The European Commission's science and knowledge service

Joint Research Centre

OVERVIEW OF CONCEPTUAL FRAMEWORK OF GVC ACCOUNTING Discussion

Dr. José M. Rueda-Cantuche *European Commission*

Handbook on Accounting for Global Value Chains

Meeting of the Expert Group on International Trade

and Economic Globalization Statistics

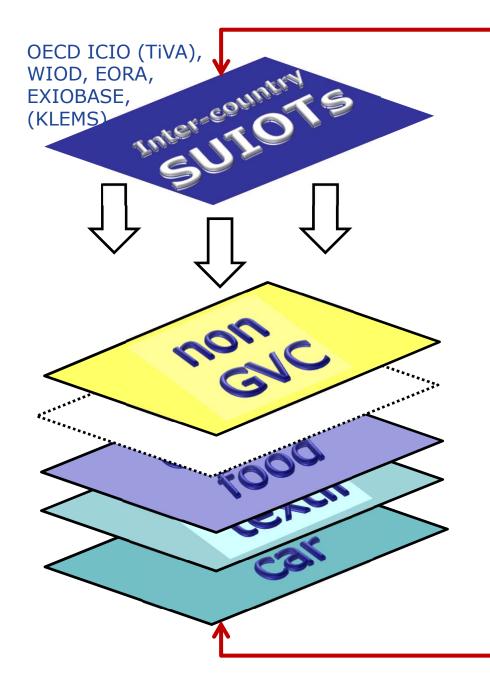
Rome, May 7-9, 2018



Overview of Conceptual Framework Of GVC Accounting

- 1. Data framework: Role of E-SUTs and GVC-SUTs in the Handbook
- 2. Empirical data challenges
- 3. Use of GVC SUTs for policy analysis



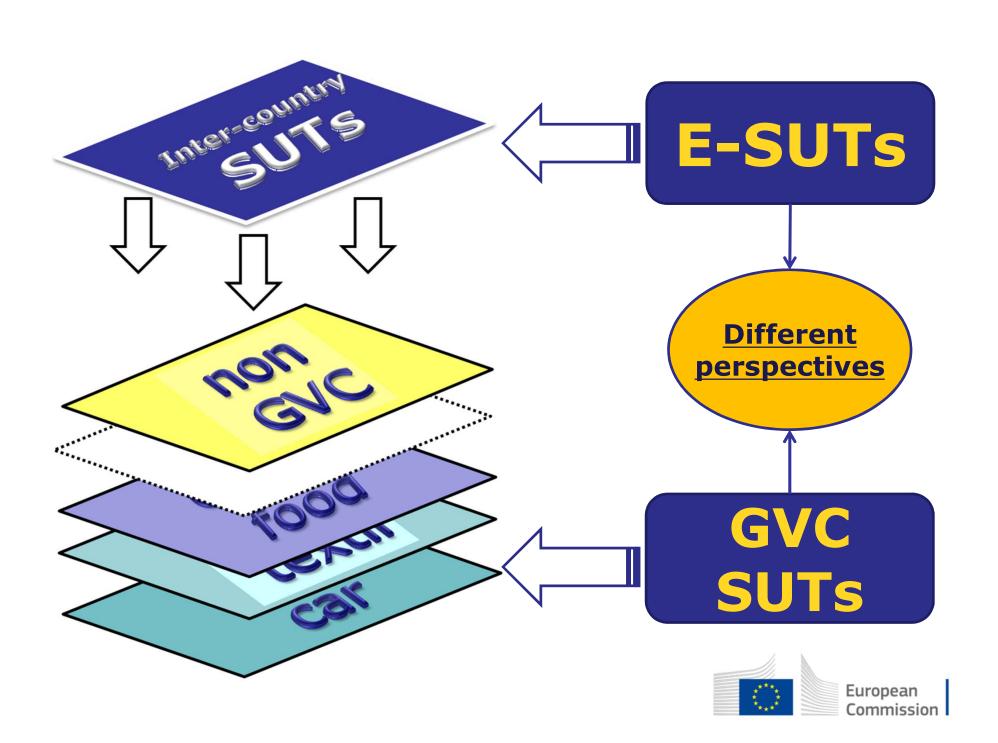


Relevant features for GVCs

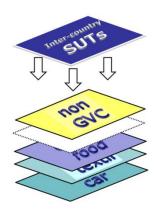
(and footprints) merged and hidden across products and industries throughout the SUTs, such as:

- √ Size of firms
- √ Exporter status
- ✓ Ownership status
- ✓ Global manufacturing firm
- ✓ Processing firm
- √ Firms operating in FTZs
- ✓ Business functions
- √ Factory less producers
- ✓ and others (e.g. KLEMS)...





GVC SUTs





- ✓ Specific GVC (car, food...)
- ✓ Co-location, EU, regions...
- ✓ Business functions (industry)
- ✓ More detailed product levels
- ✓ Governance
- ✓ Coordination across NSIs



GVC specific analyses (micro)

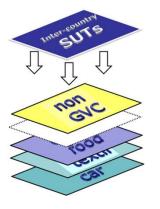
- ✓ No specific GVC
- ✓ Global focus
- ✓ Business functions (industry)
- ✓ Less detailed product level
- ✓ No explicit governance
- ✓ Use of shares over SUTs



GVC specific analyses (macro)









How should this new GVC accounting framework report the close inter-connection between E-SUTs and GVC-SUTs?

- More recognition of the previous work on E-SUTs (TiVA initiative) precursor of GVC SUTs
- 2. Recognition that the **E-SUTs is generally conceived for a macro perspective** and GVC SUTs from a more micro/specific GVC chain perspective, presenting different features



2. Empirical data challenges of GVC SUTs

- ✓ Estimation of **missing import trade flows** and domestic **trade and transport** margins
- ✓ Processing firms and merchanting activities
- ✓ International transport and insurance costs (CIF-FOB)
- ✓ Reconciling **trade asymmetries** (OECD TiVA)
- ✓ **Direct purchases** abroad
- ✓ Building up GVC-IOTs or use **GVC-SUTs for analysis**
- ✓ Coordination across NSIs: data and methodology
- ✓ Consistency with national totals: discrepancies



3. Use of GVC SUTs for policy analysis

- ✓ Multirregional Input-Output Analysis (MRIO) has become a crucial tool to analyse GVCs at macro level (using available world IO tables: OECD-WTO TiVA, WIOD...):
 - ✓ Decomposition of gross exports: DVA, FVA, DC
 - ✓ Measurement of trade in value added terms (RCA)
 - ✓ Forward/backward participation in GVCs
 - ✓ Upstreamness/downstreamness & average length
 - ✓ Productivity analysis: K, L (KLEMS)
- **✓ Bring MRIO to the analysis of specific GVCs**
- ✓ Standard MRIO (TALES) and/or **Supply-Use Based Econometric IO multipliers**



Thank you!!

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