

KIT Knowledge, Innovation, Territory

Applied Research 2013/1/13

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Dissemination activities

- Camagni R. and Capello R. "Regional Innovation Patterns and the EU Regional Policy Reform: Towards Smart Innovation Policies", paper to be presented at the 52° ERSA conference, to be held in Bratislava, August 2012. Paper to be submitted to an international journal.
- Capello R., The KIT project, presented at the ESPON internal Seminar, Liege, November 2010
- Capello R., The KIT project, presented at the 2011 RSA Conference, Bled, March 2011
- Capello R., "Towards a new Conceptualization of Innovation in Space: Territorial Patterns of Innovation", paper presented at the Tinbergen Institute, held in Amsterdam, May 2011 and at the 32nd AISRe conference, Torino (Italy), September 2011. Paper submitted to an international journal.
- Capello R., The KIT project, presented at the ESPON internal Seminar, Krakow (Poland), November 2011
- Capello R., The KIT project, presented at the ESPON Open Seminar, Aalborg (Denmark), June 2012
- Capello R., The KIT project, Workshop with MC, EC and DG-Regio, September 2012, Brussels, Belgium
- Capello R., The KIT project, Open Days 10th European Week of Regions and Cities, October 2012, Brussels, Belgium
- Capello R., The KIT project, ESPON Internal Seminar, December 2012, Cyprus (tbc)
- Capello R. and Lenzi C., Territorial patterns of innovation in Europe, presented at the 51st ERSA conference, Barcelona, August 2011 and at the 32nd AISRe conference, Torino (Italy), September 2011. Paper submitted to an international journal.
- Capello R. and Lenzi C., Employment and innovation in European regions, paper presented at the 58th NARSC conference, Miami (USA), November 2011 and at the EuroLIO Seminar 'Geography of Innovation, Saint-Etienne (France), January 2012. Paper submitted to an international journal.
- Capello R., Caragliu A., Lenzi C., Regional innovation data. A methodology to estimate CIS data at regional level, presented at the EuroLIO Seminar 'Geography of Innovation, Saint-Etienne (France), January 2012
- Capello R. and Lenzi C. "Territorial patterns of innovation and economic growth: Innovation and efficiency in European regions". Paper presented at:
 - 9th World Congress of Regional Science Association International, Faculty of Economics and Business Administration, West University of Timisoara, Timisoara (Romania), May, 2012
 - 33th AISRe Conference, September 2012, Roma (Italy) Paper submitted to an international journal.
- Capello R. and Lenzi C. "Knowledge, innovation and economic growth: Spatial heterogeneity in Europe", Paper to be presented at the 52nd ERSA Conference, Bratislava (Slovakia), August 2012. Paper submitted to an international journal.
- Capello R., Caragliu A., Lenzi C. (2012), "Is innovation in cities a matter of knowledge intensive business services? An empirical investigation", *Innovation: The European Journal of Social Science Research*, 25(2): 147-170

- Caragliu A. "Dynamics of knowledge diffusion: the ICT industry in Lombardy". Paper to be submitted to an international journal.
- Caragliu A. and Lenzi C., Territorial patterns of innovation: a structural and a dynamic perspective through European case studies, presented at the GREMI workshop, Paris (France), January 2012. Paper to be submitted to an international journal.
- Colombelli A., Foddi M. e Paci R. (2011), The knowledge regions in the enlarged Europe, Working Paper CRENOS 2011/10 forthcoming in Capello R. and Lenzi C. (eds) The Territorial Dimension of the Knowledge Economy in Europe, Routledge. Presented at the 51st ERSA conference, Barcelona (Spain), August 2011
- Crescenzi R., The Territorial Dynamics of Innovation in China and India, Research Workshop 'Creative Cities, Creative Classes: Issues and practices' Université Paris-Sud - Faculté Jean Monnet, Paris (France), May 2011
- Crescenzi R., The Territorial Dynamics of innovation in China and India, Departmental Seminar Series, Department of Economics University of Rome III, Rome (Italy), April 2011

Crescenzi R. and Rodríguez-Pose A., The Territorial Dynamics of innovation in China and India,
presented at

- o 51st ERSA conference, Barcelona, August 2011
- EU Accession Challenges & the EU Acquis Tailor-made Seminar for UNDP Officials from the Western Balkans & Turkey (College of Europe, Bruges (Belgium), 5-7 March 2012)
- Expert Workshop on "Innovation policies theoretical and empirical approaches", European Commission - Joint Research Centre (JRC), Institute for Prospective Technological Studies (IPTS), Seville (Spain), 21st and 22nd May 2012
- 9th World Congress of Regional Science Association International, Faculty of Economics and Business Administration, West University of Timisoara, Timisoara (Romania), May, 2012
- presentation planned at
 - o 59th Annual North American Meetings of the Regional Science Association International, Ottawa (Canada), November 2012 [Planned Paper submitted]
 - 23rd Congress of the Italian Regional Science Association (AISRE), Rome (Italy), 13-15 September 2012 [Planned Accepted Paper]
 - 52nd Congress of the European Regional Science Association (ERSA), Bratislava (Slovakia), August 2012 [Planned – Accepted Paper]
- Crescenzi R. and Rodríguez-Pose A. (2012) An 'integrated' framework for the comparative analysis of the territorial innovation dynamics of developed and emerging countries, *Journal of Economic Surveys, forthcoming in 2012*
- Crescenzi R., Rodríguez-Pose A and Storper M. "The territorial dynamics of innovation in China and India", paper submitted currently under review forthcoming as LSE/SERC Working Paper
- Crescenzi R. and Rodríguez-Pose A "The geography of innovation in China and India"[prepared for the Special Issue of the *International Journal of Urban and Regional Research* on 'Innovation, Human Capital and Spatial Dynamics'
- Crescenzi R. and Rodríguez-Pose A "The geography of Innovation in the United States"[prepared for the Special Issue of the Journal 'Growth and Change' (R.Capello Editor)]
- Crescenzi R., Rodríguez-Pose A and Storper M. "Spatial patterns of knowledge: a comparison among Europe, US, India and China", Chapter to be included in the Book " *The*

- Territorial Dimension of the Knowledge Economy in Europe (Capello R. and Lenzi C. Eds.), Routledge [Book proposal accepted by the Publisher
- Foddi M. and Usai S. (2012) Regional innovation performance in Europe, prepared for a Special Issue in Growth & Change. To be presented at the 52nd Congress of the European Regional Science Association (ERSA), Bratislava (Slovakia), August 2012
- Marrocu E. and Paci R. (2012) Knowledge assets and regional performance, prepared for a Special Issue in Growth & Change. To be presented at 52nd Congress of the European Regional Science Association (ERSA), Bratislava (Slovakia), August 2012
- Foddi M., Marrocu E., Paci R. and Usai S. (2012) Knowledge, human capital and regional performance, prepared for the volume: Capello R. and Lenzi C. (eds) The Territorial Dimension of the Knowledge Economy in Europe, Routledge.
- Lenzi C. "Smart learning and upgrading innovation strategies in a traditional industry: Evidence from the wine production in the province of Arezzo". Paper submitted to an international journal.
- Marrocu E. and Paci R. (2011), Education or Creativity: what matters most for economic performance? *Economic Geography*, forthcoming

Presented at the following conferences:

- DIME workshop, Pecs (Hungary), April 2011
- EEA-ESEM Conference, Oslo (Norway), August 2011
- 16th° IEA Conference, Beijing (China), July 2011
- 51st ERSA Conference, Barcelona (Spain), August 2011
- SIE Conference, Rome (Italy), October 2011
- Marrocu E., Paci R. and Usai S. (2011), Proximity, Networks and Knowledge Production in Europe, *Working Paper CRENOS*, 2011/09, (submitted to an international journal) Presented at the following conferences:
 - EAEPE conference, Wien (Austria), October 2011
 - 51st ERSA Conference, Barcelona (Spain), August 2011
 - 8th EU-REAL workshop, Alghero (Italy), September 2011
 - RES Conference Cambridge (UK), March 2012
 - Expert Workshop on "Innovation policies theoretical and empirical approaches",
 European Commission Joint Research Centre (JRC), Institute for Prospective Technological Studies (IPTS), Seville (Spain), 21st and 22nd May 2012
 - RSA European Conference, Delft (Belgium), May 2012
 - Euroscience Open Forum 2012, Dublin (Ireland), July 2012
- Marrocu E., Paci R. and Usai S. (2011), Productivity growth in the Old and New Europe: the role of agglomeration externalities, *Working Paper CRENoS* 2010/24, (submitted to an international journal)

Presented at the following conferences:

- 50th ERSA Conference, Jönköping (Sweden), August 2010
- 37th Eastern Economic Association, New York (USA), February 2011
- RES conference, London (UK), April 2011
- DIME workshop, Pecs (Hungary), April 2011
- BRICK Seminar, Torino (Italy), April 2011
- EPI conference, Parma (Italy), June 2011
- 16th° IEA Conference, Beijing (China), July 2011
- EEA-ESEM Conference, Oslo (Norway), August 2011
- 51st ERSA Conference, Barcelona (Spain), August 2011
- 8th EU-REAL workshop, Alghero (Italy), September 2011

- Miguélez E. "How do geographically mobile innovators influence network formation?" presented at:
 - XV Encuentros de Economía Aplicada, June, 2012, A Coruña (Spain)
 - XXXVII Simposio de la Asociación Española de Economía-Spanish Economic Association (SAEe), Vigo (Spain), December 2012.
- Miguélez, E., Moreno, R. (2012), "A relational approach to the geography of innovation. A typology of regions", *Journal of Economic Surveys*, 26 (3), 492–516, and presented at the 51st ERSA conference, Barcelona (Spain), August 2011
- Miguélez, E., Moreno, R. "Skilled Labour Mobility, Networks and Knowledge Creation in Regions: A Panel Data Approach", recently submitted to "the Annals of Regional Science", presented at the 51st ERSA conference, Barcelona (Spain), August 2011.
- Miguélez, E., Moreno, R. "Mobility of knowledge workers, research cooperation and regional innovation performance: A social network approach", presented at the 51st ERSA conference, Barcelona (Spain), August 2011
- Miguélez, E., R. Moreno (2012), "Research networks and inventors' mobility as drivers of innovation: Evidence from Europe", Regional Studies, published online first doi: 10.1080/00343404.2011.618803.
- Morgan S.: 'Innovation and the Knowledge Economy: KIT Project', presented at the ESPON Interstrat Conference Plannning For Growth: What Can We Learn From Europe, London (UK); September, 2011
- Morgan, S.L.: Innovation and development dynamics within creative media industries: the case of TV and Digital Media in Wales, to be presented at the 52nd ERSA Conference, Bratislava (Slovakia), August, 2012 and under submission for European Planning Studies
- Morgan, S.L.: Restructuring and alternative development strategies in the dairy industry in South West Wales, presented at The Regional Studies Association, European Conference, Delft (Belgium), May 2012 and under submission for European Planning Studies
- Paci R., The KIT project, Euroscience Open Forum 2012, Dublin (Ireland), July 2012
- Pástor R., "Knowledge creation and knowledge acquisition in the ICT industry in Slovakia" presented at
 - the 51st ERSA Conference, Barcelona (Spain), August 2011
 - 52nd ERSA Conference, Bratislava (Slovakia), August 2012
 Under submission at European Planning Studies
- Porter J.: 'Knowledge Spillover and Regional Growth: The case of Cardiff's creative industries', presented at the 51st ERSA Conference, Barcelona (Spain), August 2011
- Rodríguez-Pose A., Territorial Dynamics of Innovation in Emerging Countries, Workshop on Innovation, entrepreneurship and regional development, Tinbergen Institute and VU Universiteit Amsterdam (the Netherlands), May 2011
- Šipikal M., "Spillovers in automotive sector in Western Slovakia", paper presented at the 2nd International Winter Seminar of Regional Science, Nový Smokovec, Vysoké Tatry (Slovakia), March 2012. This paper is under submission at European Planning Studies

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