

**ISL** Institute of IT-Security  
and Security Law



# Institute of IT-Security and Security Law

**Prof. Dr. Gerrit Hornung**

Chair of Public Law, IT Law & Legal Informatics

– Spokesman of the Institute –

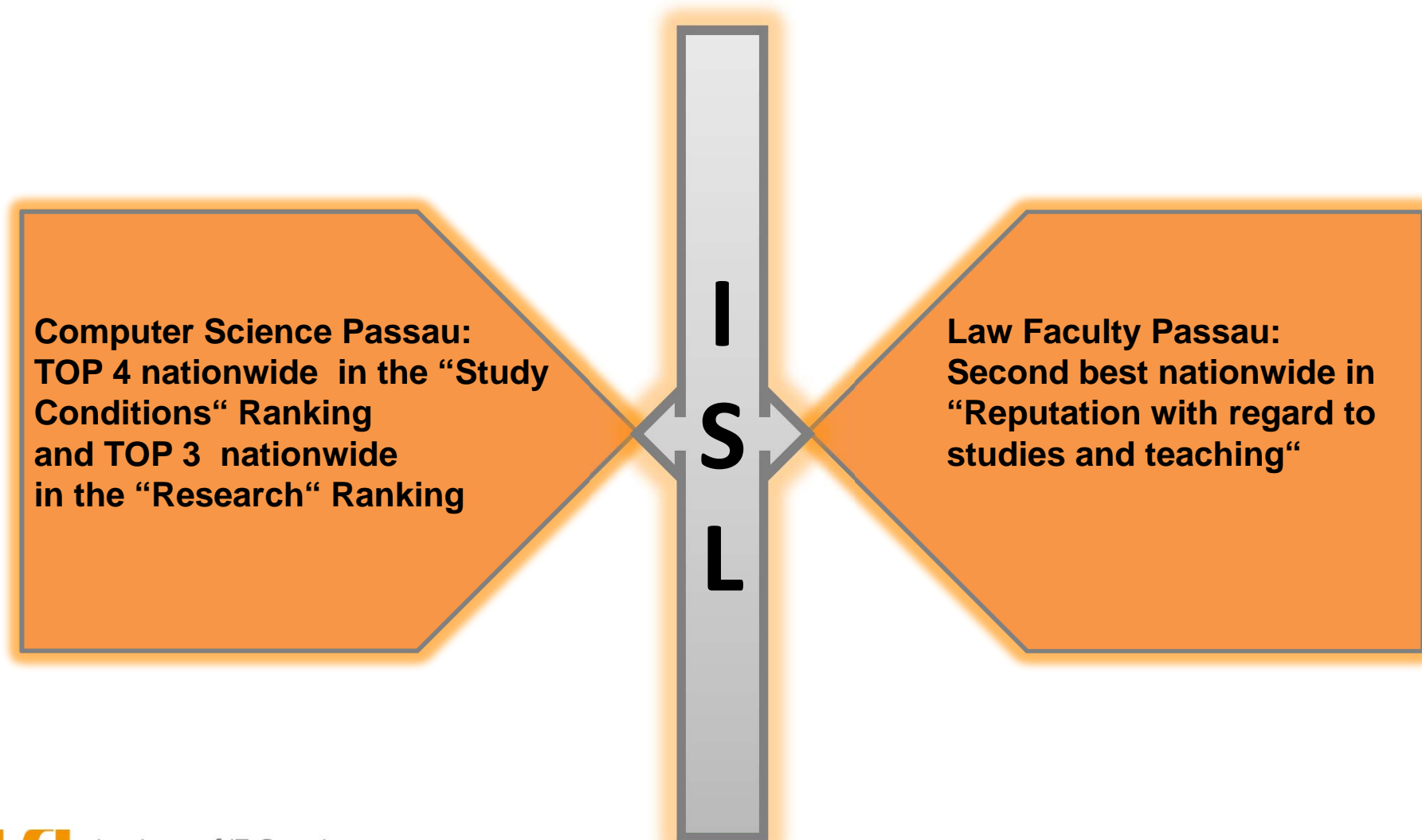
# ISL: Institute of IT-Security and Security Law



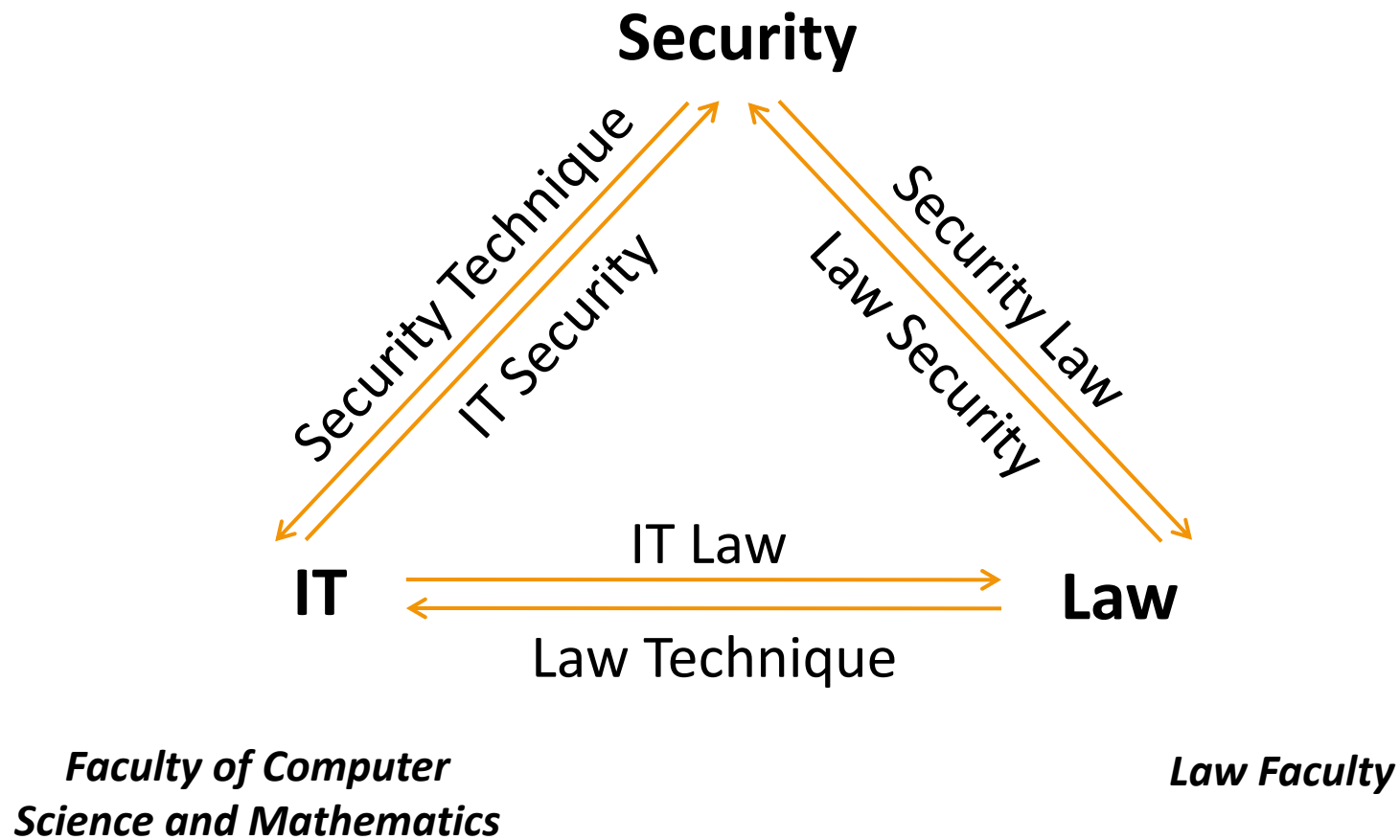
**Bridging gaps between two worlds that depend on each other...**

# Computer Science and Law: 2 Top Faculties in Germany

Results of the CHE University Ranking 2010:



# The Institute – the Idea



# Structure of the Institute

## Institute of IT-Security and Security Law



*Prof. Dr. De Meer*

Chair of Computer  
Networks and  
Computer  
Communications

Competencies:

- Network Security
- Communication Security



*Prof. Dr. Heckmann*

Chair of Public  
Law, Security Law  
and Internet Law

Competencies:

- Security Law Subjects
- Internet Law Subjects
- IT-Law



*Prof. Dr. Posegga*

Chair of  
IT-Security

Competencies:

- Software and Application Security
- Mobile Networks Security



*Prof. Dr. Hornung*

Chair of  
Public Law,  
IT Law  
& Legal Informatics  
**Spokesman  
of the Institute**

Competencies:

- IT Law
- Legal criteria for the design of new technologies



*Prof. Dr. Reiser*

Junior Professor  
for Security in  
Information  
Systems

Competencies:

- Secure and reliable information systems
- Security of virtualization technology

# The “ISL-Formula“

**IT × Law × Security =**

**Basic Research in the nucleus of the information society**

## **Definition**

- Determination of IT-Security by *legal terms*
- Guarantee of IT-Security by *technical solutions*

## **Causal Research**

- Reaction on IT-Insecurity by legal adjustment
- Prevention of legal insecurity in technical environments

## **Impact Assessment:**

- Security “despite IT“ : Technology as a *Risk*
- Security “by means of IT“ : Technology as a *Measurement*

# Focus of the ISL

## Research in the context of IT-Security and Law, e.g. in projects dealing with

- legal questions on digital identities
- data protection law
- wireless and mobile systems, sensor networks
- „Security 2.0“: Web Security, Cloud Security
- ...

## Contracting authorities (third-party funds)

- European Commission, Federal Ministry for Economy and Technology (BMWV), Federal Office for Security in the Information Technology (BSI), Federal Ministry for Education and Research (BMBWF), Federal Constitutional Court (BVerfG), European Fund for Regional Development (EFRE) ...
- Many industrial partners, directly and in research projects

## Current ISL Projects (> 100 k€)

- **EFRE** (Europäischer Fond für Regionale Entwicklung)  
European Fund for Regional Development  
Contractor: European Union  
Time Frame: 07/2009 – 06/2015
- **RESCUE IT** (Robustes und verfügbares SCM - Unterstützende IT-Plattform)  
Robust and disposable SCM – supporting IT-platform  
Contractor : Federal Ministry for Education and Research  
(BMBF)  
Time Frame: 04/2010 – 03/2013
- **WebSand**  
Server-driven Outbound **Web**-application **Sandboxing**  
Contractor: 7th Research Framework Programme of the  
European Union  
Time Frame: 10/2010 – 09/2013



# Teachings

## **Education in the fields of IT-Security and Security Law**

- Lectures imparting basic knowledge
- Practical training applying and intensifying the knowledge

## **Master IT-Security**

- Profound knowledge in IT-Security and Security Law
- Practical studies

<http://www.isl.uni-passau.de/isl-home/master.html>

# Master Programme IT-Security

Compulsory modules, optional modules, practical courses, free-choice modules and key qualifications

## Compulsory Modules:

- IT-Security
- Cryptography
- Network Security
- Advanced Seminar  
IT-Security

## Practical Courses:

- Security Infrastructure
- Software Security
- System Security

## Optional Modules:

### IT-Security in networks

- Wireless Security
- Functional Security
- Computer Networks II
- Computer Networks III

### IT-Security in Software and Information Systems

- Software Security
- Security in Information Systems
- Multimedia Technologies and Multimedia Security

### IT-Law

- IT-Security Public Law
- IT-Security Private Law
- Practical exercises Law and Informatics + IT-Security



**THANK YOU!**

**ISL**