



THE OECD ANALYTICAL AMNE DATABASE

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Koen De Backer and Sébastien Miroudot



The OECD analytical AMNE database: motivation

- Many claims about the important role of MNEs in the global economy
 - ... but a lack of empirical evidence
- Data are available only for a subset of OECD economies
 - ... and often incomplete
- In the case of trade, similar issues (particularly for trade in services) but still data are produced
 - Balanced analytical datasets (e.g. OECD/WTO on trade in services)
 - TiVA database (with an analysis of trade in value-added terms)
- Why not the same approach for AMNE data?



The OECD analytical AMNE database: overview (1)

- Starting point: official AMNE data collected by OECD and national statistical offices
 - FDI information used to identify sectors with no foreign affiliates
- Framework for consistency: WIOD database (based on official national accounts)
 - Output, value-added and trade by country and industry
 - Will be replaced by TiVA Inter-Country Input-Output tables in the next update
- Estimation of missing data:
 - Mirror statistics (outward AMNE data)
 - Shares (e.g. missing years)
 - Gravity estimates
 - Optimisation (global balancing)



The OECD analytical AMNE database: overview (2)

- Content:
 - Complete matrices for the output, value-added and exports of foreign affiliates
 - Split input-output tables for domestic-owned and foreign-owned firms
 - Allows an analysis of multinational production in value-added terms
 - Domestic companies are further split between domestic MNEs and non-MNEs for recent years: coverage of all MNE activities (not just affiliates)
- Coverage:
 - 43 countries (as host and parent economies) and a ‘rest of the world’ (full world coverage)
 - 43 industries (ISIC rev. 4)
 - 2000-2014



The OECD analytical AMNE database: methodology

- The methodology is described in: “Multinational enterprises and global value chains: the OECD analytical AMNE database”, OECD Trade Policy Paper No. 211
- How are the data constructed?
 - First stage: Reconciling AMNE data with the ICIO framework
 - Initial output matrix with hard data
 - Estimation of missing values
 - Balanced bilateral output matrix
 - Value-added and exports are estimated using existing data and a shares approach
 - Second stage: Splitting and balancing of the ICIO according to ownership

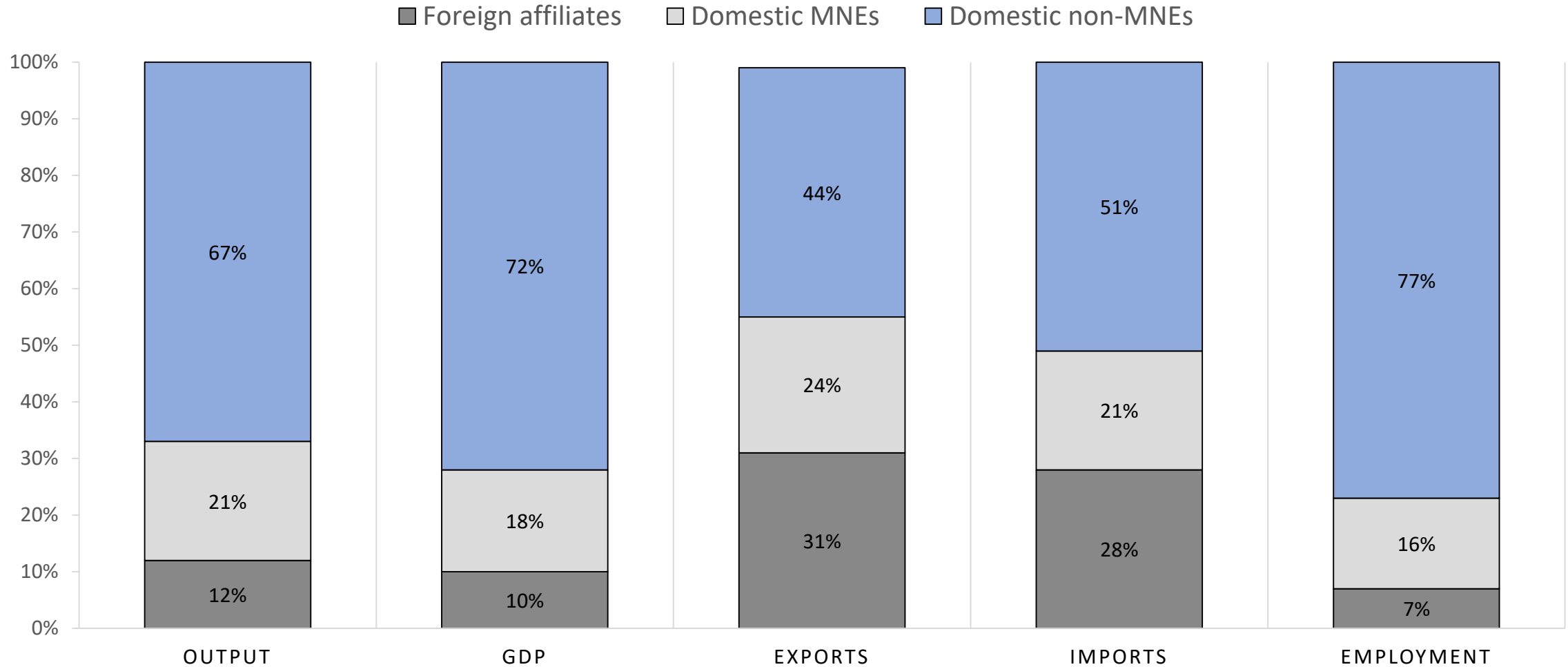


Policy analysis based on the OECD analytical AMNE database

- “Multinational enterprises and global value chains: New insights on the trade-investment nexus”, OECD Science, Technology and Industry Working Papers No 2018/05
- “Multinational production and trade in services”, OECD Trade Policy Paper No. 212
- “Multinational enterprises in domestic value chains: a closer look at the domestic linkages of foreign affiliates”, TAD/TC/WP(2018)12

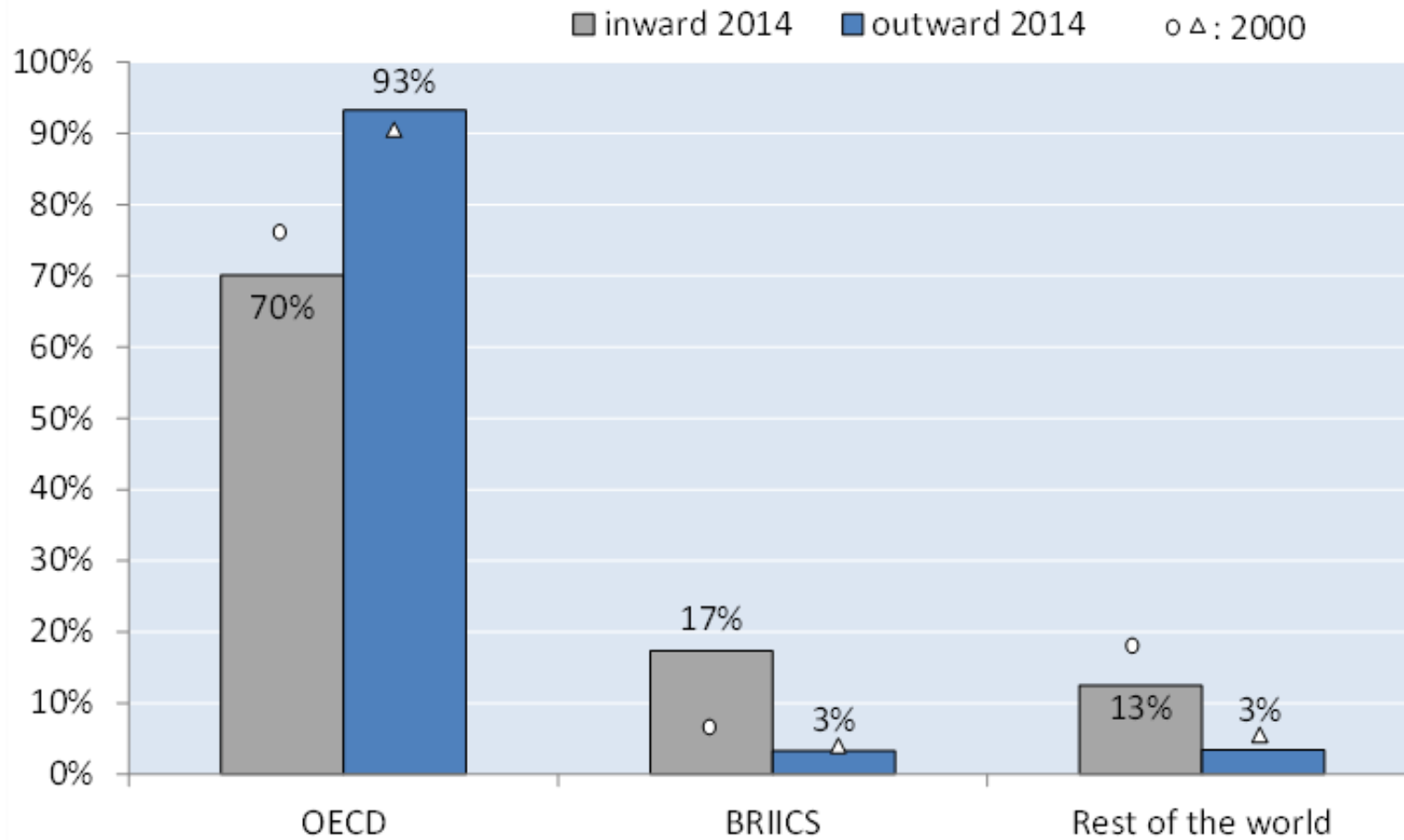


The importance of MNEs in the world economy, 2014



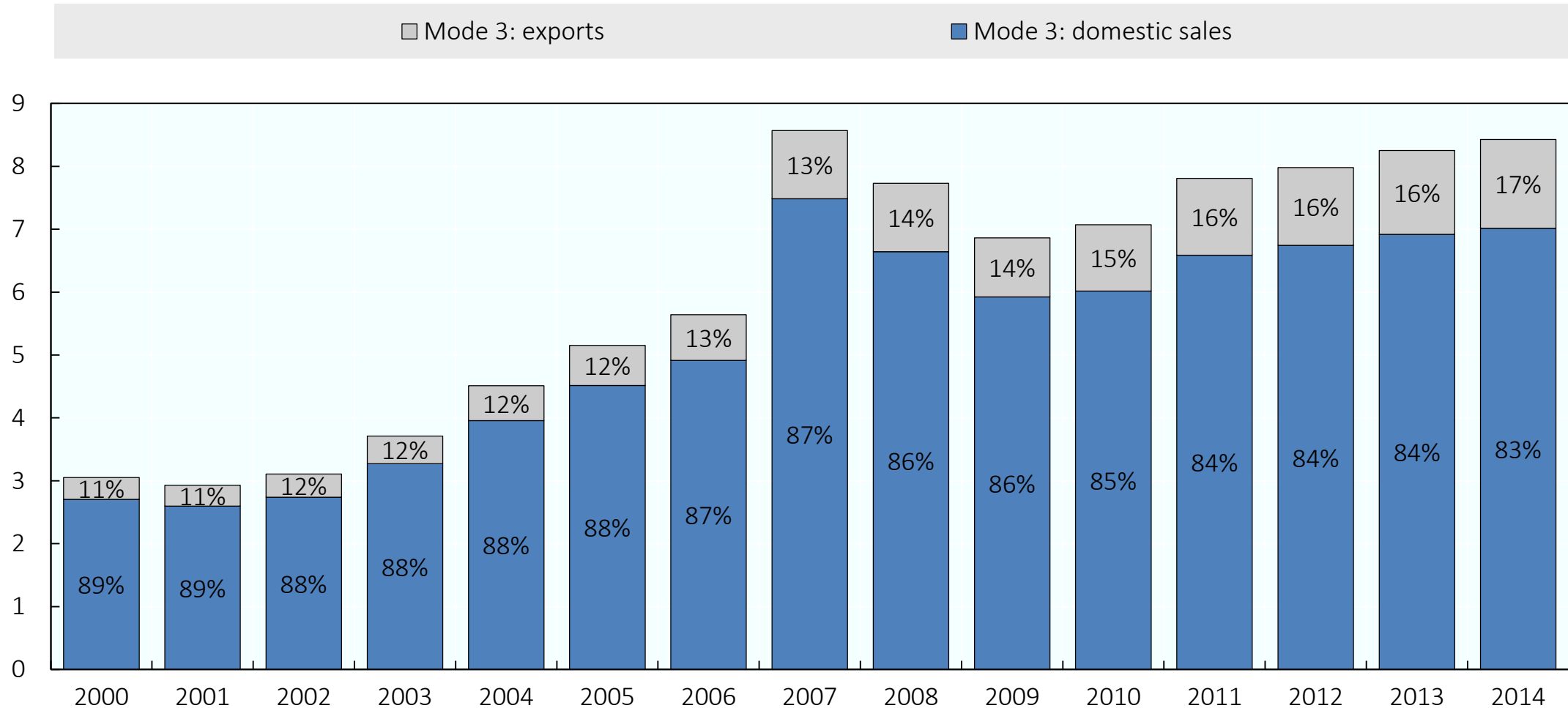


Share of regions in the global output by foreign affiliates (inward and outward), 2014 and 2000





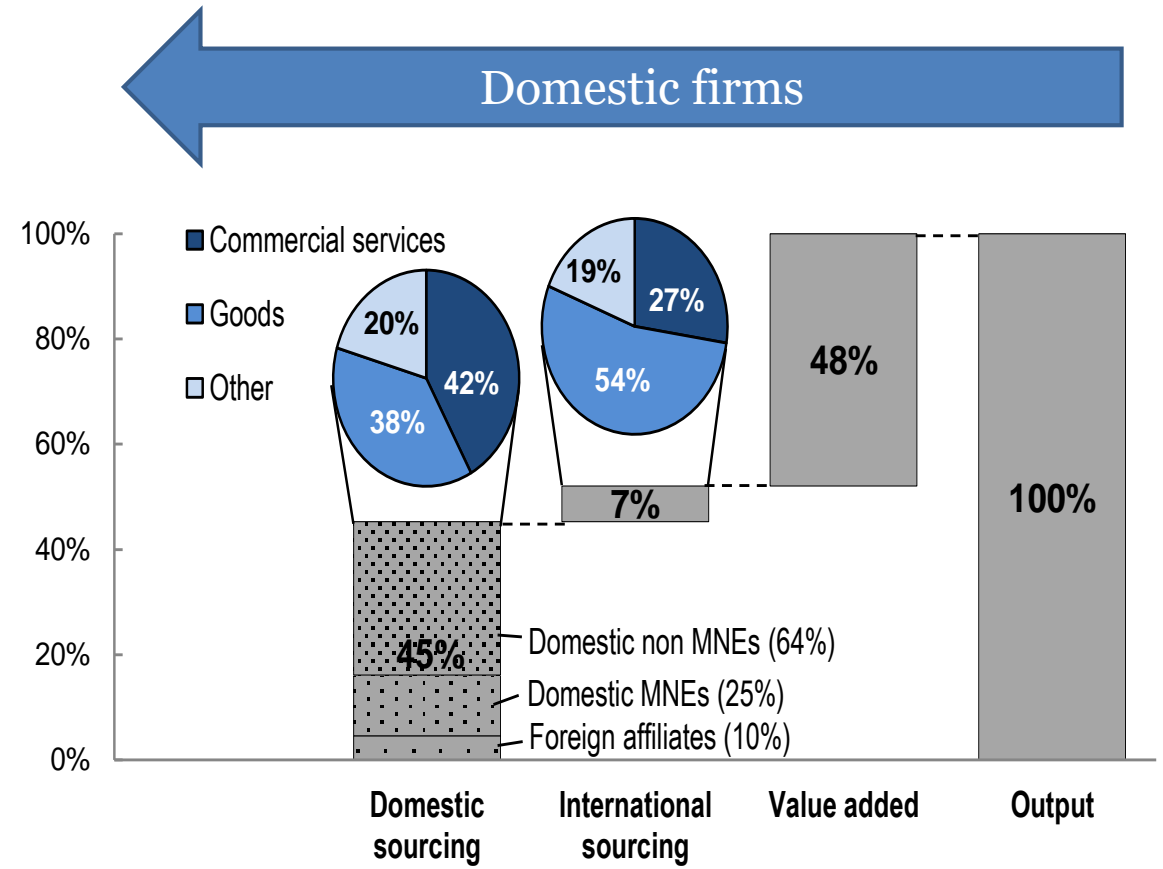
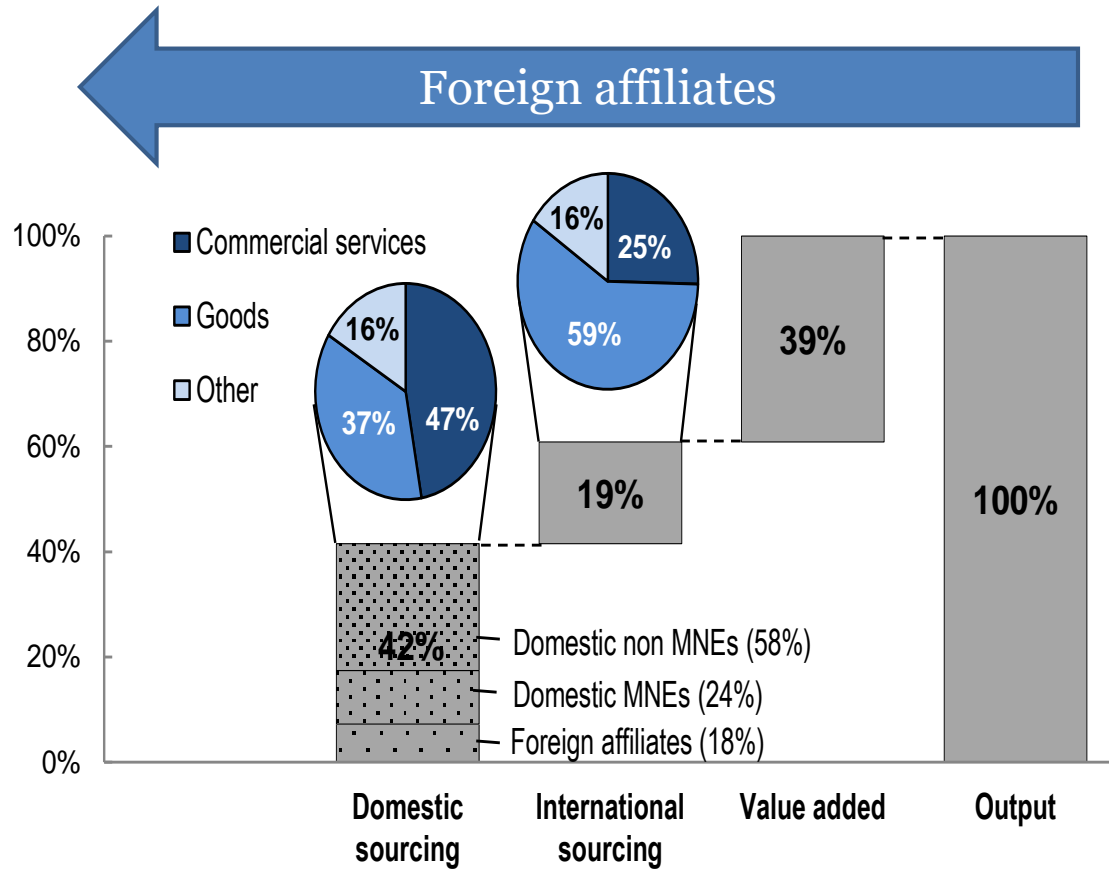
First world estimates of trade in services according to 'mode 3', USD trillion, 2000-2014



Source: Analytical AMNE database

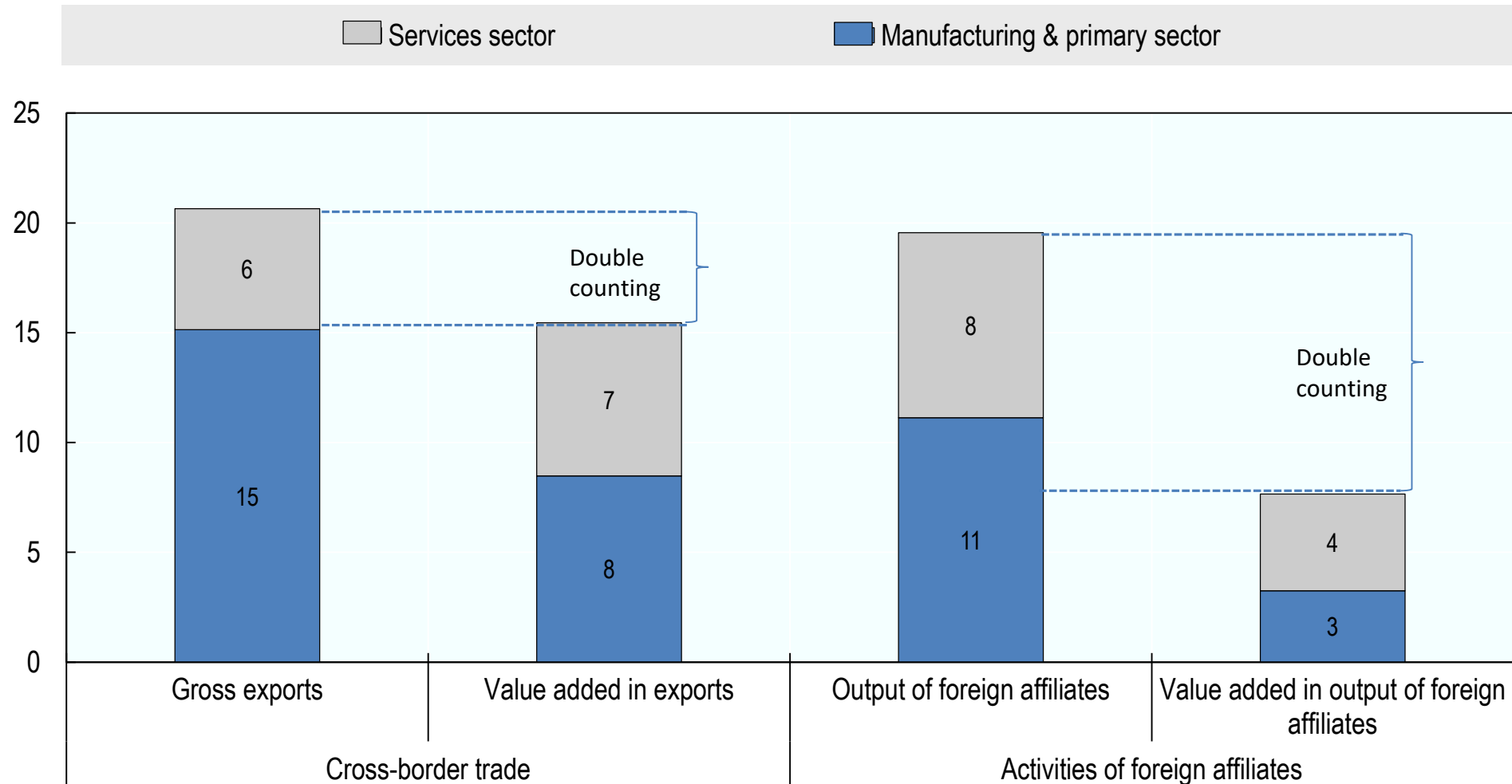


Sourcing structure of foreign affiliates and domestic firms (world total, 2014)





World exports and output of foreign affiliates in gross and value-added terms, USD trillion, 2014





Next steps

- Get more data from countries
 - On-going efforts at OECD (e.g. eSUT experts group, TEC, etc.)
 - And in national statistical offices (BEA, CBS, Nordic countries, etc.)
- Improve the methodology to estimate the missing information
- Benchmark the data on the new TiVA ICIO (more recent information from national accounts)
- New joint project between DAF, STI and TAD: trade, investment and intangibles
 - Extension to capital (physical and intangible)
 - Tracking income payments, in particular related to intangible assets



- The team

Andrea Andrenelli, Charles Cadestin, Koen De Backer, Isabelle Desnoyers- James, Sébastien Miroudot, Laurent Moussiégt, Davide Rigo, Ming Ye

- Information available at <http://www.oecd.org/sti/ind/analytical-amne-database.htm> or oe.cd/gvc-mne
 - Methodological paper
 - Analytical papers
 - Policy notes
 - Database... forthcoming