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Swiss IT Disasters and What They Teach Us

Swiss Cyberstorm Conference
Kursaal Berne, 25th October 2022

Background



65 years old / living near Zurich / married / 3 adult children



40+ years experience as business analyst and project manager for large Swiss Financial Institutes



Retired but still active as an author:

- Guest comments related to project management for "Neue Zürcher Zeitung" and "Finanz und Wirtschaft"
- Recently published a book about failed INSIEME-project in Swiss Federal Tax Administration:

Reappraise projects from point of failure

Search for root causes

Combine with own experiences

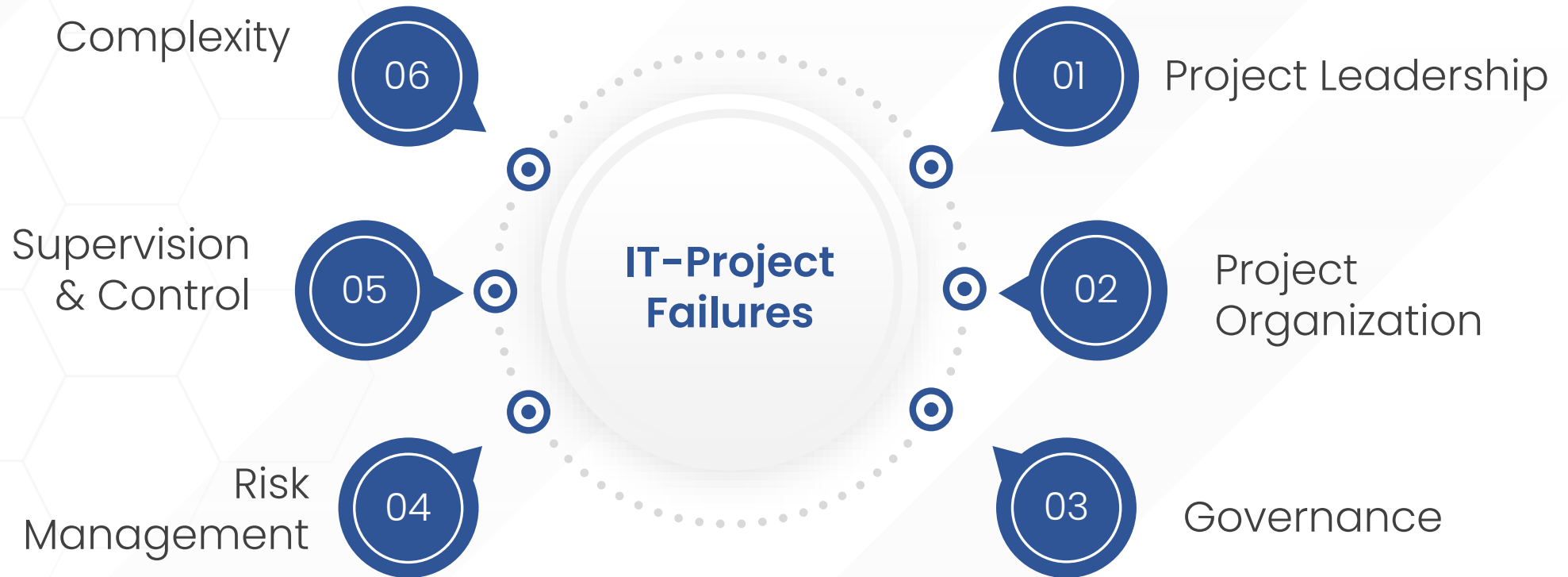
Propose improvement opportunities

Introduction

- ✓ Is it possible to transfer the INSIEME-findings to IT-security projects?
- ✓ Goals of my presentation
- ✓ Important disclaimer



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The INSIEME Project

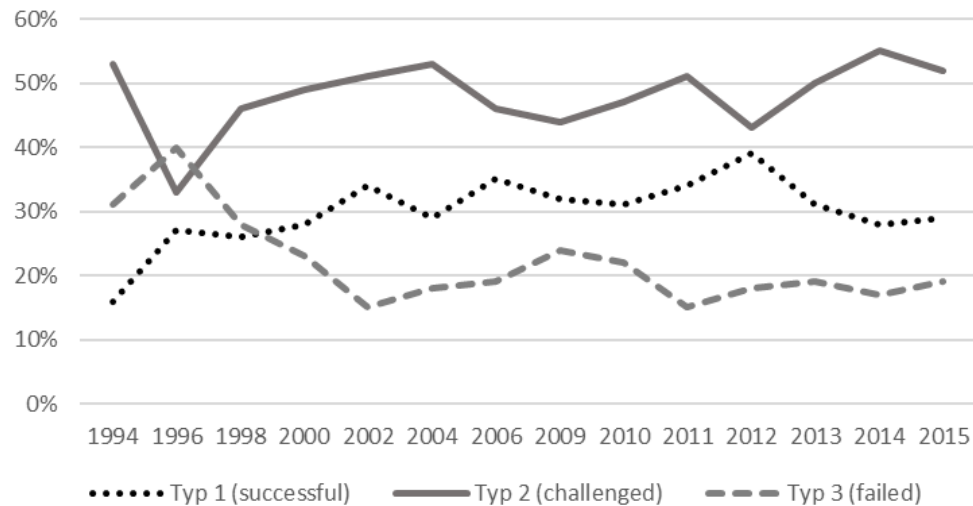


Most INSIEME-problems well known from IT-projects in large Swiss Banks

The CHAOS¹ Report²

Successful, challenged and failed IT-projects

The Standish Group CHAOS Report 1994 - 2015



Conclusions

- CHAOS Report (1994-2015) shows that approx. 70% of IT-Projects are "challenged"³ or have failed
- CHAOS Report 2020 shows similar figures⁴

¹ Comprehensive Human Appraisal for Originating Software

² Source: The Standish Group (<https://www.standishgroup.com/>)

³ Project completed, but with cost and/or time overruns or the full planned functional scope was not achieved: [Wikipedia: CHAOS-Studie](#)

⁴ Source: Henny Portman's Blog: [Review Standish Group - CHAOS 2020: Beyond Infinity \(Summary\)](#)

The background features a complex network of white lines and dots on a light blue gradient. The lines connect various points, creating a web-like structure that suggests connectivity and technology. The dots are of varying sizes and are scattered throughout the frame, some appearing as bright highlights.

Project Management & Leadership

It's about Attitude, Behavior and Skills

Projects stand or fall with project leaders



Never seen a project fail because of technical issues



"Leadership under the magnifying glass"



Good project managers will succeed even in unsuitable environments

It's About Attitude, Behavior and Skills

Expectations & Requirements



Subject Matter Expertise



Own Personality



Attitude



Behavior



Project Management skills ¹



Self Organization

Improvement Opportunities

- Careful selection of Project Managers
- Decision after probation period
- Systematic training & education
- Careful guidance

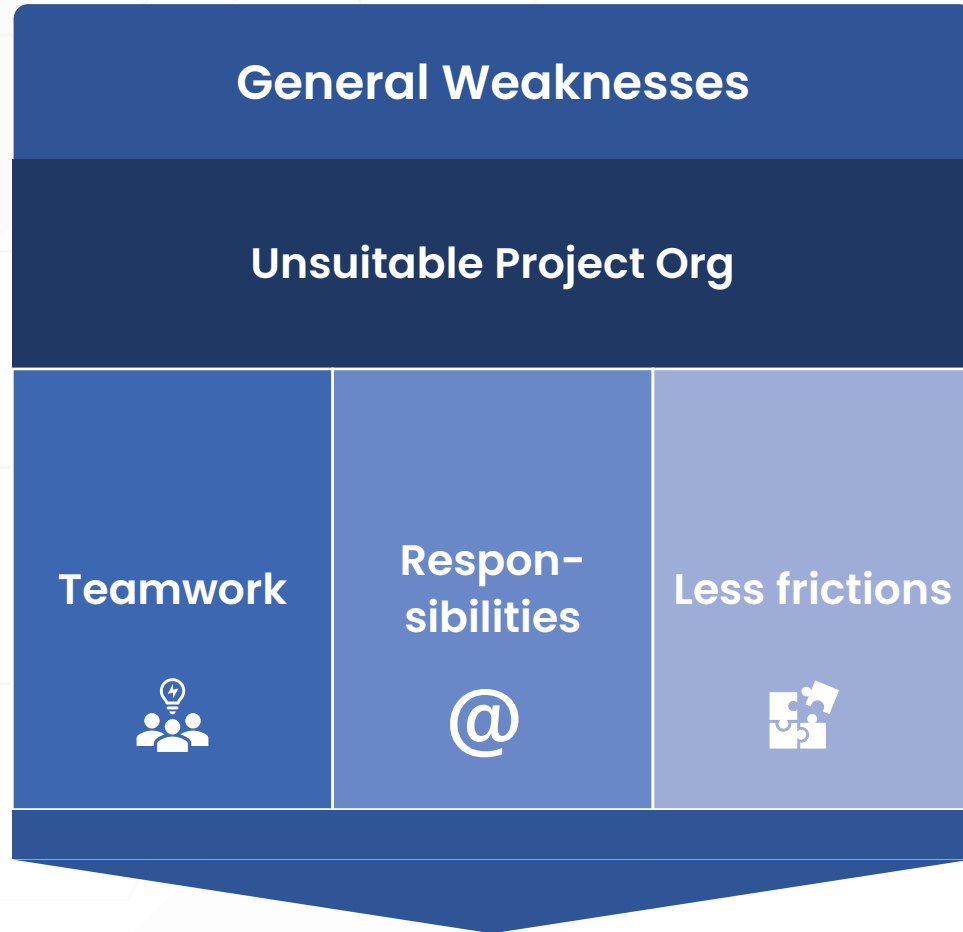
¹ Required skills: Planning, Coordination, Change Management, Methodology knowledge, 360°-Leadership

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Project Organization |

Common Thread Through
Failed Projects

(IT-) Project Organization



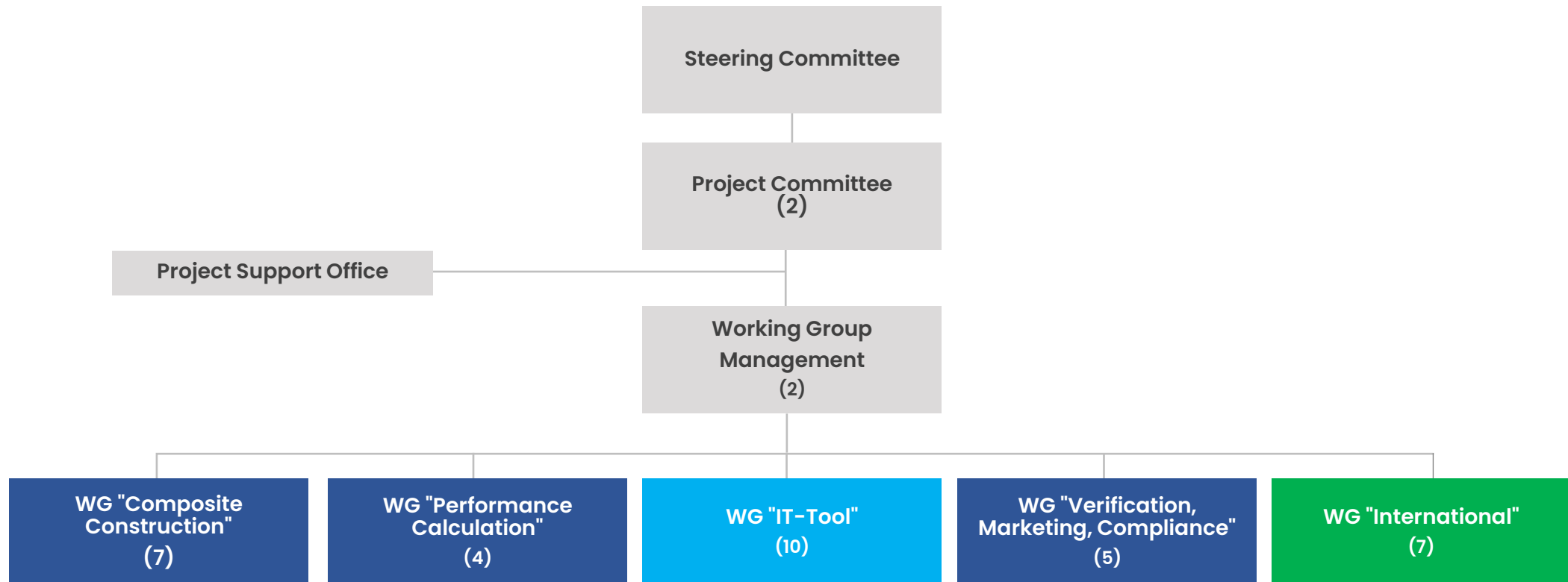
One of most underestimated problems in IT-projects

Improvement Opportunities

- Clear / undisputable definition of roles & responsibilities
- Quality criteria for organizational structures
- Appropriate hierarchy level

Two Negative Examples

1) Different Structuring Criteria on Same Organizational Level

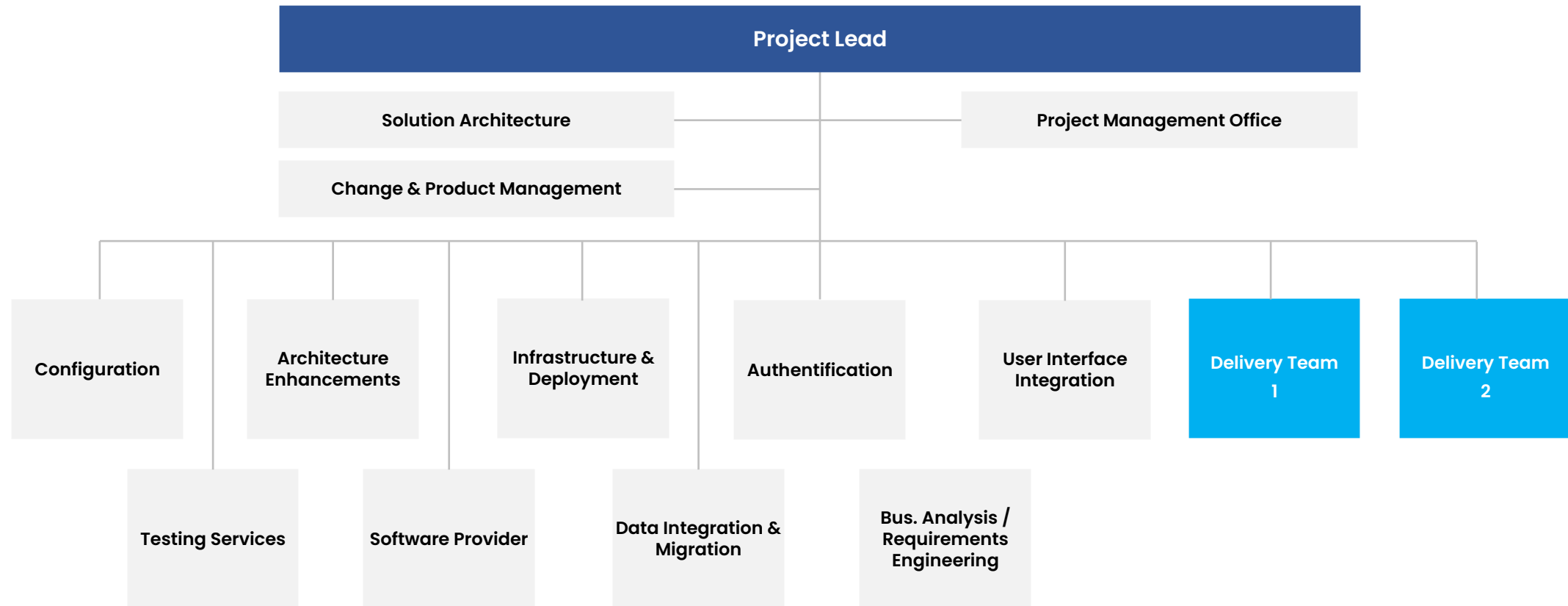


(n)
WG

Teamsize
Working Group

Two Negative Examples

2) Imbalance: "Mission Critical" Units vs. Support Units





Governance & Responsibility |

No Participation
Without Responsibility

Project Governance

Project Environment



Tasks & Responsibilities

Project Sponsor

- Ultimate responsible
- Steering Committee Chairman

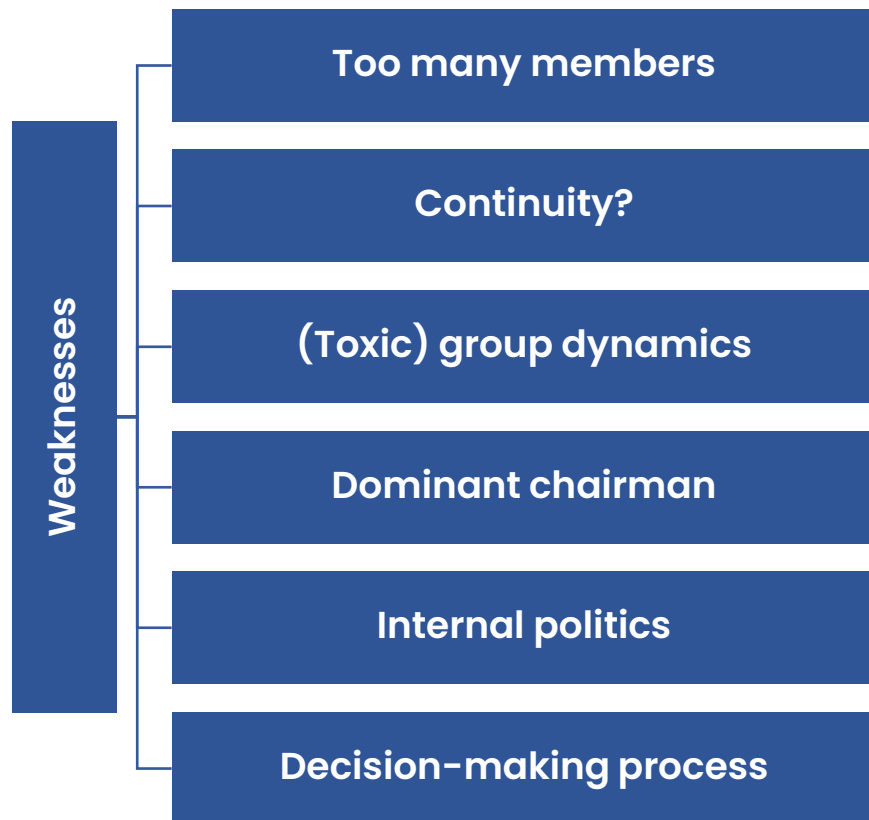
Steering Committee (STC)

- Strategic decisions
- Supervise project manager
- Stakeholder interests
- Risk management

¹ e.g. Legal / Compliance / Risk, Procurement etc.

Project Governance

General Weaknesses



Improvement Opportunities

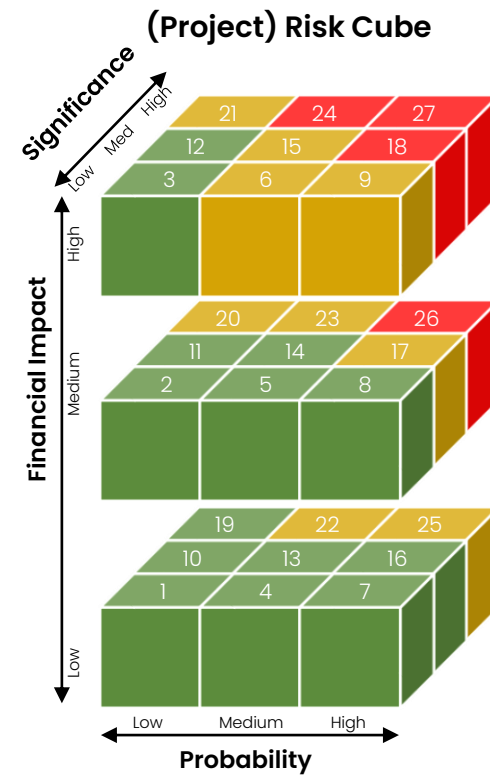
- Max. 7 (+/-1)
- Individual role descriptions
- Individual responsibilities
- If appropriate: direct report to top management (committee)
- Advocatus Diaboli

Downside Risk Assessment

General Weaknesses

- Two-dimensional risk approach
- Project *Significance*?

Improvement Opportunities

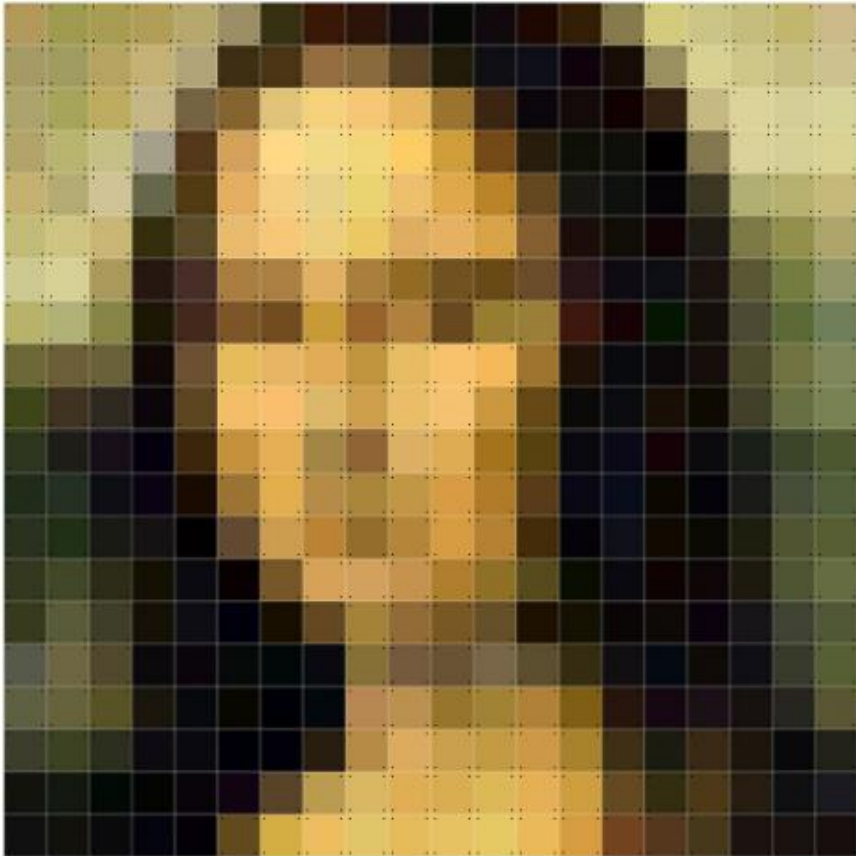


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Supervision | & Control

Less Is More!

Supervision & Control



You don't need all the details to recognize a picture



Same for reviews of projects at risk

Supervision & Control

General Weaknesses



Inflationary number of audits and reviews




Status ORANGE



Recommendations?

Improvement Opportunities

- Less is more!
- Checklists for standard situations
- Two instead of three status colors
- Early warning system
- Instructions & deadlines
- Escalation plan



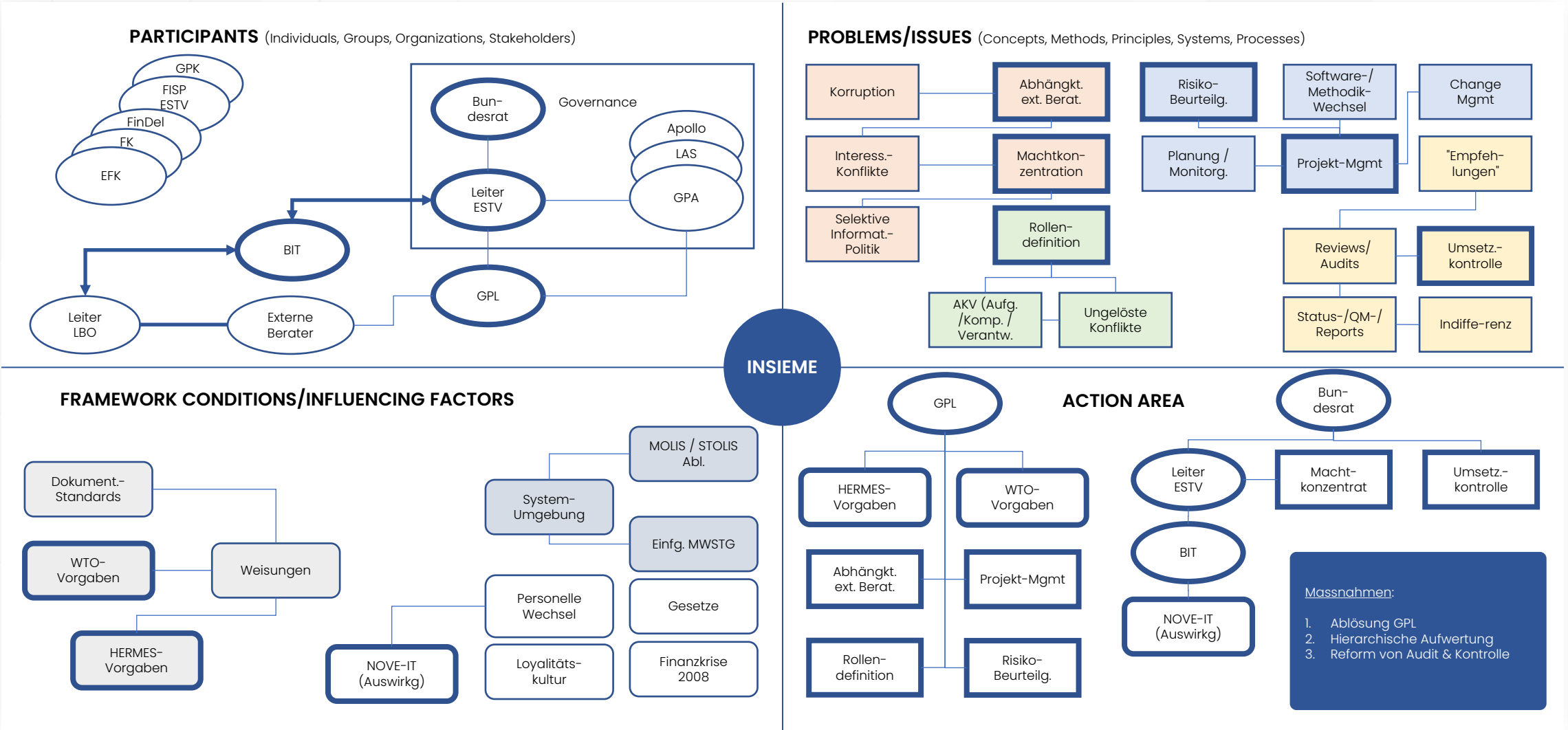
System Complexity |

The Leverage Effect

Can Complexity be Mastered?

- Complicated vs complex systems
- IT projects are complex systems
- Security projects: small details with disproportionate impact
- Pareto Systems Analysis (PSA):

Pareto Systems Analysis (PSA)





Summary & | Takeaways |

Summary & Take Aways

