Infineon

Health Care Cards

A part of worldwide trend towards secure, chip based identification

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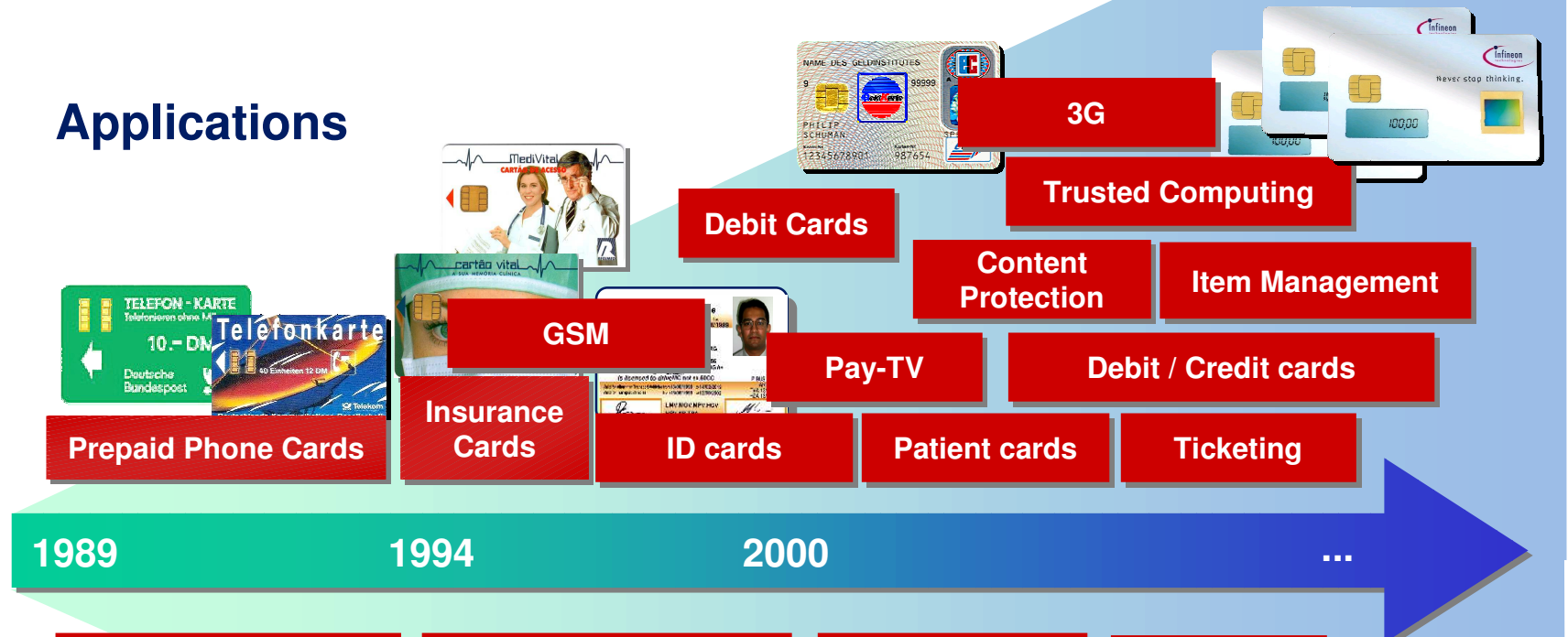
Mail: Rainer.Bergmann@Infineon.com

Infineon technologies

N e v e r   s t o p   t h i n k i n g .

High Volume Markets for Mature Technologies
Emerging Markets for New Technologies

Applications

3G

Trusted Computing

Debit Cards

Content Protection

Item Management

GSM

Pay-TV

Debit / Credit cards

Prepaid Phone Cards

Insurance Cards

ID cards

Patient cards

Ticketing

1989   **1994**   **2000**   **...**

Secure Memory Card

Contactless Chip Cards

USB Tokens

Biometrics

Secure Controller Cards

Contactless Tags

Trusted Platform Modules

Technologies

Government eID card applications, formats and data

National eID card (NeID)

eDriving Licence

Ministry eID card

Application	• National ID (population) and/or immigration • International travel documents • Healthcare • Driving licences & permits • Social security • Ministry access • Welfare & pension

Product	• **ID 1** travel documents (TD1)
	  - Format 54.0 mm x 85.6 mm
	  - Thickness 0.25 mm to 1.25 mm
	• **ID 2**
	  - Format 74.0 mm x 105.0 mm
	  - Thickness 0.25 mm to 1.25 mm
	• **ID 3** (booklet)
	  - Passport
	
	       - Standard: ISO / IEC 7810 -

Data	• **Standard**: nationality, surname, first name, date and place of birth, sex, serial number, national number, passport picture, address etc. • **Future** trends: digital signature, biometric reference templates of certain anatomical features, current status and others.

Main requirements for eID cards

Efficiency in processes

Standards: Personal validation of documents and identification of holder.

Trend: - automatic border control (ABC)
- electronic access
- electronic delivery of services

Fraud protection

Standards: secure print features like - rainbow print with guilloches, OVDs, micro text, UV print, luminescent ink ghost image, laser engraving

Trend: secure electronic features like - microcontroller with encrypted communication and memory management (DES, 3-DES, RSA)

Validity of documents

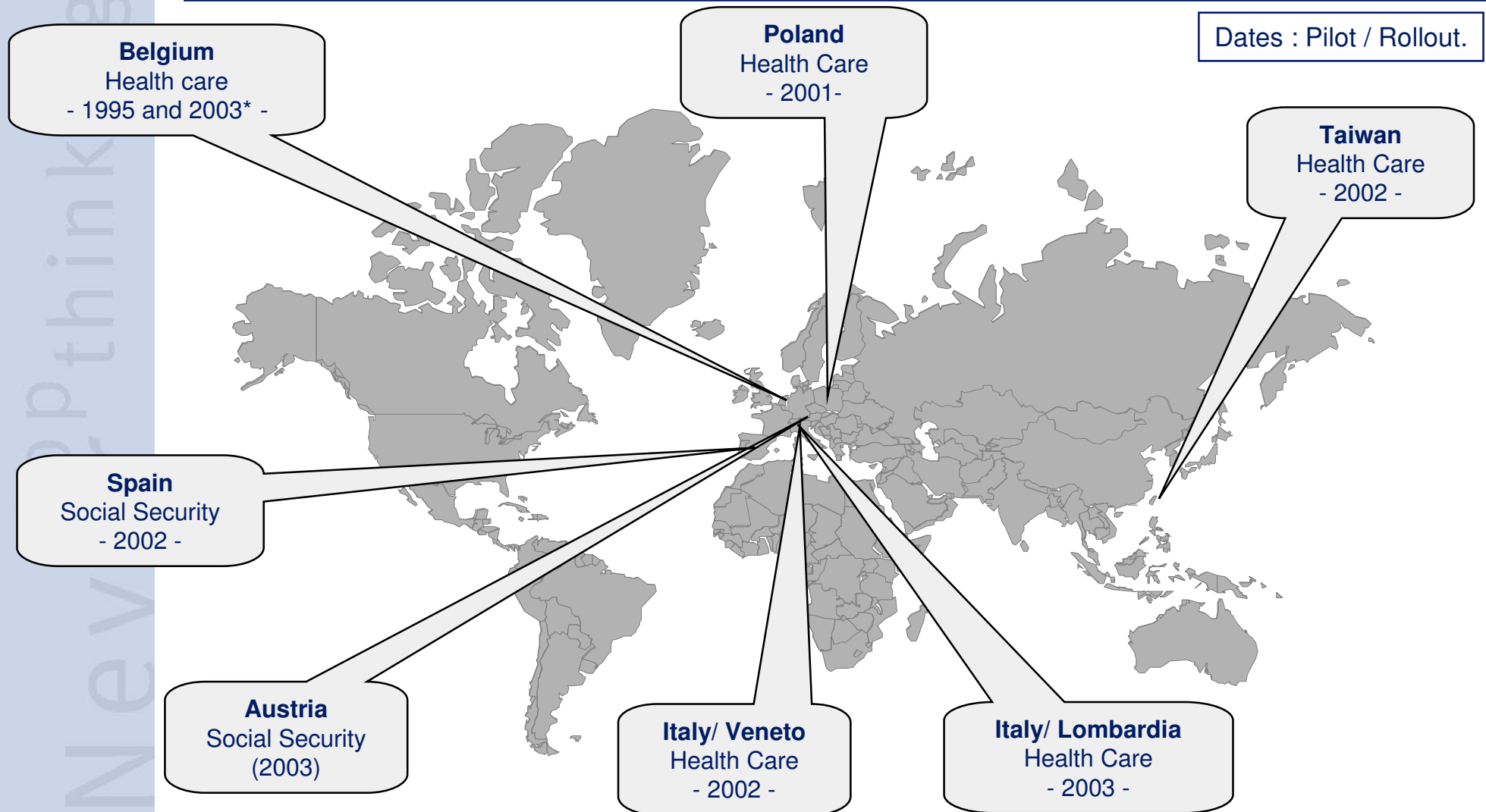**Standards:** Machine readable passport characters (MRP's, MRV's) and check with population register offline/online.

Trend: Electronicly readable chip data and automatic check document authenticity

ID verification

Standard: visual portrait, mainly offline

Trend: electronic 1:1 and 1:many identity matching; both online & offline using features like biometrics

Government-driven eID card projects with Infineon products
# Health Care / Social Security

Belgium
Health care
- 1995 and 2003* -

Poland
Health Care
- 2001-

Dates : Pilot / Rollout.

Taiwan
Health Care
- 2002 -

Spain
Social Security
- 2002 -

Austria
Social Security
(2003)

Italy/ Veneto
Health Care
- 2002 -

Italy/ Lombardia
Health Care
- 2003 -

* Decision about winning team: 10.03

Conclusion

Evolution of ID projects
It's taking off - now.

Requirements and Solutions:
Technology is ready.
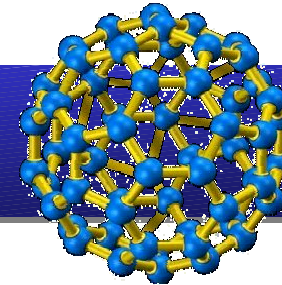
Future Trends:
ID Projects are even pushing new applications.