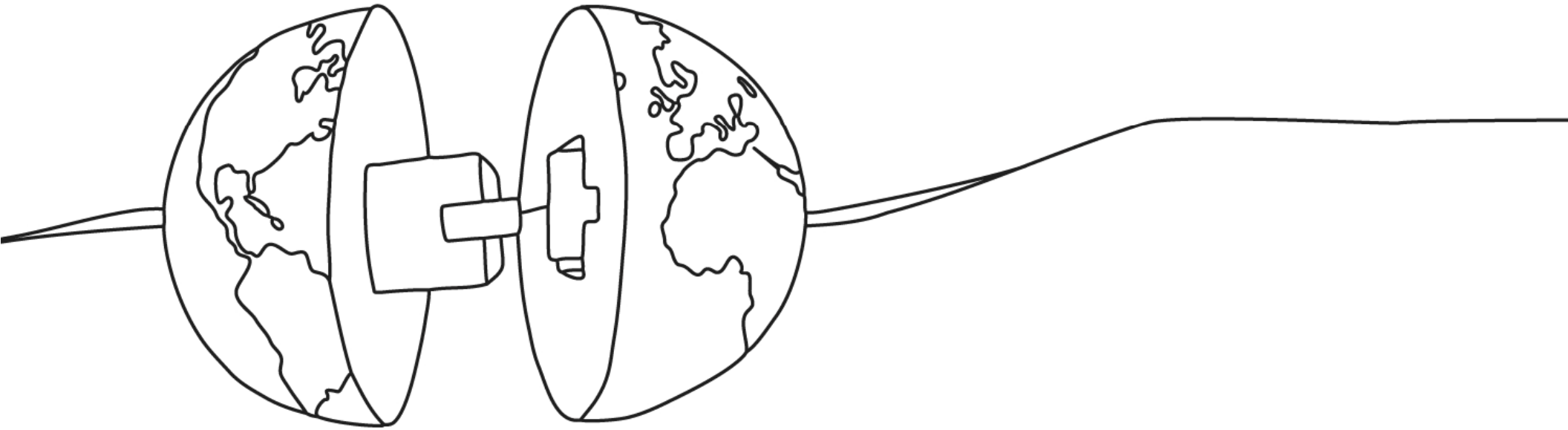


Pilot Auto ID / CAAS Service

A high level overview
Marie Zitkova - Jan Boen
Cambridge, 20 June, 2007

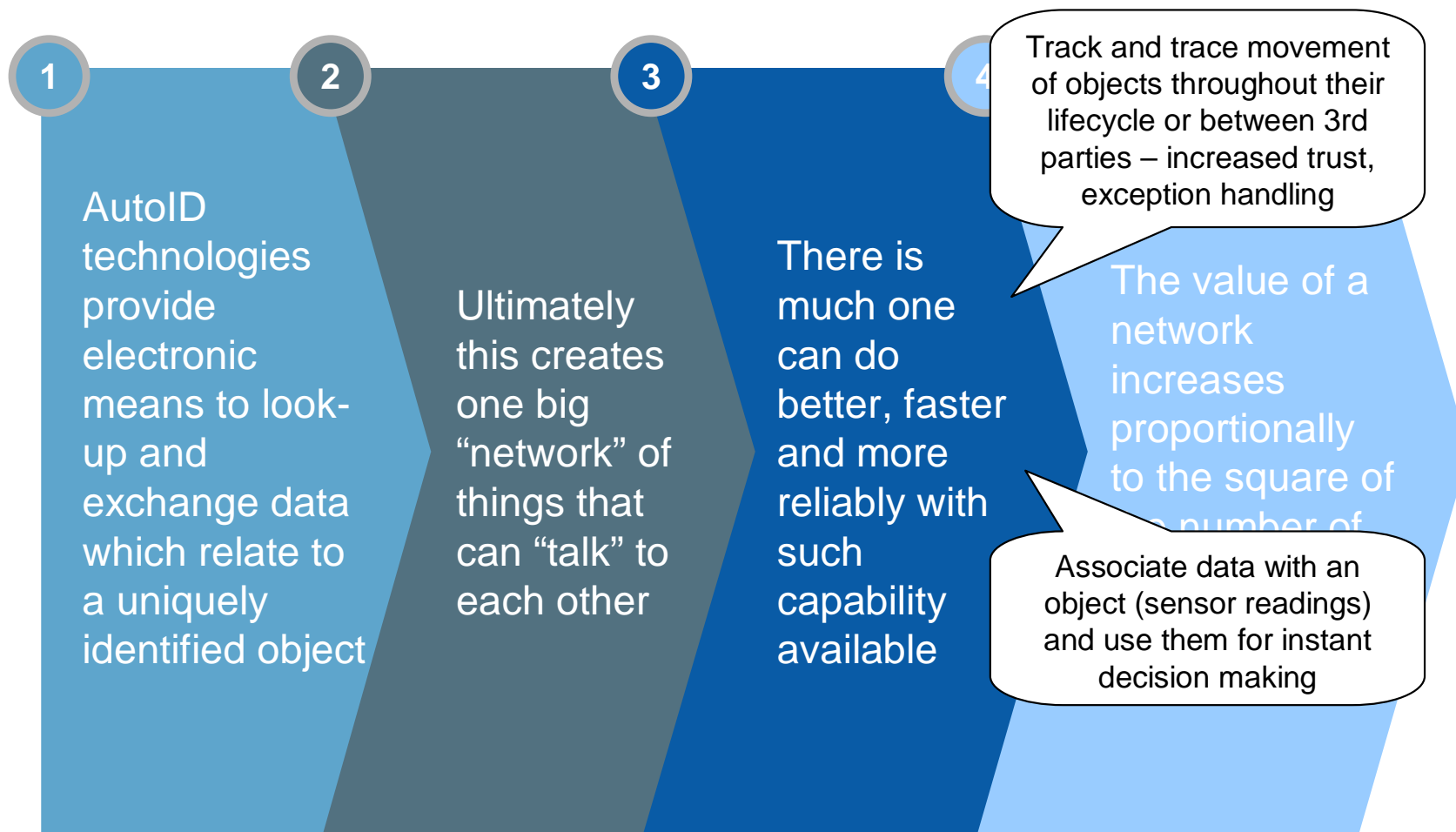


Challenges associated with “Traceability” in the air transport industry

- Enormous and always increasing volumes of transactions / entities to track
 - Take-off & Landings, Passengers, Baggage, Freights, ULDs, etc.
- Real-time tracking of « entities » in motion
 - Vehicles, fleets, baggage, people, etc.
- One of the highest level of accuracy and security is required
 - Safety requirements, Security constraints, Operation efficiency
- Process management & Decision Making involves several different actors
 - Inter-operability of tracing systems and sharing of information.



Can new technology respond to the air transport industry's business needs?

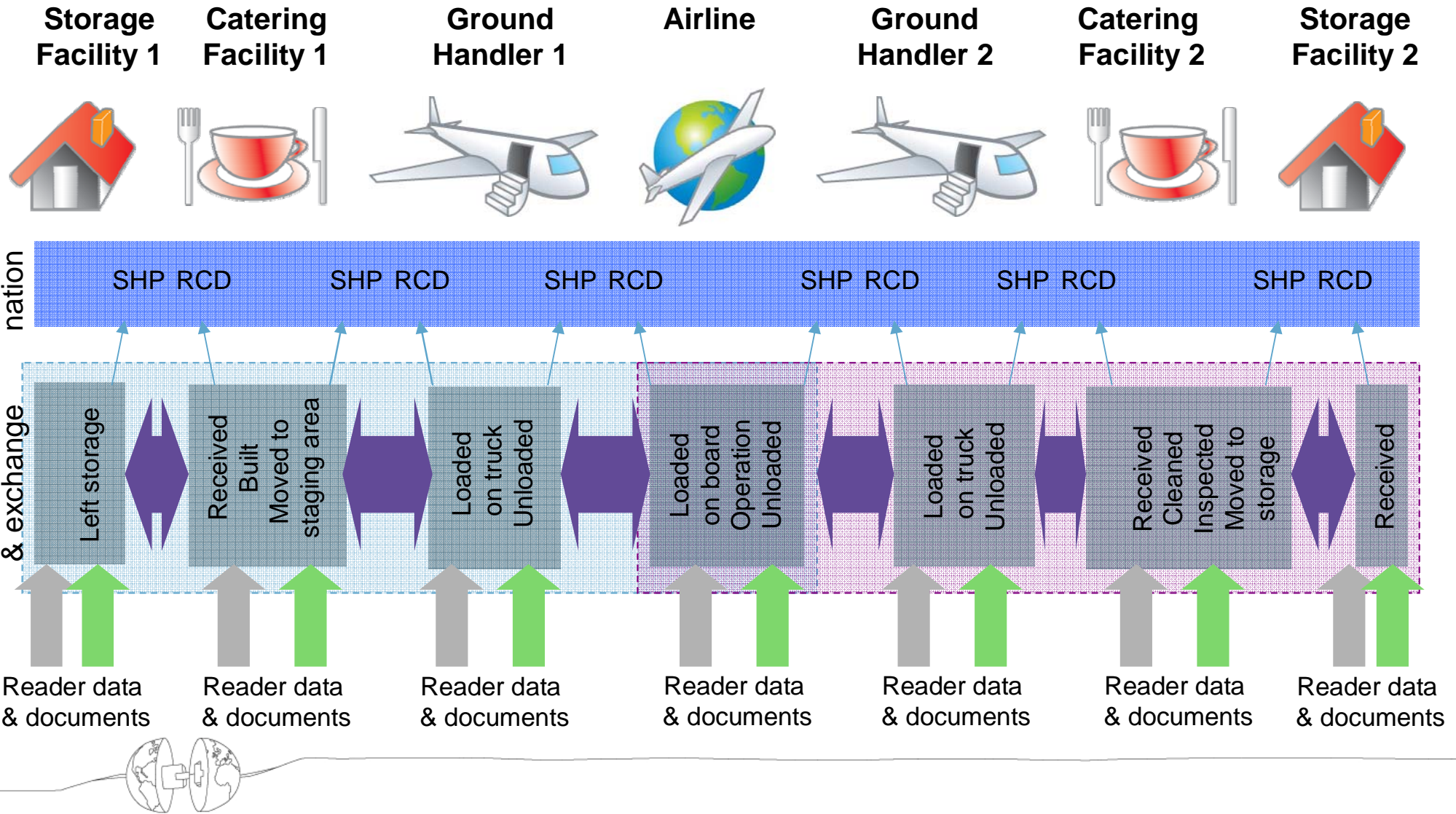


Why does the air transport industry need community Auto ID services ?

- The air transport industry is deeply integrated
 - Most (trial) Auto ID projects are local in nature and lack integration
 - Major benefits from AutoID technologies can only be derived when necessary data is shared between 3rd parties
 - Proof of concept is better and more flexible than a long theoretical study
- We believe that common, shared and standards-based approach will allow ATI to realize major benefits of the new technology**



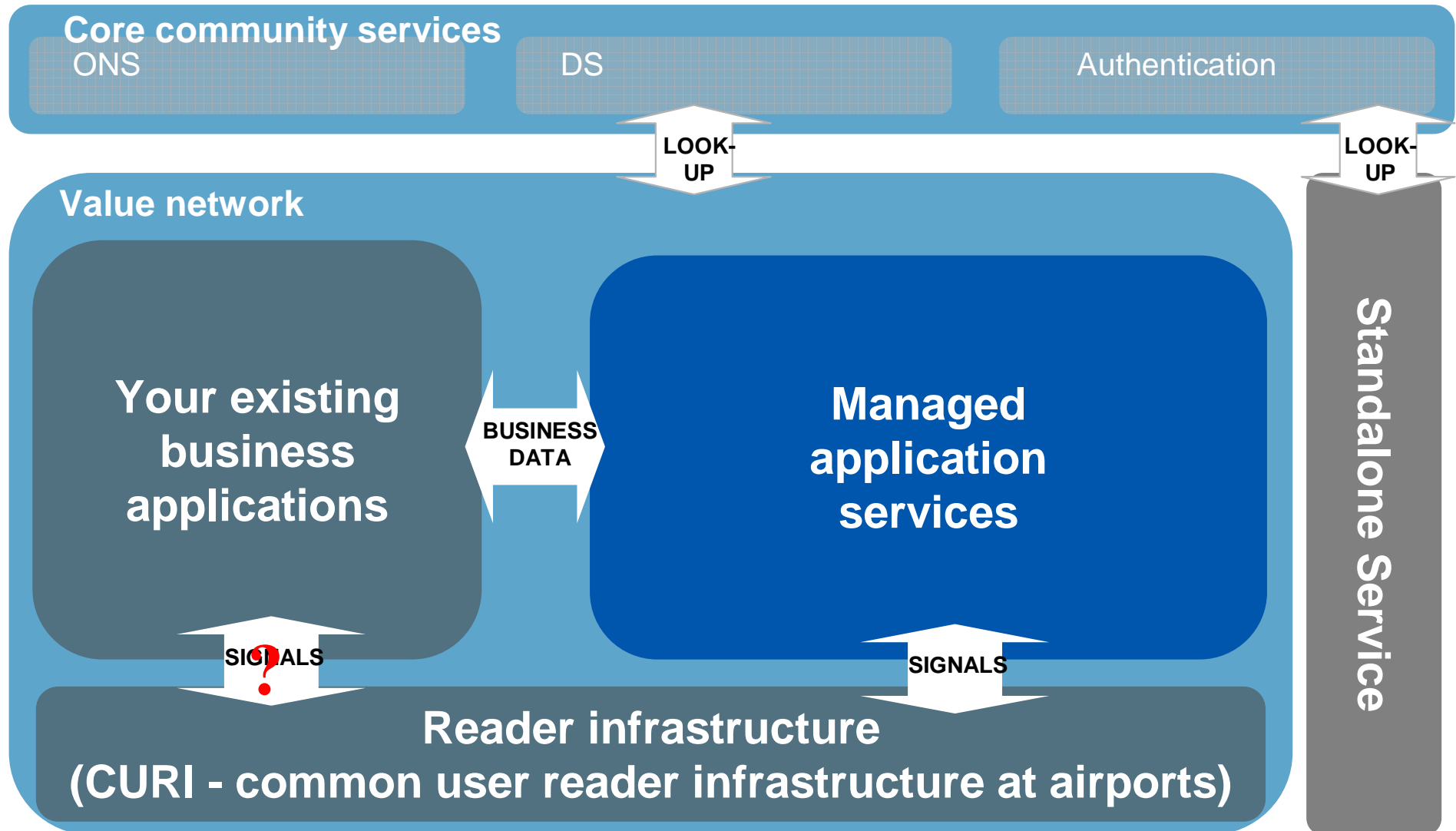
Trolley tracking example



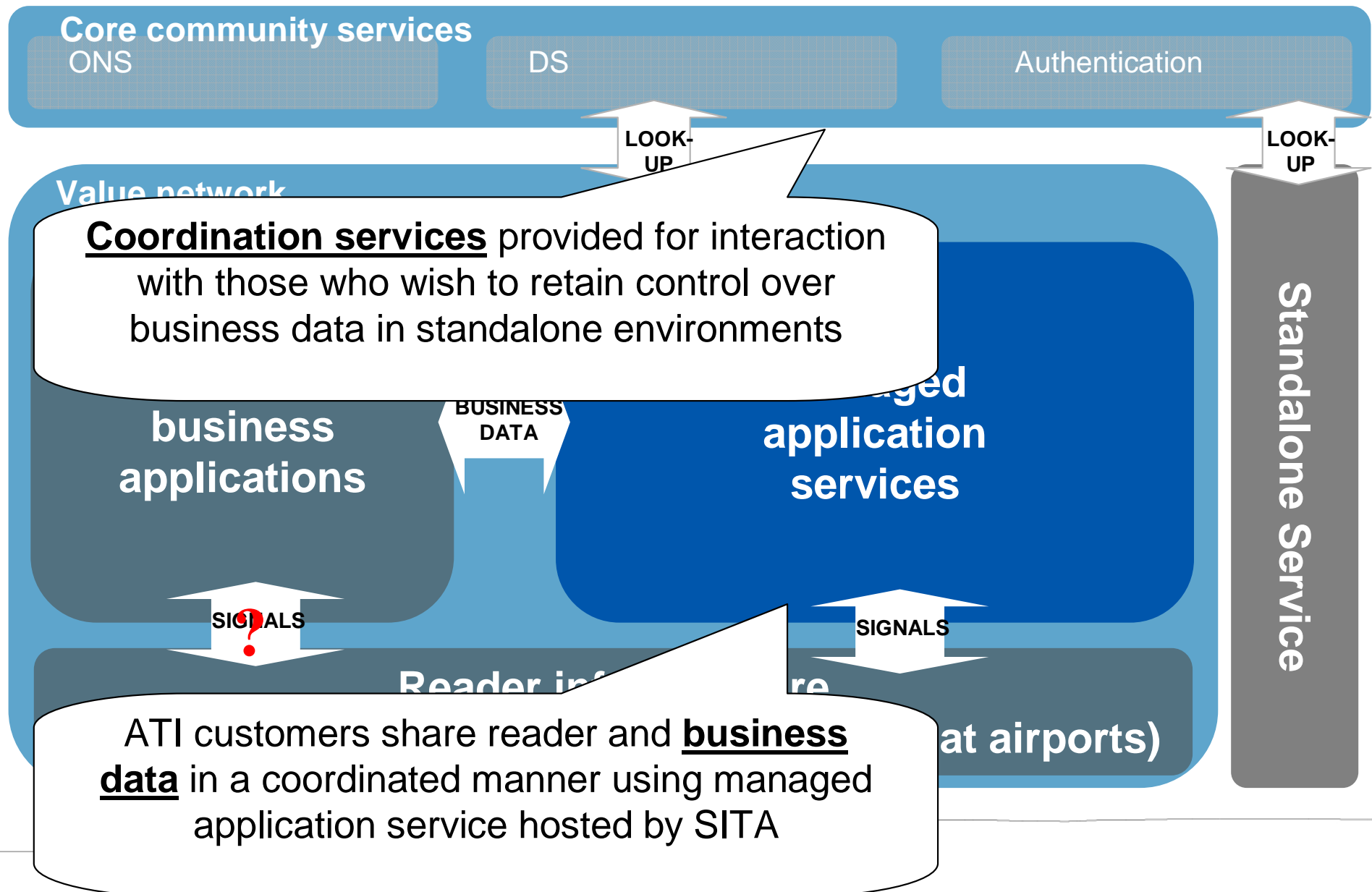
Sharing data & information is the key to improve ATI processes



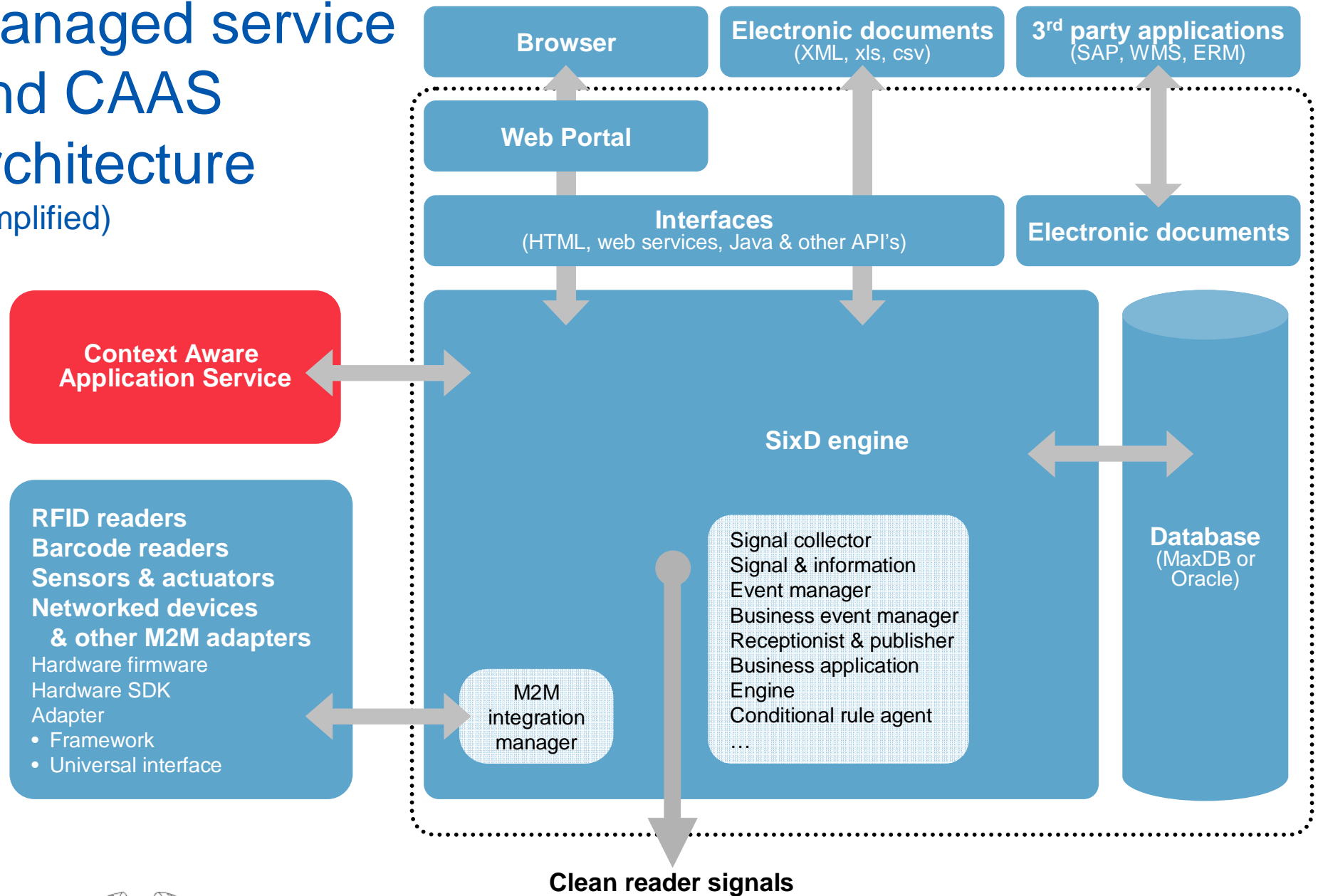
Pilot Auto ID Service - Conceptual architecture



Pilot Auto ID Service - Conceptual architecture

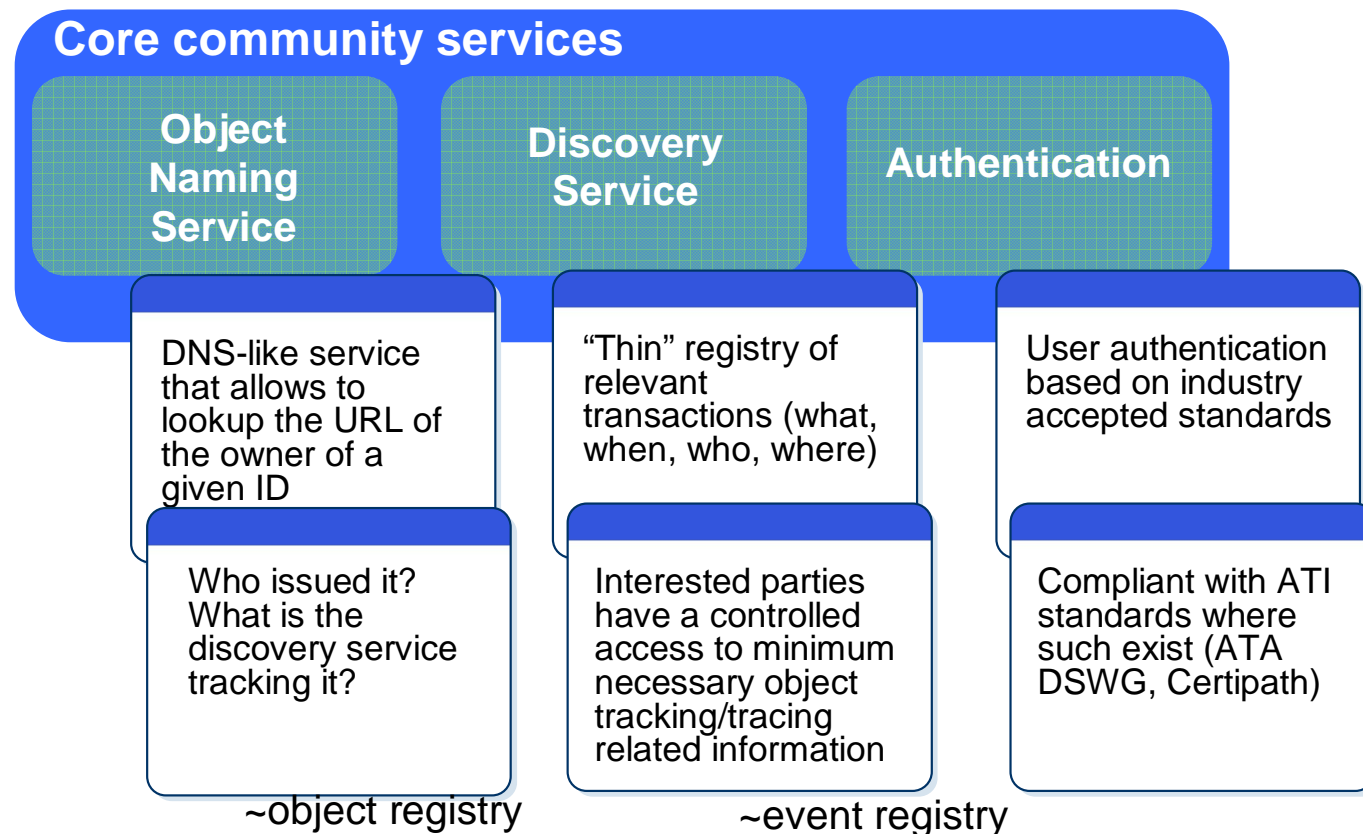


Managed service and CAAS architecture (simplified)



Core community services

- Core services as defined in the EPC Global architecture
- Controlled sharing of minimum necessary object- and transaction-related data

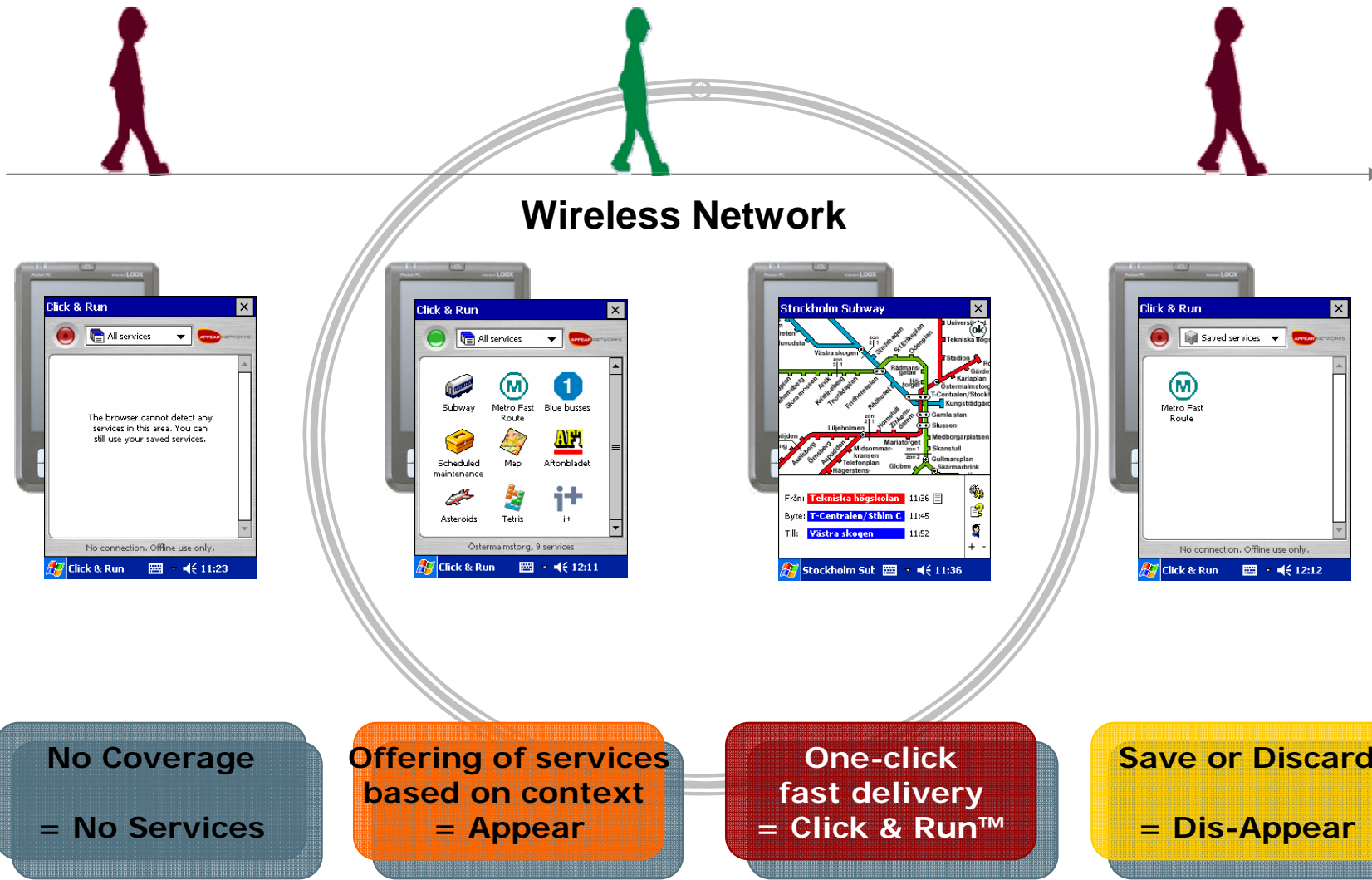


Context Aware Application Services (CAAS)

- Context - The information that describes the situation of a person or entity
- Context categories
 - User profile
 - Location
 - System / network
 - Environment
 - History / time
- Context can be dynamic



Usage scenario for Context Aware provisioning



Pilot Auto ID Service – Technology partners



Managed application service running on SixD application from VIAGENTS



Afilias is operating ONS and Discovery Service on SITA's behalf



Context Aware Application Services (CAAS) running on Appear Context Engine from Appear



Key features

- Managed service designed to warn about irregularities so they can be fixed before they become a major problem
 - Proactive notification when data “out of bounds”
 - No coding, Fast ramp-up by parameter configuration of existing application
- Coordination services separate from business data
 - Track & trace objects across systems used by 3rd parties even outside the SITA managed service
- Leverages SITA applications and knowledge
 - Integration with baggage solutions
 - Integration with e-forms for complete part lifecycle management
- Community based business data sharing using managed service
 - Common reader infrastructure, controlled data sharing
 - Managed by independent trusted user-owned party
- Open, standards-based architecture
 - EPCIS interface for sharing with 3rd parties, support for legacy messaging
- Hi level of security and authentication based on industry standards
- Mobility and context aware support



Why should you pilot the AutoID service?

- Obtain benchmark data to plan for longer term improvements
- Test whether the technology can deliver improvements
- Train your staff to use the new technology
- See for yourselves how easy (or difficult) it is to deploy
- Test new services in partnership
 - Learning costs are shared between trusting parties

→ To evaluate the benefits of AutoID technology at relatively low cost and risk



Track and trace problems recommended for a pilot

- Trolleys between locations
- ULDs between locations
- Other assets on site or between locations
- Baggage as it moves between locations
- Spare parts as they move through supply chain

**→ The process choice is yours whether or not listed above.
SITA will provide baseline business rules for the
AutID application for the above processes**



Sharing of pilot workload and costs

- Use of the Auto ID pilot infrastructure is free of charge
 - Object naming service
 - Discovery service
 - Digital certificates
 - AutoID application with baseline business rules
- CAAS cost sharing
 - Service = free
 - Proxy to be paid

→ These conditions valid until end 2007



Sharing of pilot workload and costs (2)

- Your responsibility
 - Installation and operation of physical RFID infrastructure (readers, printers)
 - Choice and documentation of business rules for pilot configuration
 - Provision of baseline data for performance measurement

→ SITA's AutolD pilot conditions are valid until end 2007



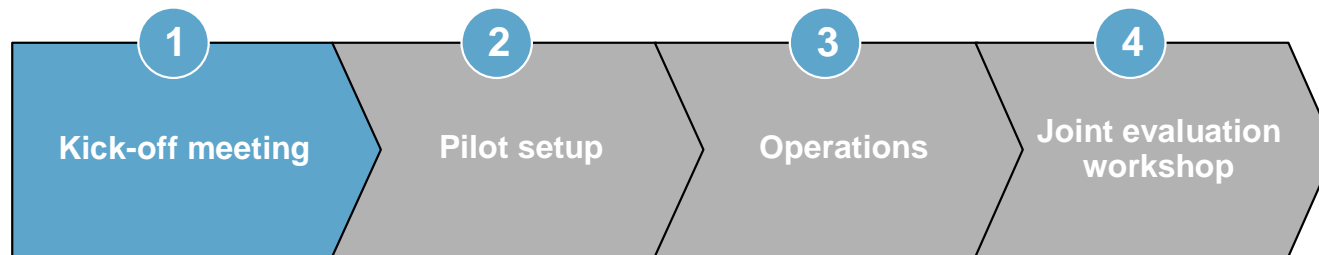
Sharing of pilot workload and costs (3)

- Specific services subject to professional services fee
 - Bespoke setup part of the pilot infrastructure
 - Integration of reader infrastructure with AutoID application (if not on the list of compatible devices)
 - Configuration of AutoID application to accommodate specific business rules
 - Any other services required (i.e. support with elements under “your responsibility”)

→ SITA’s AutoID pilot conditions are valid until end 2007



Sample project plan



- ✓ **Typical set-up = 2 to 4 weeks only**
- ✓ **No code writing**
- ✓ **Typical pilot lasts 2-3 months**



About SITA, more information



SITA: Who we are



We are a community of over 600 airline, airport, aerospace, cargo and GDS members and over 1800 customers



We are unique in delivering integrated communication and IT solutions, on a global basis, for the air transport industry. We do this through a single supplier relationship



We are local, globally, with a presence in 220 countries and territories

- Over 3,000 staff worldwide
- 140 nationalities, speaking over 70 languages

→ We are the world's leading provider of IT business solutions and communication services for the air transport industry



Our impact on the community and industry



Community systems

.aero, Aviareto, Worldtracer, Type B, BagMessage, Cargo Community System



Shared infrastructures

Airport Hubs, AirportConnect, CUTE, CUSS, SITA Voice Exchange



Industry standards

ADS B, Aerospace ID, SPEC2000, Type X

→ **We continue to lead the way in providing innovative solutions and community systems that change the way the industry works**



Want to know/discuss more?



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Collaborative web site for Pilot Auto ID project

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