



RFID-Event – 30.9.2011 POS@GBT-Nord Erstfeld

mit
Securiton, Transtec, Alcatel-Lucent

David C. Gürlet, RFIDnet Bern GmbH
Swiss RFID Competence Network

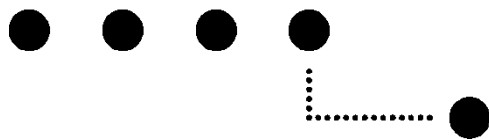
Agenda 30. September 2011 13h – 17h

- 13h00 – 13h05 Begrüssung – David C. Gürlet, RFIDnet Bern GmbH
- 13h05 – 13h10 Begrüssung – Roman Hellbach, Securiton AG
- 13h10 – 13h20 Vorstellung GBT-Bau, Bahntechnik LP20 - A. Faccanoni, Transtec
- 13h20 – 13h30 Alcatel-Lucent als GU - Sandro Furnari Alcatel-Lucent Schweiz AG
- 13h30 – 13h50 Vorstellung Lösung Personenortung & Zuko – JP. Roulin Securiton
- 13h50 – 14h00 Erfahrung mit dem System
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- 14h00 – 14h30 Besichtigung IP Leitstelle und Zutrittspunkt
- 14h30 – 16h00 Besichtigung Tunnel/Portal Nord (inkl. Verschiebung per Bus)
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RFIDnet Bern GmbH

Swiss RFID Competence Network

powered by



Berner Fachhochschule
Technik und Informatik



tcbe.ch
ICT Cluster Bern, Switzerland

RFIDnet Portfolio



RFIDnet Consulting

- Swiss Entrypoint for RFID-Questions (Tel.111 for RFID)
- Neutral Consulting for all RFID-Markets & Applications
- Global Market Analyses for RFID-Products & Partners
- Neutral 2nd Opinion Analysis & Mediations
- Elaborating of System Requirement Specs. (SRS)
- RFID Feasibility Studies & Proof-of-Concepts
- RFID Business Checks
 - when is your RFID-Business profitable, if ever?

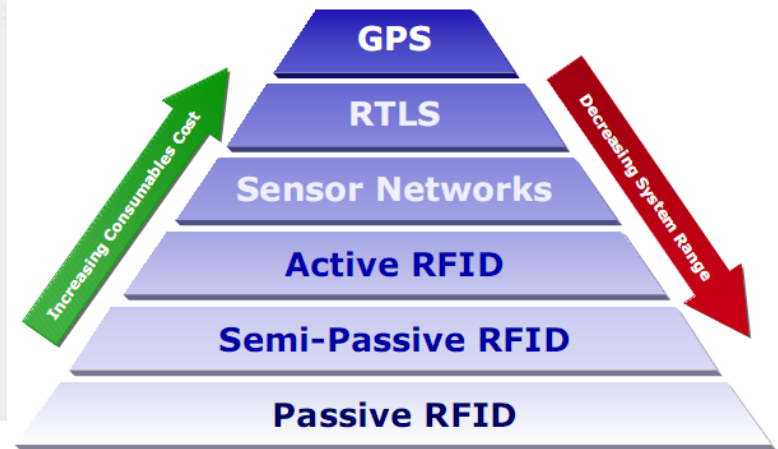
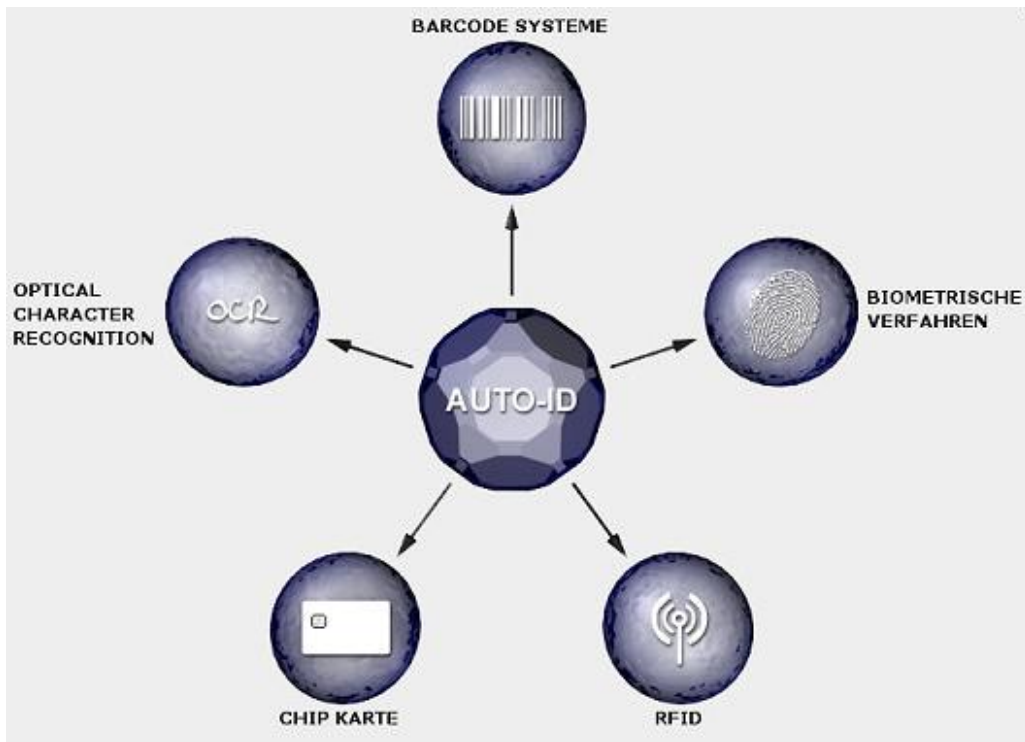
RFIDnet Memberships / Links / Partners

- Berner Fachhochschule TI www.ti.bfh.ch
- ICT Cluster www.tcbe.ch
- Assoc. Member of Race Europe <http://www.race-networkrfid.eu/>
- Member of SwissTnet RFID-Sektion 51 www.swissT.net
- Member of GS1 Schweiz www.gs1.ch
- Member of CNRFID / France <http://www.centrenational-rfid.com/>
- Member of Consulting Cluster <http://www.wbcb.ch>
- Links to other international RFID-Organisations (Fraunhofer, EU-Research, AIM Global, etc.)

RFID is : Identification & Positioning

Identification &

Localisation
(Positioning
& Sensoring)



*) missing:

- a. DNA
- b. Hand Vene Image

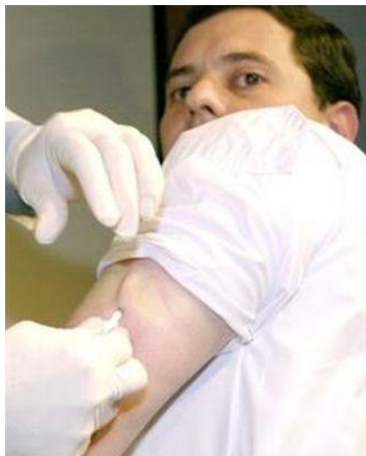
*) Positioning

- a. Indoor RTLS
- b. Outdoor GPS/Galileo/Glonas

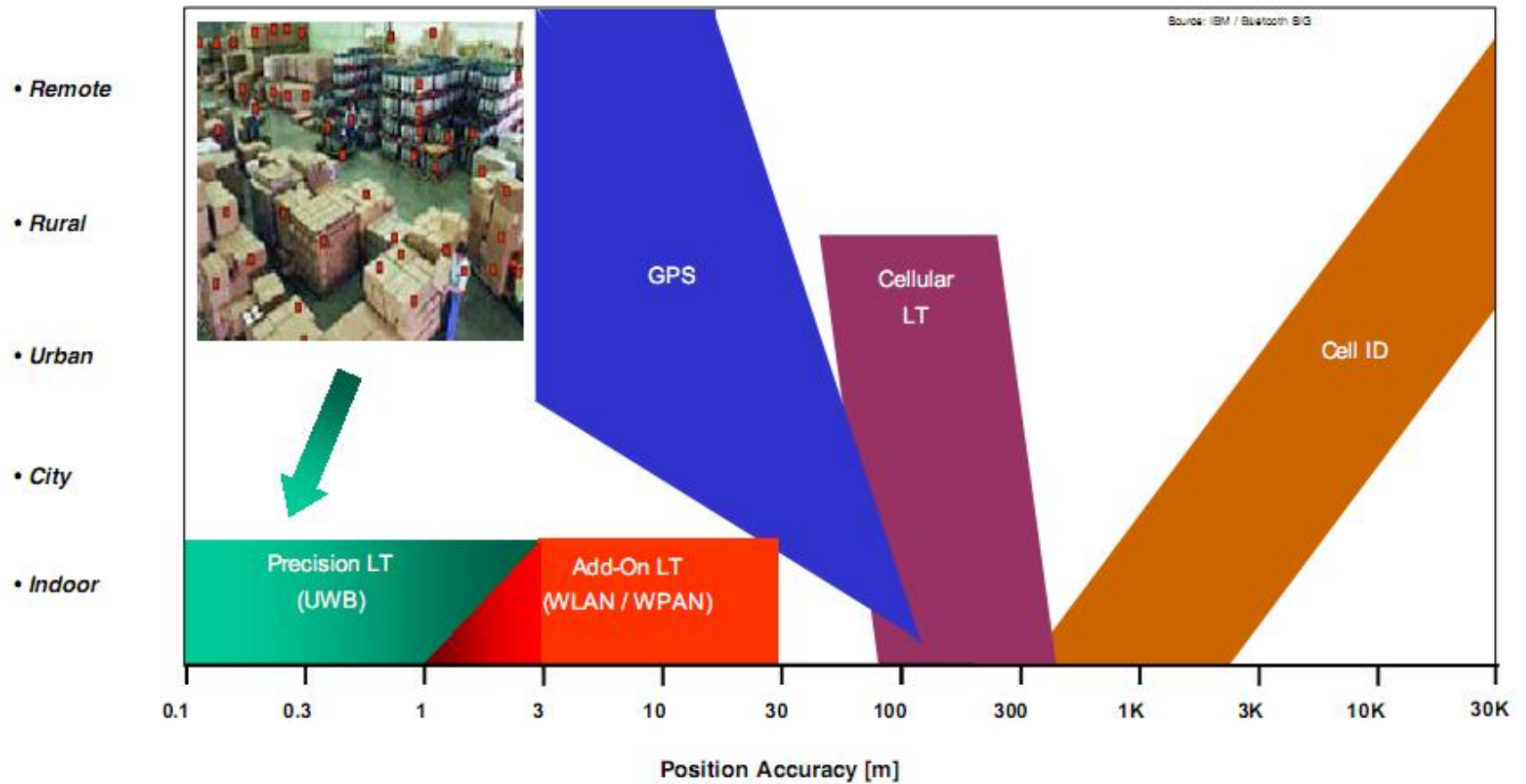
RFID is NOT :

« RFID is that 2-cents small spy-chip that we can't see, that holds 1'000 encyclopedias of data and that can be tracked by satellite with a precision of a few mm»

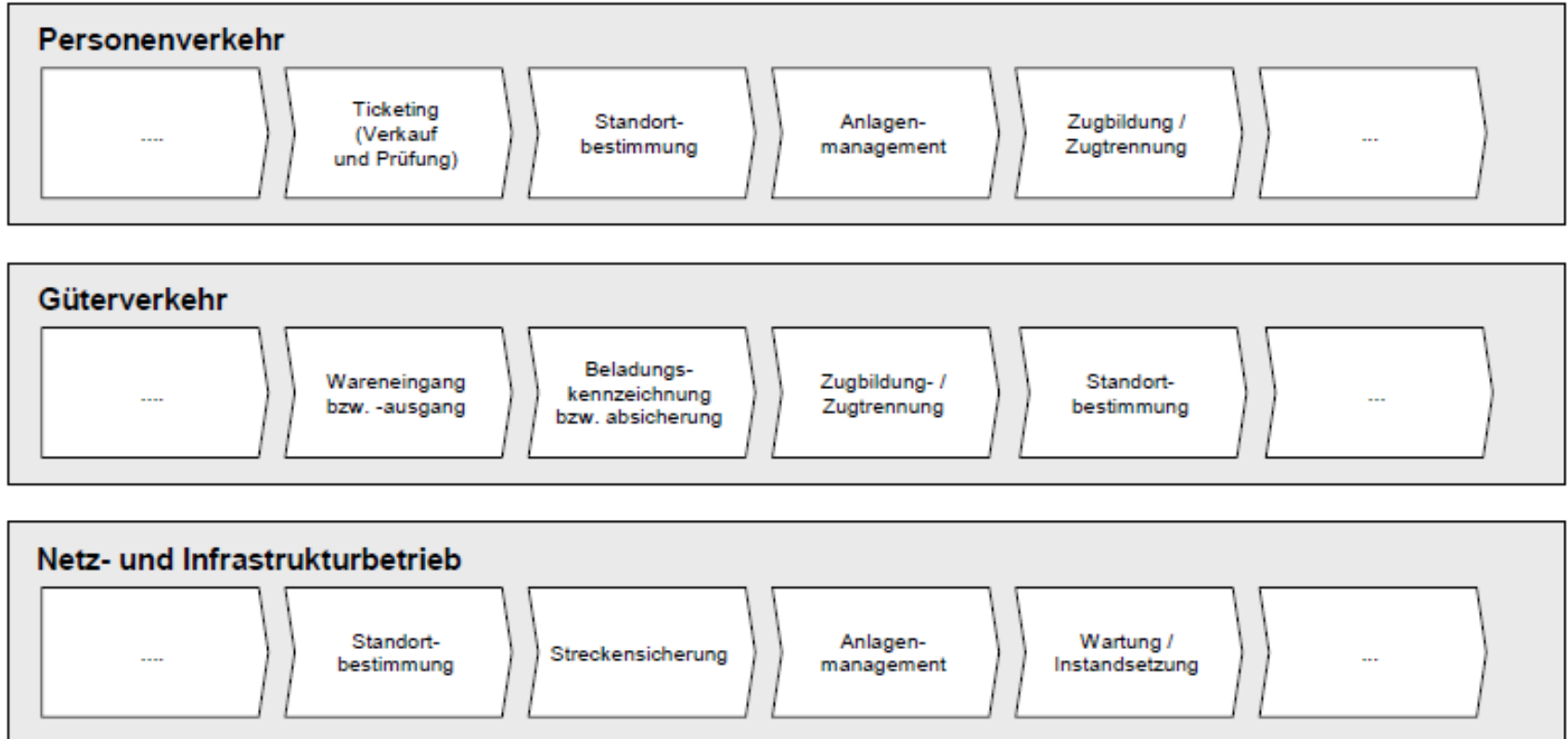
(Citation from customer discussion)



Accuracy of Localisation (in- & outdoor)



RFID-Projects @ Railways



DB Telematik, Thorsten Anding

Swiss RFID-Projects @ Railways

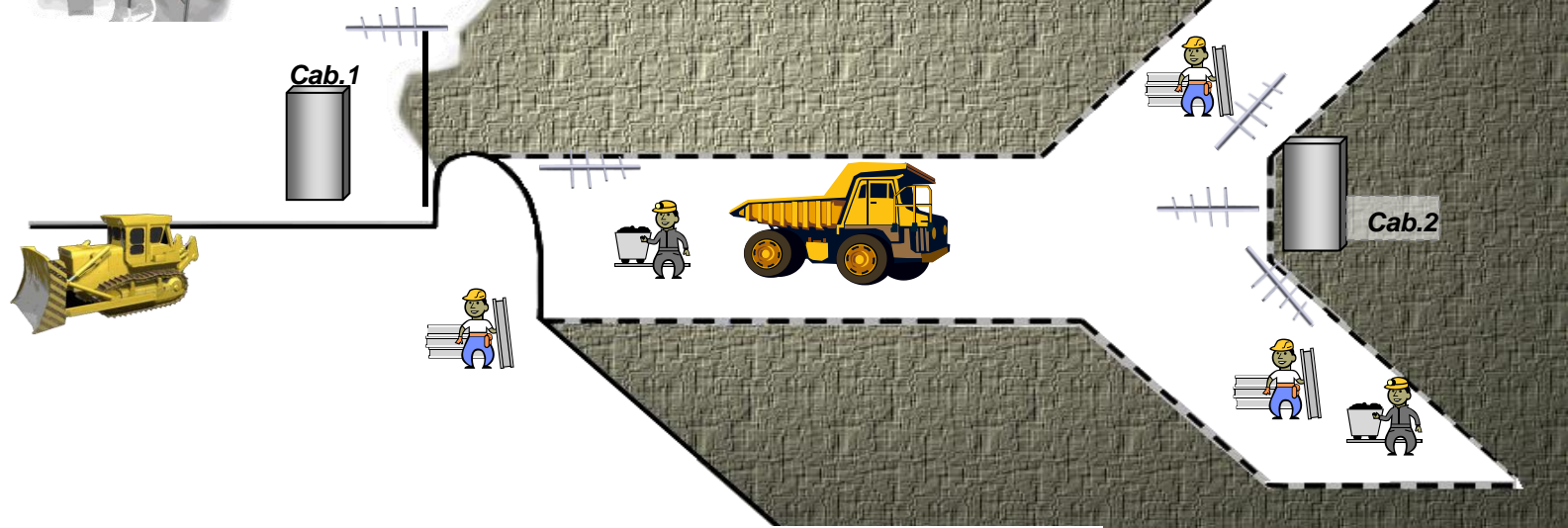
1. EasyRide (2000) – Electronic Ticketing (Pilot, no Rollout)
2. SBB – Automatic Wheel ID & Control (Pilot)
3. SBB Cargo – Automatic Vehicle Identification (operational)
4. SBB – Automat. Vehicle Identification with GPS/GSM-R (Pilot 2011)
5. SBB – ETHIK – New active RFID e-Ticketing for GA & 1/2Tax (Pilot 2012)
6. SBB ModulaRe – MRO for Spareparts (Pilot 2011)
7. RhB – Wagon Identification (operational)
8. WAB – Wagon Identification & Ticket-Income splitting (operational)
9. GBT & LBT – Personen-Ortungs-Systeme
 1. GBT : Securiton
 2. LBT: Becker-Mining

Workplace Safety (Tunnel / Mine)

WATCHER SERIES



		
Outside:	1	1
Main:	1	1
Lower:	2	0
Upper 1:	1	0
Upper 2:	1	0
Total inside:	5	1



The operator in the control room will have full graphical visibility of the whereabouts of the different tags

Workplace Safety (Tunnel – LBT)

CATS - Centralised Asset Tracking System (Connected: User SYSTEM Organisation MINE)

Environment Real Time Historical Administration Accounting Performance Configuration Utilities Refresh ≤ ≥ Close

Map Viewer

Current Map: **LOTSCHBERG-DETAIL**

Tunnel - Detail

LOTSCHBERG-ZONES

North East, Central, South East, North West, South West, ZLS, Surface, Modem Surface, Main Access 160m, Main Access Surface, Main Access Outside

UNDERGROUND 131 SURFACE 408

Reader: Main Access Outside Pause Refresh Interval: 2

TAG ID	DB DATE TIME	READER DATE TIME	DESCRIPTION	DESC 2	DESC 3
00200656	17/09/2002 15:59:22	17/09/2002 15:59:20	SOUS-TRAITANT 11.3		
00004AAB	17/09/2002 17:16:02	17/09/2002 17:15:59	JASHARAJ XHAFER		
0020058D	17/09/2002 17:16:02	17/09/2002 17:09:35	SOUS-TRAITANT 4.5		
00004AD1	17/09/2002 17:16:02	17/09/2002 17:09:39	HUTTER RUDOLF		
00004A9F	17/09/2002 17:16:02	17/09/2002 17:10:01	FIEL		
0020061C	17/09/2002 17:16:02	17/09/2002 17:10:13	SOUS-TRAITANT 8.4		
00004B2D	17/09/2002 17:16:02	17/09/2002 17:12:12	CLAISSE JEAN CLAUDE		

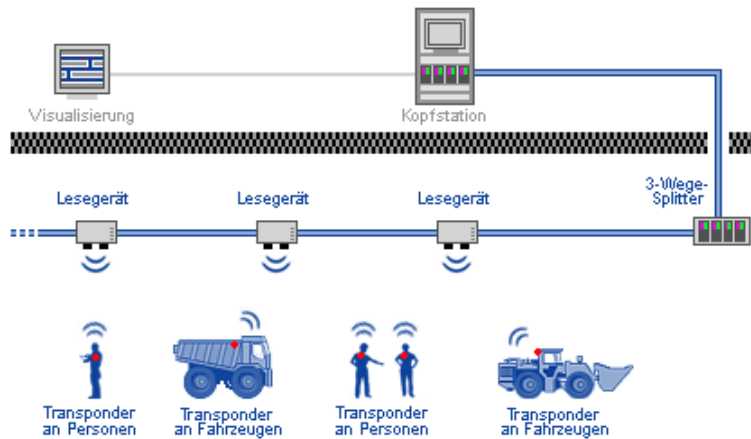
Image Of <- Last Known State Of <-

DESCRIPTION

Normal

Becker Mining – RTLS Solution for Mining & Tunnels (atex)

Workplace Safety (Tunnel & Oil Platforms)



Tags on Persons & Objects
Most critical accident = Collision Person-Truck
Important : Anti-Collision-Warning !



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Contact

RFIDnet GmbH

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Gotthard-Basistunnel

Teilabschnitt Erstfeld, Stand der Arbeiten 1. September 2011



■ Vortrieb und Ausbau abgeschlossen
■ Einbau Bahntechnik im Gang

