Deployment of 'ITS Spots'

Car navigation systems for ITS Spots released in 2009.
1,600 ITS Spots installed mainly on expressways.



<u>3 Basic Services</u>

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- Dynamic Route Guidance
- Safety Driving Support
- ETC



Car Navigation Systems and OBU for 'ITS Spots'

- 16 automobile manufactures, navigation systems and OBU manufactures for ITS Spot.
- 10M OBU units to be sold over 5 years.



Service1 : Dynamic Route Guidance

• In the case of travel between metropolitan areas, wide-area information as well as metropolitan area information can be received from ITS Spot.



Service2 : Safety Driving Support

• 'ITS Spots' supports safe driving.



(Displayed about 1 kilometer before the obstruction.)

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Congestion Warning (Invisible beyond a curve etc. at an accident hot spot)



Images inform drivers of snow, fog, and other weather conditions, and of congestion inside tunnels.





Utilizing probe data

• Probe information used for efficient and advanced road management.

Probe information in Sapporo



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Probe information in Central Osaka



Gathering historical behavior data (forward and backward) acceleration Jun -Nov 2011 (6 months) in Central Osaka.

MENENDARE HAINING

-0.25 to -0.30 -0.30 to -0.35 -0.35 to -0.40 -0.40 to -0.45 -0.45 to -0.50 Legend (Others) Expressway Ordinary roads Railway(JR)

5

Distribution Support Services

- Probe data of each logistic vehicle is collected at ITS Spots free of communications charges, and provided to the logistic center real-time.
- Physical distributors use the probe data for controlling vehicular operation and cargo delivery.



Cashless Transactions

• Demonstration using test vehicles were implemented at the Tsukubakenkyugakuen branch of McDonald's on Mar. 5 through 16, 2012.





Orders are registered by car navigation system.

Messages on the screen of car navigation systems are actually displayed in Japanese.

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DSRC service	× Close
Credit card payment in process	Charging information Show charging information
	Confirm your orders Yes No
* 3:51 ••• 334 •	Stop

Cashless payment using credit cards

KEOUT

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Receiving merchandise