



# Efficient Utilization of Allbaro System

2016.10.18



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# I . Allbaro History

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# 1. Concept of Allbaro System

## Meaning of Name and Design



- **All waste Barometer**

Compound brand name consisting of "**All**" meaning everything in waste management,

And '**barometer**' signifying the commitment to becoming world-class brand through right and transparent management

## 2. Purpose

The Allbaro system has been established to protect the environment through the Transparent management of waste as well as enhance the work convenience of user companies and administrative agencies by overcoming the inefficient waste treatment proof system.

Overall waste-related work has been covered by expanding various waste-related Functions including waste authorization and permission, statistical analysis functions, and annual waste outcome report.

The Allbaro system expands its scope to information for the reduction of construction Waste and industrial waste volume in a bid to be the only general waste information Exchange venue in Korea backed by several years' experience in system operation.



### 3. History of Allbaro

1999

Paper based waste treatment proof system introduced

2001~  
2002

System development and establishment and pilot operation

Sep.  
2002

Electronic Waste Manifest System introduced

2003

Application establishment for waste authorization and Permission

2003

Developed the statistical analysis function of waste

2006

ARS system built for users who have difficulties in using online system

2007

Launched "Allbaro" Brand name for the system

Aug.2008

The use of Allbaro System became obligatory

Jun.2010

Use of Allbaro System for the construction waste became obligatory  
(Use of Allbaro System for All kinds of industrial waste(Jul.2011))



## II. System Scope

## II. Allbaro System Target Waste and Scope

Designated Waste		Industrial Waste	
Type	Standard	Type	Standard
Based on 14 items including waste agricultural chemicals, slag, and dust	50kg or more every month or a sum more than 130kg	Industrial waste generated from disposal facilities according to 'Air Conservation Act', 'Conservation laws on water quality and aquatic ecosystems' or 'Noise and Vibration Control Act'	100kg or more everyday
		Industrial waste generated from waste water disposal facilities	100kg or more everyday
Six items including waste synthetic high molecular compound, etc	100kg or more every month or a sum more than 130kg	Industrial waste generated from night-soil treatment facilities	100kg or more everyday
		Industrial waste generated from livestock excretions facilities	100kg or more everyday
Sludge	500kg or more every month	Industrial waste generated from waste treatment facilities	100kg or more everyday
PCBs, waste poisonous materials, medical waste	-	Other industrial waste	300kg or more everyday
		Construction waste	5tons or more
		Industrial waste generated from temporary work	5tons or more





## **III. Operation Result in 2015**

**1. System Operation Result**

**2. Yearly Statistics of Allbaro Usage**

# 1. System Operation Result in 2015



**380,000 business sites used Allbaro and 1.17 million e-manifests was produced in 2015**



**About 154.6 million tons of waste generated from the business sites were managed by Allbaro**



**Use of e-manifest went up by 5.9% and those waste managed by Allbaro went up by 14.9% in 2015**



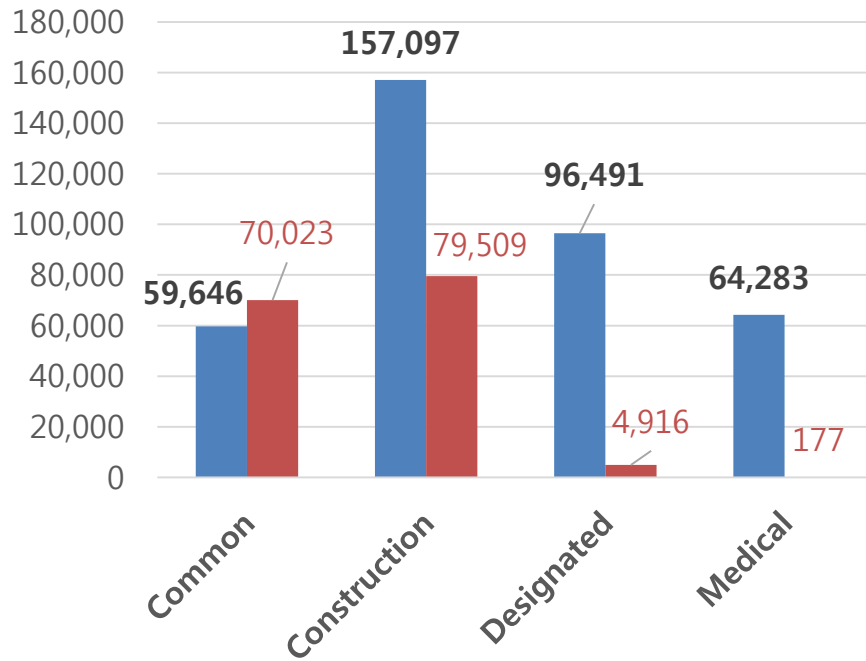
# 1. System Operation Result in 2015

## Allbaro Operation Result in 2015

	Business sites (Number of User)	E-manifest (thousand)	Amount of Waste disposed (1,000 ton)	Error rate of e- manifest(%)
<b>Total</b>	<b>377,517</b>	<b>11,778</b>	<b>154,625</b>	<b>5.63</b>
Common	59,646	4,049	70,023	7.3
Construction	157,097	3,523	79,509	7.4
Designated	96,491	822	4,916	3.0
Medical	64,283	3,384	177	2.5

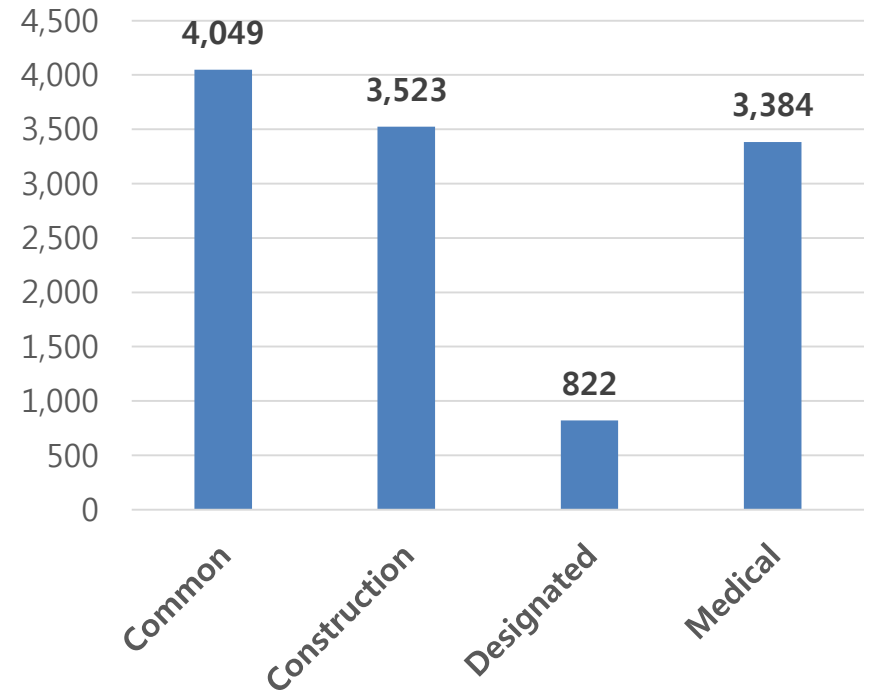
# 1. System Operation Result in 2015

## Number of Business sites and Amount of Waste Disposed



■ Business sites  
■ Amount of Waste disposed (1,000 ton)

## E-manifest(thousand)



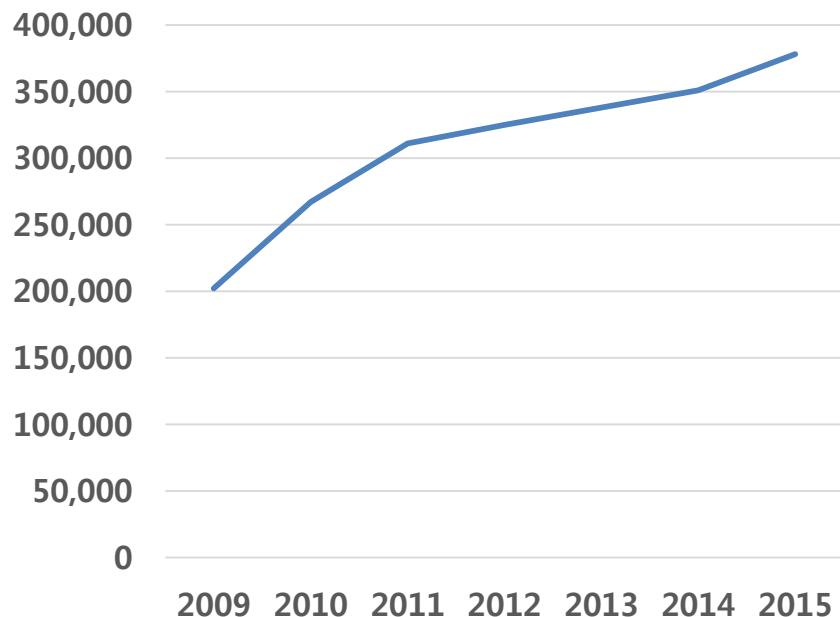
■ E-manifest(thousand)

## 2. Yearly Statistics of Allbaro System Usage

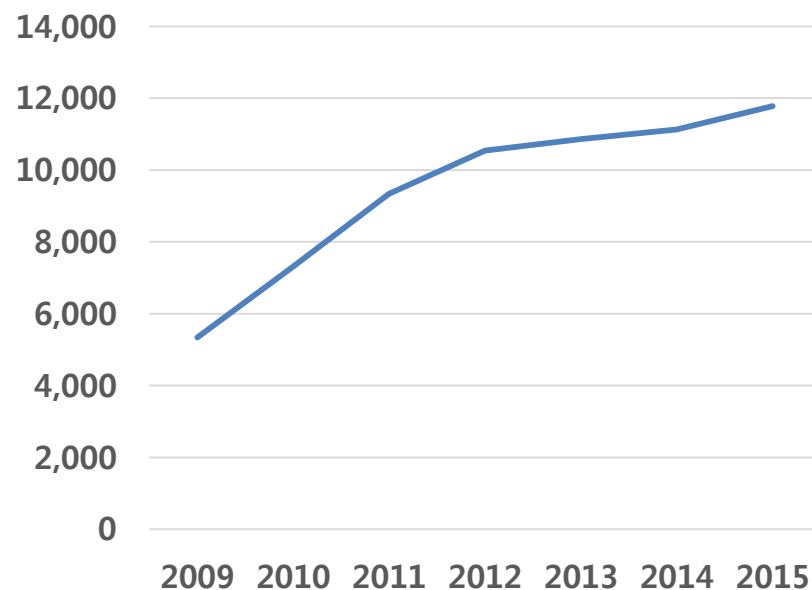
### Yearly statistics of Allbaro Usage


Year	'09	'10	'11	'12	'13	'14	'15
Business sites	202,000	267,000	311,000	325,000	338,000	351,000	378,000
E-manifest (thousand)	5,336	7,315	9,338	10,541	10,862	11,126	11,778

Business sites



E-manifest (thousand)



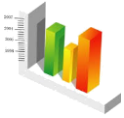


## **IV. Cases of Efficient Utilization of Allbaro System**

**1. Sharing Statistical Information with Local Government**

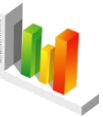
**2. Improve Operation of Allbaro and User Usability**

# 1. Sharing Statistical Information with Local Government



## Sharing analyzed statistical information with local government

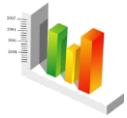
- By providing the analyzed information of discharge and disposal of waste to the local government, this information can be used for cracking down on the possible business sites that operates waste disposal process illegally



## Provide the statistics service of Allbaro to Local government quarterly

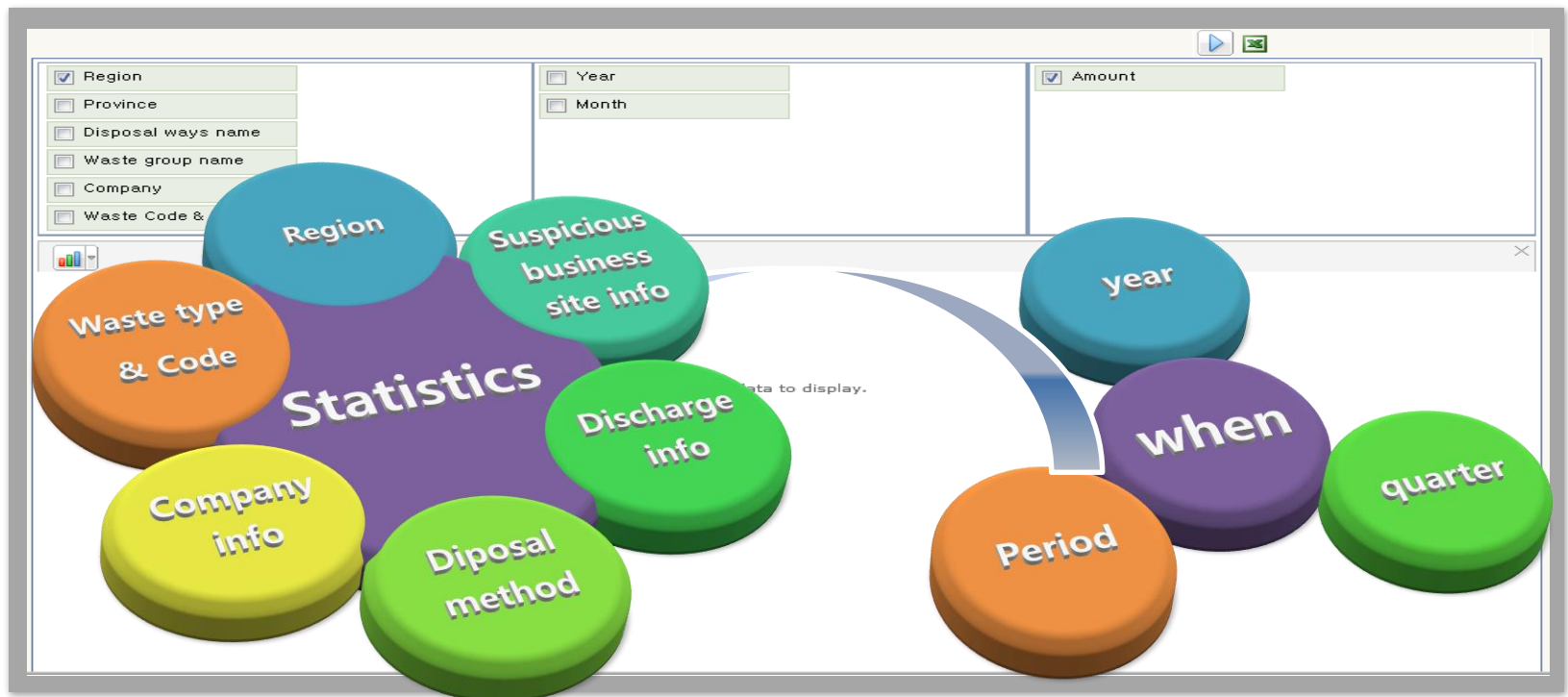
- Local government can use the statistics provided from Allbaro to monitor and prevent illegal dumping and disposal of waste.
- Enable Waste Trade Information analyzation and extraction of needed information for the local government by utilization of statistics system of Allbaro.

# 1. Sharing Statistical Information with Local Government



## Provided contents

- Waste type and amount discharged by year and quarter
- Business site information with changes in the amount of waste discharge more than 200% over same period last year
- Suspicious business sites information, etc.





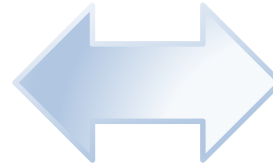
## 2. Improve Operation of Allbaro and User usability

- Improve work process and usability by connecting the Allbaro to other competent authorities' system

*Number of Cases Shared*

(Year : 2015)

Info	Case
Designated Waste Discharge Registration Information	6,060
Business Sites Waste Discharge Registration	483
Asbestos demolition and removal work report	19,608
Major manufacturers' E-manifest	687,556
Import & Export waste qualification check	17,483
Sea discharge information (Sea discharge is prohibited in Korea since Jun.2.2014)	0



### Authorities



Ministry of Environment Information system



Local Government Information System (Saeall system)



Ministry of Employment and Labor



Major(large) Business



Korea Customs Service



Korea Coast Guard

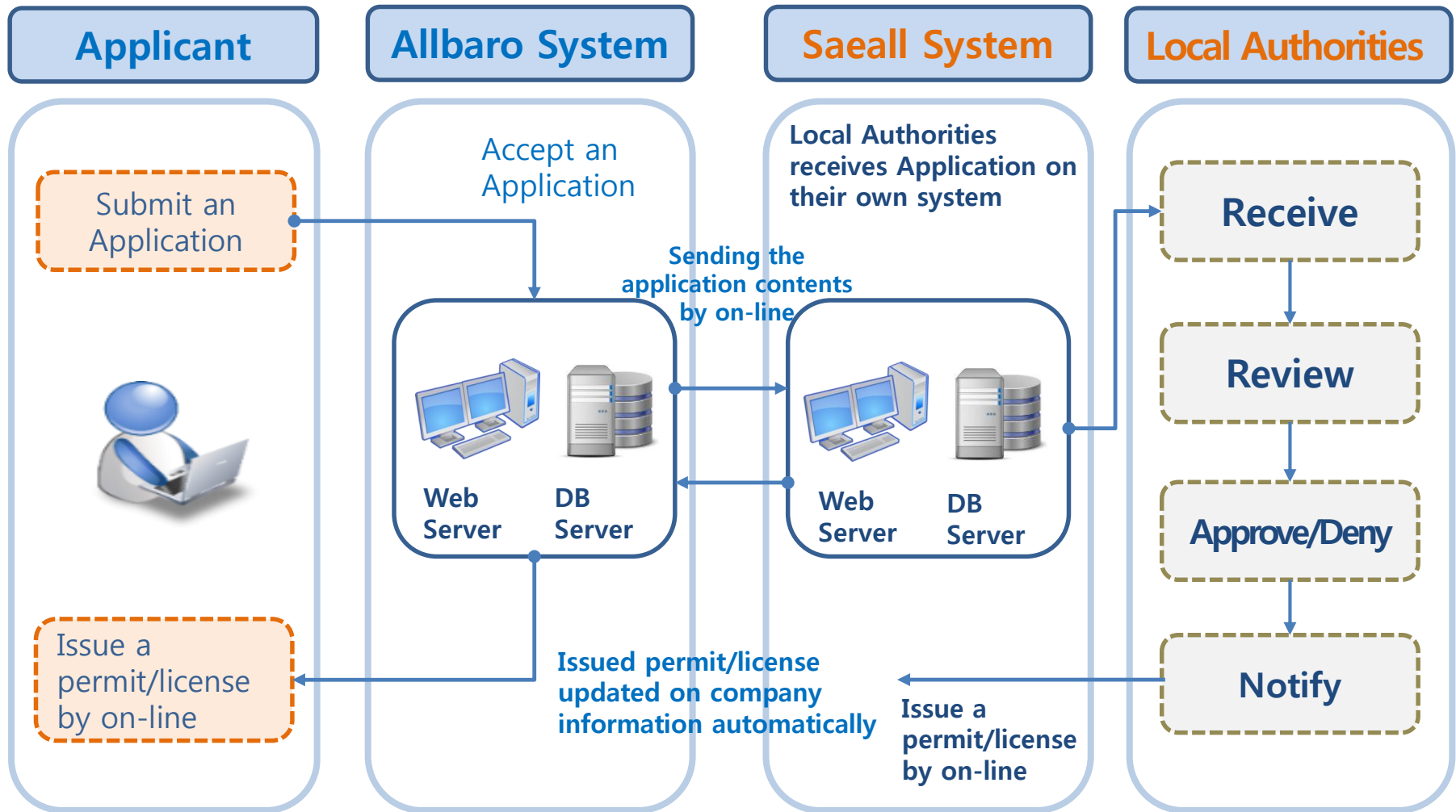
## 2. Improve Operation of Allbaro and User usability

**Designated waste discharge registration information**(regional environmental agency, 6,060), **business sites waste discharge and modified discharge registration**(Saeall system; local government information system, 483) and other data included, **total 731,000 cases of information** connected.

Allbaro linked System	Number of Case		
	2013	2014	2015
Ministry of Environment (MIS)	5,344	5,876	6,060
Local Government Administrative Information System (Saeall system)	433	466	483
Ministry of Employment and Labor (NoSa-Noori System)	17,205	17,356	19,608
Major manufactures' E-manifest (Large discharger which has their own e-manifest system)	553,286	667,522	687,556
Import & Export waste qualification check (Korea Customs Service Uni-Pass system)	17,216	17,469	17,483
Sea discharge information system (Marine discharge is prohibited in Korea since Jun.2.2014)	67,030	15,646	0
<b>Total</b>	<b>643,298</b>	<b>724,335</b>	<b>731,190</b>

## 2. Improve Operation of Allbaro and User usability

- Example 1 : Allbaro System Utilization by connecting other Systems(Allbaro↔Saeall System)



## 2. Improve Operation of Allbaro and User usability

- **Example 2 : Allbaro System Utilization by connecting other System  
(Allbaro↔National Customs System(Uni-Pass System))**

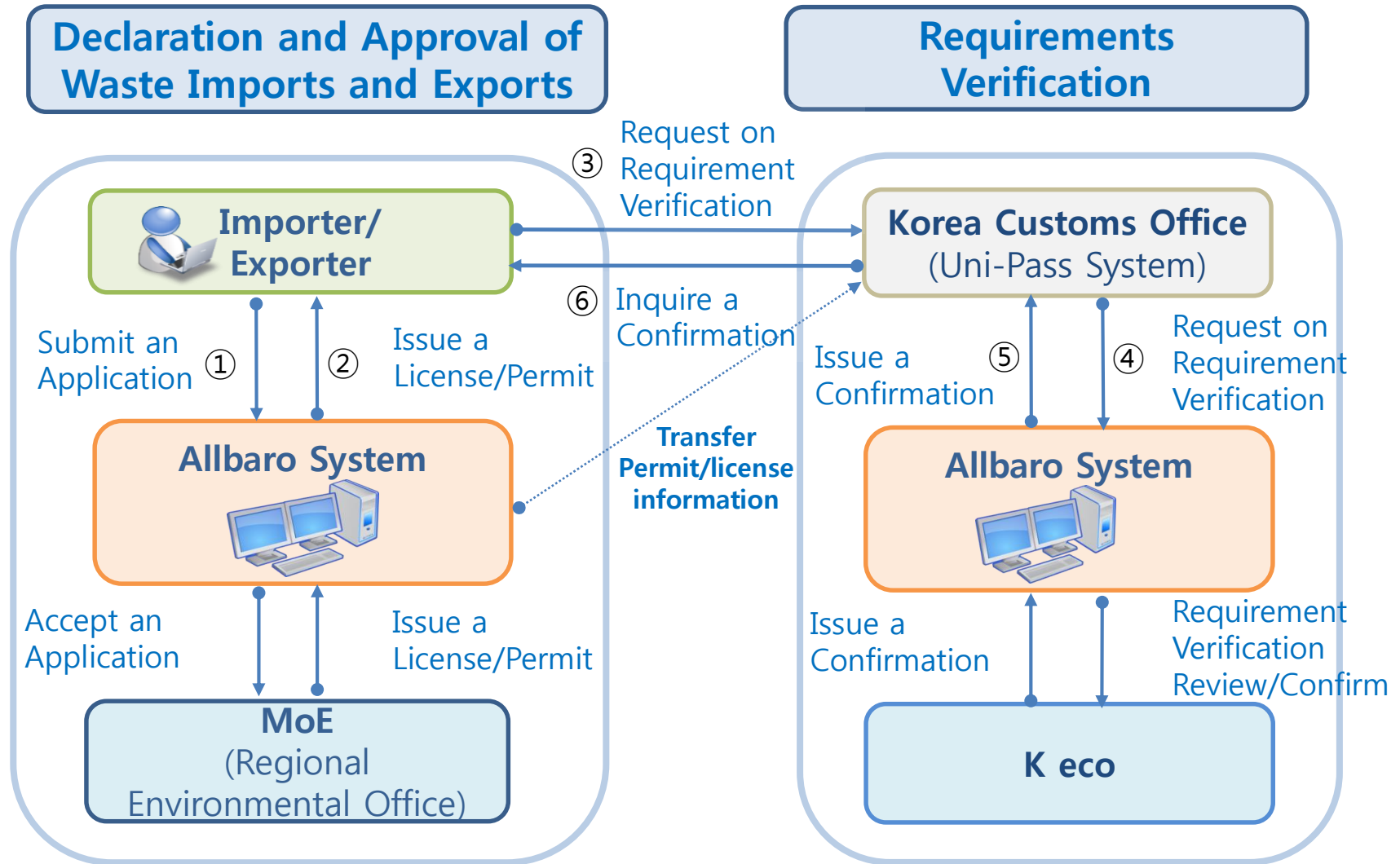
The system manages civil petition authorization and permission related to Export and Import waste, e-manifest, ledger, report, requirement verification process, etc.

('15.12.31, Unit: Case, 1,000ton)

Year	Permit/Declaration	Verification Requirement	E-Manifest	Waste Amount
Total	4,267	34,952	201,151	10,818
2014	2,179	17,469	100,958	5,263
2015	2,088	17,483	100,193	5,555

For efficient customs process, export and import waste declaration and permission information and requirement verification check function(importer, exporter info, waste types, amount, composition, etc), etc are linked between Allbaro and National Customs System.

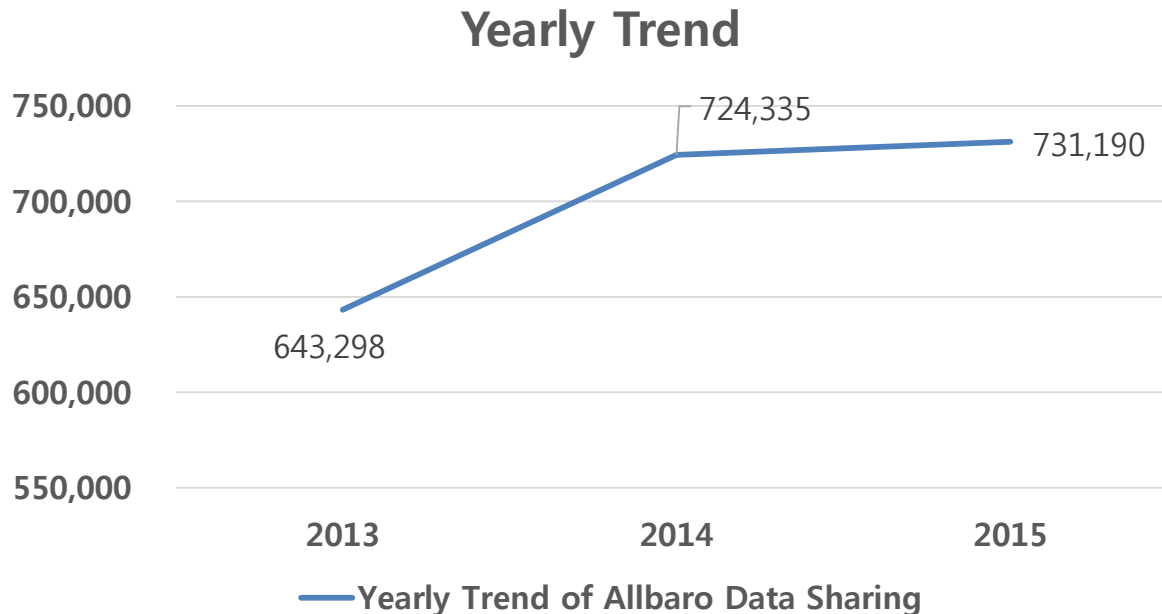
## 2. Improve Operation of Allbaro and User usability



## 2. Improve Operation of Allbaro and User usability

Continuing cooperation and system database link to other competent authorities information system, 6,855 cases of data and information share increased in 2015 from 2014

By Connecting to local governments and other authorities, etc, enable more accurate and faster administrative work of waste management and improve the service to the public





**Thank you**

