

Introduction of the Survey on China Imports Use

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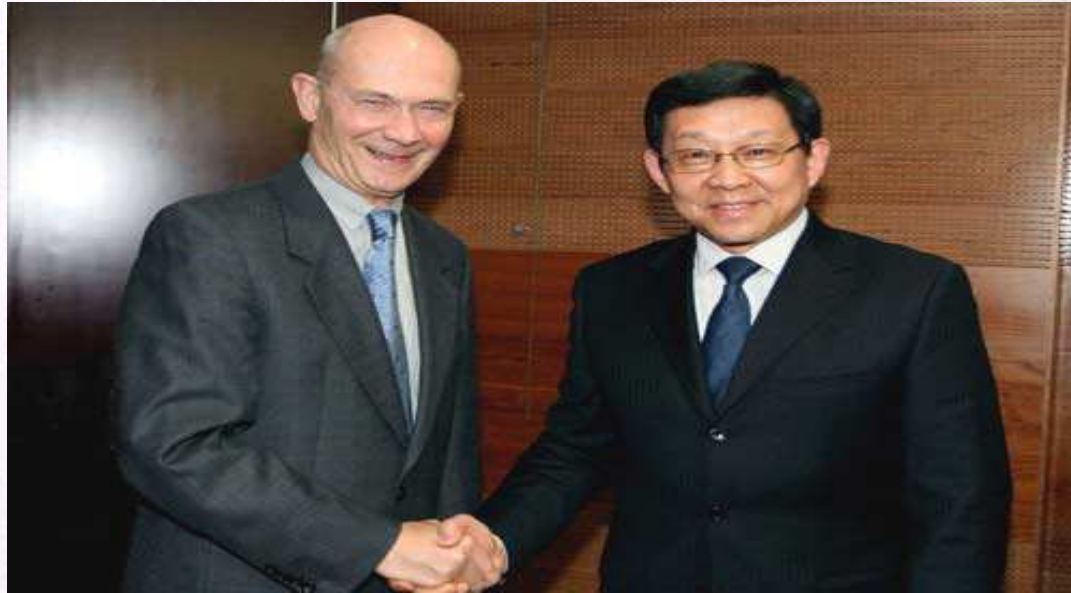
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Comparation with 10 survey



1、 Background





- The international trade is increasingly dominated by trade in parts and components due to globalization of supply chain
- China is dwell at the lower end of GVC, exports: 40%+ processing trade, Imports: a large amount of intermediate (parts&componets)
- Current trade statistics standard on gross export no longer give accurate information on value added obtained by export country





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- **Research: WTO,OECD,USITC,IDE-JETRO**
- **Lamy suggests “trade in value-added” as a better measurement of world trade**





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A Non-Competitive Input-Output Table

		Intermediate Use	Final Use	Gross Domestic Output or Imports
		P1, P2,..., pn		
Intermediate Inputs from domestic production	P1 : Pn	W^D	F^D	X^D
Intermediate Inputs from Imports	P1 : Pn	W^M	F^M	M
Value-added		V_C		
Total inputs		X^D		





Survey On imports use

- Pilot survey on 2010 imports
- Research study

- National input output survey 2012



2. Methodology



Objective

调查目的

In order to acquire imports use matrix:
the distribution data of imports for the use as intermediate input in different industrial sectors



Coverage

调查范围

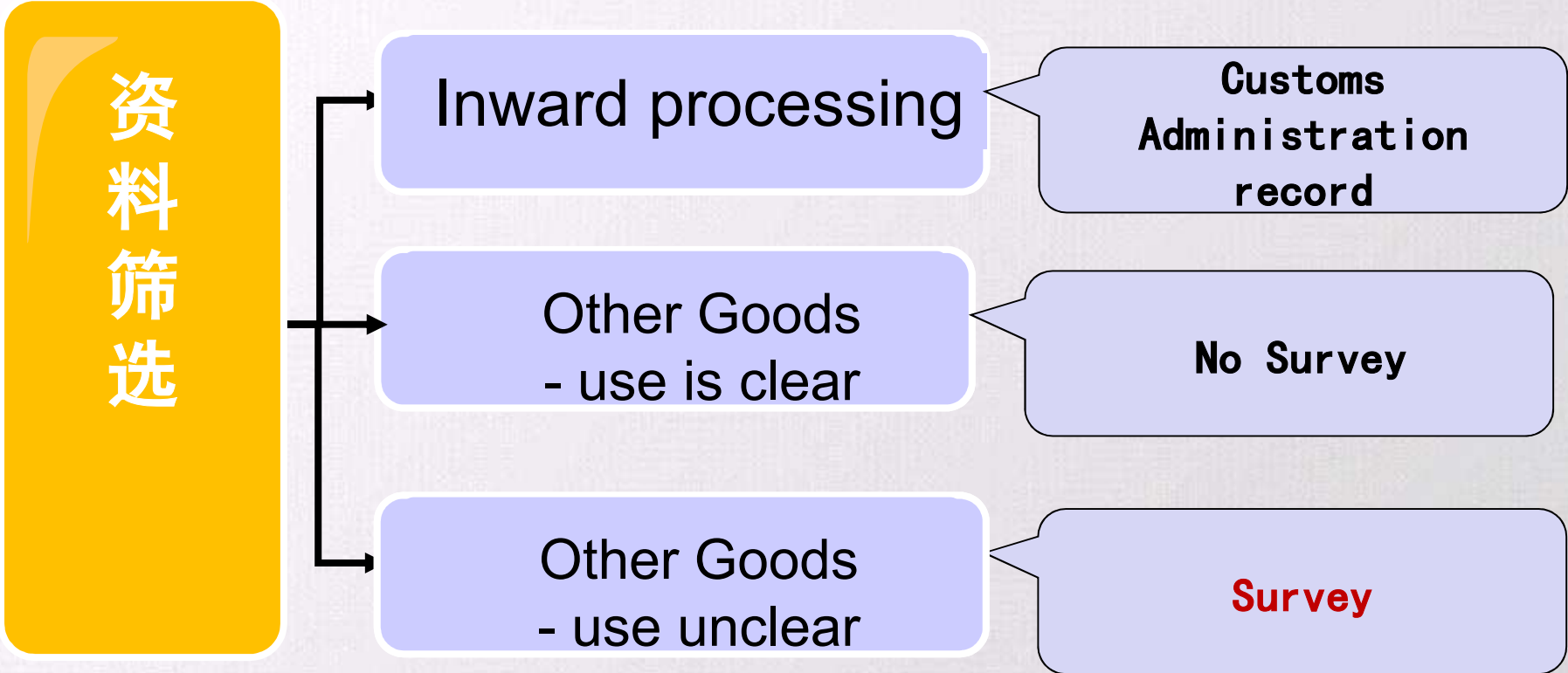
Import data

Commodities on HS8

Data on importer/enterprise level



Data selection



Other Goods- use unclear

非加工
一般
货物

- Questionnaire
- Importer/Enterprise
- HS8
- Proportion in % of value of the use in different industry sectors of this product



2012 Questionnaire

HS:XX Import value (10,000US\$) : XX Proportion : XX.X%

Sector I	Sector II (Input /output industry)		Ratio in % of use	remarks
Intermediate	01	agriculture		
	02	Forestry		
	03	Live stock		
		
	139	Public management /social organization		
Final use	XX	Final consumption		
	ZZ	Capital goods		



Management

基本分工

- Head quarter (GACC):
Methodology, online questionnaire,
Data verification
- Customs districts: enterprise
survey within the district, promotional
work, data verification
- Local customs: enterprise survey
within the district, visit enterprises



Customs Announcements

中华人民共和国海关总署

公 告

2013 年 第 57 号

为使海关统计全方位、多角度反映我国对外货物贸易的发展状况，更好地服务于国家宏观经济决策，并为核算我国贸易增加值提供高质量的基础性统计资料，根据全国投入产出调查工作总体部署，海关总署决定在去年试点工作基础上，继续开展 2012 年进口货物使用去向调查工作，现将有关事项公告如下：

一、调查目的

了解进口货物国内使用去向的金额比例。

— 1 —



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Promotional events



Online questionnaire system

中国2012年投入产出 —— 进口货物使用去向调研系统



用户登录

用户名:

密码:

验证码: 1071 [更换图片](#)

登录

重置

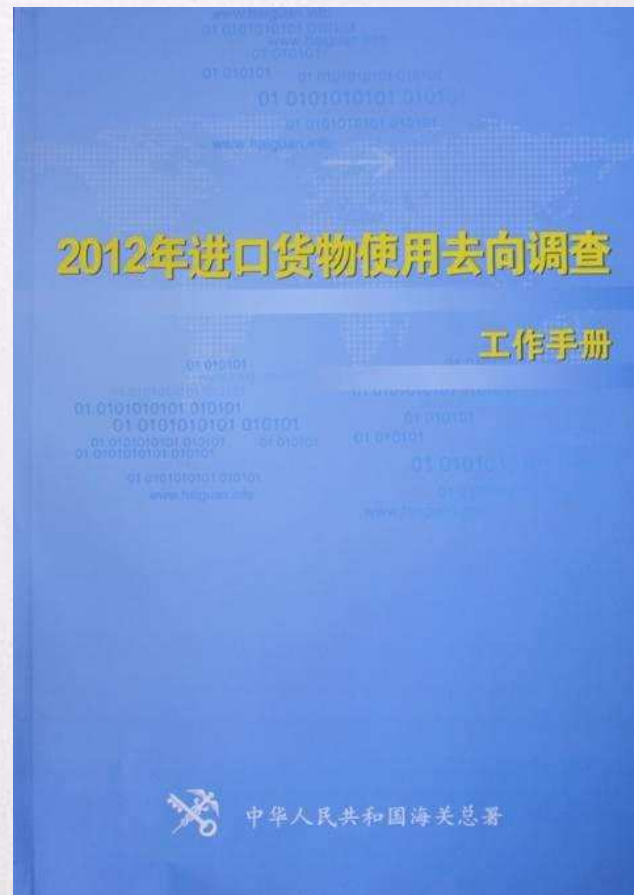
仅限指定授权企业登陆
如有问题, 请与直属海关联系

[忘记密码?](#)



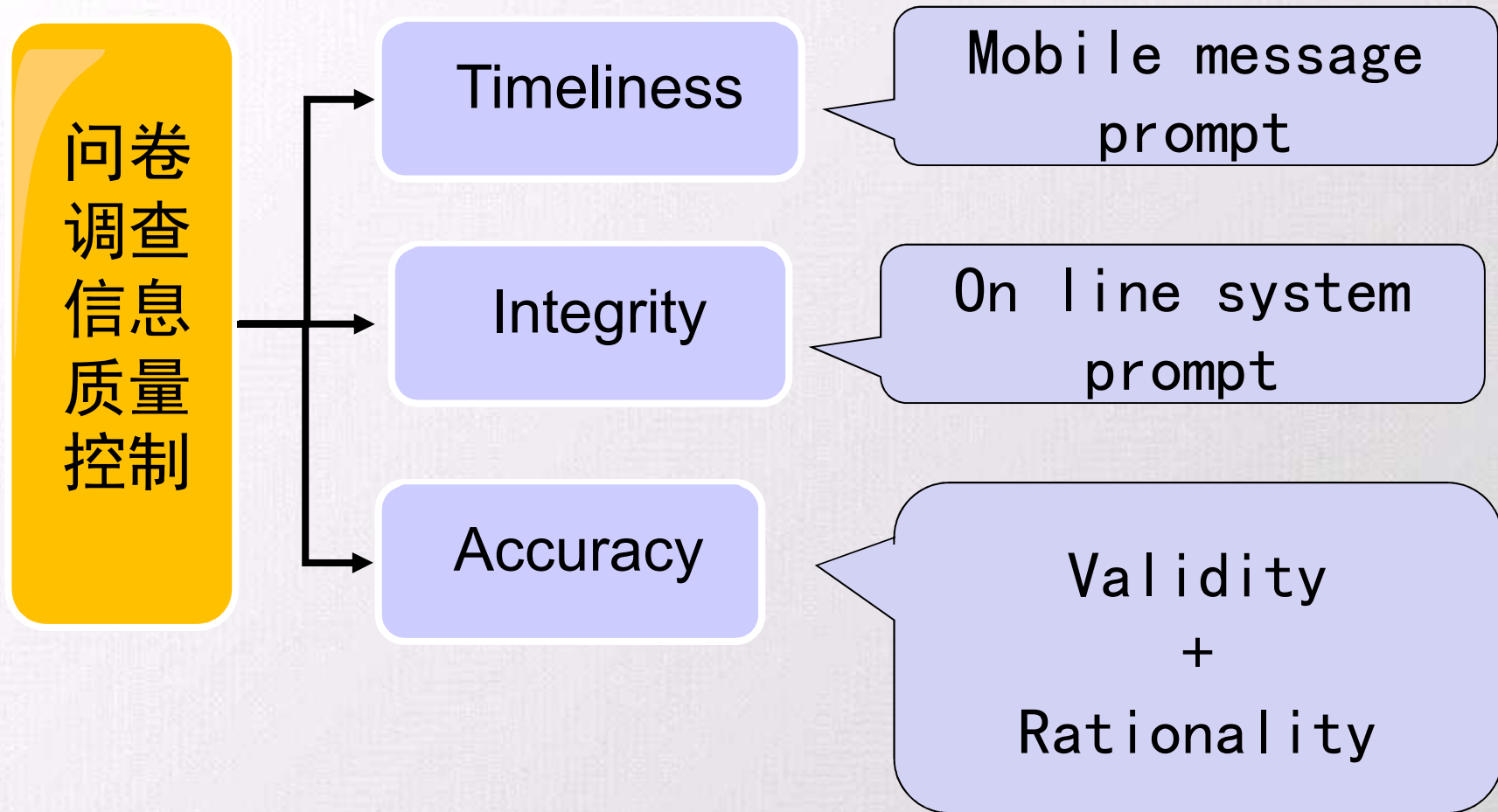
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Working manual



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Quality Control



3.Result & Problems



2010

2010
调查
规模

- Non-inward processing: 343HS8(32% of total), 1356 importers/enterprises;
- Inward processing: 300HS8, about 10000 enterprises



2012

2012
调查
规模

- **Non-inward processing:**
525HS8 (35% of total) ,
2144 importers
- **Inward processing:**
6004HS8, 31,141 enterprises;



Importer	HS8	Sec I	Sec II		%
1101xxxxx6	72191200	intermediate	27	metal productio n	100
1108xxxxx1	72191200	intermediate	53	wholesale & retail	15
1108xxxxx1	72191200	intermediate	29	special equiptme nt	55
1108xxxxx1	72191200	intermediate	32	shiping manufact ure	30

Flat rolled prod,
stainls steel,



Data Processing -Aggregate level

数据调整

- Compilation in the NBS
- Accuracy check
- Linked with non-survey IM data
- Compare with NBS IO survey



Problems

非加工货物

- **Misunderstanding of Industry description**
- **Final user unknown, imports to be sold to another retailer**
- **Warehousing goods**
- **Special products, such as electricity, coal**



4. Comparison with IO survey



A. Distribution% of intermediate use from IO Survey

		01 agriculture	02 Forestry	03 Live stock	...	139 Public management	Total Intermediate Use
01	agriculture	%	%	%	%	%	100%
02	Forestry	%	%	%	%	%	100%
03	Live stock	%	%	%	%	%	100%
...	...	%	%	%	%	%	100%
139	Public management /social organization	%	%	%	%	%	100%



B. Distribution% of intermediate use from IM Survey

		01 agriculture	02 Forestry	03 Live stock	...	139 Public management	Total Intermediate Use
01	agriculture	%	%	%	%	%	100%
02	Forestry	%	%	%	%	%	100%
03	Live stock	%	%	%	%	%	100%
...	...	%	%	%	%	%	100%
92	Measuring Instruments	%	%	%	%	%	100%

+



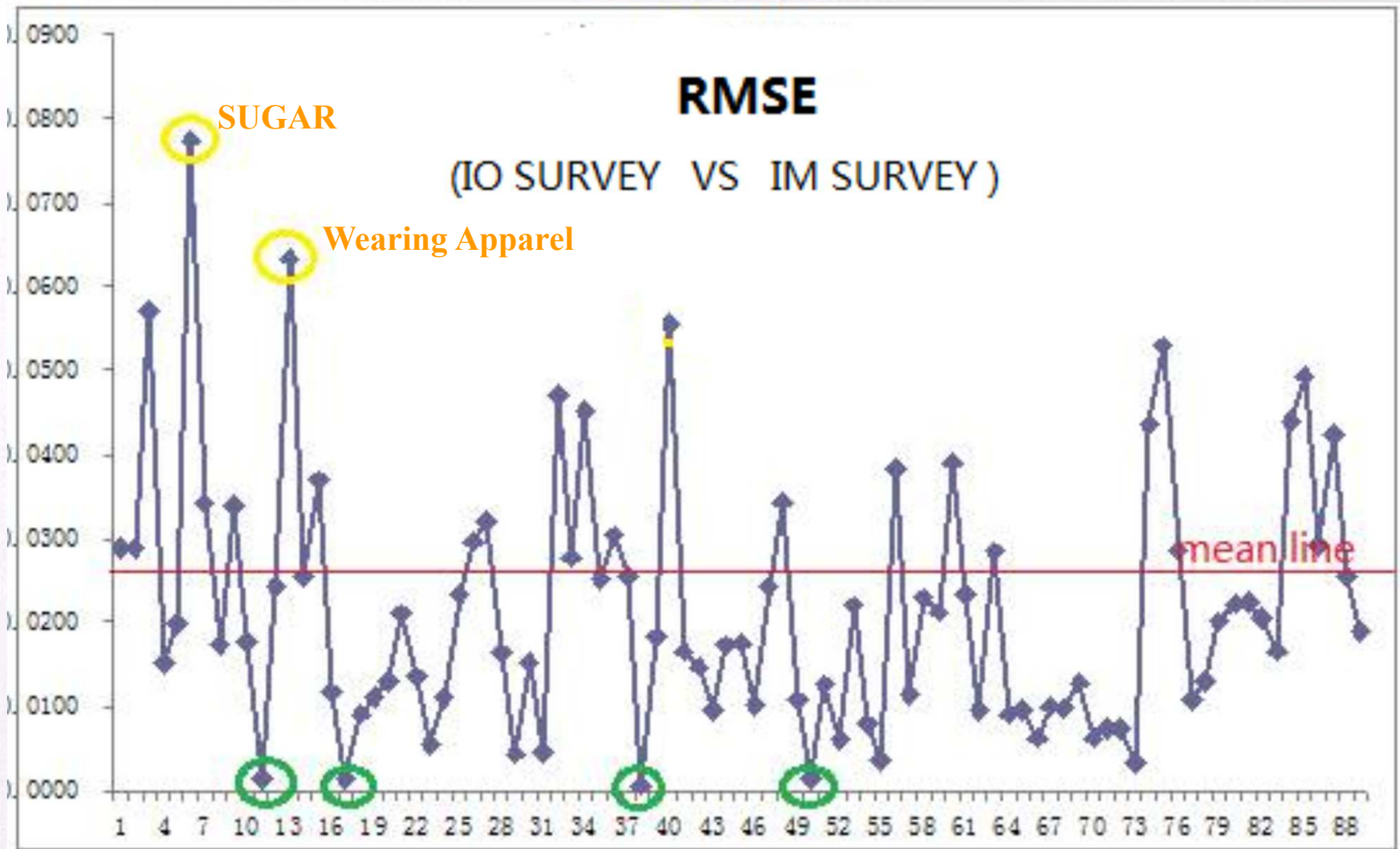
How different?

$$RMSE(P_i) = \sqrt{\frac{1}{n} \sum_{j=1}^n (a_{ij} - b_{ij})^2}$$

$i=1,2,\dots,89, \quad n=139$

RMSE: Root Mean Squared Error





Animal Feeds

Coke Products

Convenience Food

Cement, Lime and Plaster



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Distribution of Sugar Use

IM Survey

海关进口调查

94%

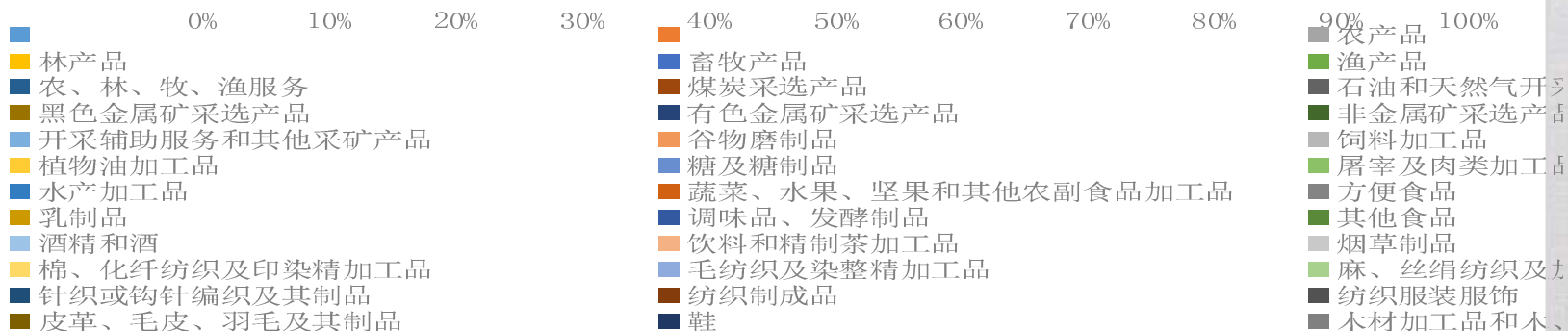
(SUGAR)

IO Survey

统计局调查

12%

(SUGAR)



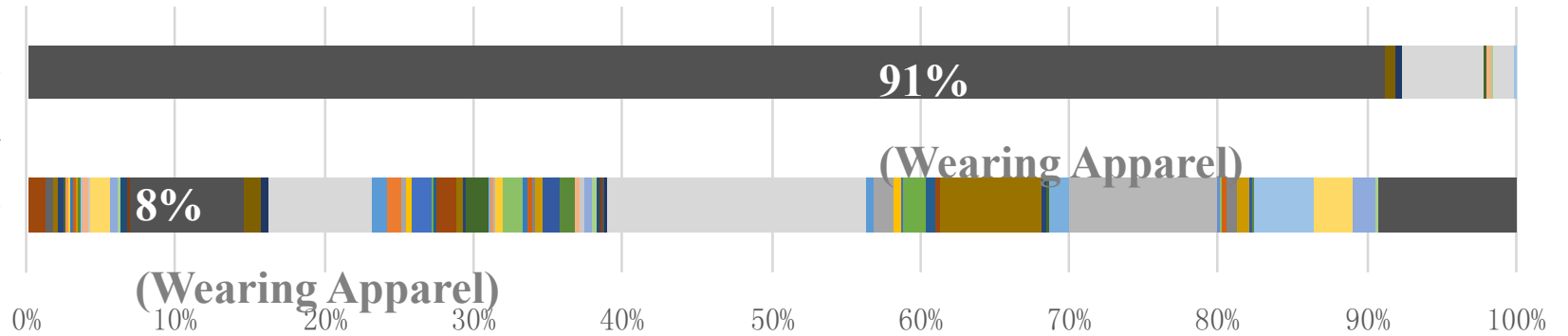
Distribution of ^{服装}Wearing Apparel Use

IM Survey

海关进口调查

IO Survey

统计局调查



- 林产品
- 农、林、牧、渔服务
- 黑色金属矿采选产品
- 开采辅助服务和其他采矿产品
- 植物油加工品
- 水产加工品
- 乳制品
- 酒精和酒
- 棉、化纤纺织及印染精加工品
- 针织或钩针编织及其制品
- 皮革、毛皮、羽毛及其制品
- 家具
- 畜牧产品
- 煤炭采选产品
- 有色金属矿采选产品
- 谷物磨制品
- 糖及糖制品
- 蔬菜、水果、坚果和其他农副食品加工品
- 调味品、发酵制品
- 饮料和精制茶加工品
- 毛纺织及染整精加工品
- 纺织制成品
- 鞋
- 造纸和纸制品
- 农产品
- 渔产品
- 石油和天然气开采产品
- 非金属矿采选产品
- 饲料加工品
- 屠宰及肉类加工品
- 方便食品
- 其他食品
- 烟草制品
- 麻、丝绸纺织及加工品
- 纺织服装服饰
- 木材加工品和木、竹、藤、棕、草制品
- 印刷品和记录媒介复制品



IM survey method

- give actual picture of import use,
- improve the accuracy of DVA



Experience from IM survey

经验与启示

- Senior management support
- Scientific method
- Well training
- Inter department cooperation
- International Cooperation



Thanks

Q&A



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