



清华大学环境学院
SCHOOL OF ENVIRONMENT, TSINGHUA UNIVERSITY

EPR for e-waste management in China

Quanyin Tan Ph.D.

School of Environment

Basel Convention Regional
Centre for Asia and the Pacific

Tsinghua University

Content



1. WEEE Regulations and Policies in China

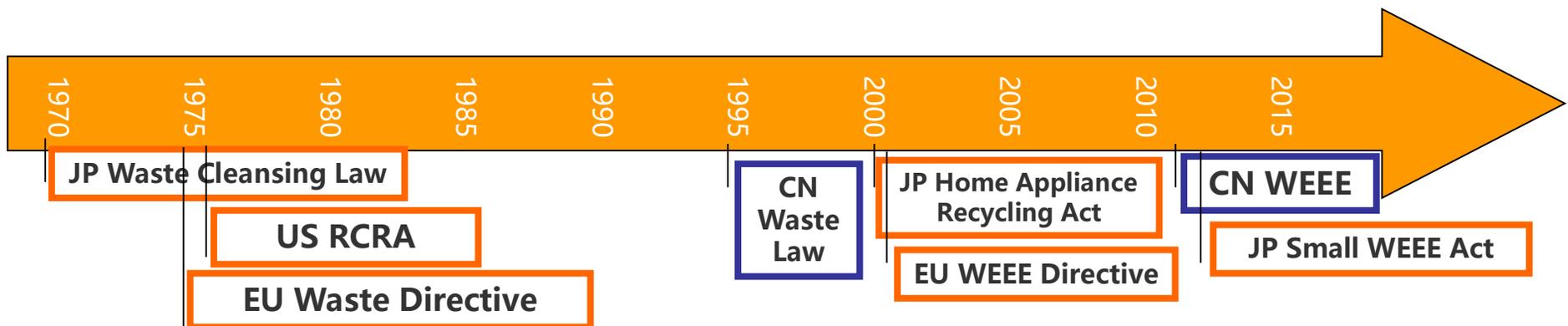
2. Current Practice of WEEE Collection and Treatment System

3. Case Introduction

Progress of E-waste Regulations in China



Year	Legislation
1995, 2005	Law on the Prevention and Control of Environmental Pollution by Solid Wastes
2002, 2012	Law on Clean Production Promotion
2006	<i>China RoHS (by MIIT)</i>
2008	<i>Measures on E-waste (by MEE)</i>
2009	Law on Circular Economy Promotion
2011-2012	China WEEE Regulation and its supporting policies



E-waste Legislation System



Clean Production
Promotion Law

Solid Waste Pollution
Prevention Law

Circular Economy
Promotion Law

Regulations on the Management of the Recovery and Treatment of Waste
Electronic and Electrical Products

China RoHS

Renewable Resource
Collection Measures

WEEE Collection
Measures (draft)

E-waste Pollution Prevention
and Control Measures
WEEE Treatment Facility Qualification
Measures

**WEEE Treatment Fund
Management Measure**

Design, Manufacture,
Importation

Consumption

Collection

Transport

Dismantle, Recycle,
Disposal

**Catalogue, Multi-channel collection, Centralized Treatment, Development Plan,
Qualification Licensing, Treatment Subsidies**

Catalogue of Waste Electronic and Electric Products for Treatment



Management Catalogue

2nd batch, 14 types

Printer, Copy machine, Fax machine, Electric water heater, Gas water heater, Kitchen ventilator, Monitor, Mobile phone, Telephone (newly added)

1st batch, 5 types

TV, Refrigerator, Washing machine, Air conditioner, computer

Review

Catalogue revision

- **Management on the qualification license**
- **Subsidy**

Off-catalogue products

- **Treatment Enterprise list**
- **No Qualification license**
- **No Fund Subsidies**

Fund collection and subsidy standard

Type	Collect ion (RMB/Unit)	Former Subsidy (RMB/Unit)	Latest Subsidy (RMB/Unit) ,2016	
TV	13	85	<14 inch	0
			14-25 inch	60
			>25 inch	70
Refrigerator	12	80	Volume < 50L	0
			50L≤Volume≤500L	80
Washing machine	7	35	Dry clothes≤3kg	0
			Single tube , (3Kg < Dry clothes≤10kg)	35
			Double tube , vertical axis, drum type (3Kg < Dry clothes≤10kg)	45
AC	7	35	Refrigerating capacity≤14kW	130
Computer	10	85		70
			Subsidy standard of Panel computer and Palm computer to be separately formulated	

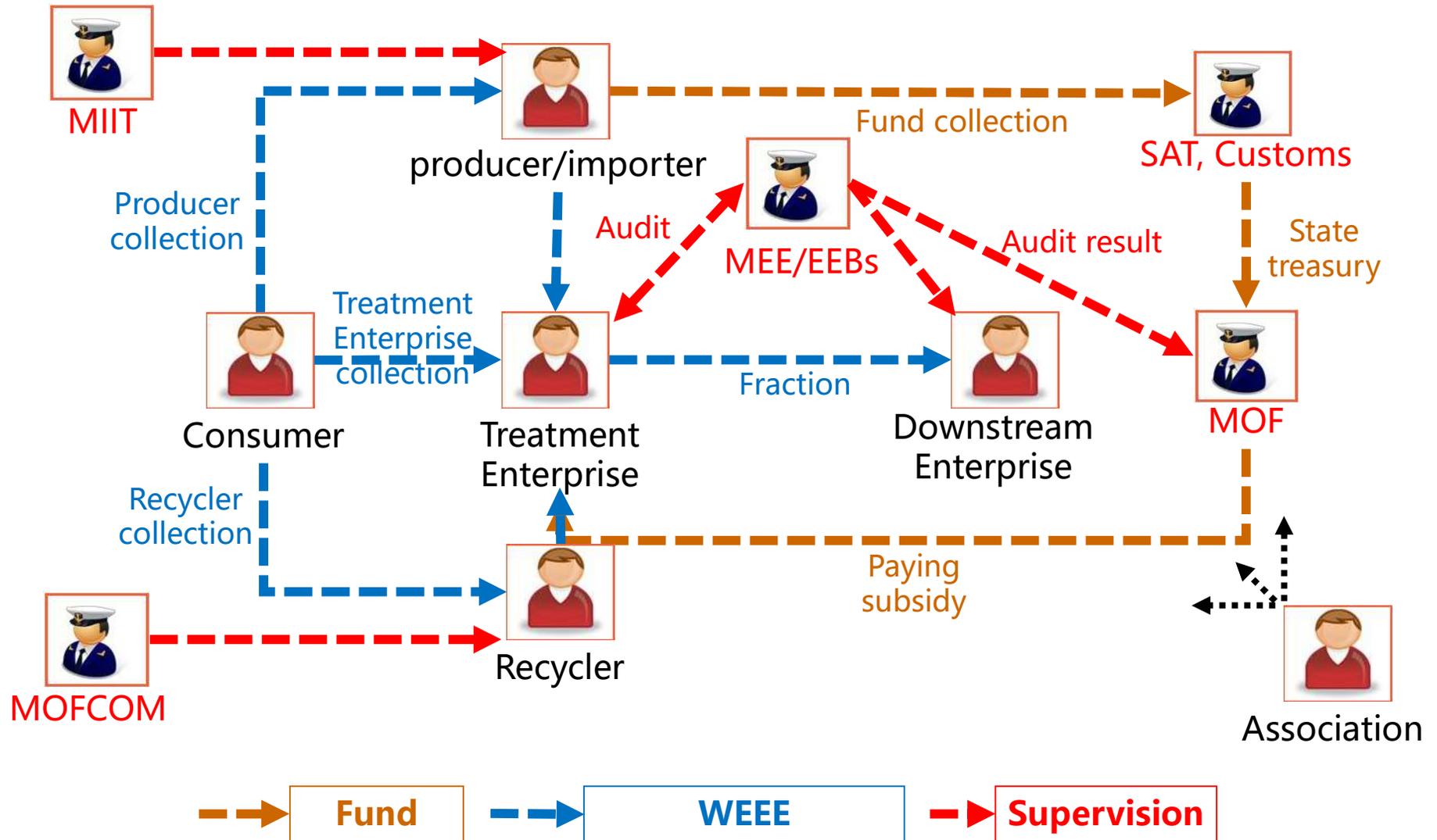
Treatment fund subsidy



The state establishes a fund for the treatment of WEEE to subsidize the recover and disposal of WEEE



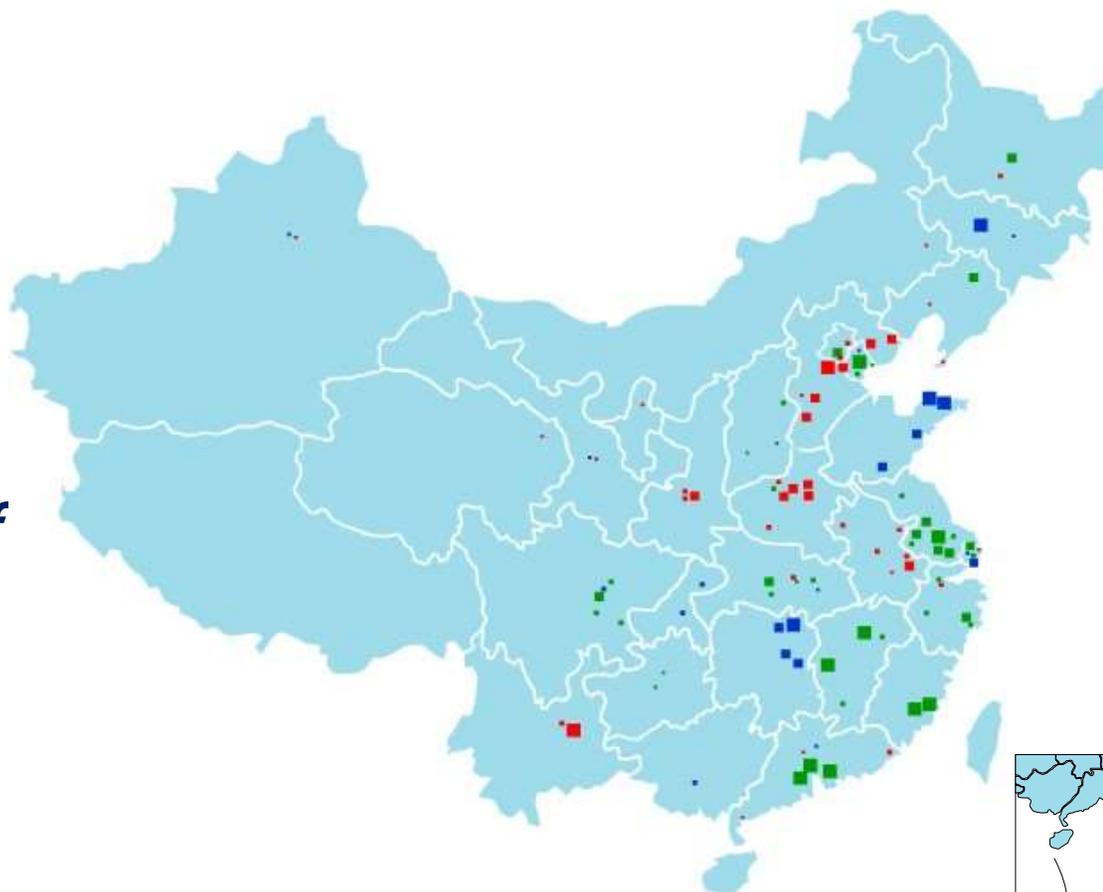
Treatment fund subsidy



Current Practice of WEEE treatment fund

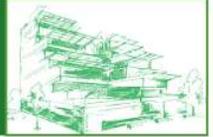


- *By the end of 2018, 109 qualified enterprises have been authorized to be funded, with total treatment capacity of about 152 million units WEEE per year.*





Current Practice of WEEE treatment fund



- *In 2018, about 80 million units WEEE were dismantled and reprocessed by the funded enterprises.*
- *Since 2012, about 13.75 billion RMB of treatment subsidy has been paid to the funded enterprises.*



Policy development trend (2016-)



Implementation plan of EPR system (2016)

- 1 Take the lead in establishing the extended producer responsibility system for four categories of products, including electrical and electronic products, automobiles, lead-acid batteries and packages.
- 2 Supporting enterprises to establish a new recycling system for waste electrical and electronic products, and improving the relevant recycling system for waste electrical and electronic products.
- 3 By 2020, EPR-related policy system has been initially formed, and significant progress has been made in product ecological design. The standard recycling and recycling efficiency of discarded products of key varieties have averaged 40%. By 2025, EPR-related laws and regulations will be basically perfect, and product ecological design will be widely implemented. The proportion of recycled raw materials used in key products will reach 20%, and the average recycling rate of waste products will reach 50%.

Policy development trend (2016-)



Notice on Joint Cleaning and Recertification the Recycling Industries of Electronic Waste, Waste Tires, Waste Plastics, Waste Clothing and Waste Household Appliances (2017)

- A number of illegal recycling enterprises such as **electronic waste and waste electrical appliances**, which are seriously polluted, have been banned according to law.
- Focus on the centralized area of electronic waste and waste electrical appliances processing and utilization.
- Standardize and guide the development of recycling enterprises such as electronic waste and waste electrical appliances recycling.

Policy development trend (2016-)



Law on the Prevention and Control of Environment Pollution Caused by Solid Wastes (under revision 2018)

 **中华人民共和国生态环境部**
Ministry of Ecology and Environment of the People's Republic of China

索引号: 000014672/2018-00974	分类: 环境管理业务信息 土壤环境管理
发布机关: 生态环境部办公厅	生成日期: 2018年07月11日
名称: 关于公开征求《中华人民共和国固体废物污染环境防治法(修订草案)(征求意见稿)》意见的通知	主题词:
文号: 环办土壤函[2018]644号	

生态环境部办公厅函
环办土壤函[2018]644号

关于公开征求《中华人民共和国固体废物污染环境防治法(修订草案)(征求意见稿)》意见的通知

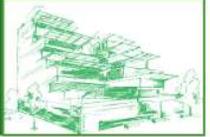
为深入推进我国固体废物污染环境防治工作,有效防范固体废物污染环境风险,根据全国人大立法工作计划,在认真调查研究的基础上,我部研究起草了《中华人民共和国固体废物污染环境防治法(修订草案)(征求意见稿)》。

为充分了解各方面意见,进一步做好修订工作,现就《固体废物污染环境防治法(修订草案)(征求意见稿)》(附件1)公开征集意见。各机关团体、企事业单位和个人均可参照意见建议格式(见附件2),向我部提出意见和建议,征集意见截止时间为2018年8月18日。

In Article 42 The state shall establish an EPR system for products, including electrical and electronic products, encourage producers to carry out ecological design and establish collection scheme to promote the recycling and utilization of resources.

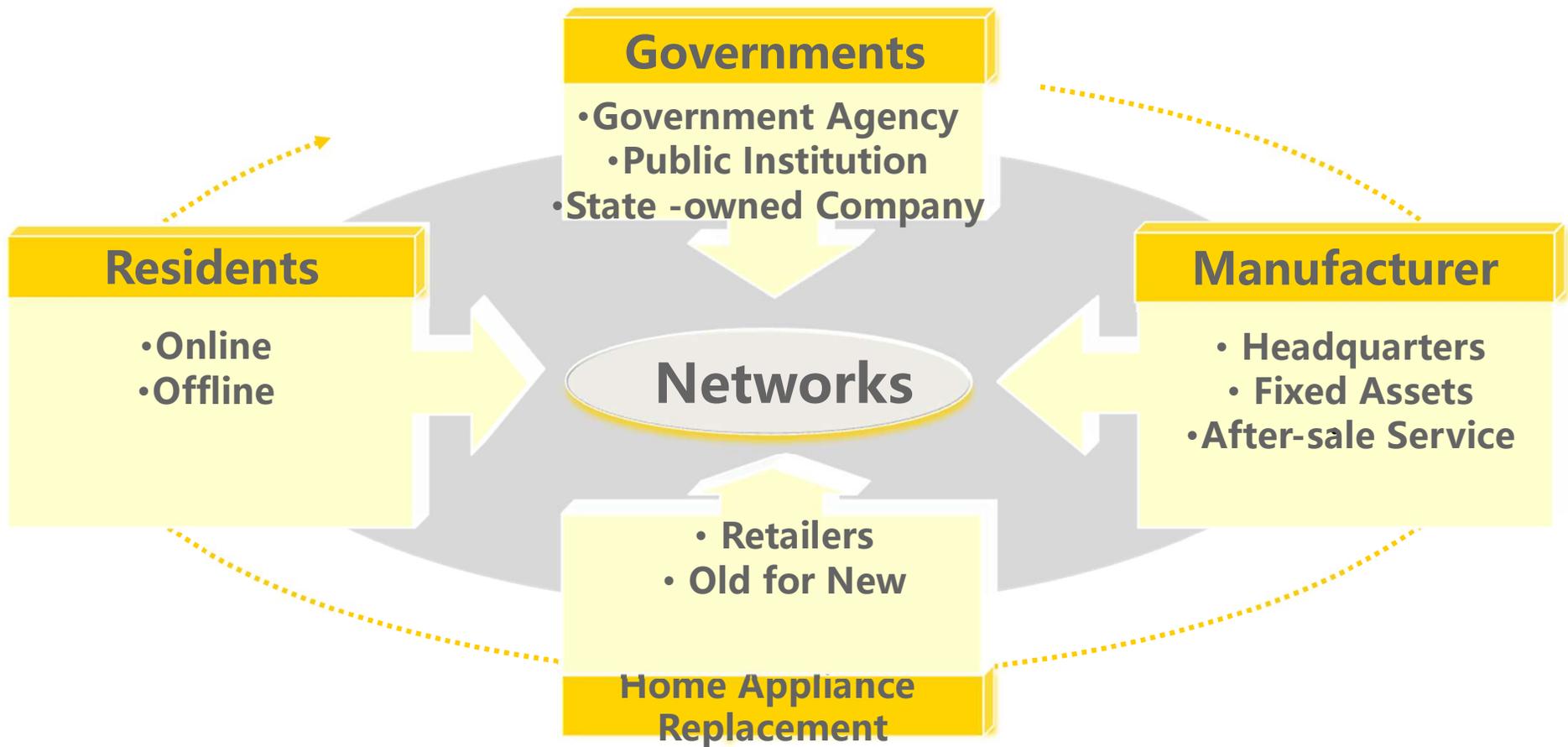
第四十二条 国家建立电器电子等产品的生产者责任延伸制度,鼓励生产者开展生态设计、建立回收体系,促进资源回收利用。

Case introduction



- ***1. Shanghai Xin Jinqiao Environmental Protection Co., Ltd***
- ***2. Huaxin Lvyuan Environmental Protection Industry Development Co., Ltd***

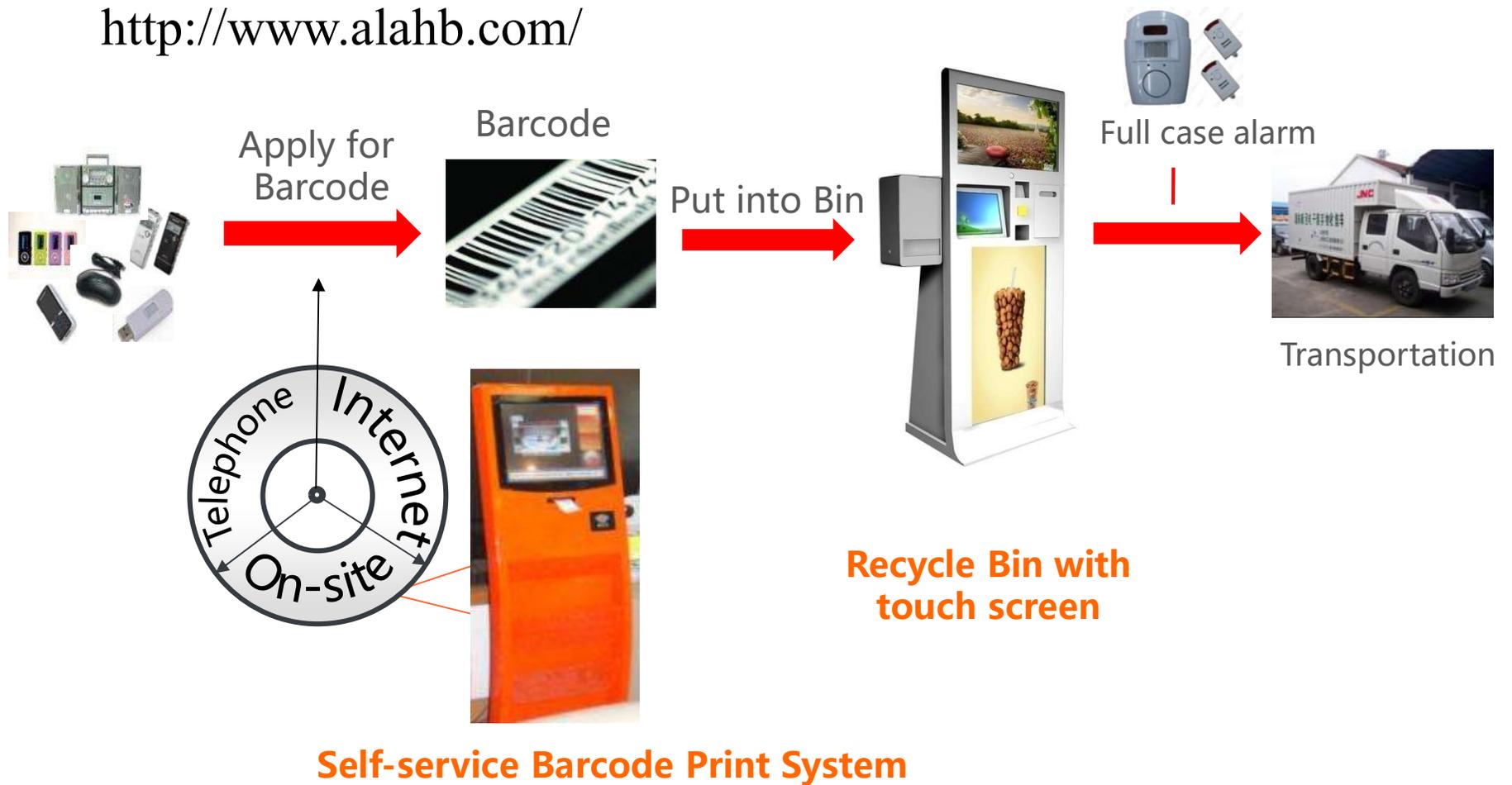
Xin Jinqiao Collecting System



Process of Collecting System



<http://www.alahb.com/>



Process of Collecting Encouragement



Bonus



A-La Bonus Card



Expense Card



Debit Card



Bonus for Good



Bonus for Cash

华新环保在全国布局点

Huaxin Environmental in China



华新绿源(内蒙古)环保产业发展有限公司

废旧家电回收处理/报废汽车/工业废弃物处理基地

Huaxin(Inner Mongolia)Environmental Co. Ltd /
WEEE/ELV .etc



香蕉皮环保科技有限公司

废弃电器电子产品在线回收平台

Banana Peel Recycling Co. Ltd



华新绿源环保产业发展有限公司

废弃电器电子产品回收处理中心

Huaxin Environmental Co. Ltd/ WEEE
Headquarter



云南华再新源有限公司环保产业发展有限公司

废旧家电回收处理/资源深加工

Yunnan Huazai Environmental Co.Ltd / WEEE



华新凯业物资再生有限公司

报废汽车解体中心

Huaxin Kaiye Environmental
Co. Ltd/ ELV

E-Waste Recycling Website



Functions:

E-Waste Online Recycling

Using the coupon Exchange goods

Donating to charity

用户名	捐赠积分
stone	8520
空城旧梦	3080
王国安	1815
傅利	720
骆思思	420
狄青春	385



website: <http://www.xiangjiaopi.com/>

Caravan Recycling In The Communities



The 15th International Conference on Waste Management and Technology (2020 Global Waste Forum)

To Build a Zero-Waste City Systematically

Date: March 21st to 24th, 2020

Venue: Beijing, China

Host Tsinghua University; Solid Waste and Chemicals Management Technology Center, Ministry of Ecology Environment of the People's Republic of China; United Nations Environment Programme; Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology in Asia and the Pacific.

Organizer Basel Convention Regional Centre of Asia and the Pacific; The Society of Solid Waste, Chinese Society for Environmental Sciences; Research Institute of Soil and Solid Waste Management, Chinese Research Academy of Environmental Sciences.

Supporter United Nations Centre for Regional Development (UNCRD); International Solid Waste Association (ISWA) Frontiers of Environmental Science & Engineering; Waste Management & Research; Chinese Journal of Environmental Management.



<http://2020.icwmt.org>



Thank you for your attention!



Quanyin Tan Ph.D.

Assistant Professor, School of Environment

Chief, General Office, Basel Convention Regional Centre for Asia and the Pacific

Tsinghua University

Contact Info:

- **Email: qy_tan@tsinghua.edu.cn/bccc@tsinghua.edu.cn**
- **Tel: +86-10-62794351**
- **Fax: +86-10-62772048**