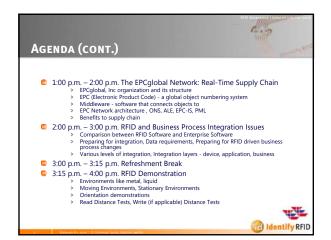




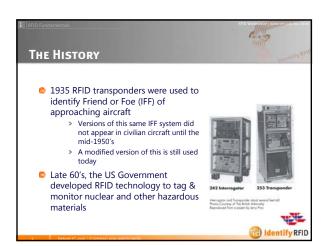
WIROJ NGAMSUKKASAMESRI MBA Cambridge, UK Thammasart University, Gold medal 10+ years experiences in various MNC 3 years experience in Mitsubishi Corp. Supply Chain Research Manager General Manager, Identify Limited – RFID company







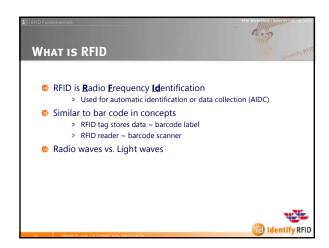


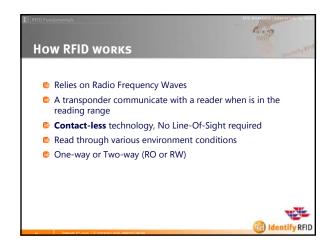


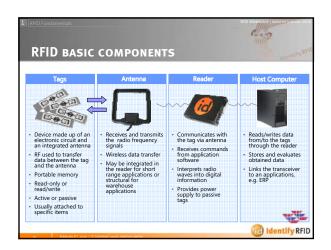


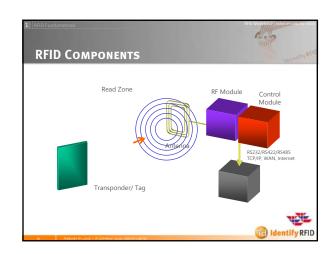


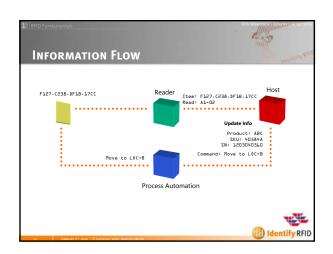




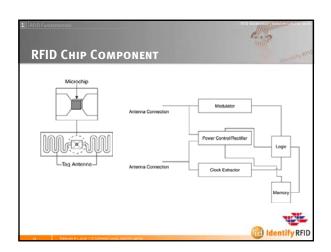


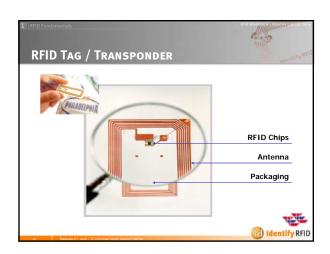






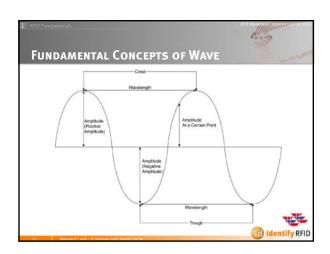


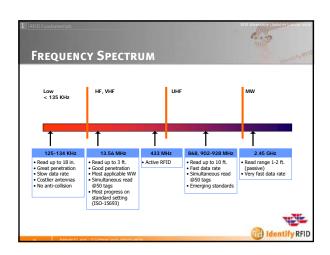




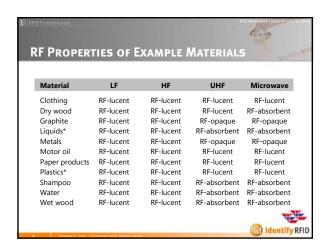






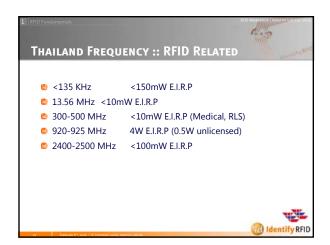


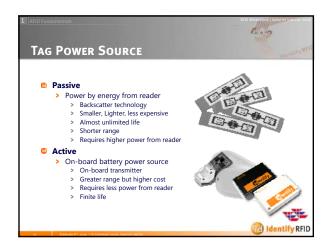




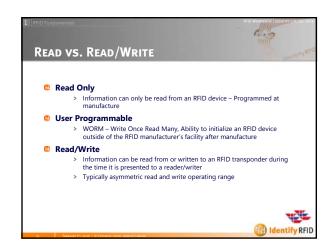




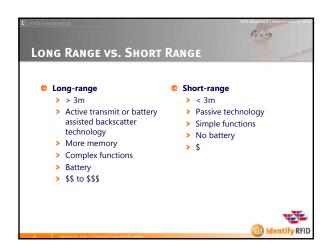


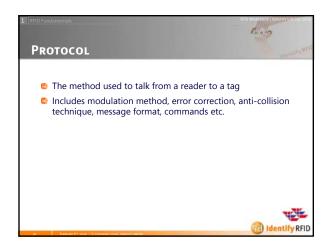




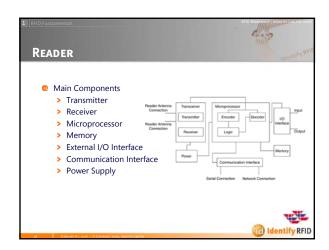




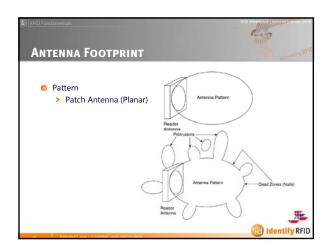


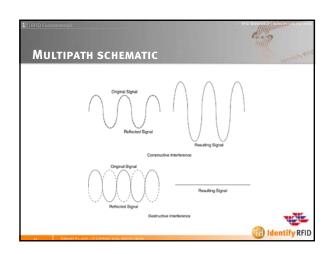


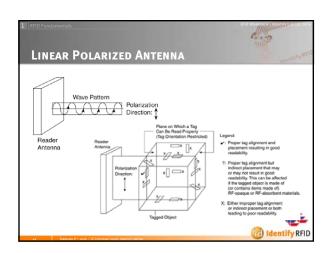


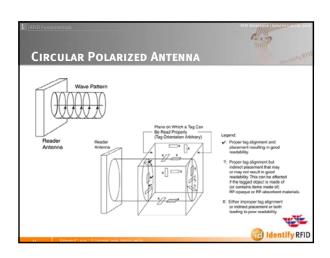


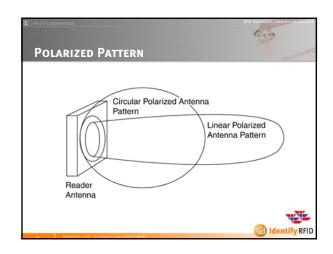




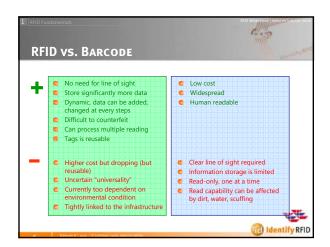


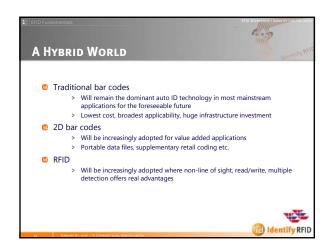




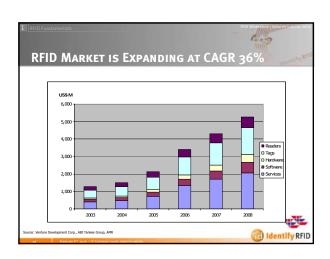


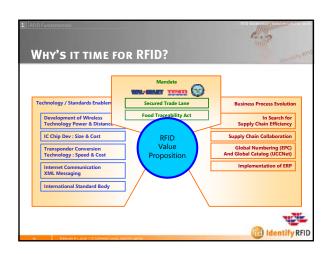




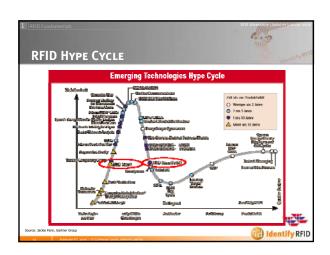




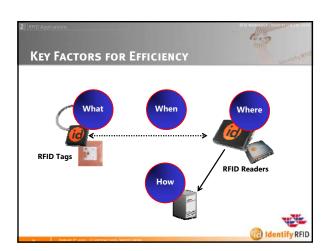
















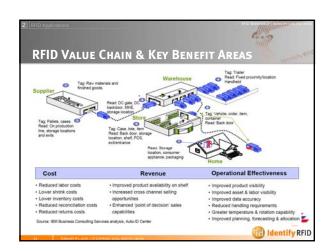
















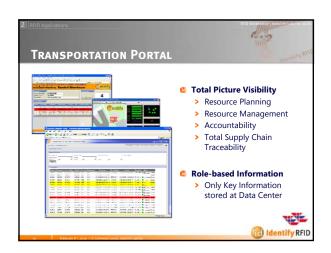


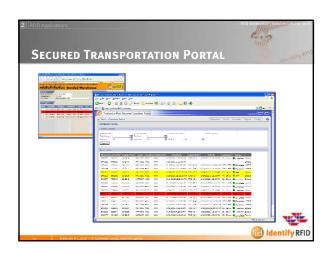














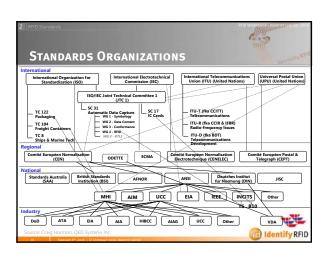


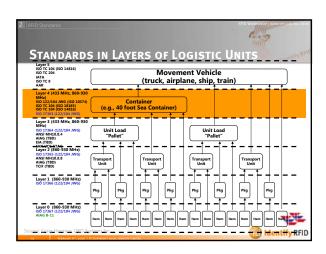








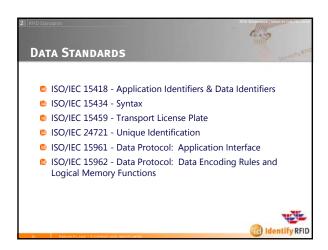


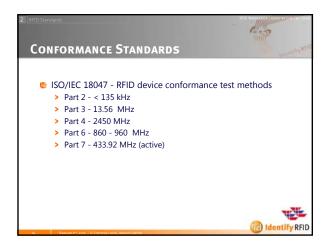






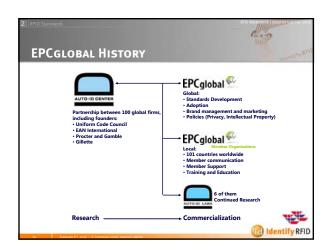


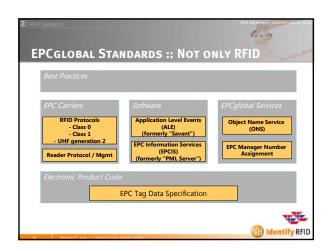


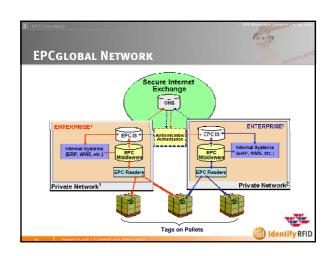


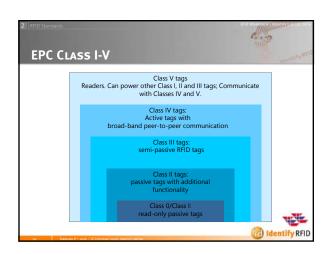


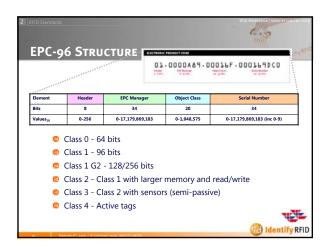


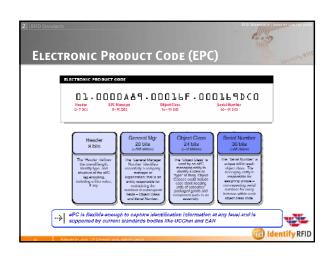


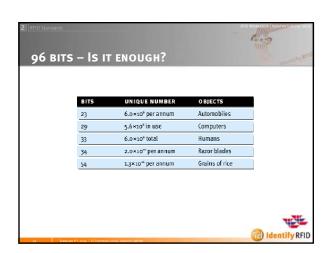


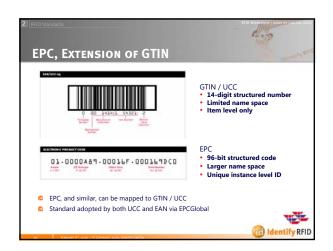




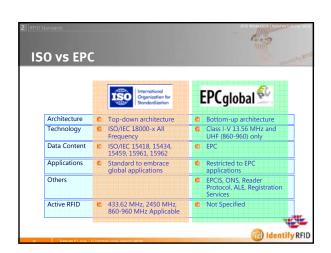


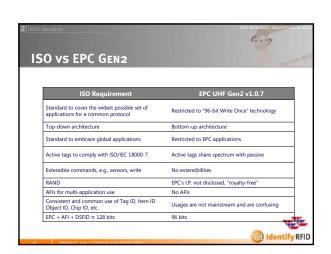


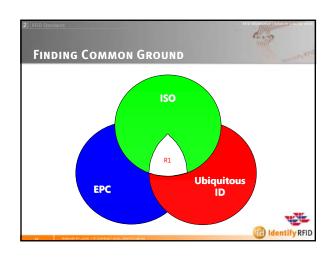
















NAV FAD	How fast,	Цом,	AANN L	LOW MILEUZ
JW FAK,	HUW FASI,	now i	WANT, F	IOW MUCH:
Frequency	Regulation	Range	Data Speed	Comments
120-150 kHz 18000, Part 2 (passive)	Basically unregulated	< 1m	Low	Animal identification and factory data collection systems
13.56 MHz 18000, Part 3 (passive)	ISM band, differing power levels and duty cycle	< 1m	Low to moderate	Popular frequency for I.C Cards (Smart Cards), Libraries
433 MHz 18000, Part 7 (active)	Non-specific Short Range Devices (SRD), Location Systems	1 - 100 m	Moderate	Container Security and Tracking. Asset tracking for U.S. DoD (Pallets) - Active
860-960 MHz 18000, Part 6B (passive)	ISM band, increasing use in other regions, differing power levels and duty cycle	2 - 5 m	Moderate to high	MH10.8.4 (RTI), AIAG B-11 (Tires), EPC, 18000-6c, DoD Passive
2450 MHz 18000, Part 4A (passive)	ISM band, differing power levels and duty cycle	1 - 2 m	High	IEEE 802.11b, Bluetooth, Cordless Tel

	RFID WORKSHOP IDENTII			
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OBAL RFID	UHF SPECTRUM AL	LOCATION		
Country/ Region	UHF RFID Spectrum Allocation	Max. Power Limit (ERP)		
U.S.	902 – 928 MHz	4 W (EIRP)		
Europe	868 – 870 MHz	500 mW		
Australia	918 – 926 MHz	1 W (EIRP)		
New Zealand	864 – 868 MHz	4 W (EIRP)		
Brunei Darussalam	866 – 869 MHz 923 – 925 MHz	500 mW 2 W		
Hong Kong	865 – 868 MHz 920 – 925 MHz	2 W 4 W		
Indonesia	866 – 869 MHz (proposed) 923 – 925 MHz (proposed)	500 mW 2 W		
Korea	908.5 – 914 MHz (proposed)	4 W (EIRP)		
Japan	952 - 954 MHz (proposed, 2005Q1)	4 W (EIRP)		
Malaysia	868.1 MHz 919 – 923 MHz (considering)	50 mW 50 mW		
Singapore	866 - 869 MHz 923 - 925 MHz	500 mW 2 W		

AINIMUM REQUIREMENTS						
Passive Technology		Activ	Active Technology			
How far	3 meters	How far	100 meters			
How fast	10 mph	How fast	35 mph			
How much	256 bits ^{Note}	How much	256 bytes ^{Note}			
How many	500 tags/second	How many	500 tags/minute			
Technology	860-960 MHz ISO 18000-6 UHF Gen 2 EPC Class I, II, III	Technology	433 MHz ISO/IEC 18000-7 EPC Class IV			







