

## Note on Global MetroMonitor geographical definitions

This note provides further references for the geographic definitions employed for metropolitan areas in the Global MetroMonitor.

### United States

The U.S. Office of Management and Budget defines a metropolitan statistical area based on its containing an urban core of 50,000 or more population. Each metro area may consist of one or more counties including the county of the urban core as well as adjacent counties that have a high degree of social and economic integration (as measured by commuting to work) with the urban core.<sup>1</sup> The Global MetroMonitor profiles the 50 largest of these metro areas by GDP, according to estimates from Moody's Economy.com.

### Europe

For most European metro areas, the definition provided by European Observation Network for Territorial Development and Cohesion (ESPON) was used (2007).<sup>2</sup> In brief, this method calculated metro areas by aggregating NUTS3 areas. Exceptions to this rule were made for Dusseldorf (Rhein-Nord portion of the Rhein-Ruhr metropolitan area), Cologne (Rhein-Sud portion of the Rhein-Ruhr metropolitan area), Amsterdam (Randstad Nord portion of the Randstad metropolitan area), Rotterdam (Randstad Zuid portion of the Randstad metropolitan area) and Lille (the French/Belgian trans-border metropolitan area was used).

For Oslo, Zurich (Zurich and Winterthur), and Moscow (Federal City of Moscow), NUTS3 data were not available. For these metros, a definition from Cambridge Econometrics, equivalent to the ESPON definition, was used.<sup>3</sup>

### Other Regions

For most other metro areas, Oxford Economics defined metro areas based on available definitions from each respective location:

Alexandria	Contained within the Alexandria Governorate (one of Egypt's main administrative divisions).
Auckland	<a href="http://www.stats.govt.nz/surveys_and_methods/methods/classifications-">http://www.stats.govt.nz/surveys_and_methods/methods/classifications-</a>

<sup>1</sup> [http://www.whitehouse.gov/omb/infoereg\\_statpolicy/](http://www.whitehouse.gov/omb/infoereg_statpolicy/)

<sup>2</sup> European Observation Network for Territorial Development and Cohesion (2007). *ESPON Project 1.4.3: Study on Urban Functions*, Interreg III ESPON Programme. Available at: [http://www.espon.eu/export/sites/default/Documents/Projects/ESPON2006Projects/StudiesScientificSupportProjects/UrbanFunctions/fr-1.4.3\\_April2007-final.pdf](http://www.espon.eu/export/sites/default/Documents/Projects/ESPON2006Projects/StudiesScientificSupportProjects/UrbanFunctions/fr-1.4.3_April2007-final.pdf)

<sup>3</sup> European Observation Network for Territorial Development and Cohesion (2007). *ESPON Project 1.4.3: Study on Urban Functions*, Interreg III ESPON Programme. Available at: [http://www.espon.eu/export/sites/default/Documents/Projects/ESPON2006Projects/StudiesScientificSupportProjects/UrbanFunctions/fr-1.4.3\\_April2007-final.pdf](http://www.espon.eu/export/sites/default/Documents/Projects/ESPON2006Projects/StudiesScientificSupportProjects/UrbanFunctions/fr-1.4.3_April2007-final.pdf)

	<a href="http://www.bda.gov.in/and-standards/classification-related-stats-standards/urban-area/classification-and-coding-process.aspx">and-standards/classification-related-stats-standards/urban-area/classification-and-coding-process.aspx</a>
Bangalore	<a href="http://www.bdabangalore.org/Vision_Document_RMP2015_BDA.pdf">http://www.bdabangalore.org/Vision_Document_RMP2015_BDA.pdf</a>
Bangkok	<a href="http://geography.wincoll.ac.uk/pages/Pre-U/files/3A1/80_Bangkok/bangkok%20-%20migration,%20commuting%20and%20growth.pdf">http://geography.wincoll.ac.uk/pages/Pre-U/files/3A1/80_Bangkok/bangkok%20-%20migration,%20commuting%20and%20growth.pdf</a>
Belo Horizonte	<a href="http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html">http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html</a>
Brasilia	<a href="http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html">http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html</a>
Brisbane	<a href="http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view">http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view</a>
Buenos Aires	<a href="http://www.indec.mecon.ar/nuevaweb/cuadros/1/folleto%20gba.pdf">http://www.indec.mecon.ar/nuevaweb/cuadros/1/folleto%20gba.pdf</a>
Cairo	<a href="http://www.iied.org/pubs/pdfs/10572IIED.pdf">http://www.iied.org/pubs/pdfs/10572IIED.pdf</a>
Chennai	<a href="http://www.cmdachennai.gov.in/maps.html">http://www.cmdachennai.gov.in/maps.html</a>
Guadalajara	<a href="http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf">http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf</a>
Hyderabad	<a href="http://www.ghmc.gov.in/greaterhyd.asp">http://www.ghmc.gov.in/greaterhyd.asp</a>
Jakarta	<a href="http://www.indonesia.go.id/id/index.php?option=com_content&amp;task=view&amp;id=4075&amp;Itemid=1510">http://www.indonesia.go.id/id/index.php?option=com_content&amp;task=view&amp;id=4075&amp;Itemid=1510</a>
Johannesburg	<a href="http://www.demarcation.org.za/new_site/pages/downloads/maps/Gauteng/Gauteng_A0.zip">http://www.demarcation.org.za/new_site/pages/downloads/maps/Gauteng/Gauteng_A0.zip</a>
Kolkata	<a href="http://www.kmdaonline.org/pdf/aar08/1-5.pdf">http://www.kmdaonline.org/pdf/aar08/1-5.pdf</a>
Lima	<a href="http://www.inei.gob.pe/Anexos/libro.pdf">http://www.inei.gob.pe/Anexos/libro.pdf</a>
Manila	<a href="http://www.pia.gov.ph/mmio.asp?fi=home&amp;su=NCR">http://www.pia.gov.ph/mmio.asp?fi=home&amp;su=NCR</a>
Melbourne	<a href="http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view=">http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view=</a>
Mexico City	<a href="http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf">http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf</a>
Monterrey	<a href="http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf">http://www.inegi.gob.mx/est/contenidos/espanol/metodologias/otras/zonas_met.pdf</a>
Montreal	<a href="http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150">http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150</a>
Mumbai	<a href="http://www.mmrdamumbai.org/basic_information.htm">http://www.mmrdamumbai.org/basic_information.htm</a>
Nagoya	<a href="http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf">http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf</a>
New Delhi	<a href="http://www.urbanindia.nic.in/theministry/subordinateoff/tcpc/DMA_Report/CHAPTER_2.pdf">http://www.urbanindia.nic.in/theministry/subordinateoff/tcpc/DMA_Report/CHAPTER_2.pdf</a>
Osaka	<a href="http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf">http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf</a>
Rio de Janeiro	<a href="http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html">http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html</a>
Riyadh	Defined as the administrative city of Riyadh.
Sao Paulo	<a href="http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html">http://www.observatoriodasmetrodes.ufmg.br/metrodata/ibrm/index.html</a>
Seoul	<a href="http://www.sdi.re.kr/file/download/eng/seol/2007/13_eng.pdf">http://www.sdi.re.kr/file/download/eng/seol/2007/13_eng.pdf</a>
Sydney	<a href="http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view=">http://www.abs.gov.au/ausstats/abs@.nsf/Latestproducts/1216.0.55.003Main%20Features1May%202010?opendocument&amp;tabname=Summary&amp;prodno=1216.0.55.003&amp;issue=May%202010&amp;num=&amp;view=</a>
Taipei	<a href="http://sowf.moi.gov.tw/stat/month/m1-07.xls">http://sowf.moi.gov.tw/stat/month/m1-07.xls</a>
Tokyo	<a href="http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf">http://www.stat.go.jp/english/data/kokusei/2005/nihon/pdf/r07.pdf</a>

Toronto	<a href="http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150">http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150</a>
Vancouver	<a href="http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150">http://www12.statcan.ca/english/census06/data/popdwell/Table.cfm?T=201&amp;S=3&amp;O=D&amp;RPP=150</a>

Oxford Economics constructed proxies for metros that did not have a locally prescribed definition. For Beijing, Shanghai, and Tianjin, regional provinces defined the metro. For Shenzhen and Guangzhou, sub-provincial cities served as proxies. The countries of Singapore and Hong Kong were considered to be metro area equivalents. In Bogota, the capital district was used. For Santiago, the Santiago Metropolitan region, one of Chile's 15 first order administrative divisions, served as a proxy. Busan is an administrative division, equivalent to a province and proxy for a metro area. Kuala Lumpur and the surrounding Selangor region were used as a proxy for the metro area. Emirates were used for Abu Dhabi and Dubai. Cape Town metropolitan municipality, an administrative unit containing the city of Cape Town and all of the extended urban area, was used. Istanbul was established using official NUTS2 definition from the European Commission.<sup>4</sup>

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<sup>4</sup> [http://epp.eurostat.ec.europa.eu/portal/page/portal/region\\_cities/introduction](http://epp.eurostat.ec.europa.eu/portal/page/portal/region_cities/introduction)