

Security Level:



SMARTCITIES
of Romania



WORLD
ENERGY
COUNCIL

Organizatori
COMITETUL
NATIONAL ROMÂN

ITS
events management



8 - 9 Noiembrie 2016 Universitatea POLITEHNICA Bucuresti
Rectorat - Amfiteatru AN010

Huawei Urban & Smart Transportation Solution

Codrut Savulescu
Huawei Romania
Bucharest November 2016

BUILDING A BETTER CONNECTED WORLD

www.huawei.com



1

Huawei Urban Traffic Solution

Professional ITS
Perception & Management & Collaboration

2

Smart Transportation Solution

Smart Bus & Stations, Passenger Information System

3

Successful Cases

ITS brings customer social and economic benefits

Huawei Urban Traffic Solution



Perception



Traffic Video Surveillance & E-police

- HD recognition
- Intelligent analysis

Traffic Information Collection

- Traffic Flow Information
- Alarm Call Center

Traffic checkpoint

- Photo Shooting for every vehicles



Management



Traffic Integrated Management Platform

- Larger Screen & GIS Map Assist
- Traffic Situation Awareness
- Scientific Decision
- Command and Dispatch



Collaboration



Traffic Violation

- Multiple Violation Management
- Automatic Violation Record

Traffic Signal Control

- Automatic control Traffic Signals
- Remote control from center

Traffic Guidance

- Information Release

Safe and Orderly Traffic, Limit Air Pollution, High Quality Life

Huawei Intelligent Transportation Solution Products



Applications level



Traffic Violation



Traffic Checkpoint



Traffic Surveillance



Traffic Guidance



Traffic Signal Control



Traffic Information Collection

400+ business partners

Platform level



Management Platform



CG Gateway



Database



GIS



Unified management

Unified management
By eSight

Perception level



Violation



Checkpoint



IPC/NVR



eLTE



Green Energy

Standardization
Easy interconnection with third-party platforms

Infrastructure level



Data Center



Server



Storage



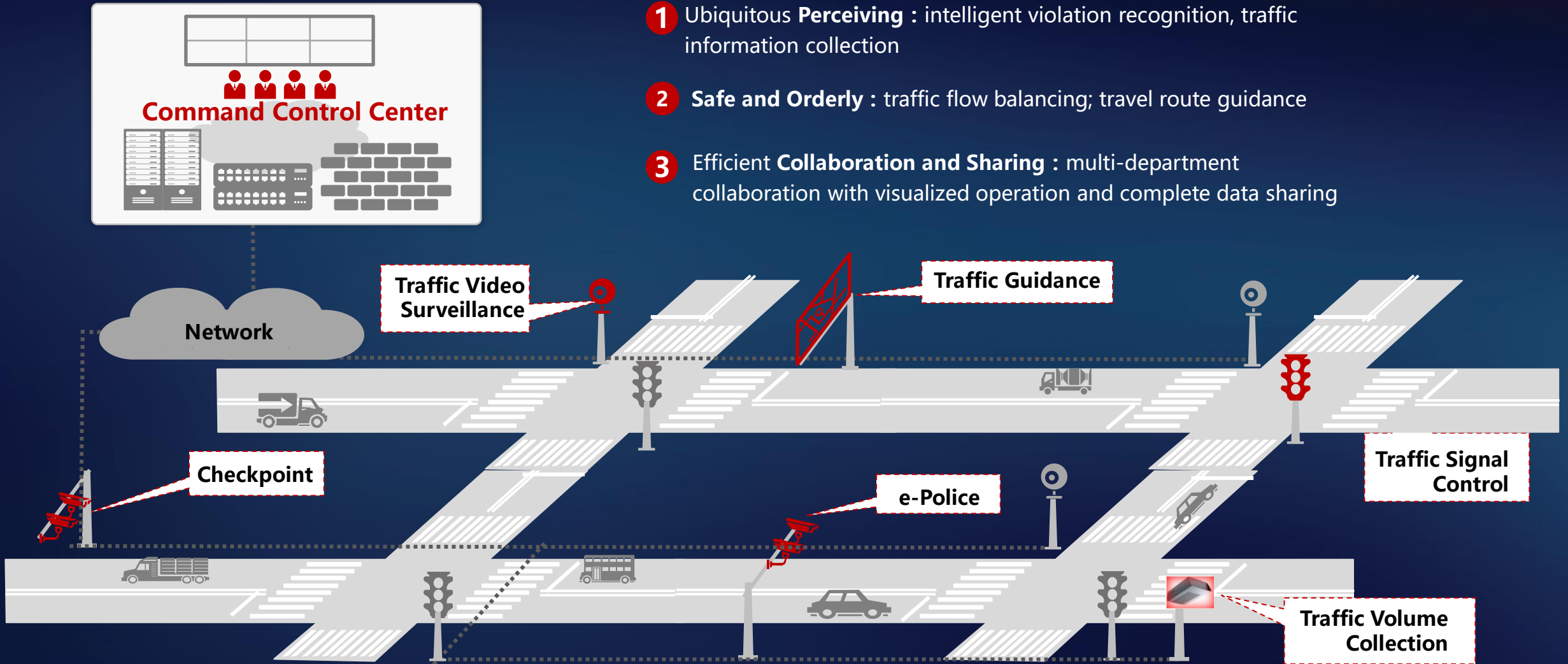
Network



Security

End to End
complete solution

ITS solution baseline: Urban Traffic Safe and Orderly



Traffic Video Surveillance



High-definition real-time traffic situation



Intelligent analysis



High-definition & visualized & intelligent traffic situation

Real-time and accurate display of road traffic situation offers command officers straightforward info and facilitates incident response

Traffic Volume Collection

Video detection



Microwave detection



Volume analysis



Traffic signal control



Traffic information release



Precise statistics, straightforward display and smart linkage of vehicle flow

Offer reference for urban traffic planning, signal control and public travel

Traffic Signal Control



Deeply optimized traffic signal control

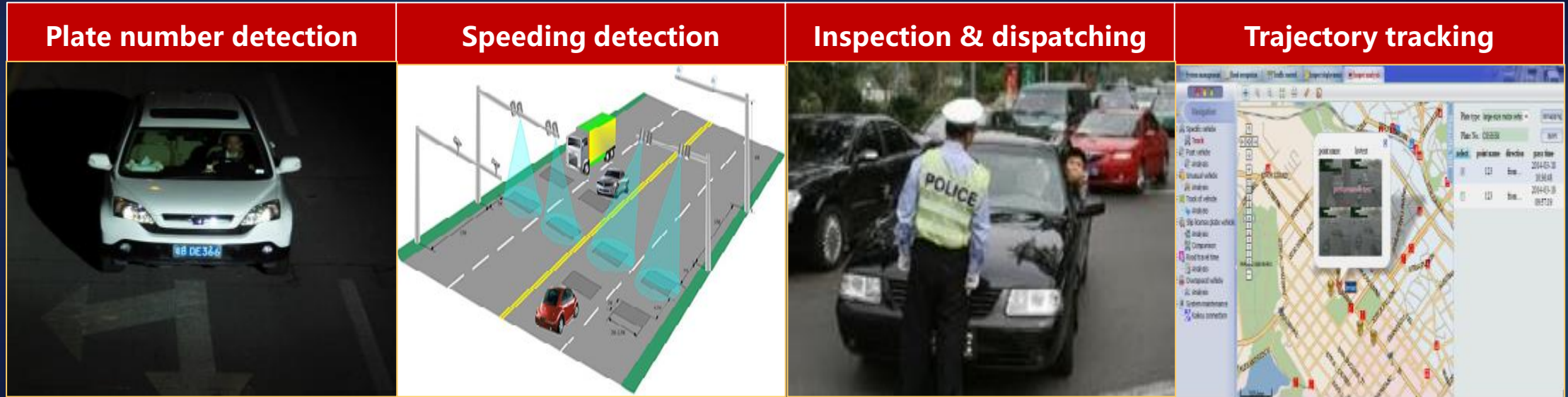
To regulate traffic behavior, reduce intersection collision points, and keep traffic safe, orderly and smooth



Abundant & automatic violation capturing with high recognition rate

To strengthen traffic law abiding consciousness, protect traffic safety, ensure smooth road and to improve road capacity

Checkpoint



High-definition, intelligent, 24-hour capturing

Automatic recognition and tracking for black-list, escaping and suspect vehicles; to improve the response speed of traffic management

Traffic Guidance



Real-time and eye-catching traffic guidance with centralized control

To effectively divert and reasonably balance traffic flow; to facilitate the optimization of travel route

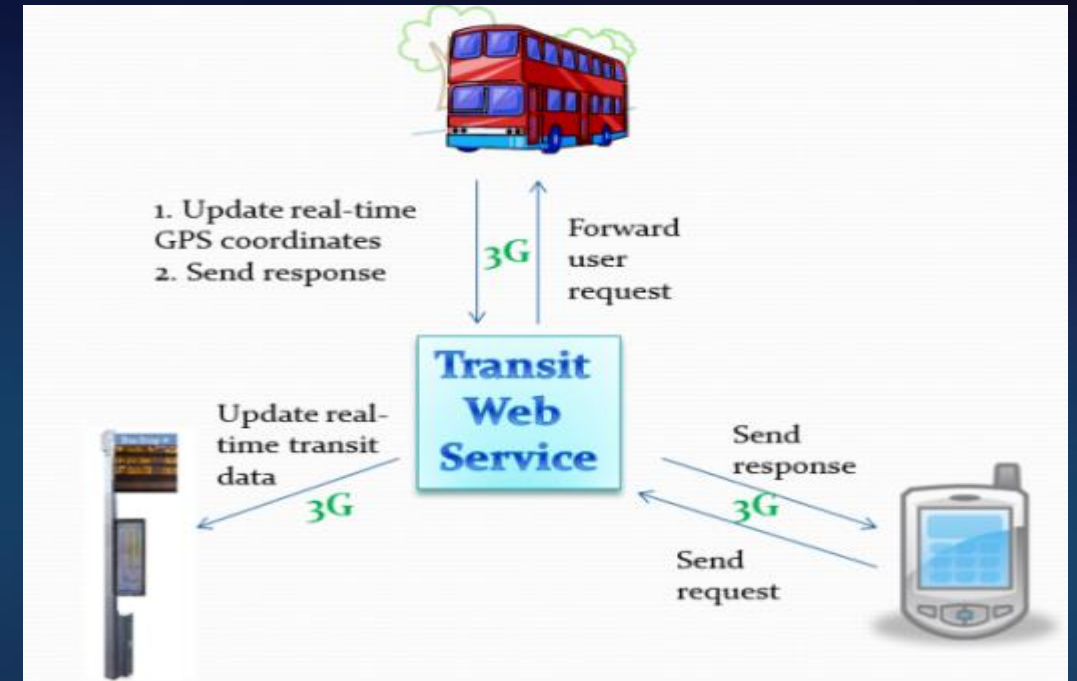
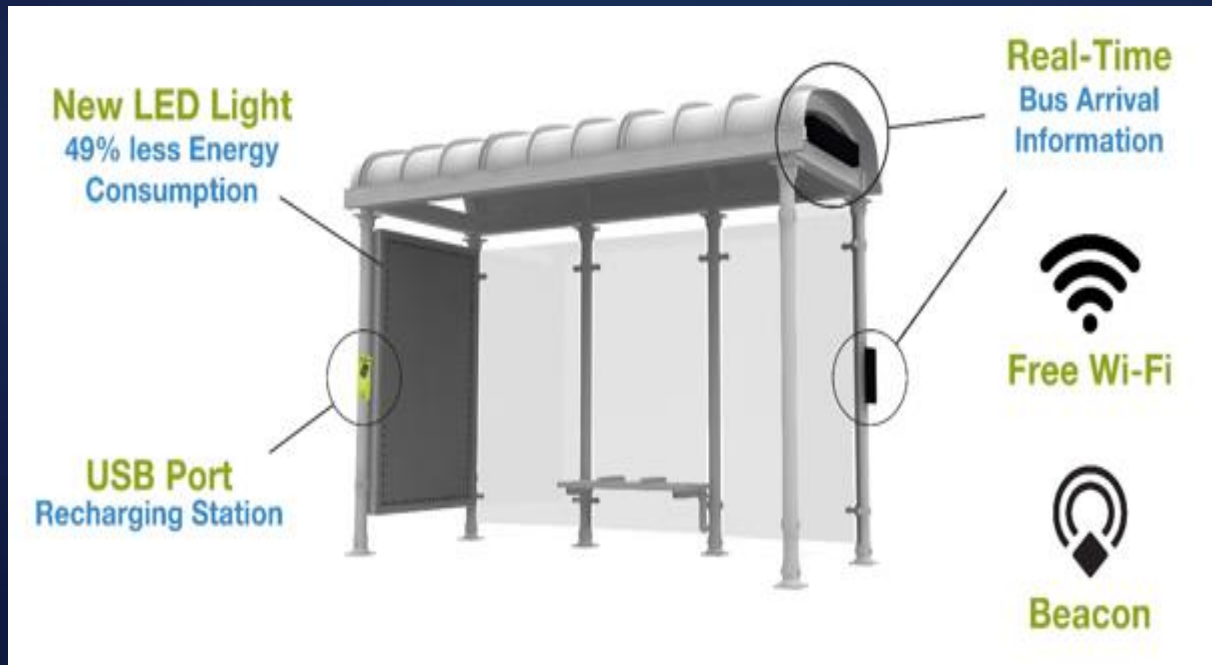
Integrated Management



Integrated, centralized and open traffic management with visualized interface

Break isolated information island with data gathering, mining and processing; realize multi-department collaboration and complete data sharing

Smart Bus & Station



- Improve User Experience
- Save Energy

- Improve travel efficiency
- Save Time

Passenger Information System



Real-time passenger information guidance with centralized control

Multiple Information

Phasing out of Printed timetables

Midhurst • Haslemere • Godalming • Guildford

70, 71, 92

MONDAYS TO SATURDAY'S except Public Holidays

	70	71	92	70	71	92	70	71	92	70	71	92	70	71	92	
	M-F	M-F	M-F	S	M-F	S	M-F	S	M-F	M-F	S	M-F	M-F	S	M-F	
Midhurst Bus Stand	0652						0802a						0932			
King Edward VII Hosp Main Rd	0657						0806						0937			
Fernhurst Crossroads	0702						0814						0940			
Carnesdale Bridge	0707						0822						0947			
Shottersmill Junction Place	0709p	0736					0824p0847			0917			0951			
Haslemere Rail Stn	0655	0716	0715	0739			0820			0920			0954			
Haslemere Town Hall	0657	0714	0717	0741			0822			0922			0956			
Ramsnest Petworth Rd	0704		0724				0829			0929						
Chiddingfold Crown Inn	0706		0726				0831			0931						
Witley Rail Stn	0711		0731				0836			0936						
Grayswood Church			0746										1001			
Brook Dog & Pheasant			0750										1005			
Witley The Star	0646	0716	0726		0736	0756	0811			0911			1011			
Milford Church	0650	0720	0730		0740	0800	0815			0915			1015			
Eashing Ln Estate			0738		0748		0828			0928			1028			
Aurora Hill Estate							0831			0931			1031			
Godalming Flambard Way	0657	0727	0742		0752	0807	0822	0837	0847	0907			0922	0937	0952	1007
Godalming Bridge St	0659	0729	0744		0754	0809	0824	0839	0849	0909			0924	0939	0954	1009
Farncombe Kings Rd	0702	0732	0747		0757	0812	0827	0842	0852	0912			0927	0942	0957	1012
Guildford Friary Bus Stn	0715	0745	0800		0810	0825	0840	0855	0910	0925			0940	0955	1010	1025

Information in buses

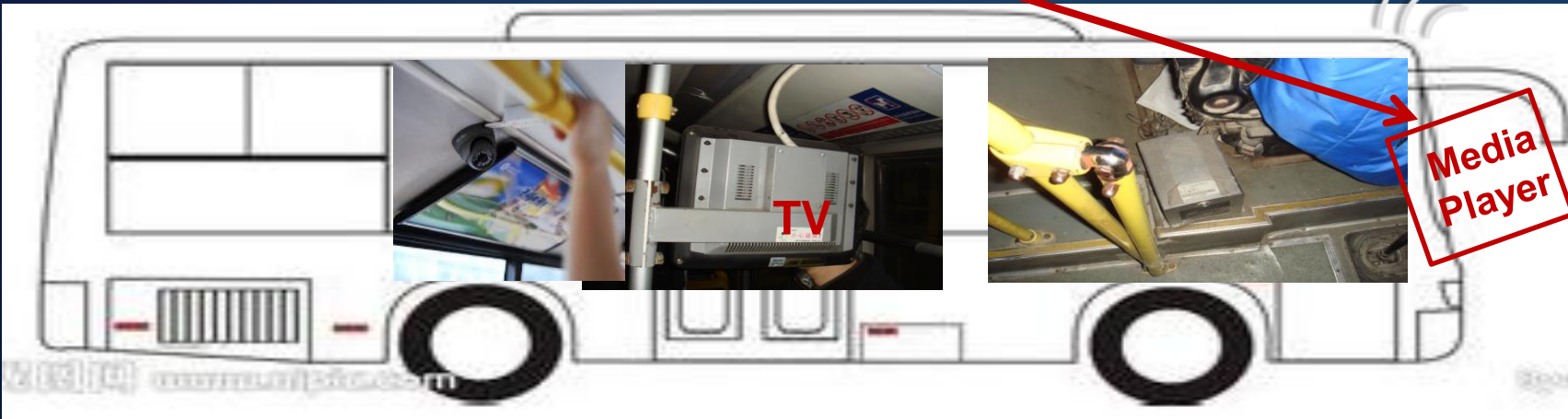
Bus Online Solution Overview



Video Surveillance : Real time surveillance to keep security

TV& Advertisement : Media Player (4G Memory) ,Wi-Fi content sync, HD.

Internet



AR511

Bus Online (Advantages)



Operational



- End to End Bus Wi-Fi solution

Management



- Visualized device management ;
- Easy to upgrade ;
- QoS for different customer

Integration



- Support open platform, customize application base on business requirements

High-Reliability



- Network Security
- High Quality of equipment

Smart Bus

- School Bus
- Bus (Public Transportation)
- Bus (Enterprise Shuttle bus)
- New Energy Bus (Electric Bus)
- Others



ITS Customers Worldwide



JOIN US IN
BUILDING A BETTER CONNECTED WORLD

THANK YOU

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