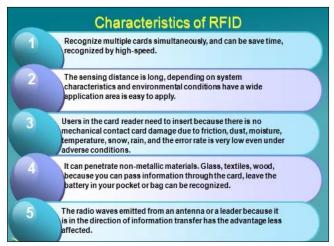
공급 체인 관리 RFID 응용에 대한 연구

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- **요** 약: 본 연구는 공급 체인 관리 및 물류 개발에 RFID 기술의 활성화 역할을 제공합니다. 또한, 연구 결과는 국제 물류의 RFID의 최근 응용 프로그램을 공개하고 협력 업체 간의 RFID 널리 채택 및 사용의 핵심 요소로 이유를 분석합니다.

핵심용어: RFID, 기술, 물류, 응용, 공급 체인 관리

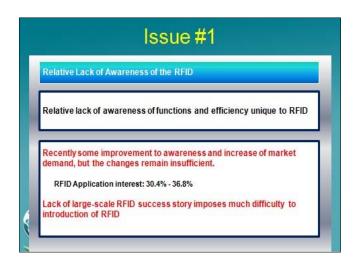




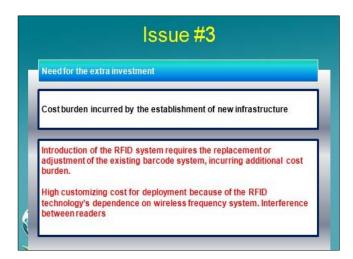
	Barcode	OCR (optical character recognition)	Magneticcard	IC Card (integrated circuit card)	RFID
Recognition Method	Non contact	Non contact	Contact	Contact	
Recognition Distance	~ 50cm	~1cm		•	-27m
Recognition speed	4 8ec	3 Bec	4 Sec	1 Sec	0.01-0.1 Sec
Penetration	impossible			Possible (Except metal	
Contaminant	High	High	Exist	Exist	None
Recognition surface	Single surface	Single surface	Single surface	Single surface	All Burtece
Plural Recognition	Impossible			Paccible	
Save data	~ 100byte	~100byte	~100byte	16~64Kbyte	16-84Kbyte
Demage	High	High	Hgh	High	-Frii
Expiration		145	Less than 10,000 (4 Years)	10,000 (5 Years)	100,000 (60 Years)
Counterfeit	Yes	Yes	Yes	Few	Few
Cost of tea	Very low	Low	Low	High(Over \$10)	Medium (-81

Category		Purpose and characterictic		
industrial	Process Cantrol	Real time date control of process and inferior. Final Marker, Employee, date, Order No, Lot No obe saved and can be used on A/B.		
	8CM	Path of Material, information and cost from distributer to produce; detail shop, and costumer ca- be observed and controlled. Easy to watch invertory for future.		
	Security	Entrance security is providing for industry, apartment, members hip citie such as where needs access security. Employee wetching, cafeteria, security for personal computer system can be providing.		
Distribution	Shipping	The tag that attached on cargo can track the status for real time during the shipping		
	Storage Control	Receiving and departing of inventory can be monitored in real time, and authorized system increase effectiveness of process.		
	Air Distribution	By adding information on RFID tag for cargo can track the pathway, monitored status, and more		
	Warehouse	Minimize the distribution process by keep treck and controlling display, theft prevention brings profit. Running store without employee is possible.		
Public Property	Library	Keep the track on inventory, and minimize renting process.		
	Parking Highway	Decrease delay by automatic ticketing system, it can prevent parking violation, and charging hig way usage.		
	Transportation Fee	It can be attached to transportation card of credit card. It has been used on the bus and the subway. It can be apply to airline, ship, taxl and more.		
Ect	Electric BII	Electric bill can satisfy safety, identity that, user's privacy as basic function.		
	Patient control	Easy to maintain patient. Patient's information as medical history can be maintained and served easily and can be used well in the emergency and secured. Past and convenience service can be provided. Can save the cost of medical can.		
	Arboriculture	The number and types of arbor can be kept in the data, and managed on red time.		
	Livestock	Livestock control can be efficient by making the data of animal's info.		

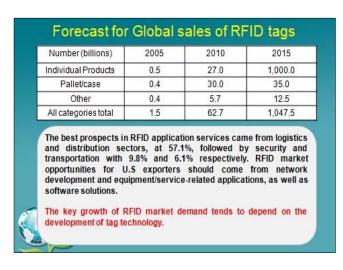
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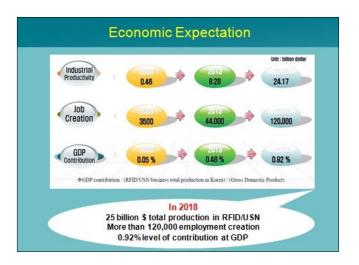


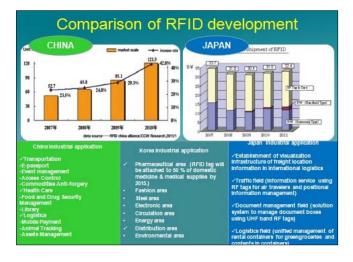


RFID is a key enabler of Supply Chain Operations Implementation challenges, identity-based tracking and web services for small-and medium-sized enterprises

- RFID based system for real-time fruit management
 Application of RFID and sensing technology for improving frozen food quality management RFID for customer relationship management

Logistic standards and emerging issues such as privacy and security considerations for RFID systems, legal and ethical issues concerning or the role of consumer education in the future of this technology.





Conclusion and Future Research Topic

- · RFID is key enabler of SCM
- · Doubt on the efficiency & importance
- · Lack of success stories
- · High Tag of RFID tag

The RFID industry is emerging from its transition stage as businesses are ramping up their use of RFID technology. It is expected that this profitable sector will attract more investors looking for opportunities on the horizon.

