

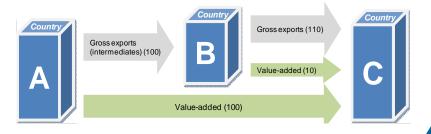








Gross trade statistics increasingly 'multiple count' flows in intermediates as the production process develops over several countries...



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...meaning that gross trade statistics may create 'misleading perceptions' and imperfect policies



For example....

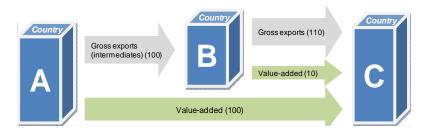
- Where are our export markets?
- What do we specialise in?
- Which sectors create most value and jobs?
- Does protectionism work? Is it counterproductive. Are imports 'bad'?
 - Are there costs on importers of intermediates, particularly when they are significant exporters.
 - What about those firms further upstream providing inputs to the imports?
- How should we interpret bilateral trade balances?

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How can we respond?

• By measuring the **value** that is **added** by individual firms in the production process





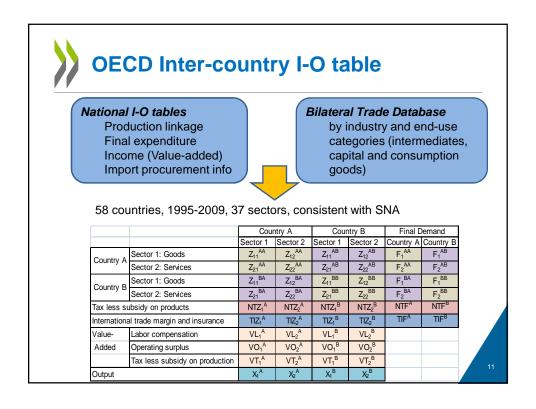
3: FOGLIGHTS – WHAT STATISTICS ARE NEEDED TO RESPOND TO GVCS

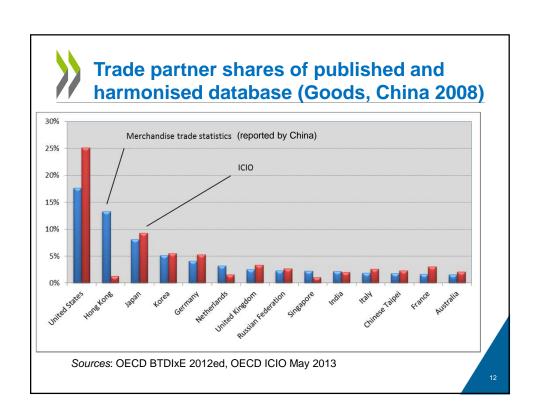
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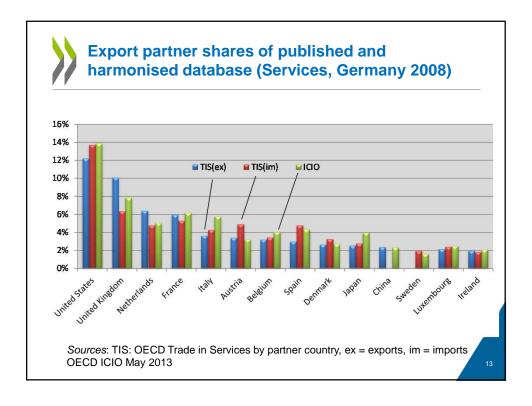


How do we measure TiVA?

 Using a global Input-Output table







>>

OECD Inter-Country I-O model

57 economies + Row, 1995-2009, 37 sectors

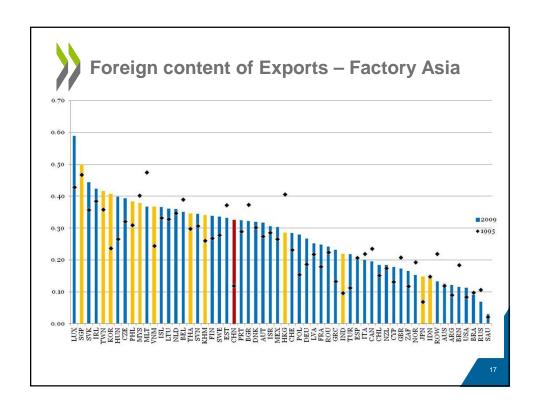
OECD	All OECD 34 countries
BRIICS	Brazil, China, India, Indonesia, Russian Federation, South Africa
Other EU27	Bulgaria, Cyprus, Latvia, Lithuania, Malta, Romania
Other G20	Argentina, Saudi Arabia
Other South Eastern Asia	Brunei Darussalam, Cambodia, Malaysia, Philippines, Singapore, Thailand, Viet Nam
Other Eastern Asia	Chinese Taipei, Hong Kong China
Other	Rest of the World

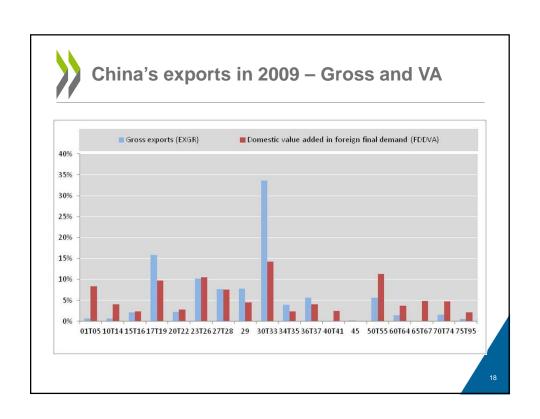
Industry

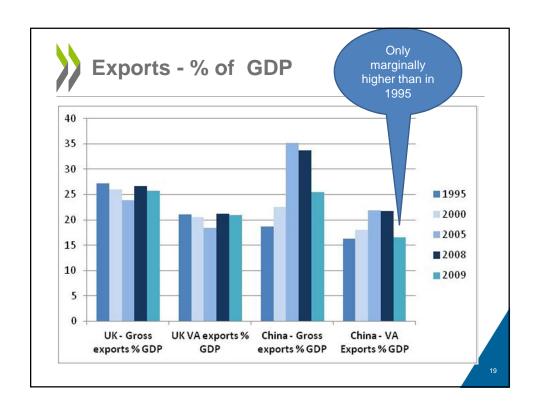
SIC rev3	Industry	ISIC rev3	Industry	
01,02,05	Agriculture, hunting, forestry and fishing	40 - 41	Utility	
10 - 14	Mining and quarrying	45	Construction	
15 - 16	Food products, beverages and tobacco	50 - 52	Wholesale and retail trade; repairs	
17 - 19	Textiles, textile products, leather and footwear	55	Hotels and restaurants	
20	Wood and products of wood and cork	60 - 63	Transport and storage	
21 - 22	Pulp, paper, paper products, printing and publishing	64	Post and telecommunications	
23	Coke, refined petroleum products and nuclear fuel	65 - 67	Finance and insurance	
24	Chemicals	70	Real estate activities	
25	Rubber and plastics products	71	Renting of machinery and equipment	
26	Other non-metallic mineral products	72	Computer and related activities	
27	Basic metals	73	Research and development	
28	Fabricated metal products	74	Other Business Activities	
29	Machinery and equipment, nec	75	Public admin. and defence; compulsory social security	
30	Office, accounting and computing machinery	80	Education	
31	Electrical machinery and apparatus, nec	85	Health and social work	
32	Radio, television and communication equipment	90 - 93	Other community, social and personal services	
33	Medical, precision and optical instruments	95	Private households with employed persons	
34	Motor vehicles, trailers and semi-trailers			
35	Other transport equipment			
36 - 37	Manufacturing nec; recycling (include Furniture)			

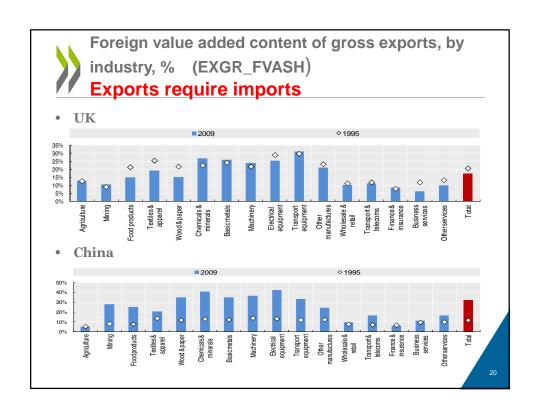


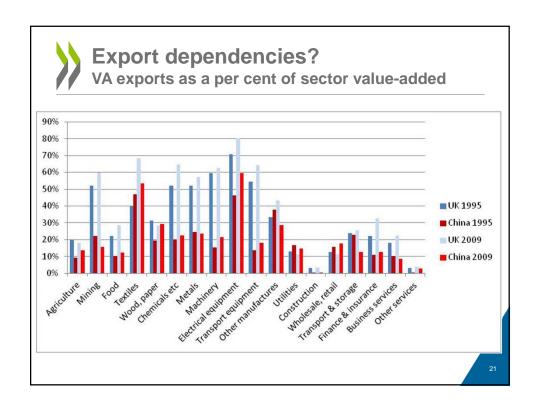
4: DRIVING WITH THE LIGHTS ON WHAT DOES THE TIVA DATABASE REVEAL?

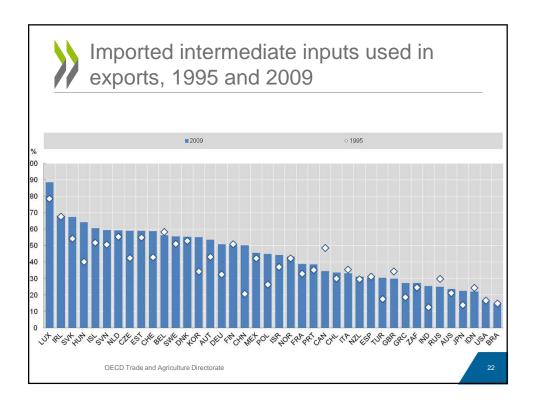


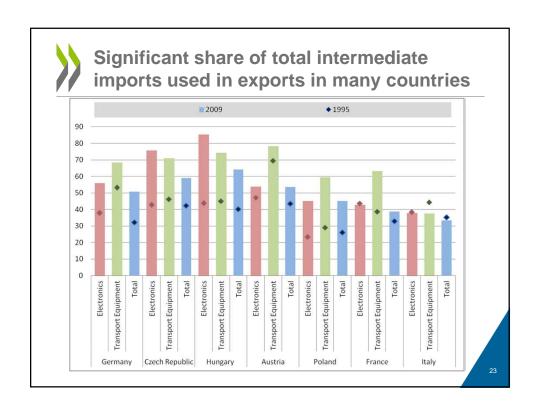


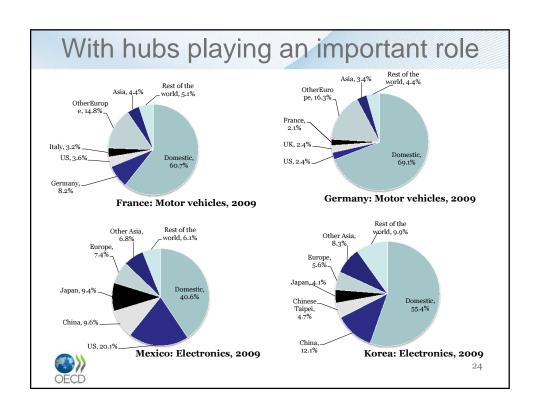


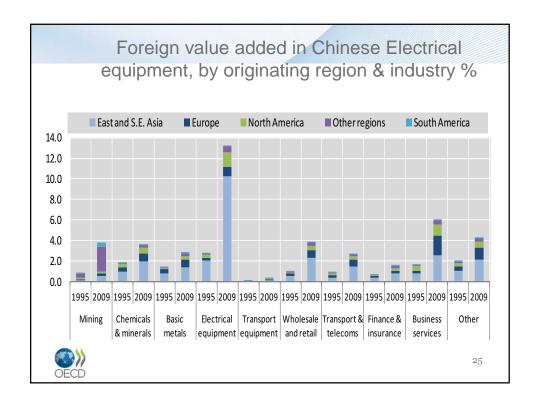


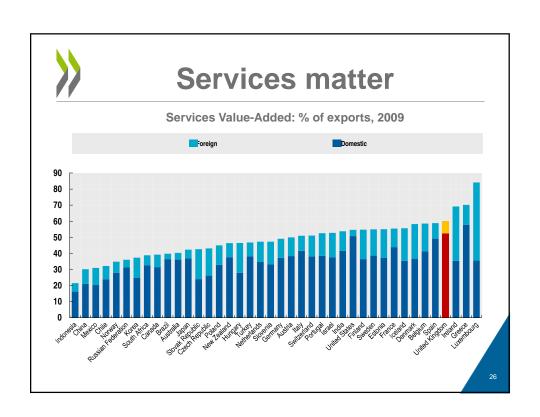


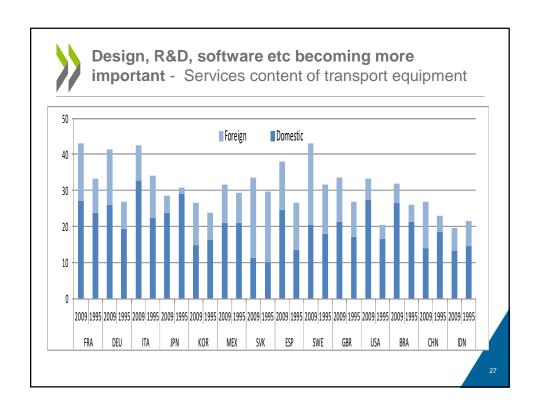


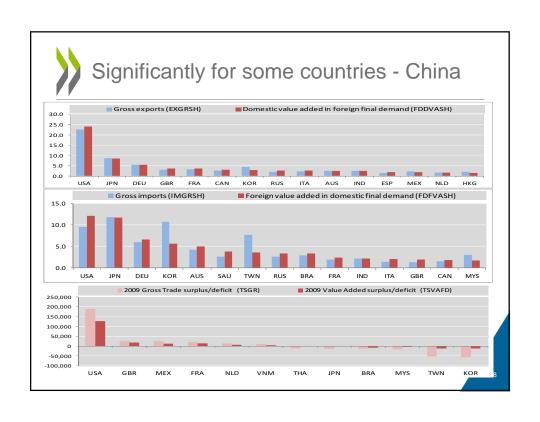


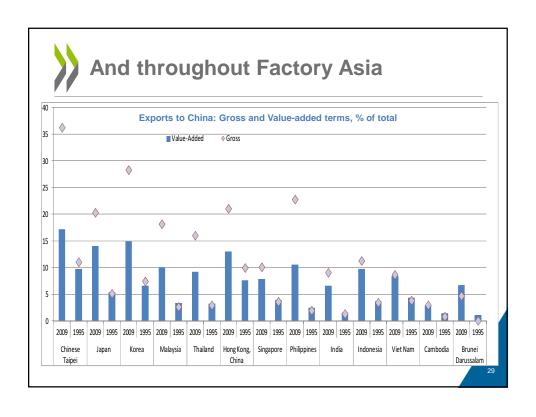


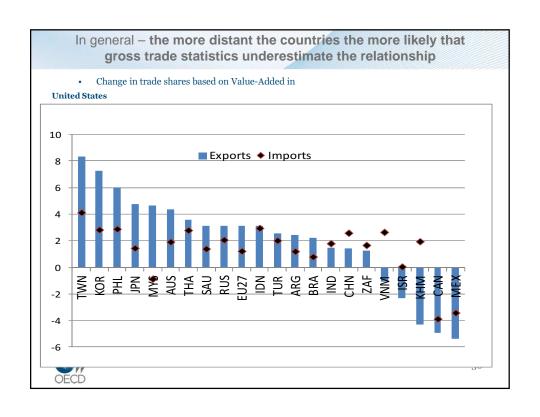


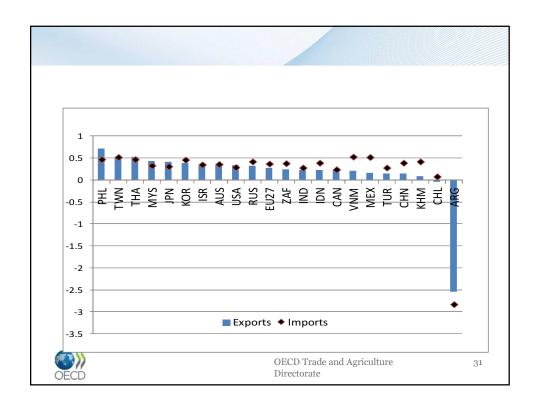


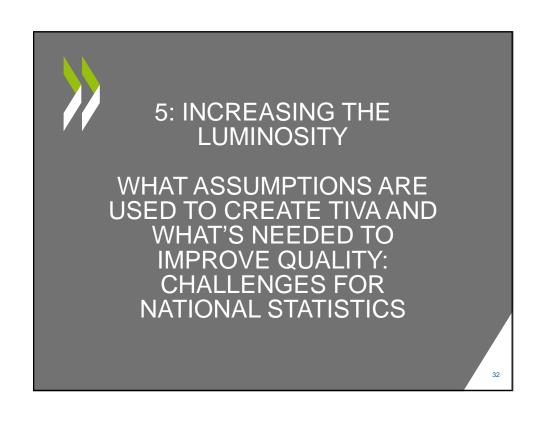














Research rewrites global trade data Whilst there are limitations to the widespread calculation of areit its ^{Tra}trade in value-added data, the niti-'orld NA OECD-WTO initiative is to be the ernaan the applauded for providing a more revealing look into global trade IR Bloor and integration and for 15t apaving the way for further ILY Hand development in this area. ElFinanciero REUTERS THE ECONOMIC TIMES

But it is important to stress

- That this is a work in progress and that results are estimates (with two key assumptions)
- But they are robust enough to already begin to highlight
 - the need for policies to account for GVCs
- But perhaps more importantly, they highlight
 - the importance of capacity building and better statistics
- Improving data quality is essential
 - Coherent estimates of trade in goods and services
 - A new approach to Supply-Use Tables?
 - With a focus on <u>stages and trade</u> rather than industries, per se, to better reflect firm heterogeneity (particularly MNEs).



Import/export intensities, factoryless firms, processors, ownership

What can be done now?

- Improved GROSS trade data
 - Import flow matrices
 - Better bilateral trade statistics (integrated with SU tables) and globally consistent
 - Intelligent confidentiality rules (suppress 6 digit not 2 digit HS)
 - Re-export data
 - Second hand goods, scrap and waste.
 - SERVICES -EBOPS 2012.



Examples of current inconsistencies in bilateral trade statistics (Services 2009)

	Exports	Imports	
	to UK	by UK	Difference
USA	50,479	27,366	23,113
DEU	28,030	13,235	14,795
IRL	18,907	6,138	12,769
ESP	24,511	14,513	9,998
LUX	8,279	743	7,536
JPN	11,064	4,443	6,621
NLD	12,222	6,281	5,941
BEL	8,619	3,237	5,381
NOR	7,161	1,852	5,309
HKG	6,596	1,474	5,122
GRC	6,211	3,145	3,066
SWE	5,054	2,711	2,343
RUS	3,789	2,003	1,786
KOR	2,148	567	1,581
CAN	3,376	1,919	1,457
DNK	3,510	2,172	1,338
ITA	8,118	6,872	1,246
PRT	3,358	2,351	1,007

	Imports from UK	Exports by UK	Difference
USA	49,304	38,996	10,308
NLD	13,142	12,359	783
FRA	12,410	11,687	722
NZL	648	485	163

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What else can be done....now?

- Capitalise on existing data to create new indicators on exporting and importing firms
- Beyond TEC: Linking trade registers, business registers and SBS
 - OECD Workshop on linking business and trade statistics: 25-26
 October 2012
 - Exploring **feasibility** of creating new indicators based on export (and import) intensities, **ownership** and size.
 - And also provides stepping stone for trade in income related to investment
 - Changes to classification systems to better reflect globalisation:
 - Factoryless producers (UNECE Task Force on Global Production)

OECD

OECD



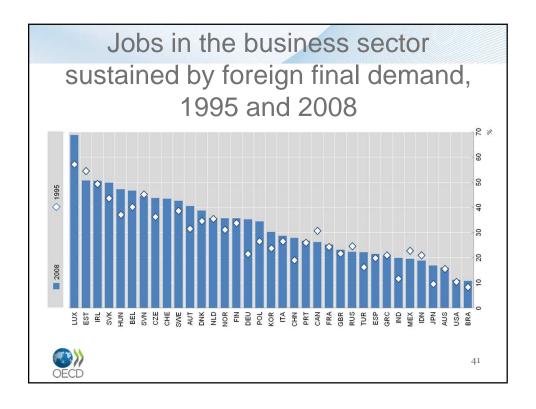
6.1 GOING BEYOND TIVA – 'STAGES' AND 'TASKS'

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Extensions

- Trade in jobs and skills
 - But requires
 - Coherent employment and value-added data
 - Also important for productivity estimates
 - And significant improvement in skills data (and occupations)







Extensions

- Trade in Income related to Investment: Ownership matters:
 - Because value added does not always stick (compensation for use of knowledge based assets – where increasingly registration is determined by tax environment)
 - And because flows for use of IPPs are often recorded as property income and not trade in services.
 - 30% of total business sector VA in 2009 in the UK generated by foreign owned firms, 15% of GDP. Accounting for the underlying flows could further change trade relationships, even though differences between GNI and GDP are small.
 - In Japan for example Primary income flows (GNI minus GDP) were equivalent to about one-quarter of total TiVA flows.
- Need better FATS data, particularly on value-added and employment.
 - MSITS 2010 Compilers Guide

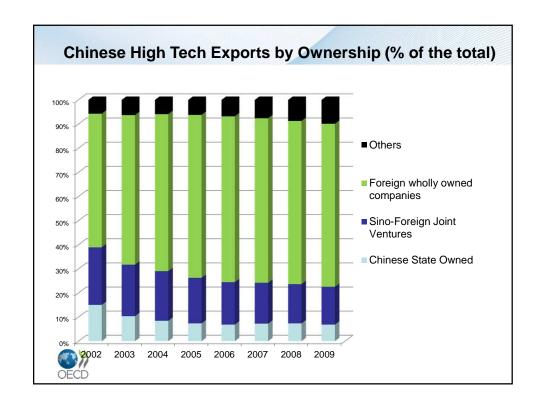


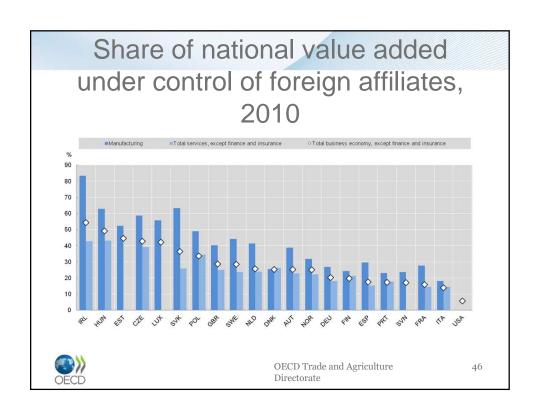
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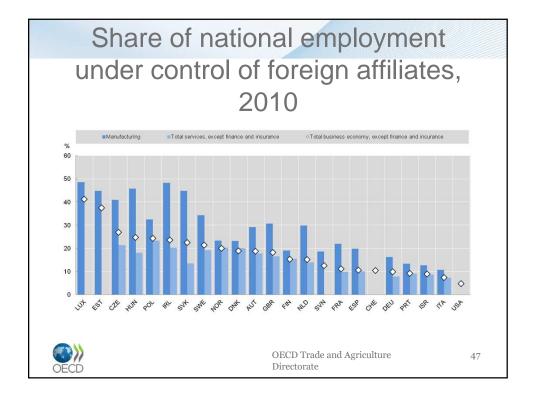
Trade in Income?

- How important is it?
 - Potentially Very
 - About 70% of China's gross exports made by foreign affiliates
 - E.g. between 1995 and 2007, Japanese foreign affiliates increased their employment in China eightfold from just over 100,000 employees to over 1000,0000 and by 300,000 (to over 400,000) in Thailand, with similar patterns in other ASEAN countries, such as the Philippines, Malaysia and Indonesia.
 - And Japan's primary income trade surplus increased by around \$100 billion over the period to 2009, more than offsetting the \$50 billion reduction in its gross trade surplus over the same period.









Summary – What's needed

- New thinking on SU tables
- Better gross trade data
- Links to microdata
- Income, Ownership and FATS



Further information

- www.oecd.org/trade/valueadded
- <u>Video:</u>
 http://www.youtube.com/watch?feature=pl
 ayer embedded&v=RZKX-oSK41U
- OECD Workshop on Measuring TiVA
 5-6 December 2013

