

## **Data security**

- Internal Activities in Siemens**
- Siemens Contribution to an EU Project**

Dr. Peter Mertens  
Head of Corporate Technology  
Siemens KK, Tokyo

[Peter.mertens@siemens.com](mailto:Peter.mertens@siemens.com)

## Introduction of the Author

**Dr. Peter Mertens**

**Head of Corporate Technology, Siemens KK Tokyo**

18 years of industrial experience

Experience in the Siemens Networks, Trains and Fossil Power Plant businesses as well as in Corporate Research and Technology

Experience working in Germany, the USA, and Japan



Areas of Expertise include SW engineering, project management, product management, and management of technology

Current focus is on managing R&D cooperations with partners in Japan

Academic credentials:

PhD in Physics (1991)

Publications in theoretical physics, system engineering methods, requirements engineering, management of technology, and demographic change

Specially assigned professor, SIMOT, Tokyo Institute of Technology (2007-2009)

# Data security and safety is a necessity and can be turned into a benefit for customers and the company

## Laws and regulations

- Personal data
- Accounting data
- Safety relevant data
- ...

## Own interest

- Vital business data
- Personal data
- Innovation related data
- Compliance

## Customers' interest

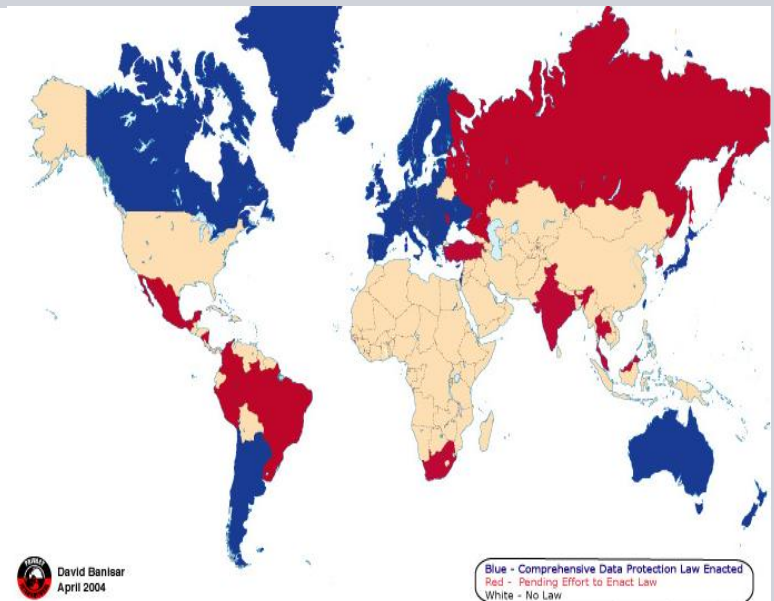
- Customers' data
- Personal data handled by customer
- Reliable service
- Public, Energy, and Health Care customers

## Different countries have different regulations

- International regulation preferred
- In an international project, strictest rules have to be implemented

## Capabilities in international data security is a competitive advantage

- International institutions in own company
- Ability to deliver solutions to international customers





# Example: EU research project Health-e-Child

## Data security enables unique health care benefits



### A knowledge platform of pediatric cases

- Diagnostic, treatment-related, and biomedical
- Imaging, genetic, clinical, and epidemiological biomedical data
- Organ and disease models, decision and reasoning support

### Organization

- Coordinator: Siemens AG
- 8 countries (Germany, Italy, UK, France, Switzerland, Spain, Greece, Estonia)
- 14 members (European companies, hospitals, universities, research centers)

### Data Security Issues (Examples)

- Implement strictest rules among participants
- Patient anonymity has to be guaranteed for at least 100 years – longer for genetic data
- Have to prepare for future attack capabilities (e.g. quantum computers)

