

Introduction to the case study

Introduction to Information Security Management

Introduction

Basic Definitions

Information Security Management:
Trends in Industry and Research

Flops in IT

Technology Development Process:

Definitions

Definitions, Properties and Values of Security

- Security = CIA: inn networks also Non-Repudiation: nR
- Authentication Authorization, Accounting Triple “A”
- Traceability (Accountability), Compliance, Identification:
Sketch on identity theft

Dimensions:

- Legal, Organisational, Human (including usability), Technological
- Management: Managers (categories) and Communities p. 3
- Organization (hierarchy, decision makers, roles of technicians/engineers
- Information (yesterday, today, tomorrow), what, history, projection into future
- Security vs. security feeling ... : What to do for bridging the gap
- Acting: Machine vs. Human: an emergent concerne



About Management

Roles of Managers (Informational, Interpersonal, Decisional)

Leaders (Leadership) and Managers: what is the difference?

Types of Leaders (autocratic, democratic, laissez-faire): adapting, combinations?

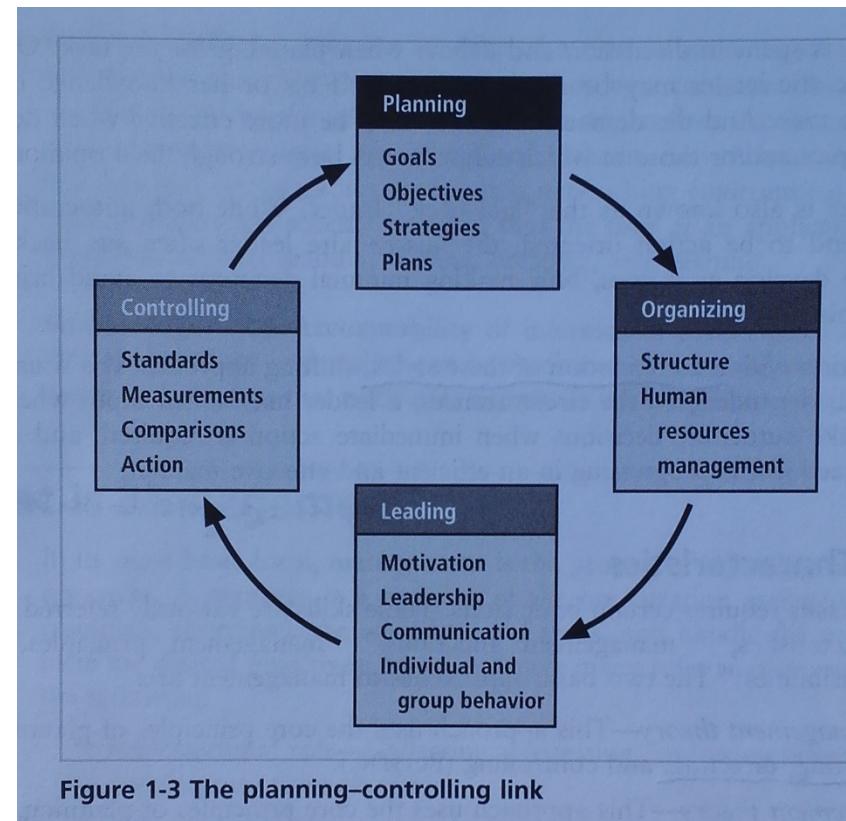
Management Characteristics:

POSDC: planning, **organizing**, staffing, directing, controlling (MBA, traditional)

POLC: planning, organizing, **leading**, controlling (important for CISO: why?)

Planning: strategic, tactical, operational

Planning-control link (see figure) compare with PDCA-Cycle



About Management II

Problem Resolving Process

(one of many examples, intuitive, timeline
...)

1. Recognize and Define the Problem
2. Gather facts and Make Assumptions
3. Develop Possible Solutions
4. Analyze and Compare possible Solutions

Correcting Deviations: see picture to left.

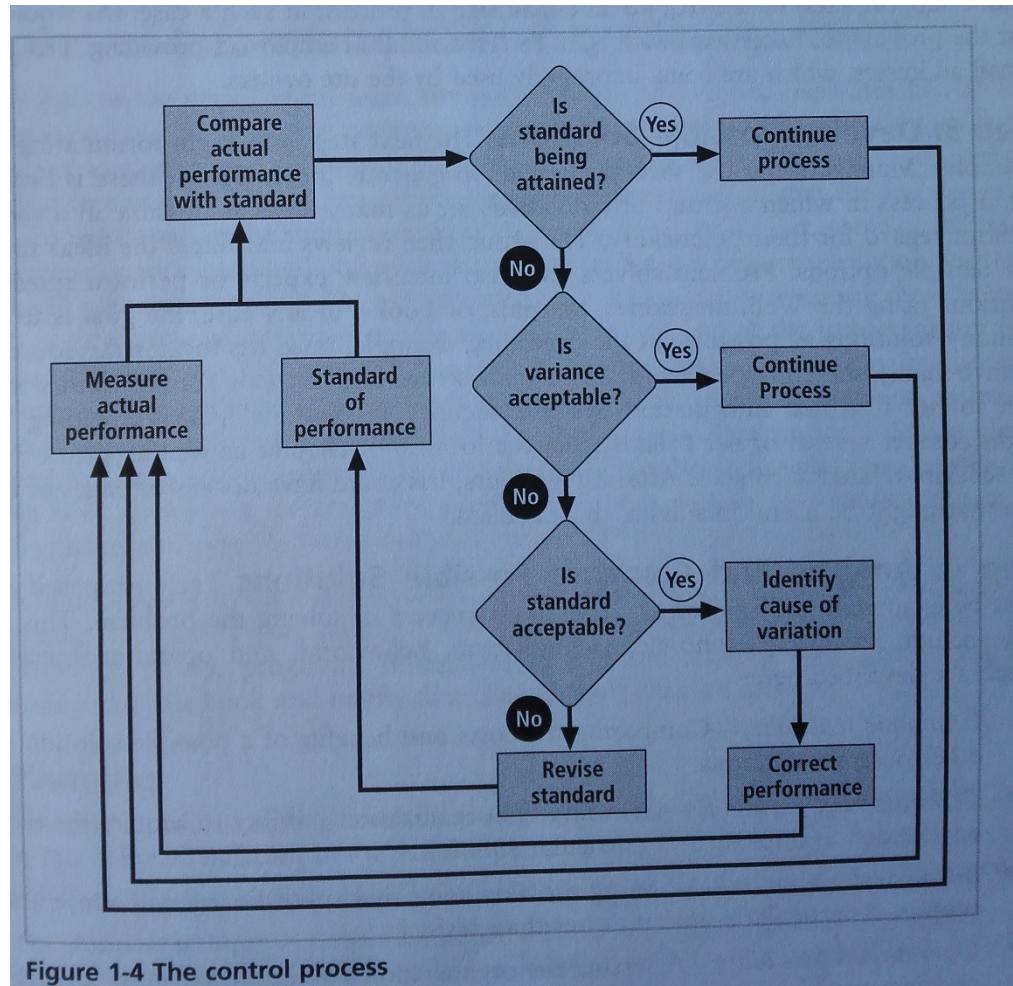
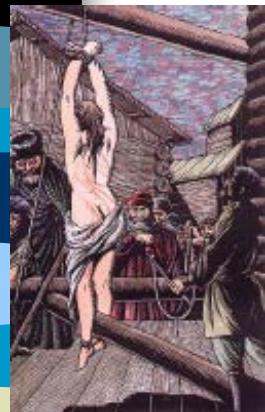


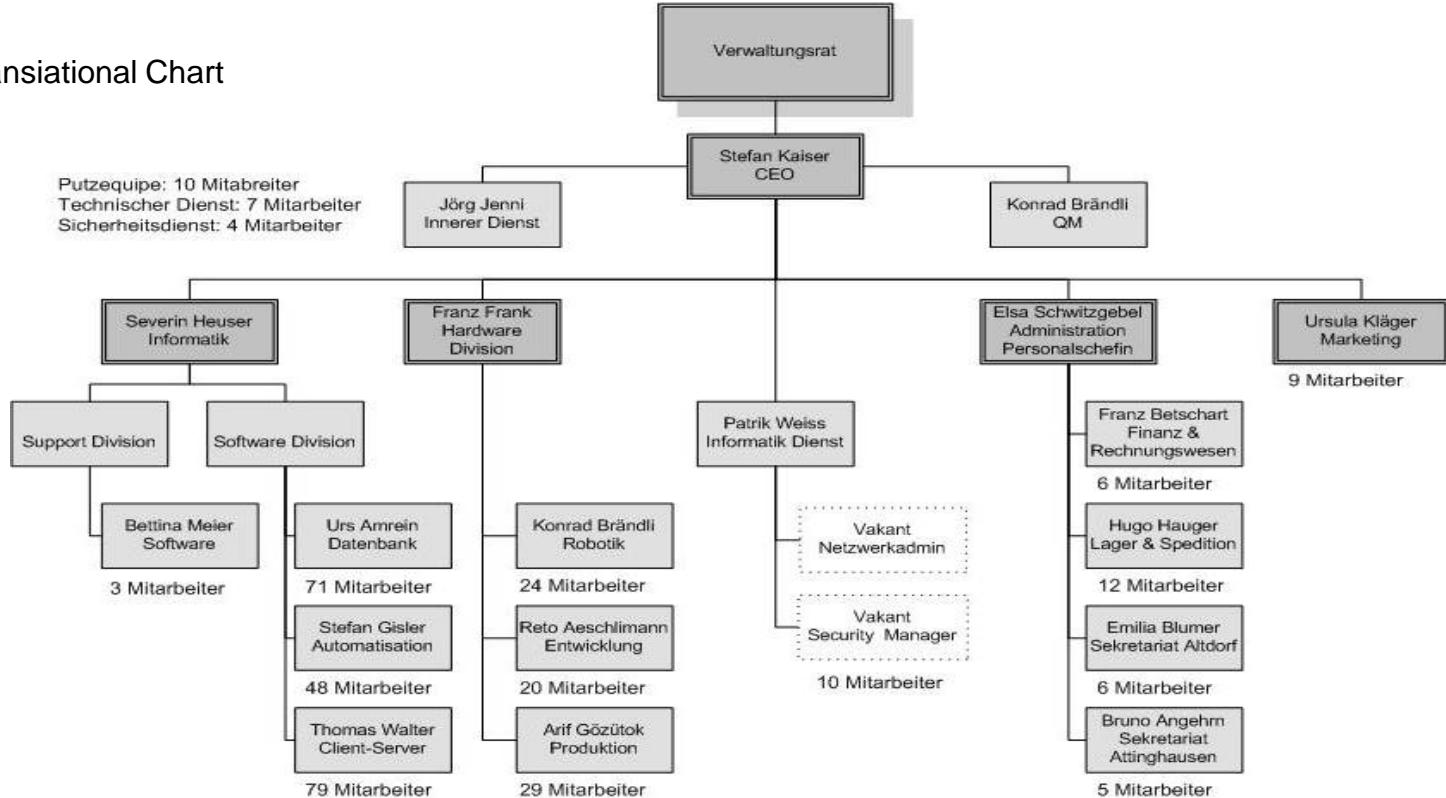
Figure 1-4 The control process

About Management III

Principles of information Security Management

1. Planning
2. Policy
3. Programs
4. Protection
5. Projects

Picture: Organisational Chart



Die 25 größten Flops der IT-Geschichte



09.02.2009 Simon Hülsbömer
<http://www.computerwoche.de/1886028>

■ Manche Ereignisse und Entwicklungen möchte man schnell vergessen.
Wir streuen Salz in die Wunden der Microsofts, Apples, IBMs, Palms und
Netscapes dieser Welt.

1. Security

2. Windows Vista
3. iPod-Imitation
4. Das Papierlose Büro
5. Digital Rights Management
6. Carly Fiorina's Regime über 7 Jahre bei HP
7. 64-Bit Desktop
8. Elektronische Währung statt Kreditkarte und Paypal
9. Mac-Klone
10. Intel Itanium
11. Microsoft Passport

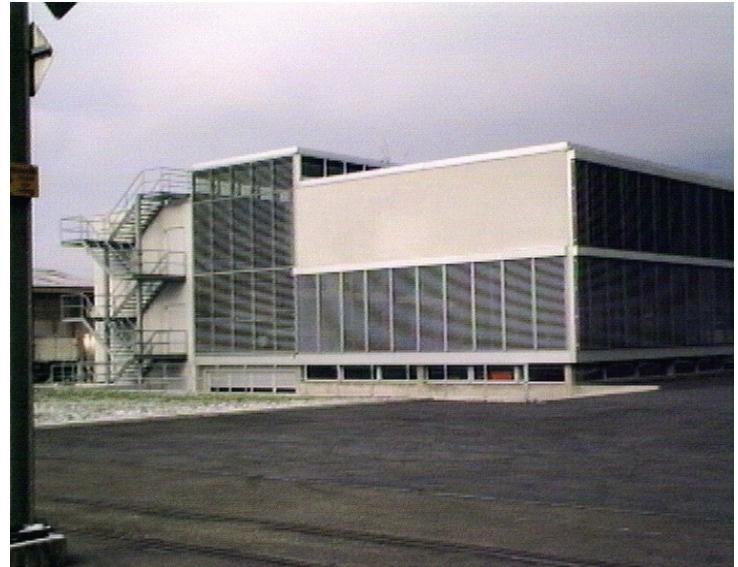
Important Terms

- Threats (identification of threats)
- Vulnerabilities (weaknesses): identification
- Inventory detection and classification (essential, optional)
- Likely Hood – Damage Potential
- Risk = LH x DP
- Risk Management (acceptance line)
mitigate, minimize impact, insure, accept residual risks
- Finance counter measures

Case Study: Example Locations



Altdorf West



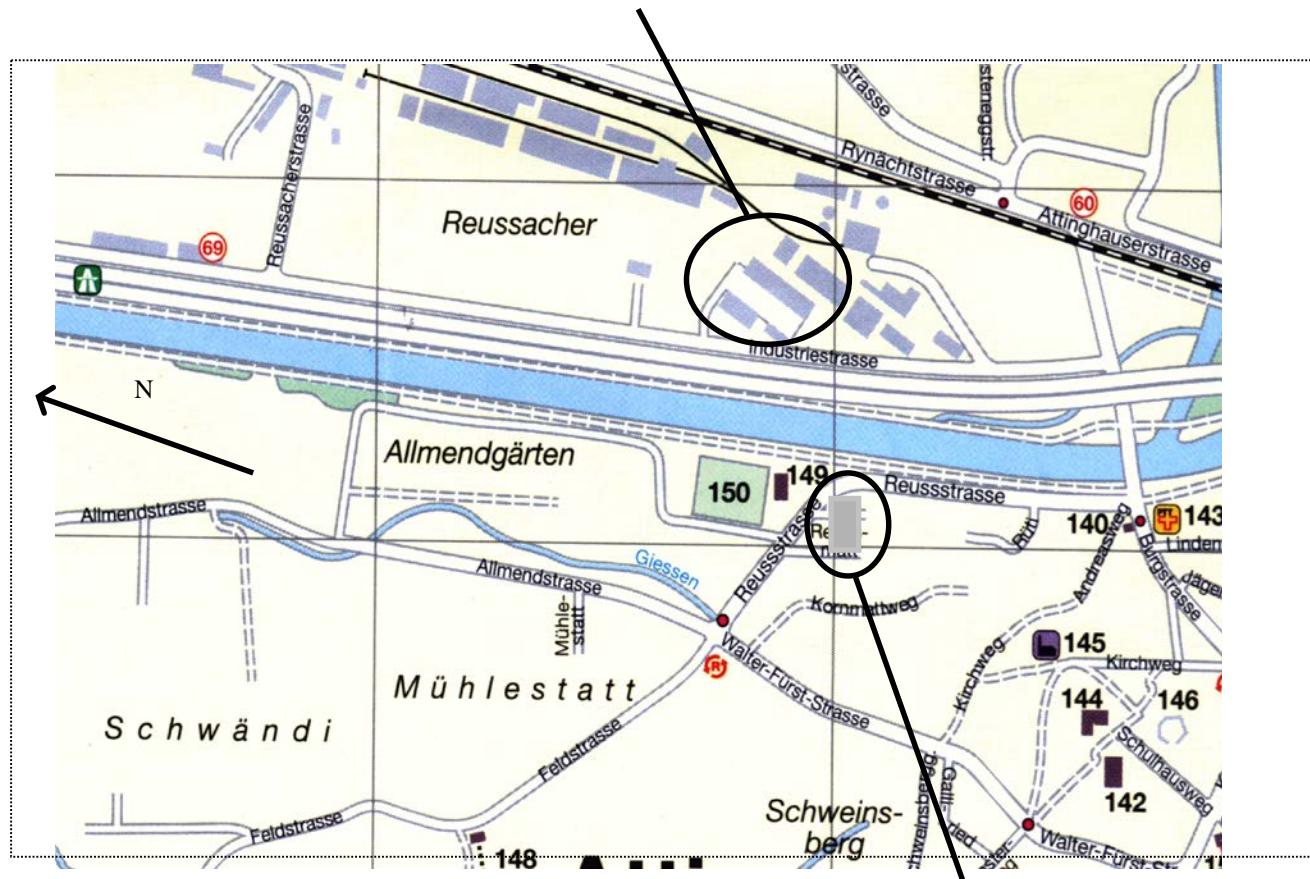
Attinghausen



Altdorf Ost

Locations

Altdorf East & West



Attinghausen
Prof. Dr. B. M. Häggerli



Situation in the map 1992, when high water was happening. All three buildings are in the flooded area of „Vierwaldstättersee“



Lucerne, August 2005



Prof. Dr. B. M. Hämerli



Prof. Dr. B. M. Häggerli



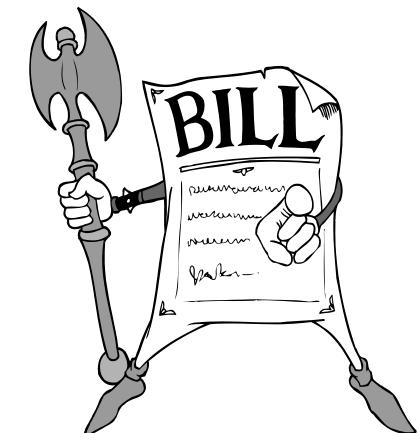
Prof. Dr. B. M. Häggerli

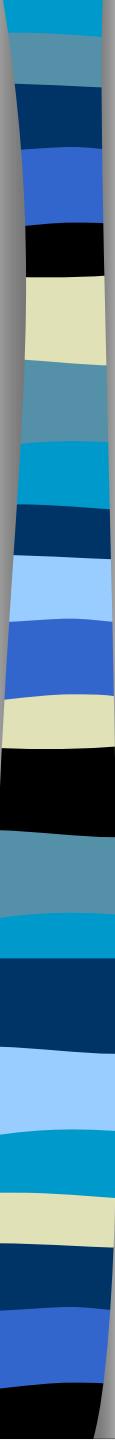


Prof. Dr. B. M. Häggerli

Action Plan for IT-Sec Projects

- **Risk Analyses in specific areas**
- **Risk Evaluation / Risk Profile**
 - Graphical Analysis! (Graphics are important)
 - Illustrate softly the weaknesses
- **Plan of counter measures**
 - Priority List
 - Cost Estimation
 - Personnel Effort

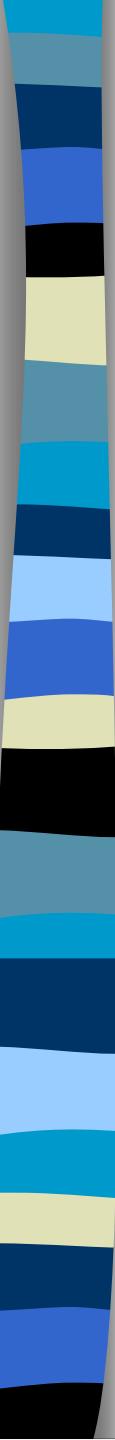




Illustrating the Residual Risks

■ Documentation of Residual Risks

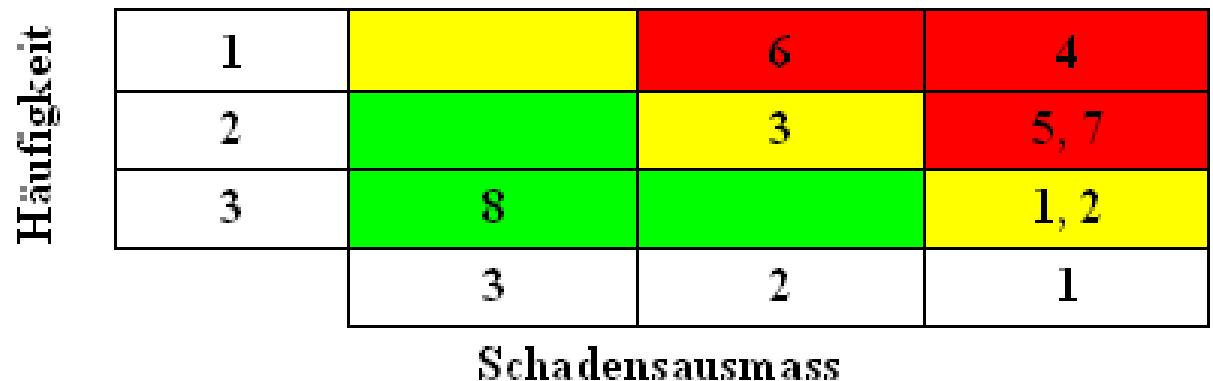
- Illustrate with graphics risk before and after the counter measure
- Show, which residual risks could be insured
- Should the risk, the company has to live with and try to find person accepting these risks.



Perparation

- No second chance to make a first impression!
→ example, on what to care?
- Prepare in all detail
- Be aware on your charisma and aura
- Train the situation before
- Documents 5-8 ppt slides, 1-2 p text

Risko Matrix



New Risk Matrix

Häufigkeit	1	6		
2	3	4, 7		
3	2, 8	1	5	
	3	2	1	

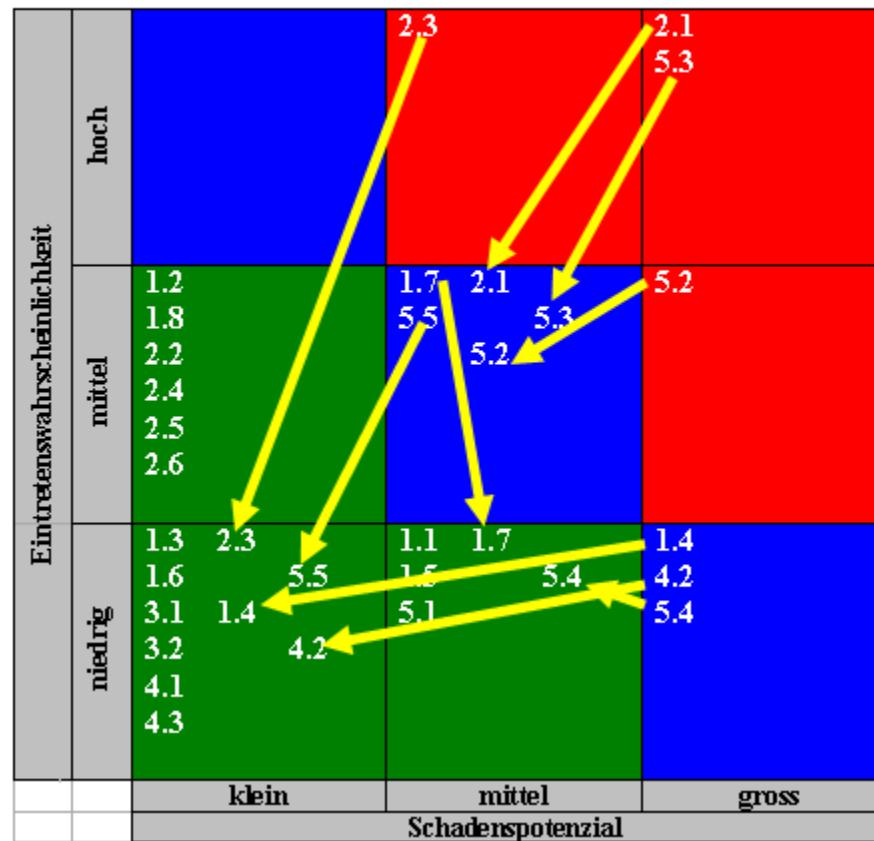
Schadensausmass

Geringes Risiko

Mittleres Risiko

Grosses Risiko

Risiko-Status nach Massnahmen



Preferred Graphic (Spider diagram)

Social Networks: Risks, Acceptance and Aftereffects

