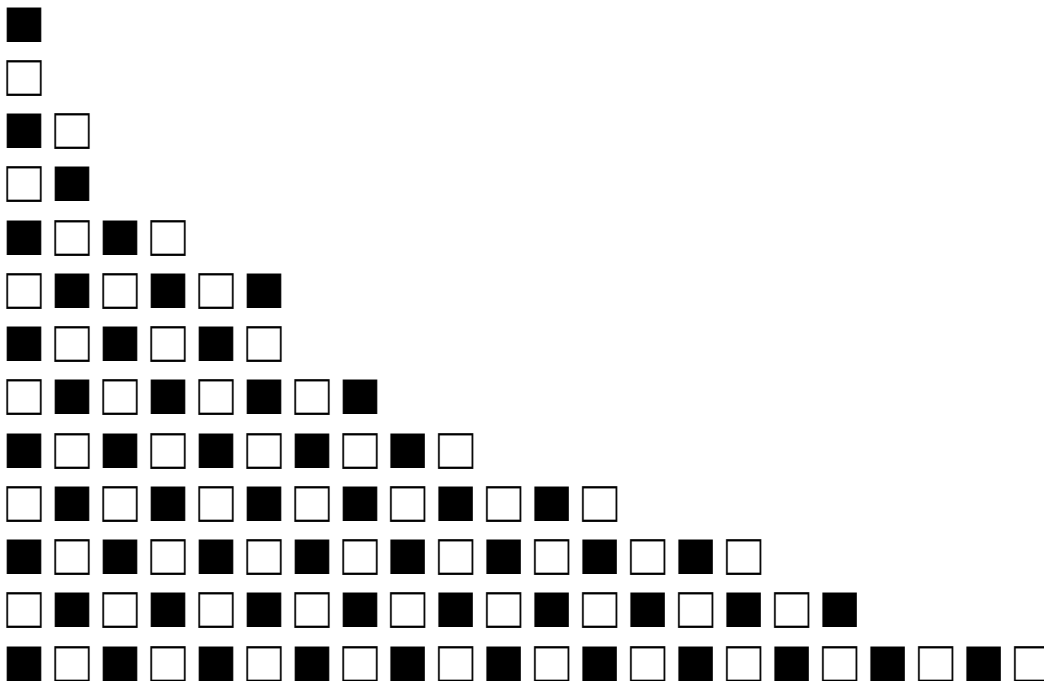
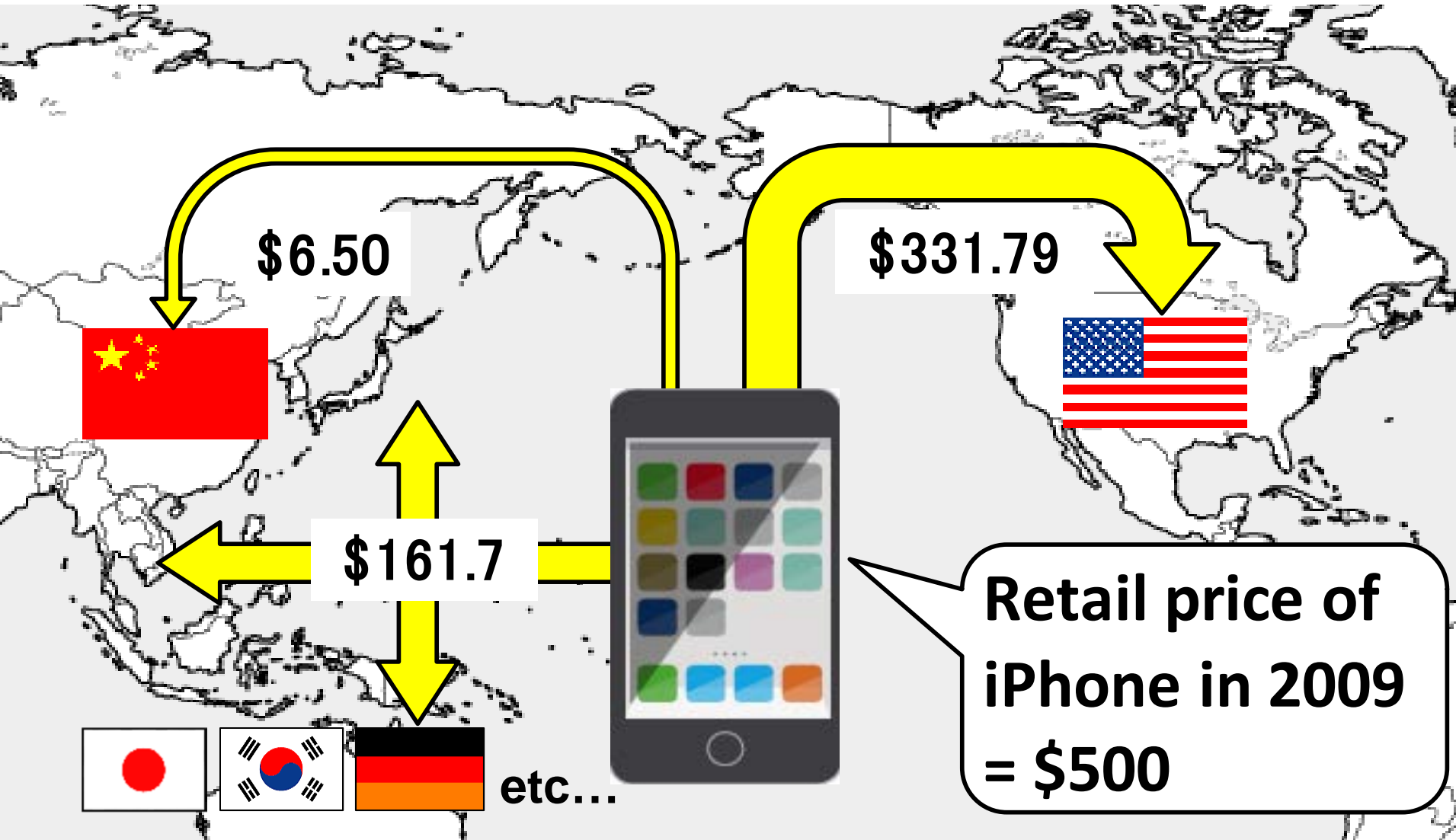


Trade in Value-added: Its concept and application

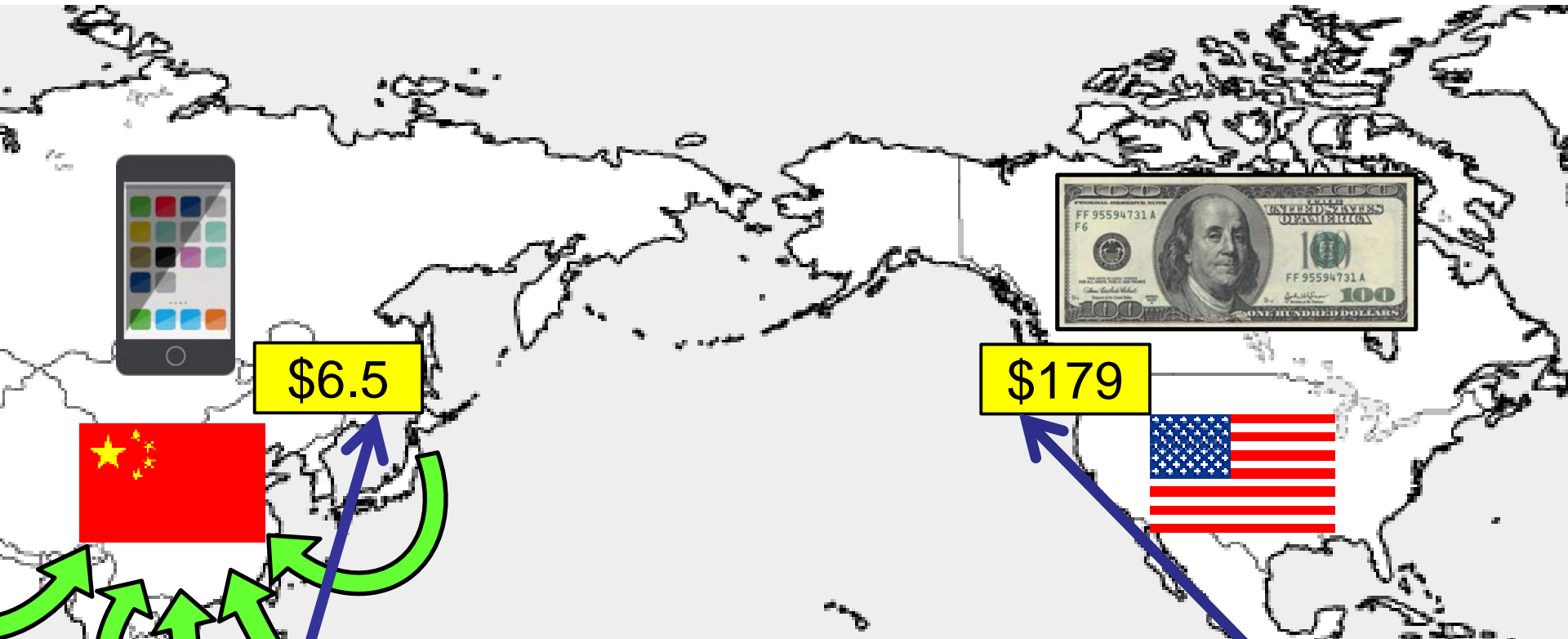


Satoshi Inomata
IDE-JETRO

International value distribution of iPhone



A problem of gross trade statistics



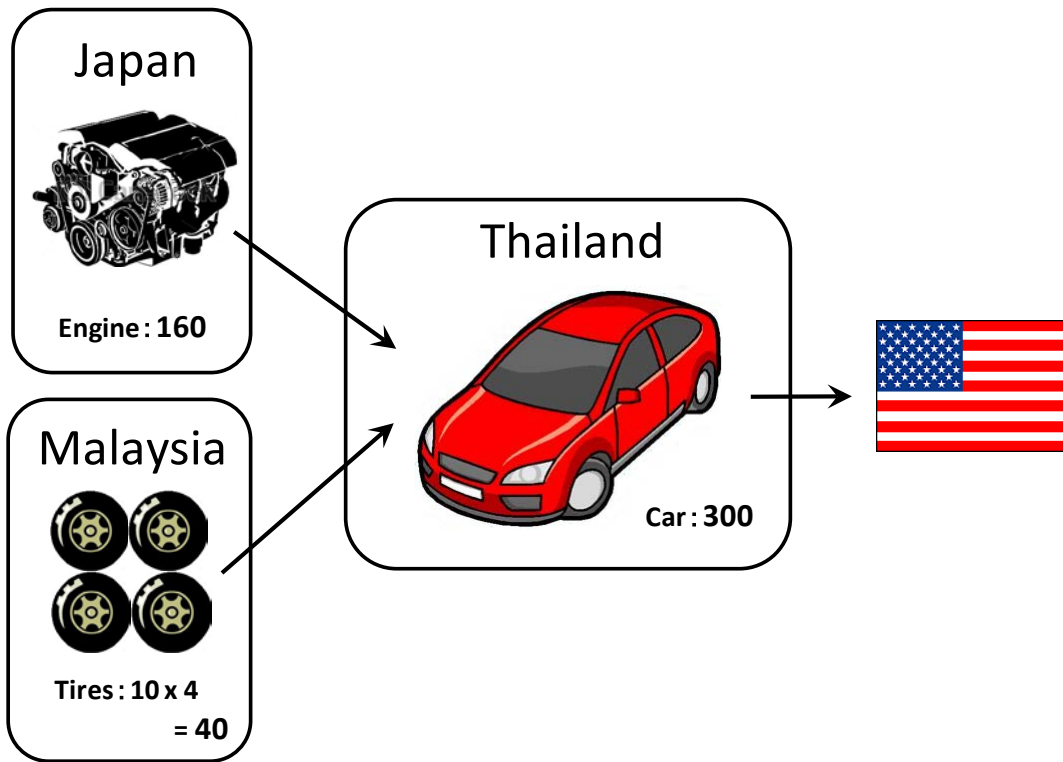
The current trade statistics record **the amount of China's export** which has no relevance to **the real picture** of manufacturers in China.

**Trade in value-added
measures**

international trade as

a flow of values

rather than of products.



	Traditional measurement	Value-added measurement
① Japan → Thailand	160	0
② Malaysia → Thailand	40	0
③ Thailand → USA	300	100
④ Japan → USA	0	160
⑤ Malaysia → USA	0	40
⑥ Total traded values	160+40+300=500	100+160+40=300

Intermediate Demand CHINA

Intermediate Demand U.S.A.

Final Demand CHINA

Final Demand U.S.A.

Agri- culture Manu- facturing Services

Agri- culture Manu- facturing Services

Cons- umption Invest- ment

Cons- umption Invest- ment

Export to RoW

CHINA

Agriculture
Manufacturing
Services

A^{CC}

A^{CU}

F^{CC}

F^{CU}

L^{CW}

U.S.A.

Agriculture
Manufacturing
Services

A^{UC}

A^{UU}

F^{UC}

F^{UU}

L^{UW}

REST OF THE WORLD

Agriculture
Manufacturing
Services

A^{WC}

A^{WU}

F^{WC}

F^{WU}

Value-added

Wages
Profits
Depreciation
Taxes

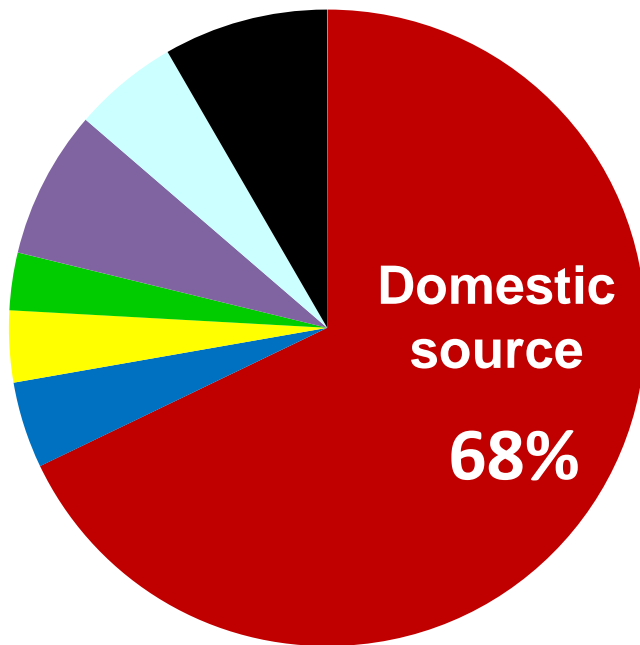
V^C

V^U

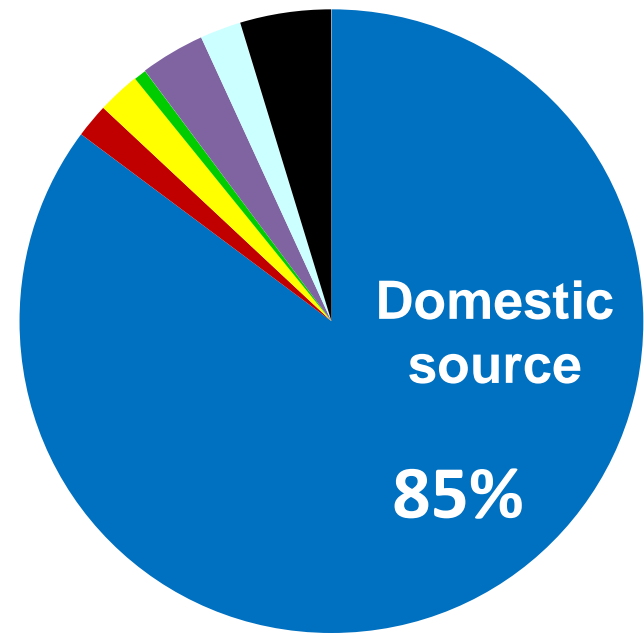
**Bilateral IIOT
between
China and USA**

The origins of value-added embodied in export (2008)

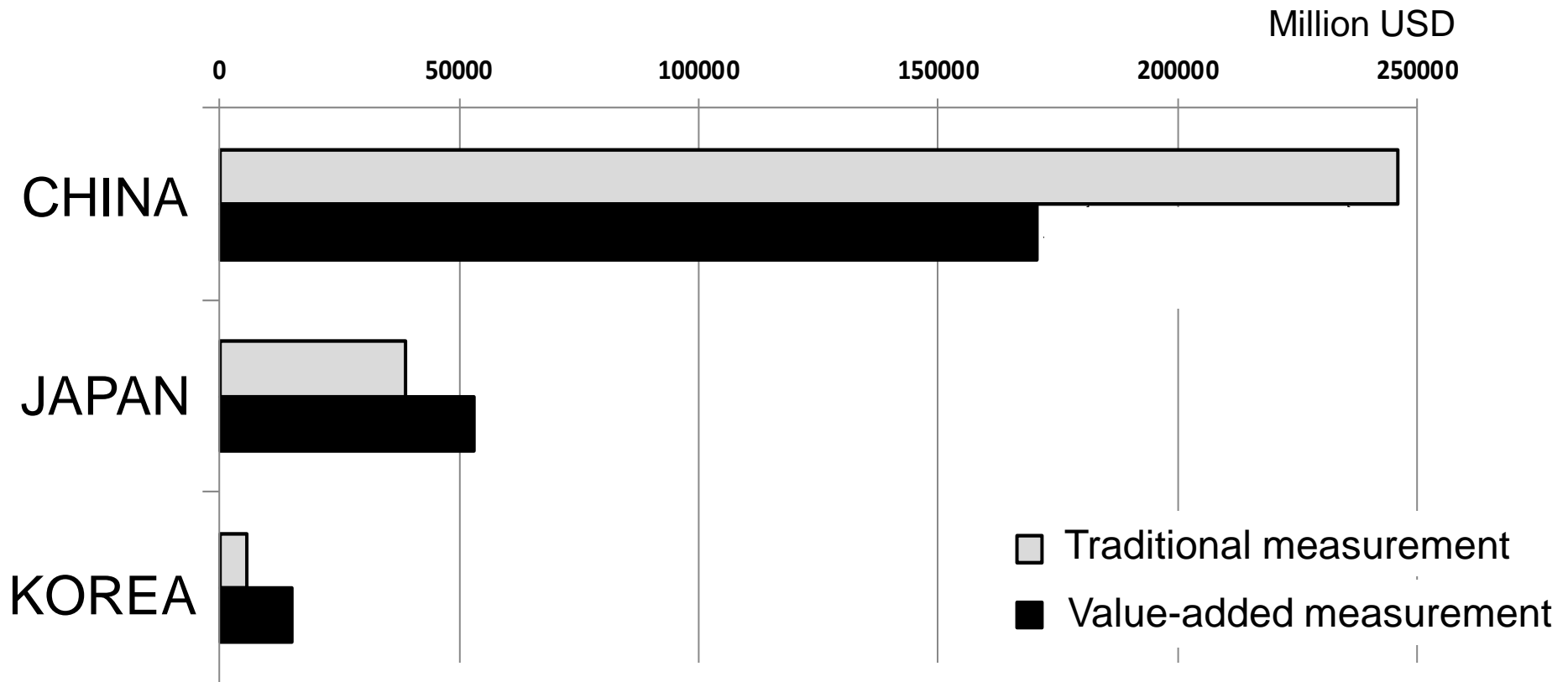
China's export



Japan's export



US trade deficit with selected Asian countries (2008)



Database Name	Number of countries	Number of industries and products	Years	Availability of data
AIOT	10 (8 for 1975 table)	76 products (56 for 1975 table, 77 for 1985 table)	1975, 1985, 1990, 1995, 2000, 2005	Yes
EORA	187	Varying across countries; simplified version with 26 industries	1990-2012	Yes
EXIOBASE	43 countries; 5 world regions	220 products; 163 industries	2000, 2007	Yes
FIGARO	28 EU countries; USA; Rest of the World	64 industries; 64 products	2010; 2010-2017 (in progress)	Yes
GTAP-MRIO	140 GTAP regions	57 GTAP commodities	2004, 2007, 2011	Only to GTAP members
OECD-ICIO	64 (including Rest of the World)	34 industries; 34 products	1995, 2000, 2005, 2008-2011; nowcasted for 2012-2014	Yes (TiVA indicators only)
WIOD (2013 release)	41 (including Rest of the World)	35 industries; 35 products	1995-2011	Yes
WIOD (2016 release)	44 (including Rest of the World)	56 industries; 56 products	2000-2014	Yes