RFID & inflight equipment

- The Take-Off

TTS - Trolley
Tracing System



1996





Route map

- What? Approach used by Airlines
- Why? Benefits, Examples
- Status of pioneering systems
- Bigger Pictures
- Next Airline Approach
- Next Steps











Executive Summary



co-use of

detection points

- RFID Trolley Tracking & Tracing Systems have been launched and operated for a period.
- The pioneering systems are inactive. After this 'hype-curve': take-off for RFID in airlines & equipment.
- Support by actors in the value chain:
 - Lower RFID cost from RFID suppliers.
 - 2. Option: Data-by-the-dollar from "Service Managed RFID".
 - 3. Users that can really integrate AIDC and IT with the business.

Coord-ination.
Standard-ization.

Measure-tomanage. Strong, longlasting KPI's.

Example:



Gen I: 'Semi-active'

- Commodity HF (3 m)

- Smashed!

Gen II: 'RTLS'

- Proprietary 433 MHz (30 m)

- Cost?



Trolley, Contents & Smart Labels





Data matrix



Infrared (IRID)





Vitsab[®] Flight Label

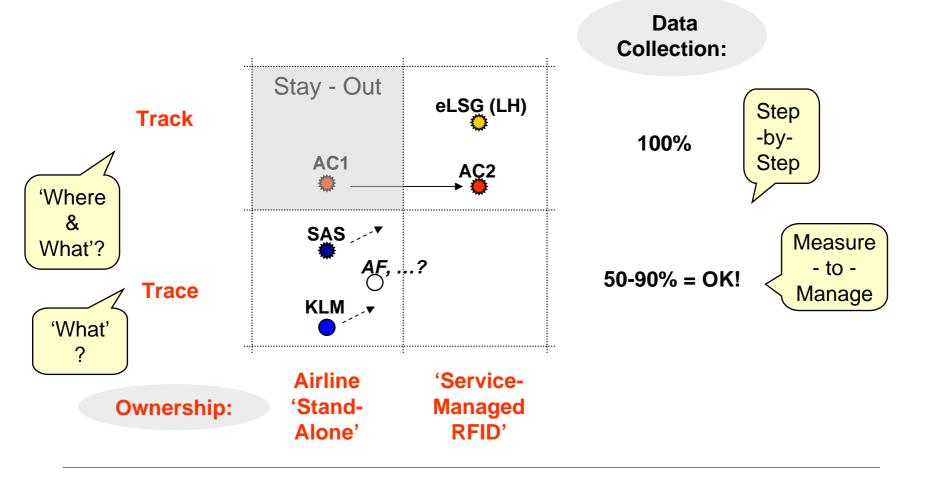
Monitoring meals & cool chain on BA flights

Developed with British Airways

Measure - to -Manage

Ex.:	Smart labels found yellow on board			
LHR	0.43 %			
LGW	1.19 %			

Approach used by Airlines



Track & Trace

+ Content, ...

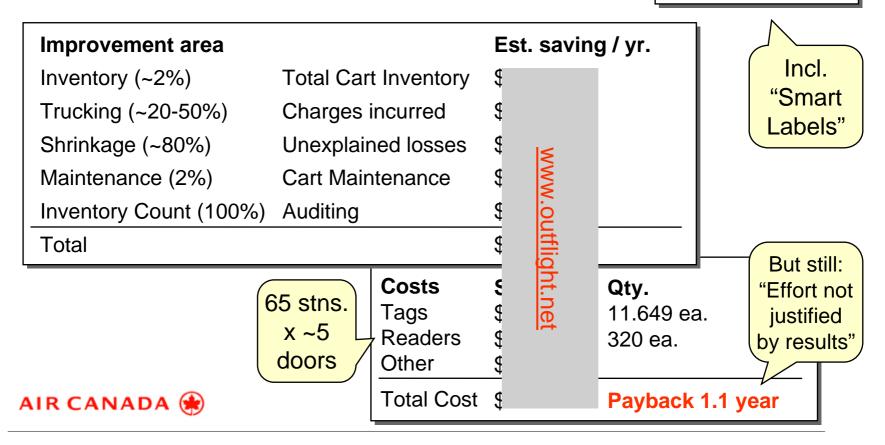


All members

Est. **MUSD \$470 / yr.**

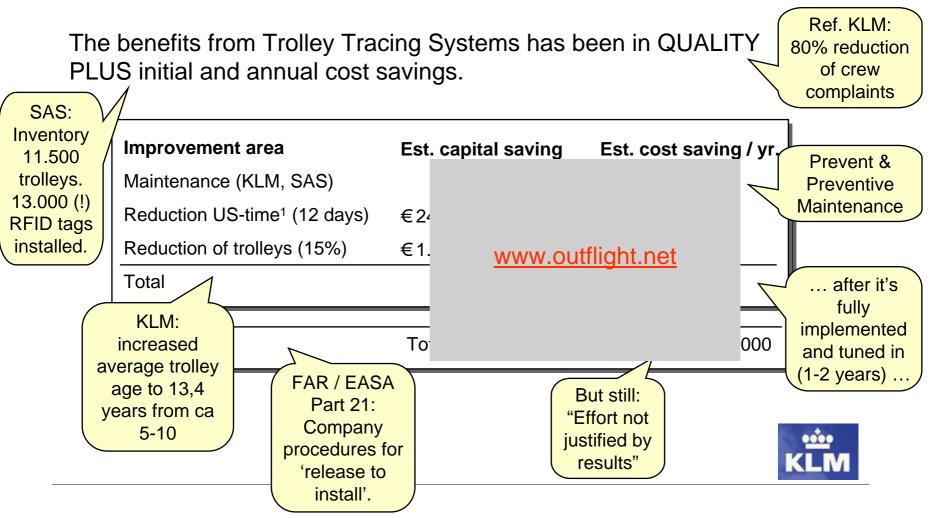
Example: 'ROI'

A conservative forecast:





Example: 'ROI'



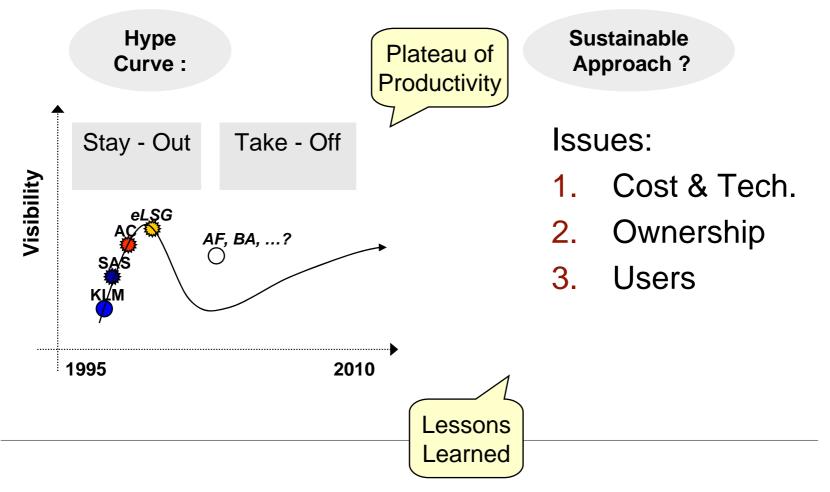
Status Summary

Data by - the - Dollar Pilots: Duty Free, Cool Chain

		KLM	SAS	Air Canada	eLSGSkyChefs (Lufthansa)	(Air France), BA,
Statu	us:	Not operating	'Sleeping'	'Inactive - Detectors offline'	http://solutions.lsgskyc hefs.com	OPEN
Reasons: All sur		Other priorities? Loss of keyperson,	Other priorities. Collapse of inflight (post	Post 9/11. 'Expense not justified by results'	Cost? ROI? "Hidden" agenda? Lack of launching airline.	OPEN
		ffered 9/11	9/11). New catering buildings,			
	proce	sistent' ss gement	I	1	1	ı

Bigger Pictures:

Status & Recommendations:



outflight.net

Investments & Synergies

There will be investment in readers ...



Airlines and Airports:

Case studies: 79

Companies covered: 127

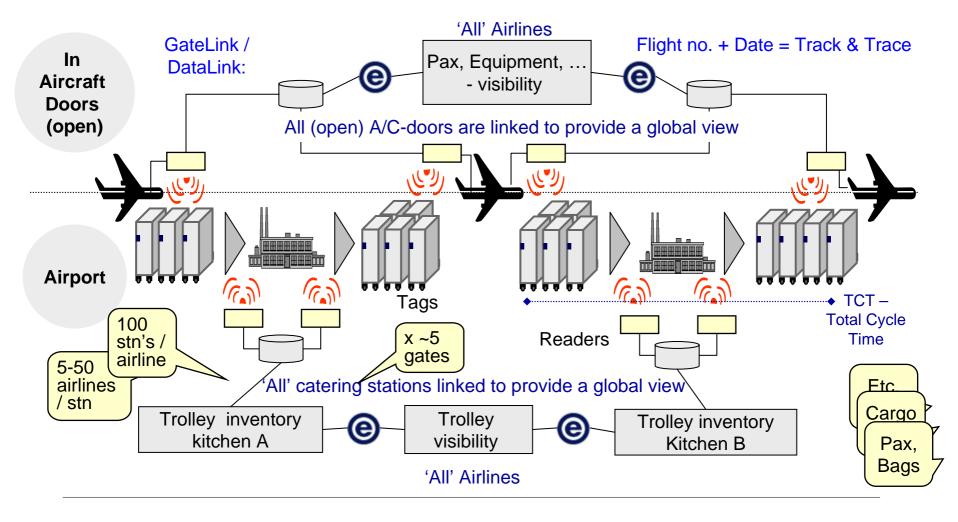
© OCT06 IDTechEx Ltd

... 'Smart Airports', Pax, Bags, Cargo, Spares, Equipment, Life Jackets

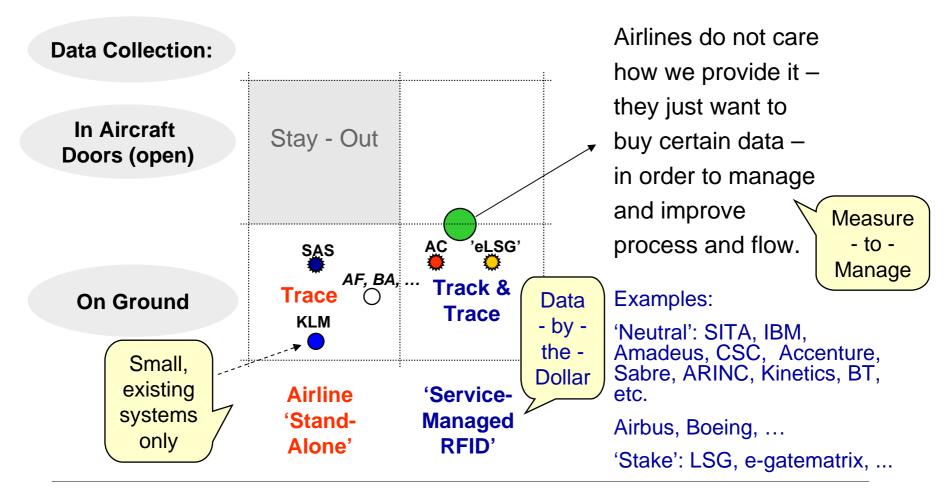
... Airbus - Boeing Global Aviation RFID Forum ... A/C turn-around ...

+ Vision of Data Collection

10 years? 20 years?



= Next Inflight Approach



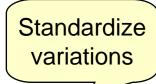
Support the take-off for RFID ...

Sustainable approach:

Lower RFID cost from RFID suppliers.

Option: "Service Managed RFID".

Users that can integrate IT with the business.



Volume



Measure-tomanage. (Outsource). RFID to feed strong, contracted, long-lasting KPI's.



... in the value chain ...

Standards

Chip design

Tags

Readers

Software

Distribution

System integration

Users

Next Steps (JAN07-)

Coordination



Inflight Initiative

Standardization Aerospace & Defence

Trolley

- Track
- Trace
- Content

Match Making

Implementation Plans

Standards

Type Trials

Feasibility Studies

Industry Business Case

Lessons Learned

Step by step

Summit 16-17JAN07 BRU, ...





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... at your service.

Projects
Technology
Procurement

 Don't get sucked in by the technology