza.” *X Congreso Panamericano de Ingeniería de Tránsito y Transporte*. Santander (Spain), September 1998 (with O. Martínez).
- “Cálculo de la demanda de transporte mediante técnicas de detalle: el caso del ferrocarril Arganda-Rivas-Vicálvaro.” *X Congreso Panamericano de Ingeniería de Tránsito y Transporte*. Santander (Spain), September 1998 (with O. Martínez).

OTHER INFORMATION:

Distinctions

- Extraordinary Prize to the best doctoral thesis in the UPM (2002).
- ANCI Second Price to the best doctoral theses in the field of construction companies.
- Award to the best book written by a professor of the UPM (2006).

Memberships in associations and committees

- Member of the Committee on Taxation and Finance of the Transportation Research Board (American Conference of Transportation Research).
- Member of the Advisory Board of the *European Transport Research Review*.
- Member of the Thematic Working Group G on Transport Economics and Policy of the Research Network (ECTRI).
- Member of the council of the Infrastructure and Public Services Association (Foro de Infraestructuras y Servicios).
- Member of the Transportation Committee of the Spanish Civil Engineering Association (Colegio de Ingenieros de Caminos, Canales y Puertos).
- Secretary of the Infrastructure Economics Committee of the Spanish Civil Engineering Association (Colegio de Ingenieros de Caminos, Canales y Puertos).
- Spanish representative in the COST ACTION 355 “*Changing behaviour towards a more sustainable transport system.*”
- Spanish representative in the working group “*Transport Infrastructure Investment: Funding Future Needs*” constituted by the Joint OECD/ECMT Transport Research Centre.