



# Experience Sharing

## Guangdong Green Freight Demonstration Project

Mr. Weng Xinggen  
Director

Project Management Office of  
Green Freight Demonstration Project,  
Department of Transport of Guangdong Province

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## Outline

1. Project Overview
2. Project Implementation
3. Project Experience



## 1. Project Overview



## Guangdong Green Freight Demonstration Project

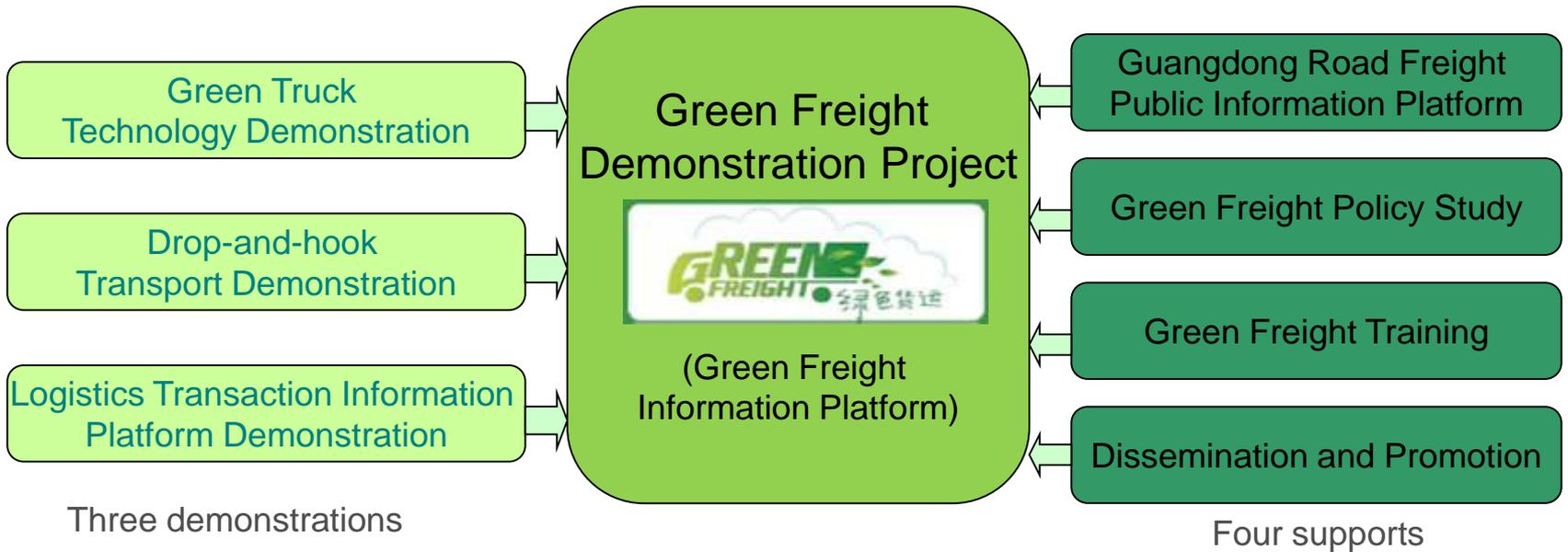


- To improve the level of energy conservation of the freight transport sector
- To reduce GHG emissions





## Project Components



## Project Organizational Structure





Project Launching Ceremony



## 2. Project Implementation





## Green Truck Technology Demonstration

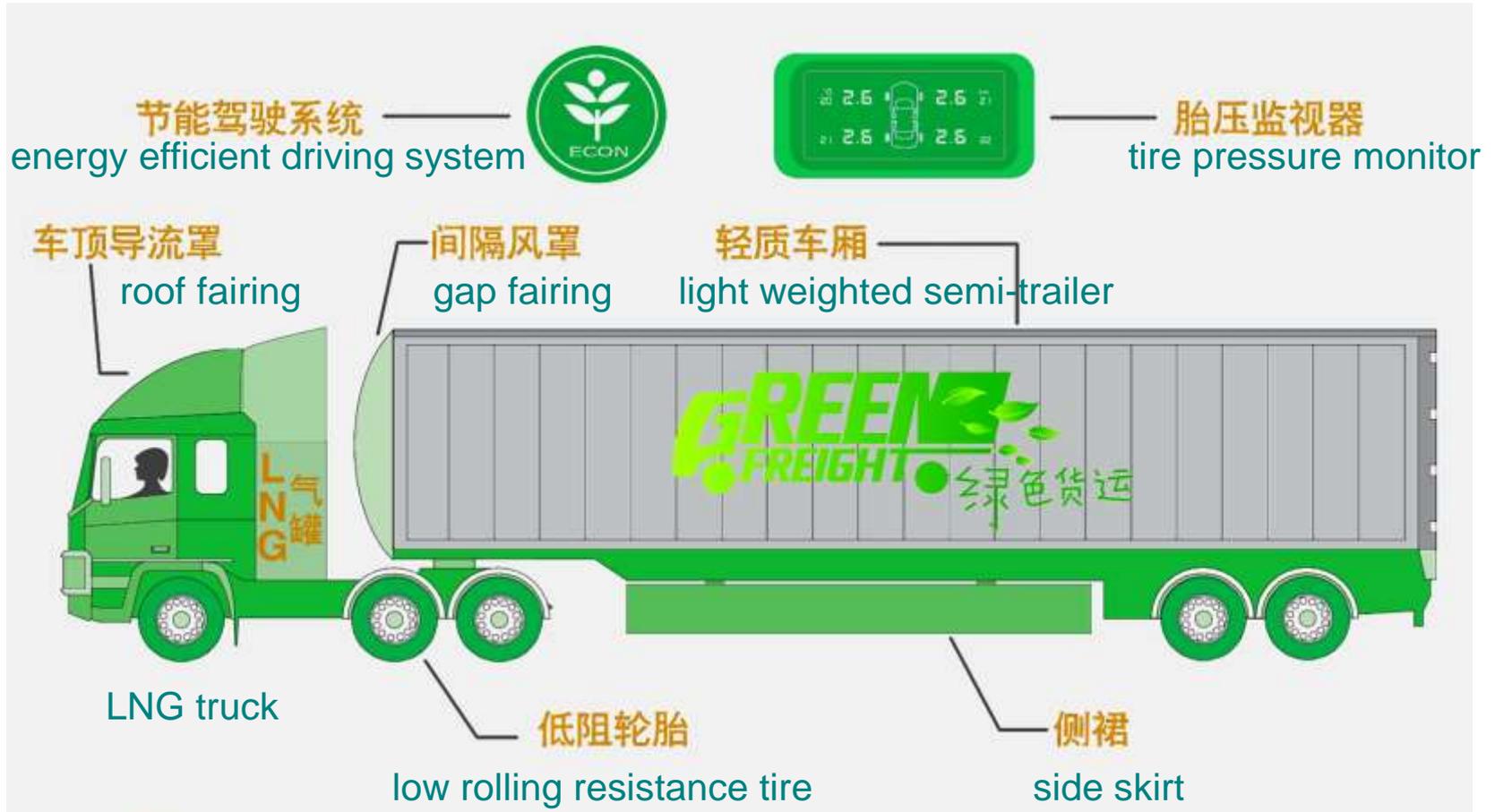
Green Truck Technology Demonstration is divided into two phases, i.e., Phase I and Phase II.

### Phase I:

10 logistics companies with 145 pilot trucks in Guangdong Province were involved.



## Energy Efficient Technologies





## Fuel Saving Effect in Phase I Demonstration

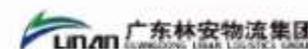
Fuel saving ratio of large and heavy trucks  
based on Phase I statistics





## Phase II

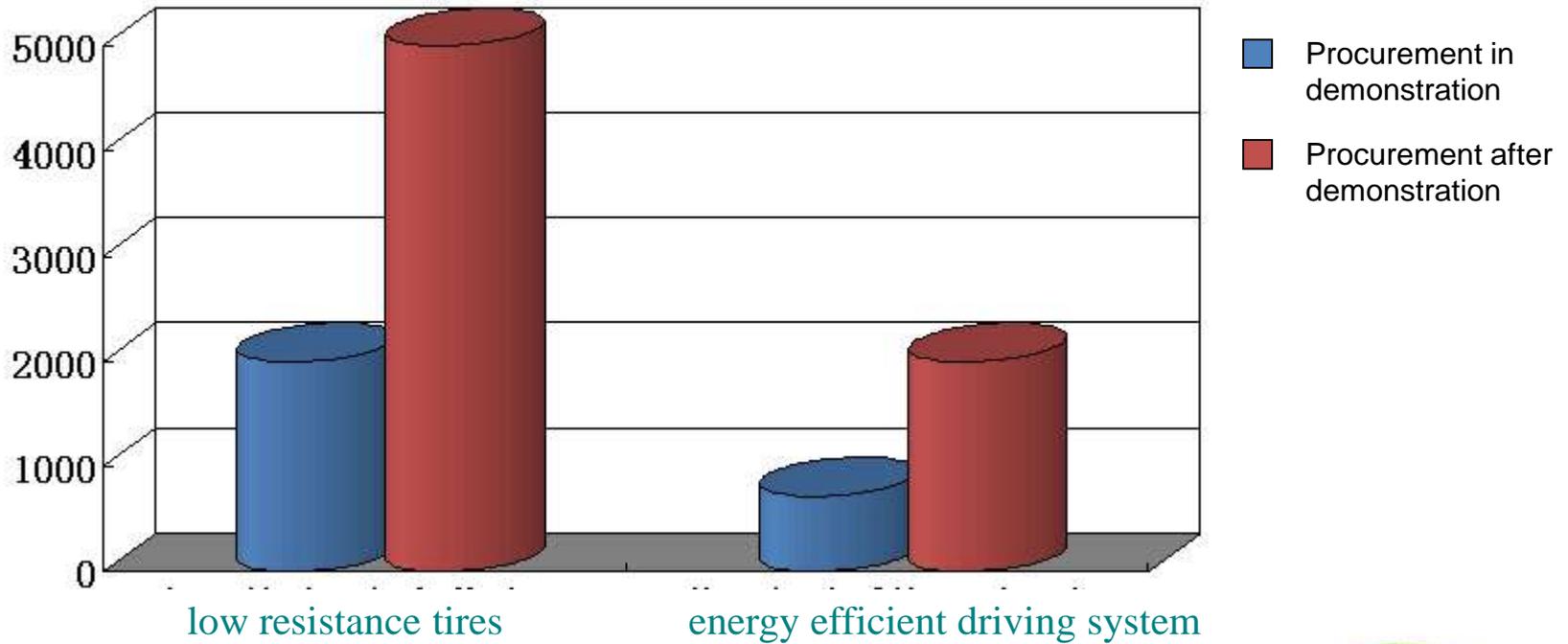
11 logistics companies with 1200 pilot trucks in Guangdong Province



广州市国营汽车集装箱  
运输公司



## Impacts of Demonstration





## How did demonstration achieve technology transfer

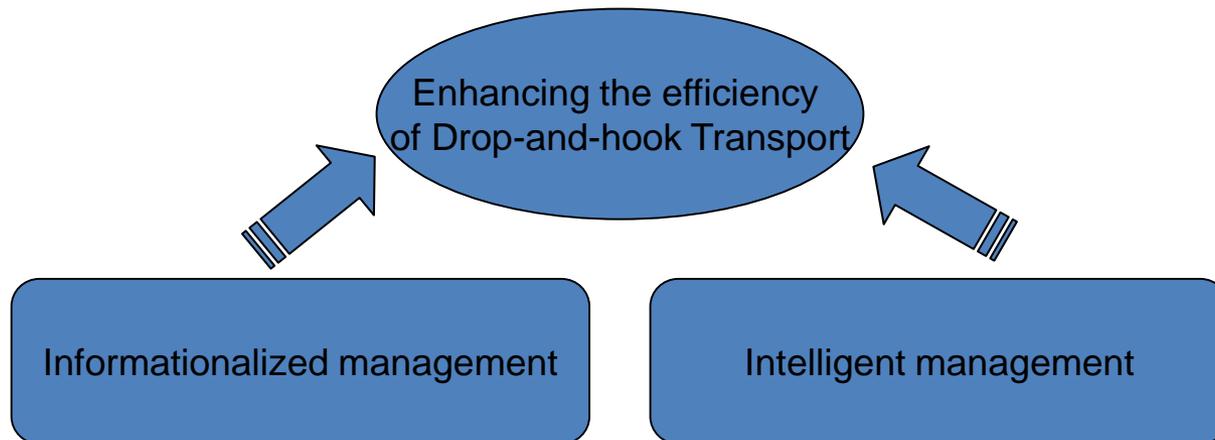
- Provide subsidy at first to attract logistics companies to participate in the demonstration, then encouraged them to use energy efficient products, improve transport organization mode and informatization level.
- Publicize green freight concept and demonstration results through website, videos, posters and newspapers to expand the influence, making more people inside and outside the freight sector have a better understanding of green freight and energy conservation and emission reduction technologies.



## Drop-and-hook Transport Demonstration

Pilot Company: Guangzhou City Star Transport Co., Ltd.

- In this demonstration, the pilot company's original drop-and-hook transport system is upgraded, thus improving the informationalized level and intelligence level for drop-and-hook transport, reducing the empty-load rate, and increasing the drop-and-hook transport efficiency.





Data provided by the pilot trucks during September, 2014 to June, 2015 shows:

Road haul of pilot trucks for the three demonstration routes: **3 million km**;

Freight volume: **53,000 tons**; Freight turnover: **85 million ton-km**;

Fuel consumption: **1.04 million L**;

Average fuel consumption per hundred ton-km: **1.22 L**.

Compared with the baseline period, the fuel consumption of drop-and-hook transport has been reduced by **43,700 L**, with the fuel saving rate of **4.15%**.





## Logistics Transaction Information Platform Demonstration

Pilot Company: Guangdong Lin An Logistics Development Co., Ltd.

➤ Guangdong Lin An Logistics Development Co., Ltd., by using mobile internet technologies, innovates its service modes, and develops systems including prepayment system, qualification and credit verification system, and credit assessment system. It also establishes the first third-party transaction and payment platform for the national logistics sector, which significantly improves the levels of information distribution service and logistics organization of the platform.





## 物流交易信息平台



**Sample data collected during September, 2014 and May, 2015 shows:**  
Freight volume of pilot trucks: **90,000 tons**; Freight turnover: **46.7 million ton-km**;

Fuel consumption: **702,900 L**; Fuel consumption per hundred ton-km: **1.51 L**.

Therein, through the information platform:

Freight volume: **85,200 tons**, accounting for **95%** of total freight volume of pilot trucks  
Freight turnover: **42.36 million ton-km**, accounting **91%** of total freight turnover of pilot trucks

After the mobile APP put into use, the fuel consumption has been reduced by **24,400 L**, with the fuel saving rate of **3.2%**.





Interviewing truck drivers



## Supporting Work

Green Freight  
Information  
Platform

Dissemination  
and Promotion

Training

Green Freight  
Policy Study

Green Freight  
Financing

Green Freight  
Training  
Materials

Forums,  
Workshops and  
Expert Lectures





Materials for dissemination



Materials for Green Freight Training



Green Freight Policy Study





**广东省绿色货运网** "绿色货运·低碳交通"

首页 | 绿色货运示范项目 | 绿色货车技术示范 | 网络货运示范 | 物流交易信息平台 | 最新动态 | 统计 | 联系我们 | 联系我们 | 网站地图

**绿色货运示范项目简介**

2009年广东省在世界银行的帮助下成功申请到了首个全球环境基金(GEF)气候变化赠款项目——“绿色货运”国际赠款项目，旨在帮助广东省道路货运行业进行节能环保技术的示范和推广，以保障广东省道路运输行业的持续发展。

本项目将在借鉴国内外先进的节能环保技术及创新的运输组织管理手段的基础上，通过绿色货运技术、网络运输和物流交易信息平台示范项目及其推广……

**绿色货车技术示范项目**

**会员登录**

帐号:

密码:

验证码:  VP5S

**信息查询**

- 绿色货车技术咨询
- 供应商和产品查询
- 示范企业查询
- 车辆GPS信息查询

**新闻资讯**   **宣传推广**   **培训信息**   **政策法规**

|   |                          |            |
|---|--------------------------|------------|
| 1 | 首批绿色货车技术示范项目示范企业工...     | 2013-09-26 |
| 2 | 绿色货车技术示范企业申请操作指南 (2...   | 2012-09-18 |
| 3 | 绿色货车技术供应商申请操作指南 (201...  | 2012-02-16 |
| 4 | 欧洲绿色货运经验介绍及借鉴 (2011.1... | 2011-09-10 |
| 5 | 美国绿色货运经验介绍及借鉴 (2011.1... | 2011-09-10 |

**广东省绿色货运示范管理平台**

操作: 列表   新建   删除   刷新   打印   取消置顶

类别: 全部   语言: 全部   消息录入

是否置顶: 全部   标题:    清除

新增   删除   刷新   置顶   取消置顶

| 类别 | 标题   | 是否置顶 | 积分 |
|----|--|------|----|
| 1  | 新闻与动态 广东省交通运输厅绿色货运项目办公室发布《首批绿色货运示范项目示范企业工作指南》  | 是    | 20 |
| 2  | 培训信息 首批绿色货车技术示范项目示范企业工作指南  | 是    | 20 |
| 3  | 培训信息 绿色货车技术示范企业申请操作指南(2012-3-13)   | 是    | 20 |
| 4  | 培训信息 绿色货车技术供应商申请操作指南(2012-2-13)  | 是    | 20 |
| 5  | 研究成果 广东省绿色货运示范项目方案   | 是    | 20 |
| 6  | 新闻与动态 COE and OOE signed the Transporting Agreement  | 否    | 20 |
| 7  | 政策法规 Road Freight Transport and Stations Administrative Regulations  | 否    | 20 |
| 8  | 新闻与动态 物流·第二次工作会议在广州召开  | 否    | 20 |
| 9  | 宣传推广 P1st green freight project in Guangdong, aiming to address the issues of energy efficiency and emission reduction in freight sector | 否    | 20 |
| 10 | 新闻与动态 珠江三角洲地区正式签署了项目前期筹备协议 (PFC) 协议  | 否    | 20 |
| 11 | 培训信息 Road Transport Regulations of the People's Republic of China  | 否    | 20 |
| 12 | 政策法规 国际货物运输及包装规则   | 否    | 20 |
| 13 | 政策法规 中华人民共和国道路运输条例   | 否    | 20 |
| 14 | 新闻与动态 Notice on Collecting the Demonstrated Technology Products of the Guangdong Green Freight Project                                   | 否    | 20 |
| 15 | 新闻与动态 世界银行广州绿色货车示范项目启动会在广州成功举办   | 否    | 20 |

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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Operating Interface of Green Freight Information Platform





Left: Green Freight Forum;  
Right: Guangdong Green Freight Management and Technical Training 2014





Green Freight Exhibition Booth in 2011;



Green Freight Exhibition Booth in 2014



### 3. Project Experience



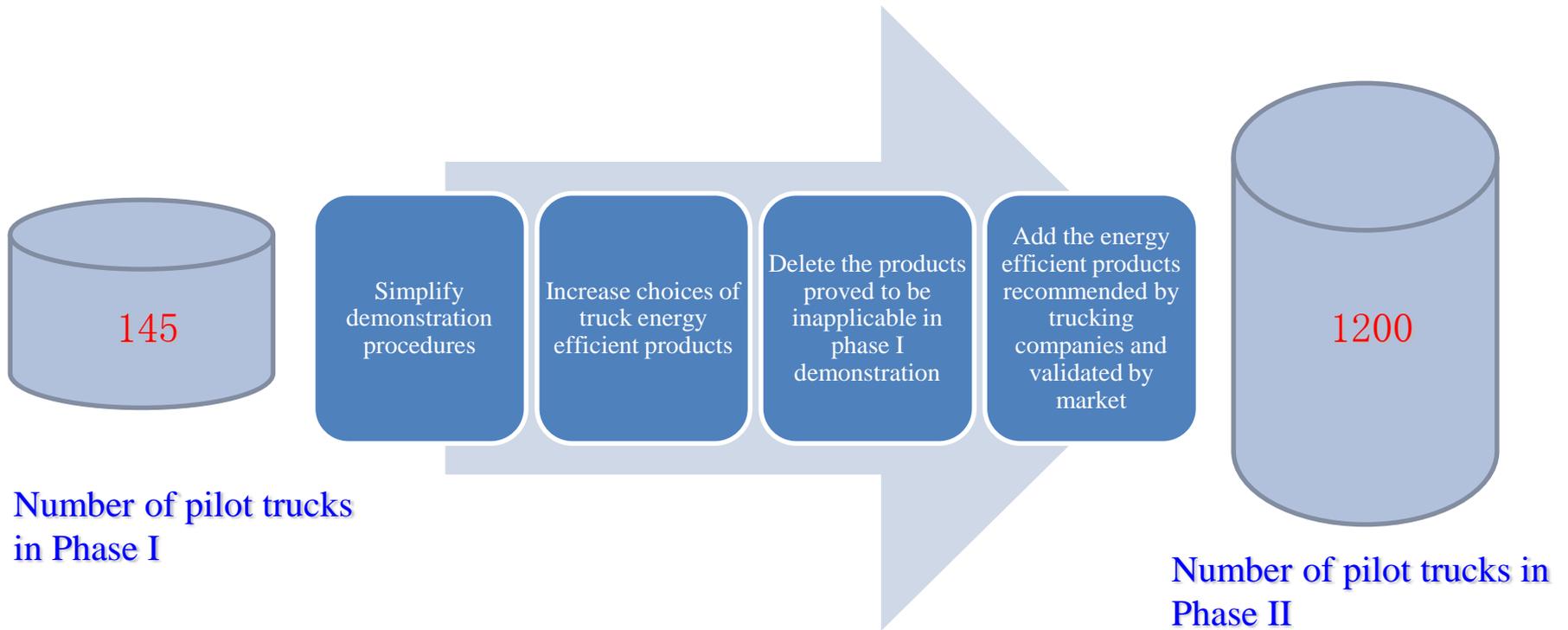
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## **Make the demonstration based on local situation**

Influencing factors for Phase I of Green Truck Technology Demonstration

1. Companies' environmental awareness
2. Companies' knowledge on energy efficient truck technologies
3. Relatively low subsidy
4. Accuracy of monitoring and evaluation





2

Develop a long-term policy-supported system



**SUP PORT**



Stakeholders

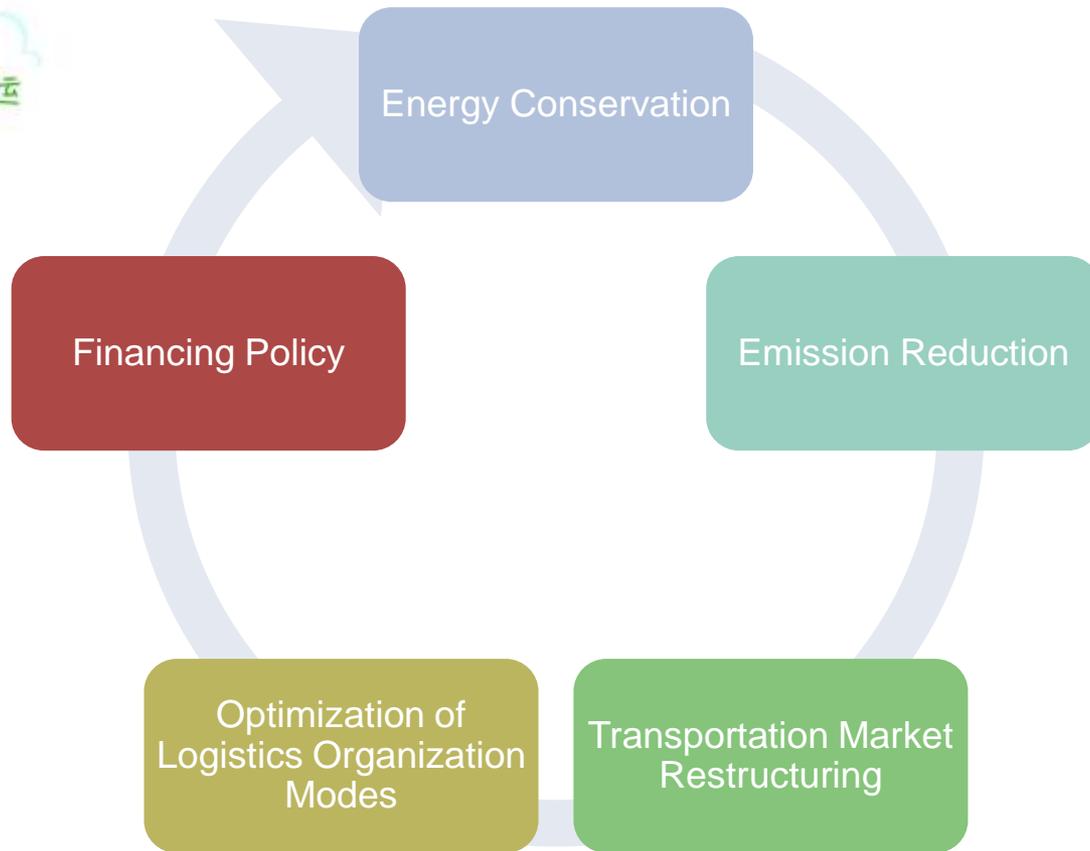
- Government departments
- Logistics companies
- Cargo owners
- Third-party companies

Knowledge involved

- Economics
- Law
- Engineering

**Energy  
Conservation  
and Emission  
Reduction in  
Freight Sector**





Policy study: study on energy conservation, emission reduction, transportation market restructuring, optimization of logistics organization modes, financing policy, etc.



3

Strengthen the publicity and dissemination on green freight concept





Project posters and exhibitions





Green Freight requires not only the joint efforts of government departments, transport associations and institutions and companies, but also the participation of the whole society. For next step, we should strengthen the dissemination of green freight concept so that the public knows more about Green Freight and realize the significance of energy conservation and emission reduction. More people participate in green freight, jointly working for a greener and cleaner earth.

Green Freight stands for the future direction of freight sector.

It's becoming the benchmark for logistics companies





Thank you!

