



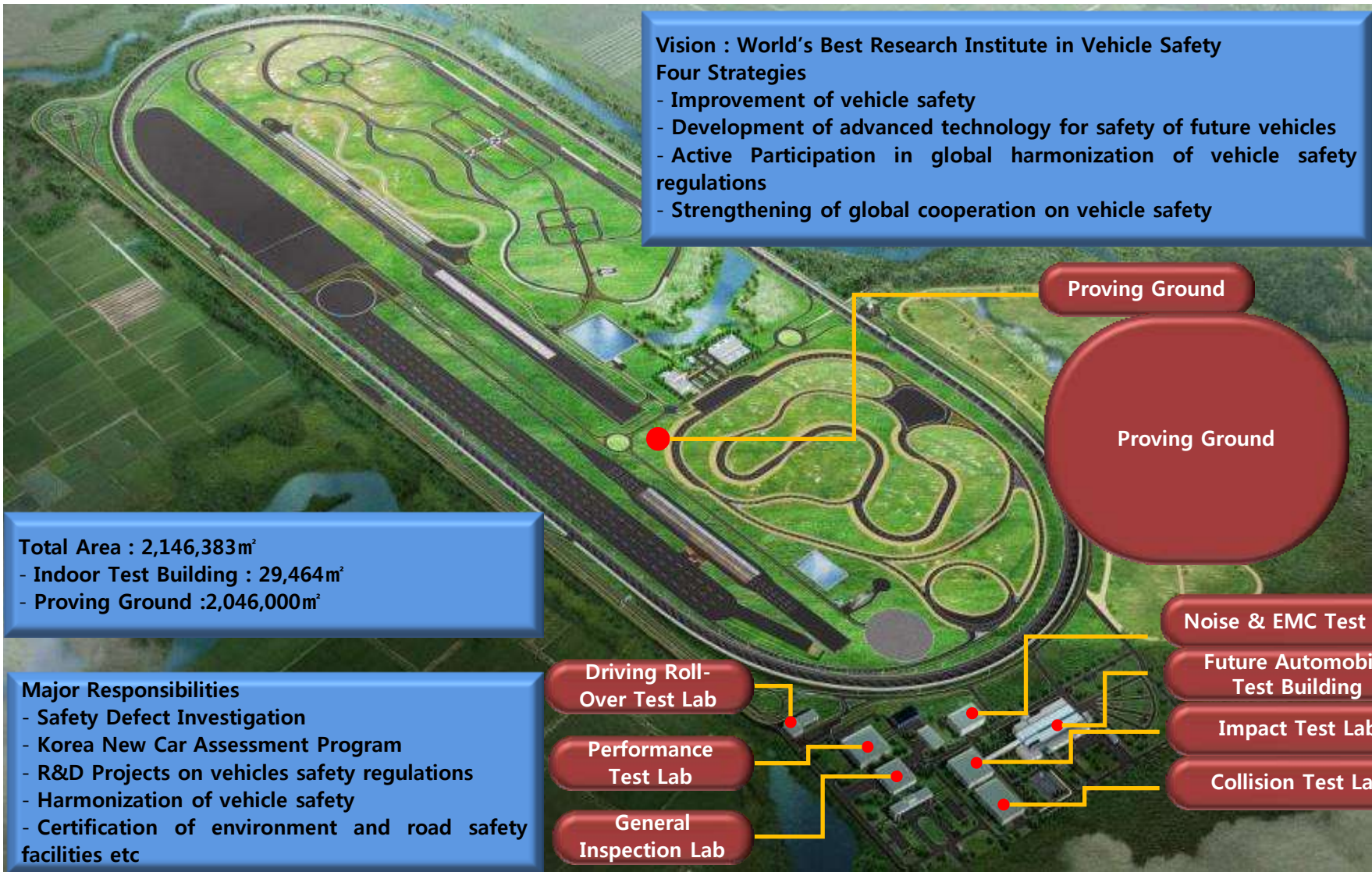
# 5<sup>th</sup> GRSG-AECD Informal Meeting

. September. 2

Korea Transportation Safety Authority  
Korea Automobile Testing and Research Institute  
Chief Researcher Kim Sung Sub

## Table of Contents

- ✓ Introduction of KOTSA
- ✓ The Study on eCall
- ✓ Policy of eCall
- ✓ Communication environment
- ✓ Result



## Over View

- Participation Organization : 11
- Period : Dec., 2009 ~ June.,2017(7Y 9M)
- Budget : 28 m\$(Government : 21m\$, Private : 7m\$)

## Goal

- Assessment Technology of Advanced Safety Vehicle

Year	'09년	'10년	'11년	'12년	'13년	'14년	'15년	'16년
Grants	770	2,450	3,430	3,400	4,300	2,900	2,000	2,050



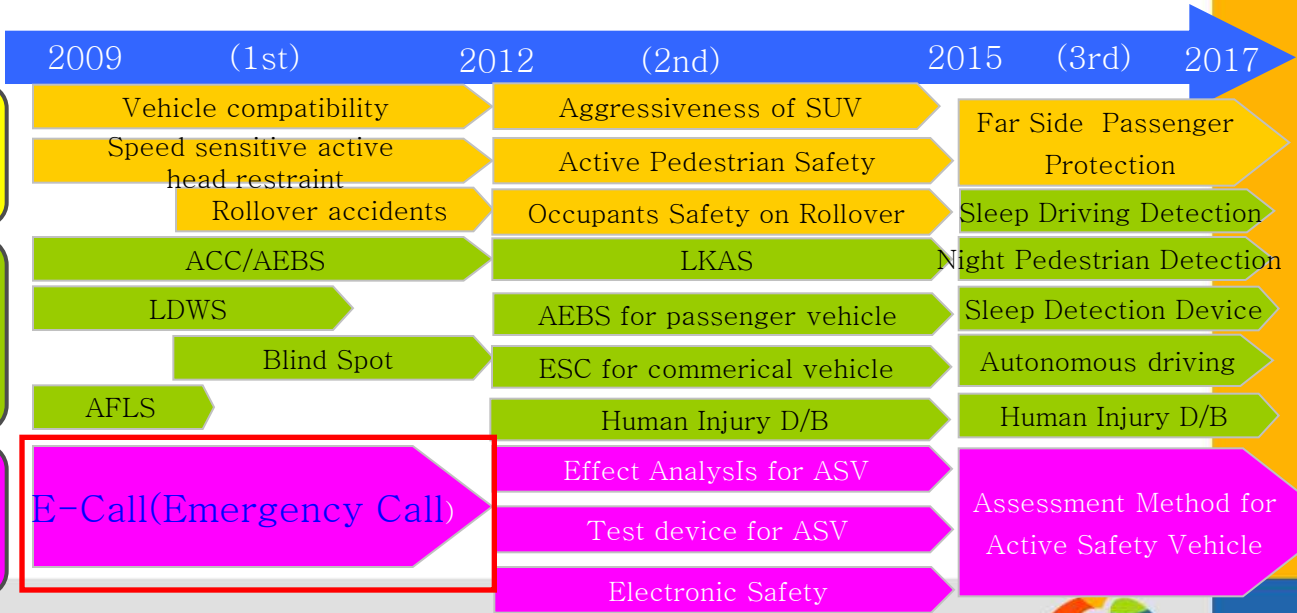
Mitigate Casualties



Improve Active Safety Technology



Safety Integrated With IT





## ❖ The Outcome of 1st ecall Study

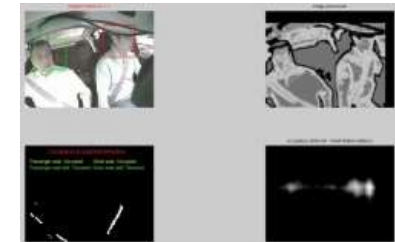
- Standard(draft) for eCall Device Performance
- Development of passenger injury determination algorithm
- Development of eCall device for vehicle and smartphone

The image shows a screenshot of a table titled 'Algorithm for injury discretion'. The table is organized into several columns and rows, with some cells containing numerical values and others containing text or symbols. The table appears to be a technical specification or a data set used in an algorithm.

<Algorithm for injury discretion >



<Ecall Device for Vehicle>



<Algorithm for passenger state >



<Ecall for smartphone>



## KNCAP Roadmap(2014 ~ 2019)



<Collision Safety>



<Seat Safety>



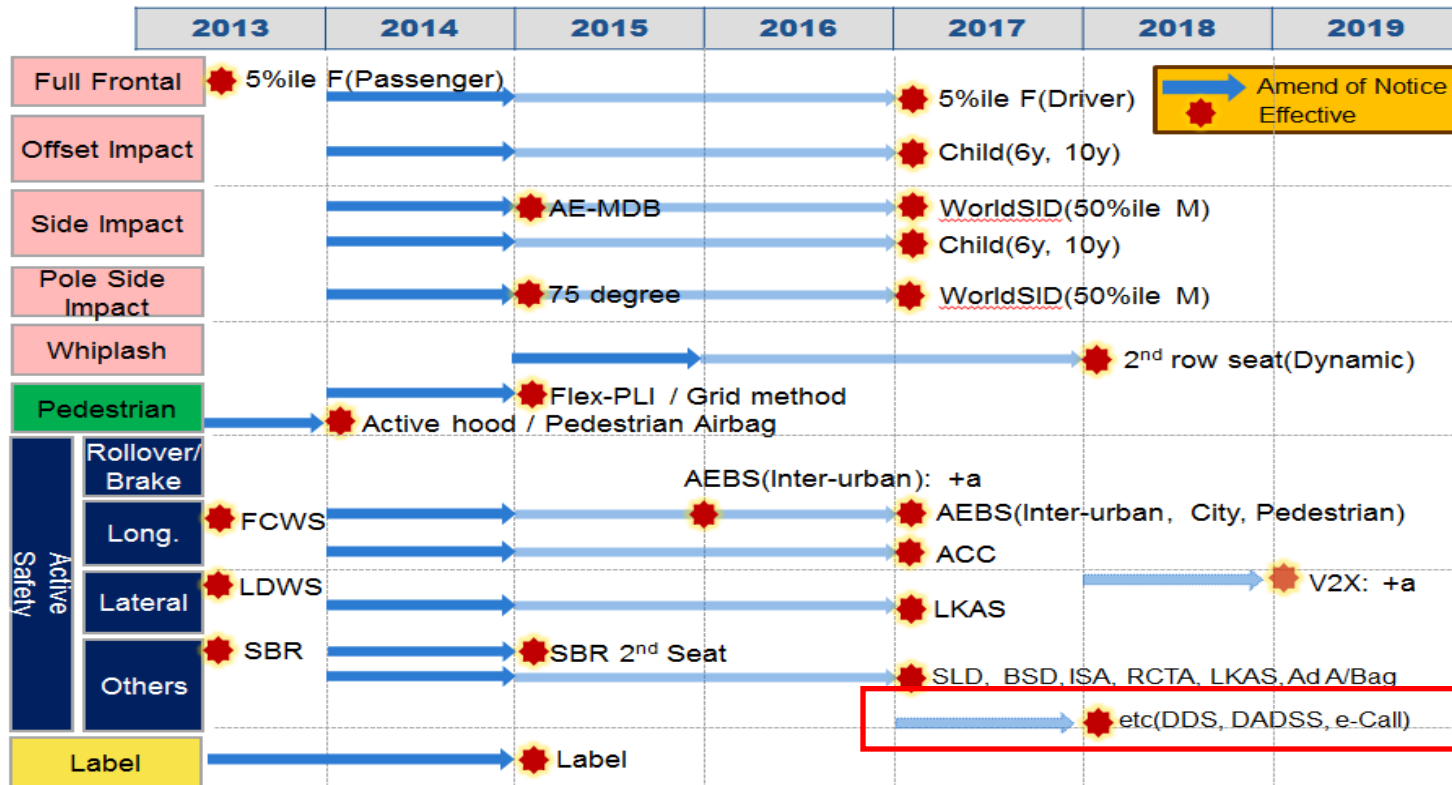
<Pedestrian Safety>



<Rollover Safety>



<Brake Safety>



→ Amend of Notice Effective  
★

KNCAP eCall

Announced comprehensive measures to reduce traffic accident casualties  
13year The national policy setting meeting

Ministry of Transportation Goal

Performance Goal : Traffic accidents 30% reduction by 2017(compared to 2012)

eCall Service ICT Vision :

Future emergency response system, leading to traffic safety

Promotion Goals : eCall service promotion implementation and activation

Promotion Challenges :

To develop eCall device for vehicle

To build a Private Center for eCall service

To provide laws for the eCall service

## ❖ MOZEN Service

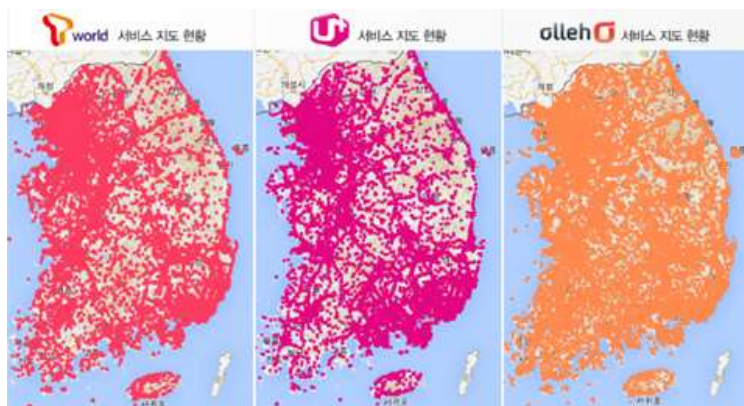
- Business Start : Since 2003
- Applied Vehicles : Hyundai-Kia Automotive
- Communication method : 3G(KT, SKT)
- Fare : free for 2 years after purchase, 7 dollars per month
- Subscriber : 200,000
- Main function
  - . Safety Service : SOS, Automatic airbag deployment notification, Theft tracking  
Theft alarm notification, 119, 112 call dispatch
  - . Vehicle Management Services : Supplies, Remote diagnosis, Remote door opening  
Vehicle location etc)
  - . Route guidance service : Quick directions, Risk areas



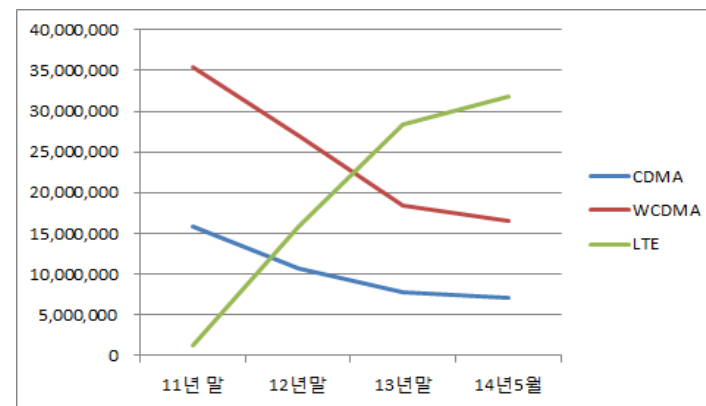


❖ Wireless subscribers ('14 year) : 55 millions( Population : 51millions)

Telecommunication company	Mobile communication technology system		
	CDMA	WCDMA	LTE
SKT	3,796,442	8,964,819	15,030,390
KT	0	7,546,639	9,164,667
LGU+	3,263,626	0	7,701,188
합계	7,060,068	16,511,458	31,896,245



LTE Coverage('11 ~ '13 year measurement data)



Communication Trends

- ❖ Domestic communication technologies are rapidly changing and
- ❖ Communication company gradually has been reducing 2G service
- ❖ The LTE can cover the whole country in Korea
- ❖ Communication method and MSD should follow the standards of each country
- ❖ Minimum standards regarding to physical and mechanical safety

Thank You for Your attention