

# Agenda part 1 O1 Legal Basics "light" O2 Basic legal knowledge: Copyright O3 Copyright and Al Who owns Data?

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since 2014 Lecturer for IT and data protection law at Rosenheim University of Applied Sciences

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### 2003 - 2011

Attorney at a large German commercial law firm in Munich and Düsseldorf

Doctorate (Dr. jur.) at the University of

### 1999 - 2000

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Studies in Saarbrücken, Poitiers (France) and Bonn

Personal Married, one son "zuagroaster" alpine fan

Areas of activity Digital transformation

- Competencies
  IT law, especially software contract law and IT outsourcing projects
  E-commerce and social business
  National and international data
- protection law issues
  Translator between techies and lawyers

# Languages English, French

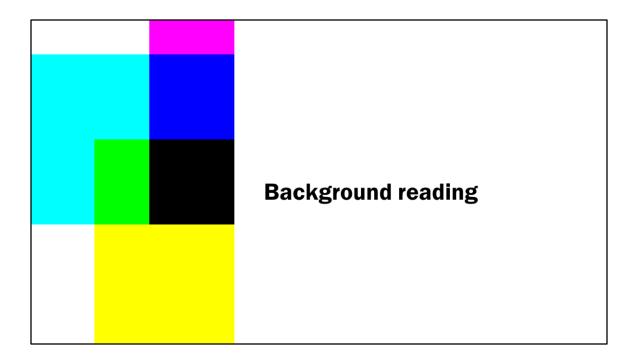


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# Recommended background reading & legal texts:

- → Recommended background reading:
  - eBooks on IT Law and on InternetLaw (both updated October 2019), Hoeren, Univ. Muenster. https://www.itm.nrw/en/lehre/materialien/
- → Legal texts:
  - General Data Protection Regulation (GDPR)
  - German Civil Code (Buergerliches Gesetzbuch BGB)
  - German Copyright Act (Urhebergesetz UrhG)

Online source: https://www.gesetze-im-internet.de/Teilliste\_translations.html

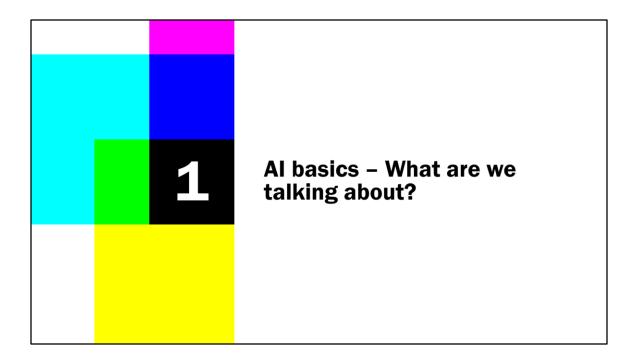
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# **Abbreviations**

AGB	Allgemeine Geschäftsbedingungen	GTC
AktG	Aktiengesetz	Stock Corporation Act
BDSG	Bundesdatenschutzgesetz	Federal Data Protection Act
BGB	Bürgerliches Gesetzbuch	German Civil Code
BGH	Bundesgerichtshof	Federal Court of Justice
BSIG	Gesetz über das Bundesamt für Sicherheit in der Informationstechnik	Act on the Federal Office for Information Security
BVerfGG	Bundesverfassungsgerichtsgesetz	Act on the Federal Constitutional Court
DSGVO	Datenschutzgrundverordnung	GDPR
EnWG	Gesetz über die Elektrizitäts- und Gasversorgung	Electricity and Gas Supply Act
EuGH	Europäischer Gerichtshof	ECJ
GeschGehG	Gesetz zum Schutz von Geschäftsgeheimnissen	Trade Secret Act
GG	Grundgesetz	Basic / Constitutional Law
GmbHG	Gesetz betreffend die Gesellschaften mit beschränkter Haftung	Act on Limited Liability Companies
GoBD	Grundsätze zur ordnungsmäßigen Führung und Aufbewahrung von Büchern,	Principles for the proper keeping and storage of books, records and
	Aufzeichnungen und Unterlagen in elektronischer Form	documents in electronic form
HGB	Handelsgesetzbuch	Commercial Code
LG	Landgericht	Regional Court
OLG	Oberlandesgericht	Superior Court
OWiG	Gesetz über Ordnungswidrigkeiten	Act on Regulatory Offences
SGB	Sozialgesetzbuch	Social Code
UKIaG	Gesetz über Unterlassungsklagen bei Verbraucherrechts- und anderen Verstößen	Injunctions Act (for Consumer Rights and Other Violations)
UrhG	Gesetz über Urheberrecht und verwandte Schutzrechte	Act on Copyright and Related Rights (short: Copyrights Act)
UWG	Gesetz gegen den unlauteren Wettbewerb	Act against Unfair Competition
ZP0	Zivilprozessordnung	Code of Civil Procedure

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# A little trip into the past



### 1936

British mathematician Alan Turing lays the foundation for artificial intelligence with his "Turing machine". With this computing machine, he proves that it would be able to execute cognitive processes.



### 1956:

The term "artificial intelligence" is coined at a conference held at Dartmouth College in the US state of New Hampshire by the programmer John McCarthy.



### 1966:

The first chatbot that communicates with humans was invented by the German-American computer scientist Joseph Weizenbaum from the Massachusetts Institute of Technology.

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# Hypes of the last years with AI technology



# Wolfram Alpha (developed 2005, hype: 2009)

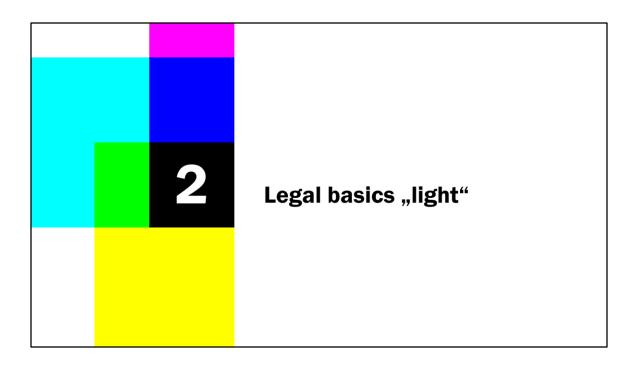
- → Computational knowledge engine
- → Delivery of results and analysis of data
- → Example functions:
  - · Arithmetic operations
  - Information on nutritional values of food
  - Special feature: Evaluation of Facebook profiles
  - Image analysis



- → Voice assistants
- → Respond to voice commands from users
- → Example functions:
  - · Control of devices and services
  - Answering questions from the user

### Wolfram Alpha vs. ChatGPT Chatbots ChatGPT-3 Hype from OpenAl Chatbots use machine learning to understand human language. They learn to understand Hype: 2022 messages and context with every chat. Increasing use, e.g. in online stores, for assistance Google Bard currently only accessible for restricted in the support area "Chatbot Generative Pre-trained Transformer" Voice and text based chatbot Communication with users in a natural language Lensa 2018, Hype: 2022 · Example functions: Al-based photo app that generates custom artworks Answer questions generated with the help of photos. Source of inspiration Users can use selfies to create avatars, action Pre-structuring of texts figures, elves or the like of themselves. Writing software code

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# What is a law?



## Germany

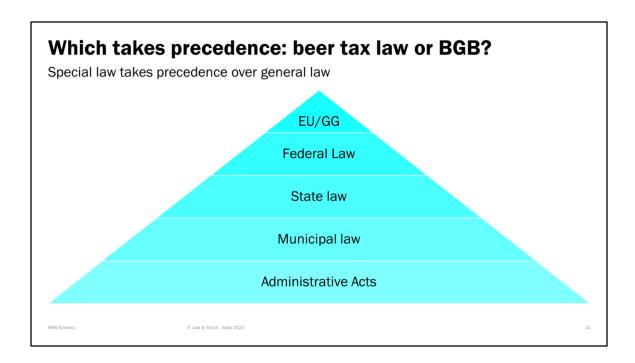
- → Law ("Gesetz"): General regulation adopted by a parliament
- → Ordinace ("Verordnung"): General regulation by authority on the basis of a law
- → Administrative act ("Verwaltunsakt"): Individual regulation by authority on the basis of a law or ordinance.

EU

- → Regulation ("Verordnung"): Directly identical application in all member states
- → Directive ("Richtlinie"): Sets minimum standards, member states must implement it, but are allowed to be more stringent as well

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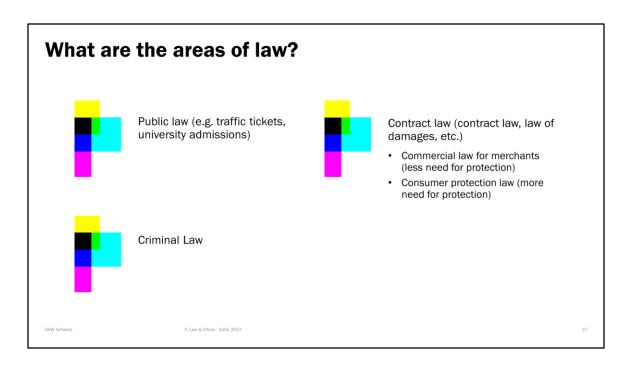


Beer Tax Act of July 15, 2009 (BGBI. I p. 1870, 1908), as amended by Article 1 of the Act of June 16, 2011 (BGBI. I p. 1090)

International law (e.g. UN Sales Convention) can be introduced into national law by law at the same level. It then applies like a national law.

EU law and the Basic Law (GG) complement each other.

Art. 30 GG: Legislation and administration are the responsibility of the Länder, unless: the Basic Law assigns this power to the Federation (also applies in parallel to EU law).



Note:

Special law for merchants: Commercial Code (HGB)

Special law for consumers: e.g. AGB or UWG

# Who's got the power?

Bundestag, police or the Munich Higher Regional Court?

# Legislators (Bundestag/Landtag):

Establishes the general rules of conduct through laws

# Authorities (e.g. police):

Apply the laws in individual cases to the citizen

### Courts:

Check whether the application by the authority complies with the law In contract law:

In contract law: Whether a contract complies with the law

# Special role of the Federal Constitutional Court:

Reviews all three (law, administrative acts, and court rulings) for consistency with German constitution (Grundgesetz)

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# Who cares about the Traunstein District Court?

- → In contract law (dispute between citizens), the court makes a binding decision on the dispute at hand <a href="Important:">Important:</a>. Without direct binding for third parties
- ightarrow Specific judgments can be overturned or corrected by upper instance

Still no direct binding for third parties



→ Special case Federal Constitutional Court: Not a superinstance for all court rulings, but decides on constitutional conduct of legislature, administration or courts

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Limited legal force of a judgment:

Personal: § 325 ZPO Content: § 322 ZPO

## Notice:

Judgments of the Federal Constitutional Court may even have the force of law, i.e. have a direct effect on all citizens, § 31 (2) BVerfGG.



# How to read a law?

Example

Fairness in the contract:

### § 242 BGB

The debtor is obligated to effect performance in such a way as good faith requires with regard to custom and usage.

### Translation:

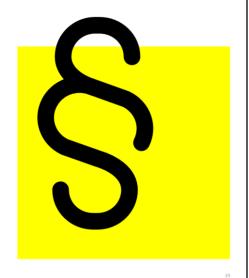
You just don't do certain things!

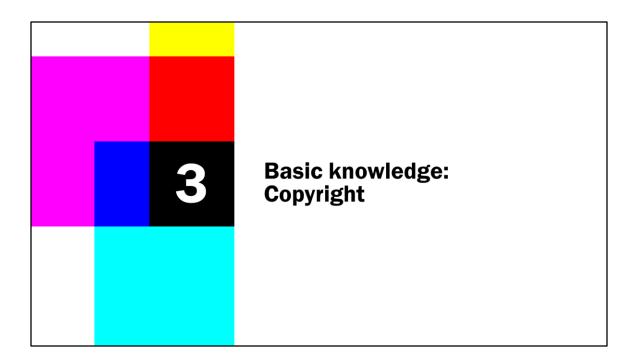
### Problem:

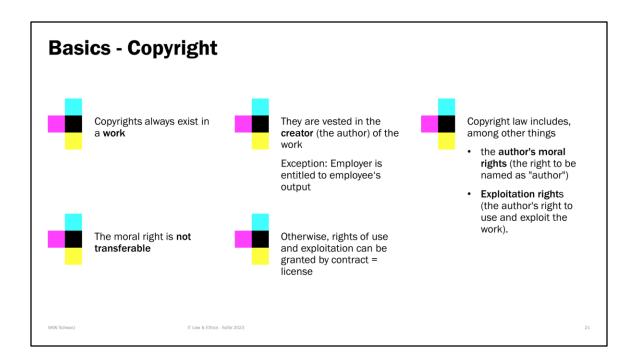
Social norms change (e.g. prostitute contract)

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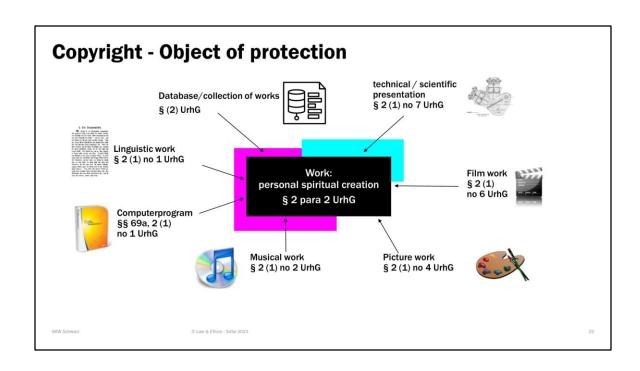
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In the USA also total buy out = sale of the author's rights



# **Copyright - Content of the copyright**

### **Moral right**

- Publication
- Recognition as author
- Prohibition of distortion

# **Exploitation rights**

- DuplicationDistribution
- Exhibition
- Performance
- Making available to the public
- Broadcasting rights
- Playback by image/sound carrier
- Editing and redesign

# **Performance rights**

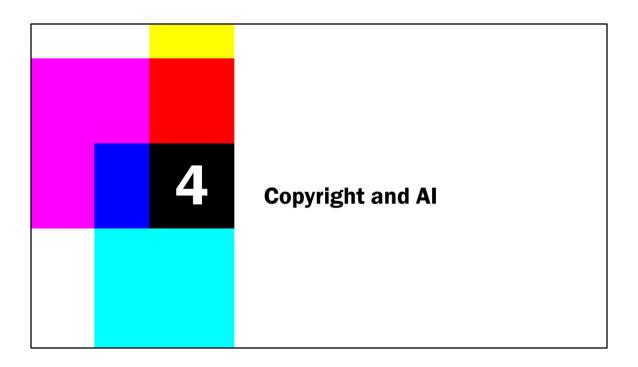
- Scientific editions
- Performing artists
- Record producer
- Broadcasting company
- Database producer
- · Press publisher

### Other copyrights

- Access to the workpiece
- Resale right
- Remuneration for renting

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# Basics - Software as subject of contract (1) BGB recognises things and rights as object of contracts (see §§ 90, 453 BGB). Things • are physical objects (CD, monitor), whether solid, liquid or gaseous • What is physical? Water? Light? Electricity? Data? Rights • are justified claims or powers • Can arise by law (patent) or contract (promissory bill) • must be transferable (right to name?)

- Common goods like free air or running water are not things. But: bottled water or bottled gas can be things
- Light and electricity are not delimitable things (RGZ 86, 14)

# **Basics - Software as subject of contract (2)**

- → data carrier on which the software is embodied (CD-ROM, hard disk, USB stick): unproblematic matter
  - What about the program data itself?
  - Problem online submission, master copy etc.

### Software is treated like a thing!

→ But

A "thing" that embodies the know-how of its manufacturer, but the thing is only usable for the one who also has the right to use and exploit this know-how = **license**.

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Note: no bona fide acquisition of software because of copyright

# **Copyright - Software as subject of protection**

Computer programs according to § 69a UrhG

Subject of protection according to § 69a UrhG:

- → Computer programs (not software):
  - All works that can be traced back to a specific author and contain a sequence of program instructions that are used to control or direct the course of the program
- → Includes also design material, as well as adaptations, modifications or processing of already known other programs, incl. object and source code.
- → In addition, language works from the development environment can also be protected if they have sufficient originality ("individuality"): e.g. documentation, interfaces, or XML files.
- → Not copyrighted: Ideas, principles, HTML codes, websites, programming languages, file formats.
  - · However, possibly as a trade secret

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# § 69a UrhG

On programming language and file format (=no computer program) and code implementing the programming language (=computer program), ECJ of 2.5.2012 - Rs C406/10 - SAS Institute.

For XML files, see LG Frankfurt/Main, judgment of November 8, 2012, 2-03 0 269/12, 2/03 0 269/12, 2-3 0 269/12, 2/3 0 269/12.

# Copyright - Software as subject of protection

Artificial intelligence (AI) as creator (1)

### → Al in programming

- Usually, the formulation of requirements and planning is regularly made by people
- Automated software development and AI coding use AI to assemble pre-built modules and test against requirements over and over again until an acceptable body of work is created
- The programming itself no longer uses any human creativity, but rather machine learning
- Human creativity, however, is in the development of the algorithms and the training of Al

### → Different approaches to authorship:

- Formulation of requirements and planning of Al deployment sufficient for authorship?
- "operator" of the AI starts and stops the AI and should therefore be the creator (but: can he control it?)
- Al "developers" as co-authors by training the Al?

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# **Copyright - Computer as author**

Artificial intelligence (AI) as creator (2)

### What is copyrightable?

- → § 2 (2) UrhG: personal intellectual creation of a human being
- → Excluded: Accidental creation; found objects, works of animals
- → Necessary: sufficient individuality (formerly "level of creation") that can be attributed to the creator

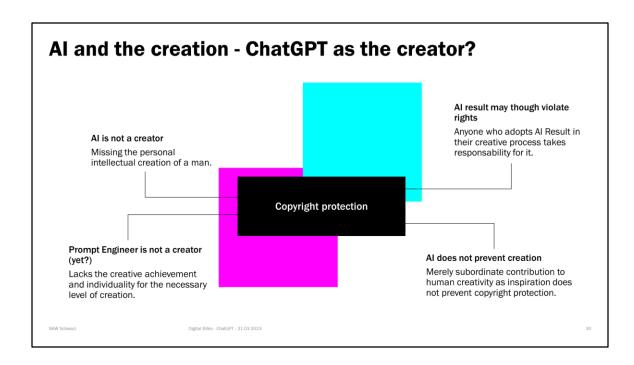
### Al is (currently) not copyrightable:

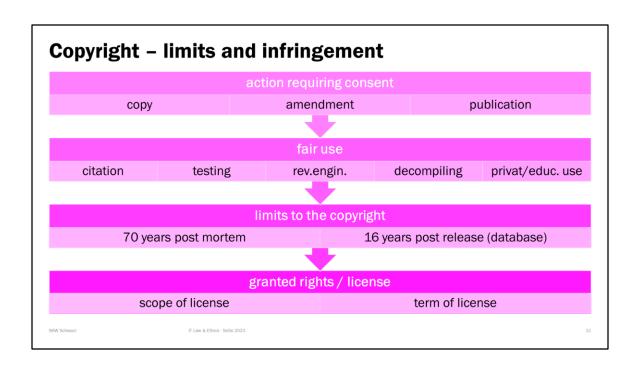
- → The human development contribution (requirements formulation, starting the AI) lacks sufficient creative power and individuality
- → Mere training of the AI does not lead to its programming to a specific planned result, but only to the parameterization of the algorithm

### KI creation is therefore "in the public domain" = may be used by anyone except:

- → Protection as a trade secret (as long as the algorithm and the deep learning result are not published).
- → All has only subordinate tasks in the human creative process (e.g. autocomplete of pre-programmed codes)

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# Al as an infringer?

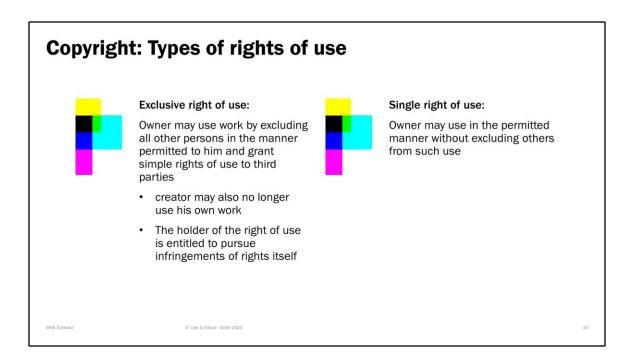
Training can be "fair use" - the result is still dangerous!



Source: theverge.com, 06.03.2023

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Distinction from sole right of use, if author alone remains authorized to use alongside (exclusive) right holder

# Copyright: Structuring of rights of use

Rights of use should be aligned with the need for use

# Content framework

- How may the work be used?
- Who may use the work?

### **Time frame**

- limited in time
- unlimited

# Regional framework

- Germany
- Europe
- World

In case of doubt, only those rights shall be deemed to be transferred which are necessary for the purpose of the contract (transfer purpose rule)

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§ 97 ff. UrhG §§ 106ff. UrhG

# Scope of simple rights of use - Types of licenses

Types of licenses differ according to the group of authorized persons:

- → Single user license
- → Network license
- → Named user
- → Concurrent user
- → Floating user
- → Company License (Problem: Company Succession)
- → Group license
- → License for renting/rental

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On Company License cf. Berger, GRUR 2013, 321

# **Copyright - Protection of algorithms**

protection as a trade secret?

- → Information can have extreme value for companies without also having creative character (therefore not protected by copyright) or disclosure would make it worthless (therefore no application as patent)
- > Protection of business secrets by GeschGehG, if
  - · they are secret
  - therefore have an economic value and
  - are the subject of appropriate confidentiality measures.
  - · Secrecy is maintained technically (IT security), organizationally (authorization concept) and legally (NDA)
- → If protected, the owner can demand injunctive relief/destruction and damages from the copier, as with an IP, but also personal liability for inadequate protection
- → Algorithms, Big Data applications, workflow representations can also be subject to prohibitions and licenses.

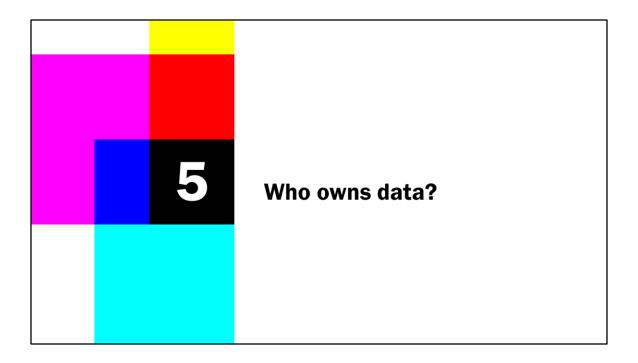
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GeschGehG implements a corresponding EU directive on trade secret protection in Germany since March 21, 2019, which actually had to be implemented since May 2018. The EU law therefore already applied since mid-2018, and since March 2019 the specific rules have also become German law and must therefore be observed directly.

The owner of the GeschG can prohibit others from using it (cease and desist) and demand both destruction of the copies and compensation for damages. However, the managing director is also personally liable if he does not take sufficient measures to protect himself.

Reverse engineering is permitted under GeschGehG if it is not contractually prohibited (must therefore be regulated in license agreements)



# Who owns data? - is there an ownership in data?



- → Property within the meaning of the BGB/GG
  - the right to exclude others from the disposal/use of a thing or a right
  - And to dispose of it at will
  - BUT: Subject of property can be only one thing, data allow parallel use by many
  - Example: Owner of the smart device cannot dispose of the data on his device as an owner would



### → Copyright

- Exclusive use rights give the holder rights like an owner (exclude others and free disposal)
- BUT: Copyright protects only software (§ 69a UrhG) and complete databases (§ 4 (2) UrhG), not individual data
- Example: Structured tables for setting machines are protected as a database, the individual setting value is not



### → Privacy

- Data protection gives the data subject the right to prohibit and allow others to process his or her personal data
- BUT: Law allows many data processings even without consent of the data subject, which an owner would not have to tolerate (Art. 6 (1) DSGVO)
- Example: Entrepreneur can statistically evaluate addresses of his current customers without their consent

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Criminal law and GeschGehG also protect the integrity and the value of the confidentiality of data from unauthorized access - but do not give any unrestricted right of disposal of their own

# Who owns data?

Data "belongs" to the person who can dispose of it



## There is no ownership of data

- → Data ownership is not yet provided for in the German or European legal system
- → Data is not tradable per se



# It gives the person authorized to dispose of data

- → Whoever controls access to data (e.g., the interface, sensor, or smart device) can effectively dispose of it like an owner
- → The right of disposal can be commercialized = payment with data (§§ 312 I a, 327 III BGB)

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