

# Digital MasterClass

## Kantonsrat Zürich

### Die digitale Verwaltung: Was kann sie, was darf sie?

Zürich, 20. Januar 2025

**Prof. Abraham Bernstein Ph.D,**

Informatikprofessor & Direktor Digital Society Initiative, Universität Zürich

**Prof. Dr. iur. Nadja Braun Binder, MBA,**

Professorin für Öffentliches Recht, Universität Basel

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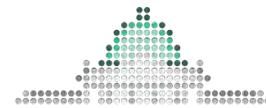
Eine Veranstaltung von:



**Universität  
Zürich**  
UZH

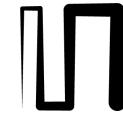
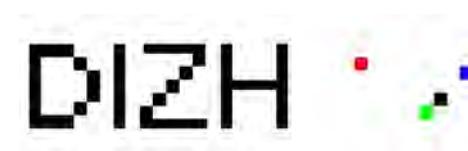
Digital Society Initiative

Partner:



**Parldigi**

Unterstützt durch:



**Stiftung  
Mercator  
Schweiz**



Universität  
Zürich<sup>UZH</sup>

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# An Introduction to Artificial Intelligence Science Fiction vs. Science Fact

Abraham Bernstein

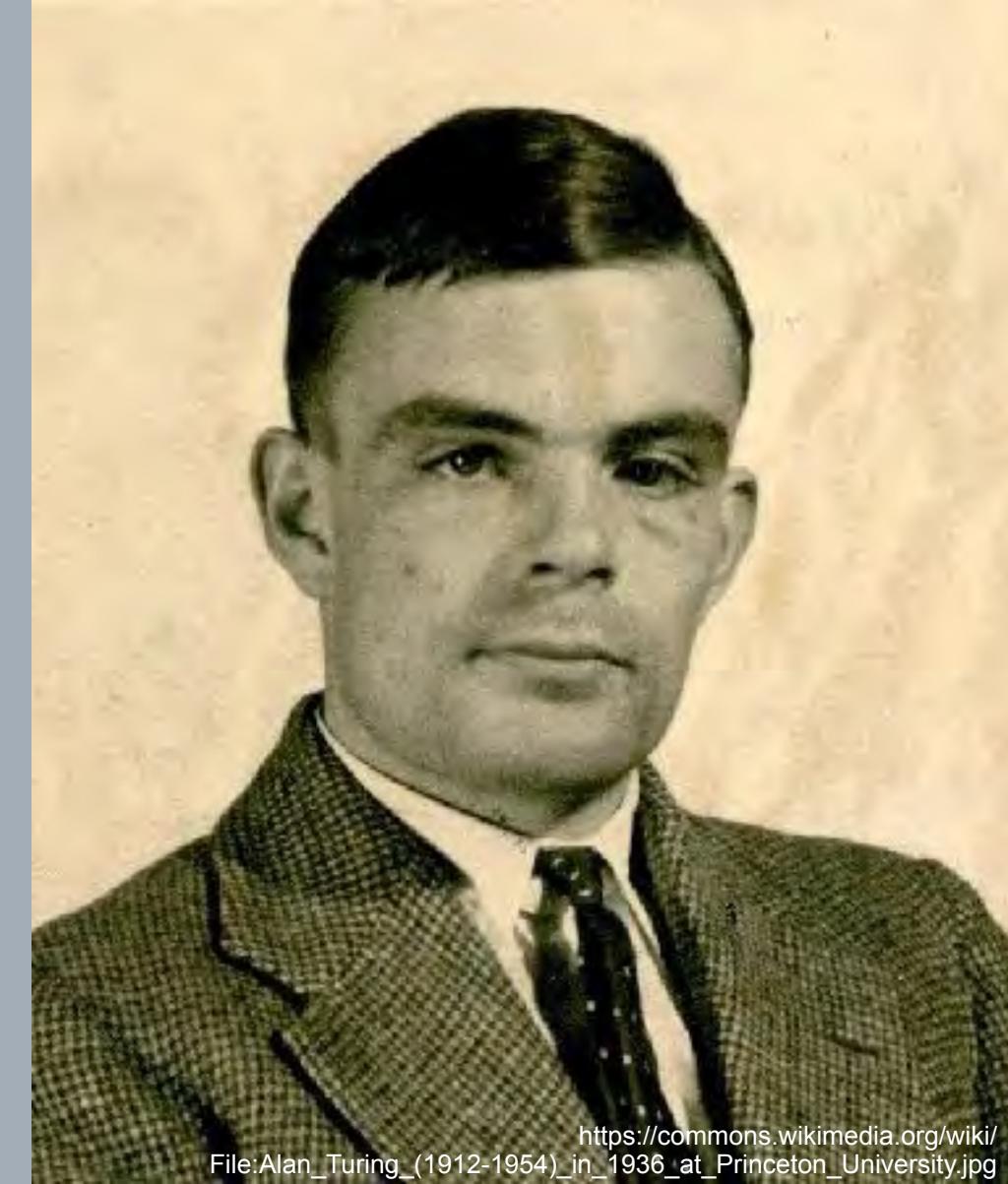
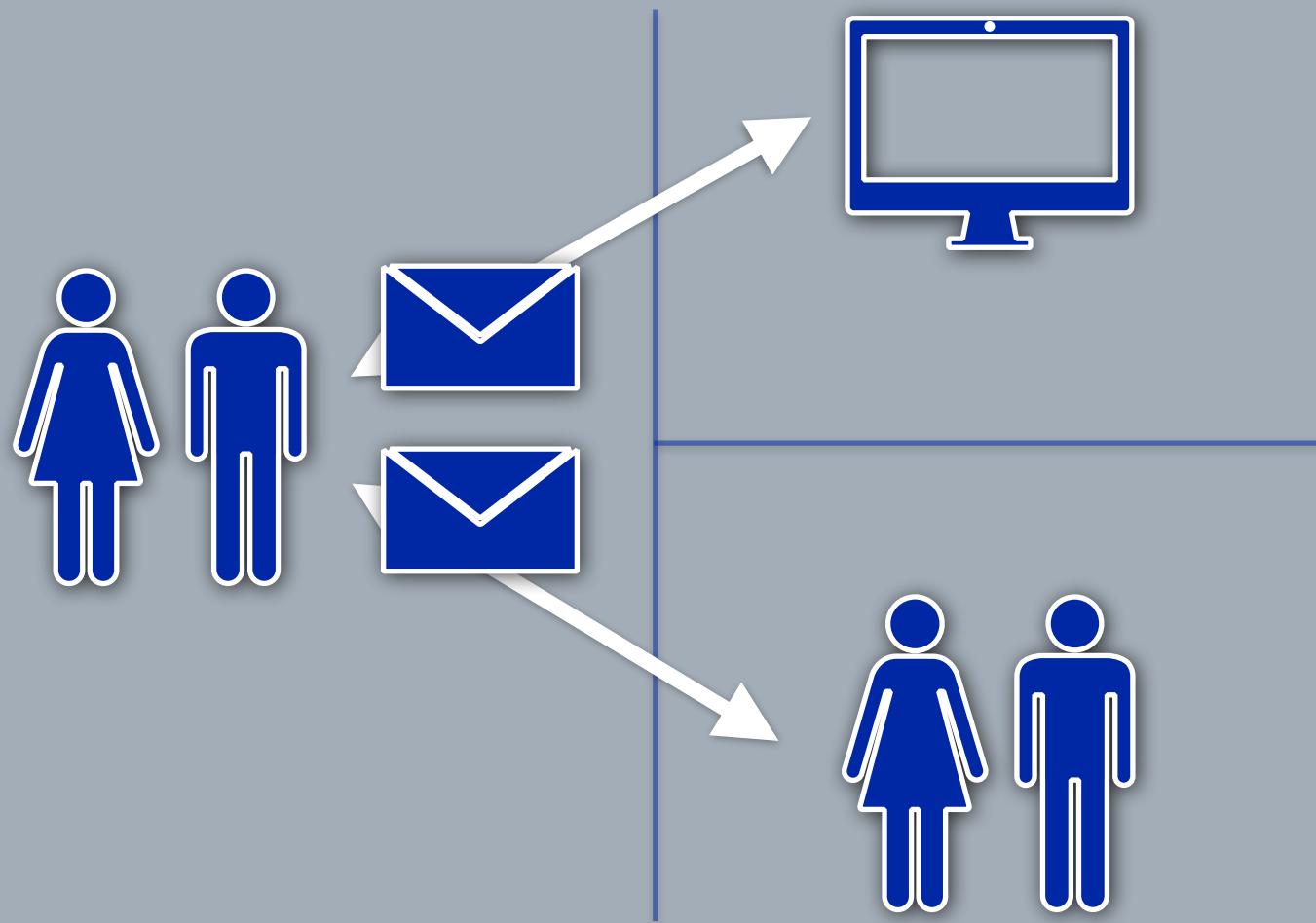


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## Turing Test





## Turing Test

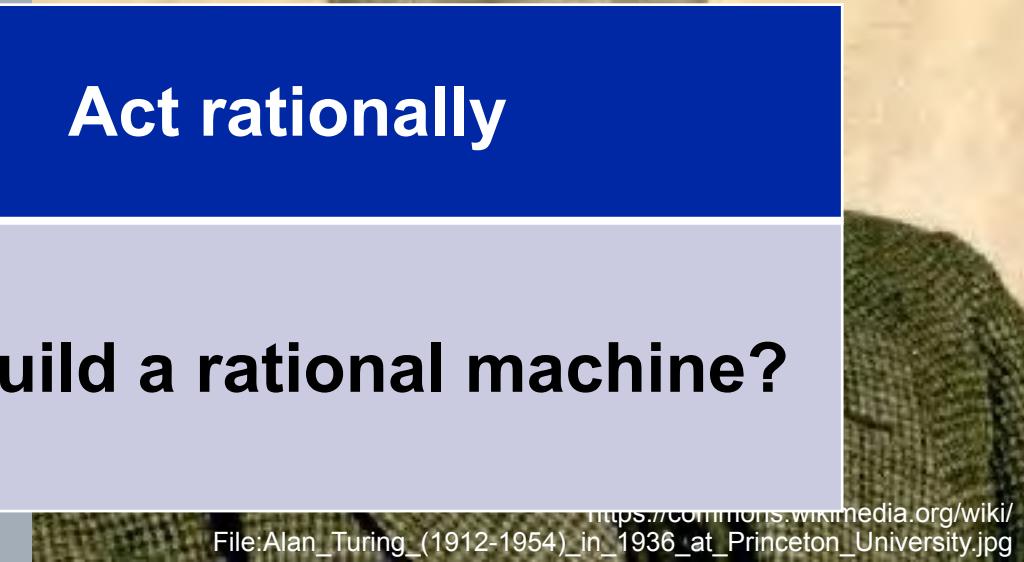


*Turing Test*  
Can I simulate human action?



Act rationally

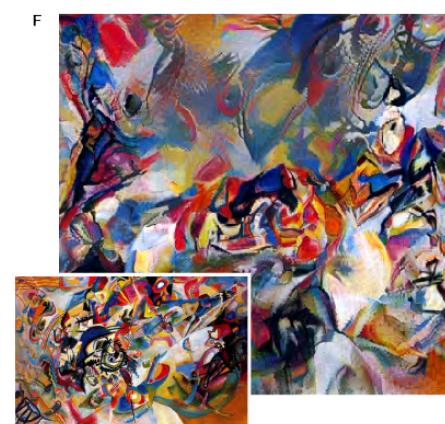
Can I build a rational machine?



# Deduction



# Induction

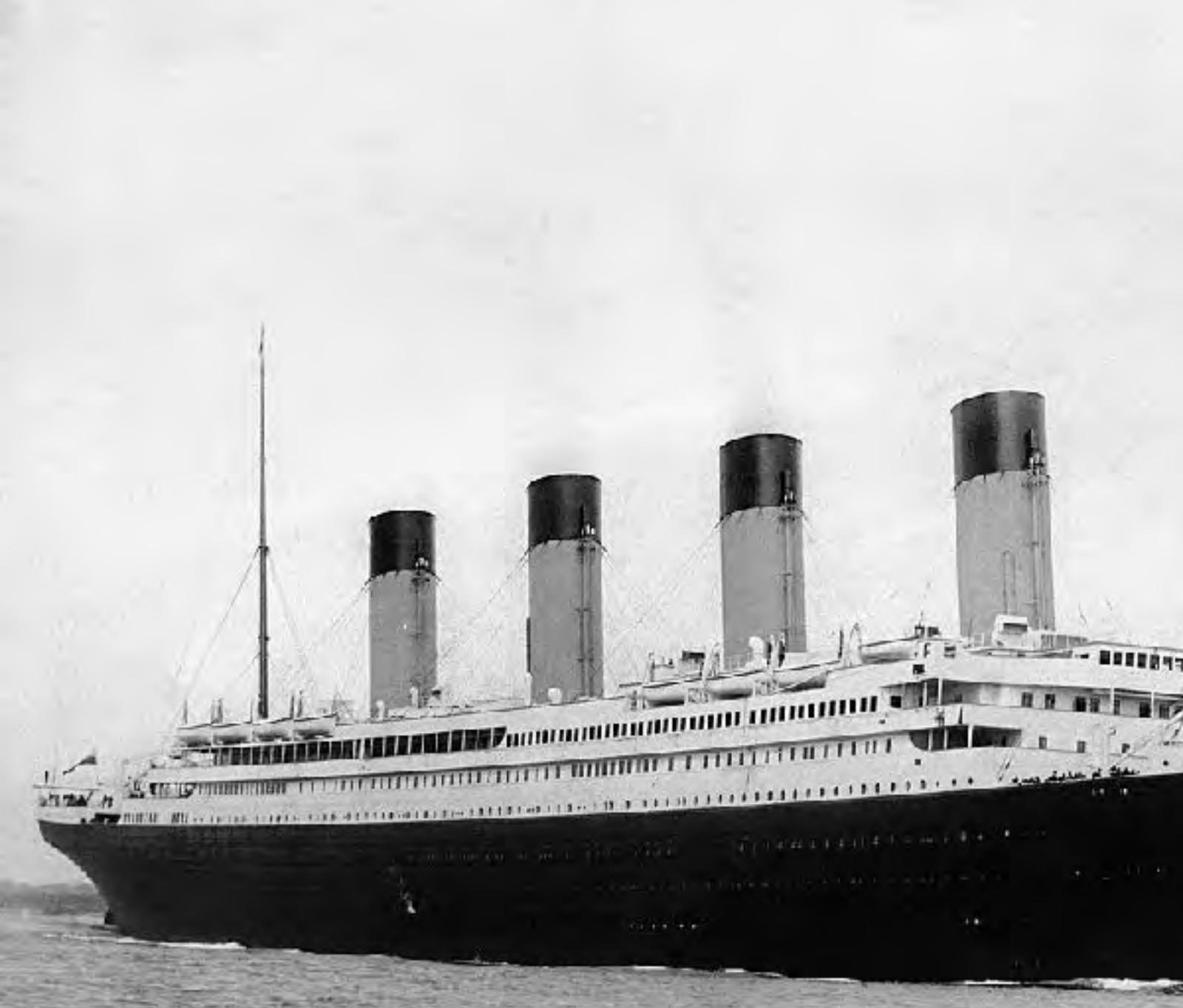


# Analogy



# Inductive Reasoning

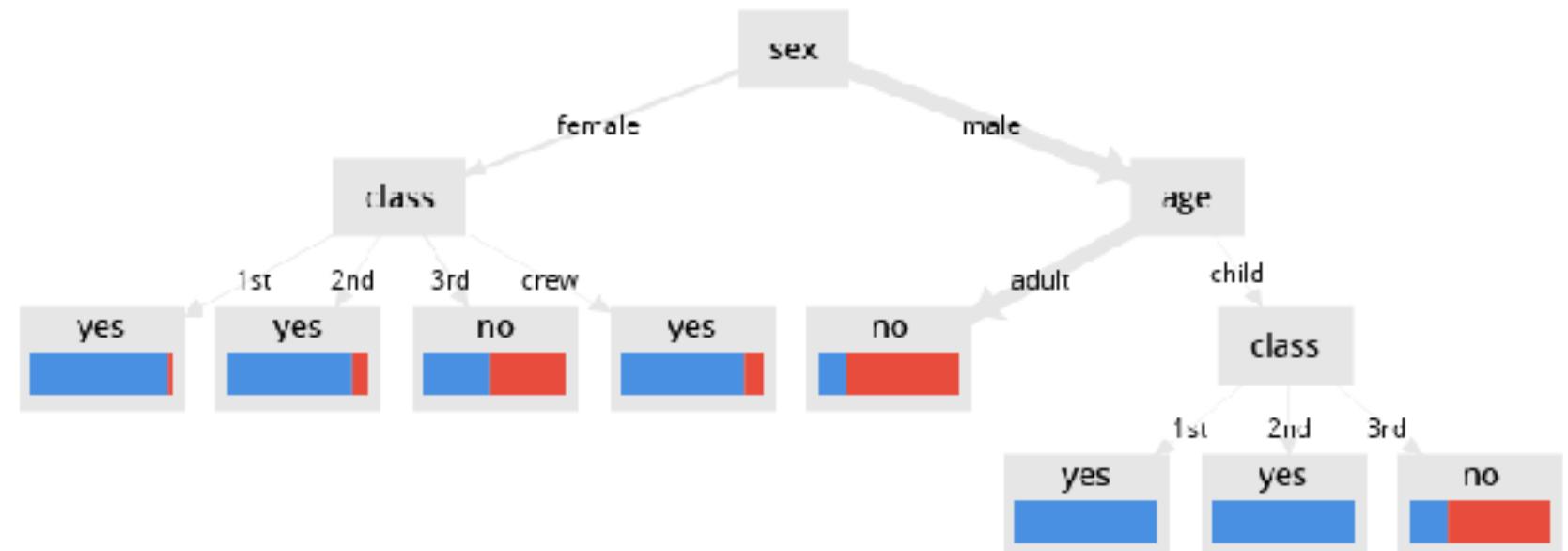




Passenger	class	age	sex	survived
1	1st	adult	male	yes
2	1st	adult	male	yes
3	1st	adult	male	yes
4	1st	adult	male	yes
5	1st	adult	male	yes
...	...	...	...	...
2194	crew	adult	female	yes
2195	crew	adult	female	yes
2196	crew	adult	female	yes
2197	crew	adult	female	yes
2198	crew	adult	female	yes
2199	crew	adult	female	no
2200	crew	adult	female	no
2201	crew	adult	female	no

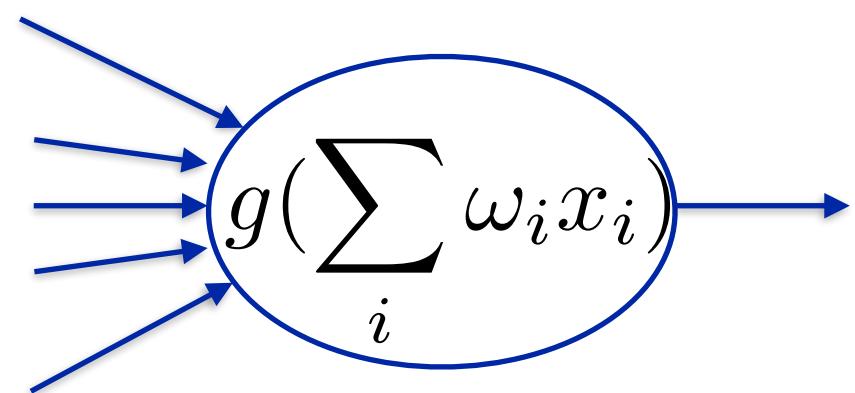
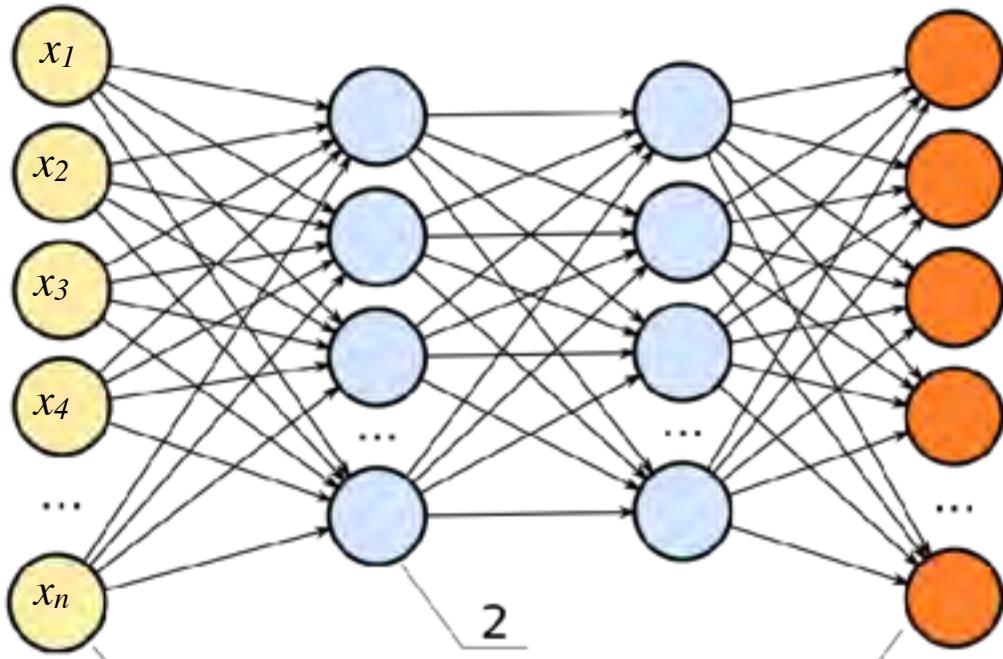


## Split Data Based on Interestingness: Decision Trees

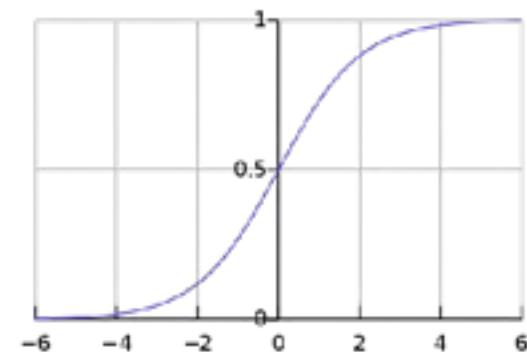




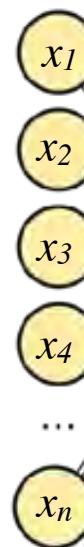
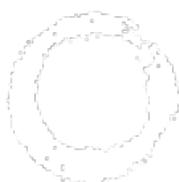
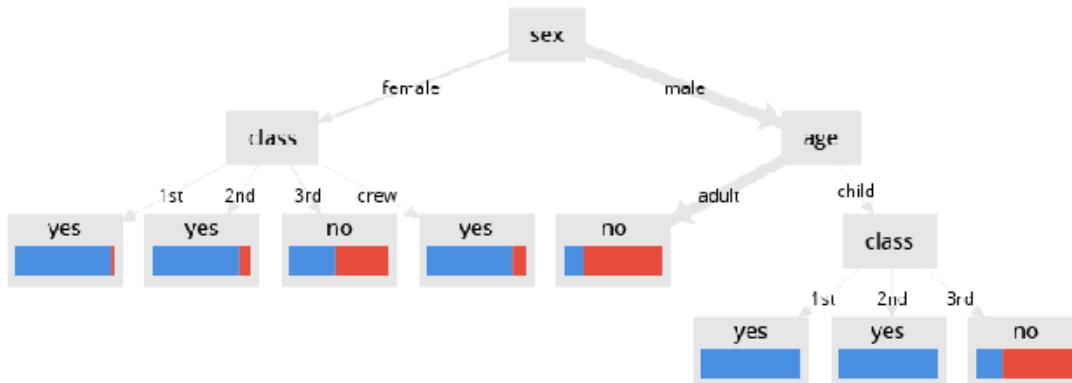
## Get Inspired by Nature: Neural Networks



$$y_i = \omega_0 + \omega_1 x_{1,i} + \dots + \omega_n x_{n,i} + \epsilon_i$$



# Transparency?



Node 1 (Sigmoid)	class = crew: 0.309	Node 2: -0.605
	age = adult: 0.796	Node 3: -3.760
	age = child: -0.820	Node 4: -1.499
	sex = male: 2.422	Node 5: -1.194
	sex = female: -2.413	Node 6: -0.555
	Bias: -4.122	Threshold: 3.439
-----	-----	-----
Node 5 (Sigmoid)	Class 'no' (Sigmoid)	
	class = 1st: -1.015	Node 1: -2.034
	class = 2nd: 3.839	Node 2: 0.605
	class = 3rd: -1.629	Node 3: 3.760
	class = crew: 3.143	Node 4: 1.499
	age = adult: 1.828	Node 5: 1.194
	age = child: -1.782	Node 6: 0.555
	sex = male: -0.188	Threshold: -3.439
	sex = female: 0.189	
	Bias: -2.219	
-----	-----	-----
Node 2 (Sigmoid)	class = 1st: 2.339	Node 1: 2.034
	class = 2nd: 1.930	Node 2: 0.605
	class = 3rd: 0.574	Node 3: 3.760
	class = crew: -0.088	Node 4: 1.499
	age = adult: 0.702	Node 5: 1.194
	age = child: -0.736	Node 6: 0.555
	sex = male: 1.361	Threshold: -3.439
	sex = female: -1.336	
	Bias: -2.412	
-----	-----	-----
Node 6 (Sigmoid)	class = 1st: 0.845	Node 1: 2.034
	class = 2nd: 3.572	Node 2: 0.605
	class = 3rd: -0.611	Node 3: 3.760
	class = crew: -0.521	Node 4: 1.499
	age = adult: -0.322	Node 5: 1.194
	age = child: 0.312	Node 6: 0.555
	sex = male: 0.540	Threshold: -3.439
	sex = female: -0.610	
	Bias: -1.616	
-----	-----	-----
Node 3 (Sigmoid)	class = 1st: -2.793	Node 1: 2.034
	class = 2nd: -3.056	Node 2: 0.605
	class = 3rd: 5.963	Node 3: 3.760
	class = crew: -1.880	Node 4: 1.499
	age = adult: 1.930	Node 5: 1.194
	age = child: -1.902	Node 6: 0.555
	sex = male: 2.504	Threshold: -3.439
	sex = female: -2.546	
	Bias: 0.811	
-----	-----	-----
Node 4 (Sigmoid)	Class 'yes' (Sigmoid)	
	class = 1st: 1.040	Node 1: 2.034
	class = 2nd: 1.941	Node 2: 0.605
	class = 3rd: 4.920	Node 3: 3.760
	-	Node 4: 1.499
	-	Node 5: 1.194
	-	Node 6: 0.555
	-	Threshold: -3.439

# Question #1

How transparent and  
understandable do decisions need  
to be??



Die Bundesversammlung – Das Schweizer Parlament  
Curia Vista – Die Geschäftsdatenbank

19.498 Parlamentarische Initiative

**Öffentliche und transparente Abstimmungen im Ständerat**

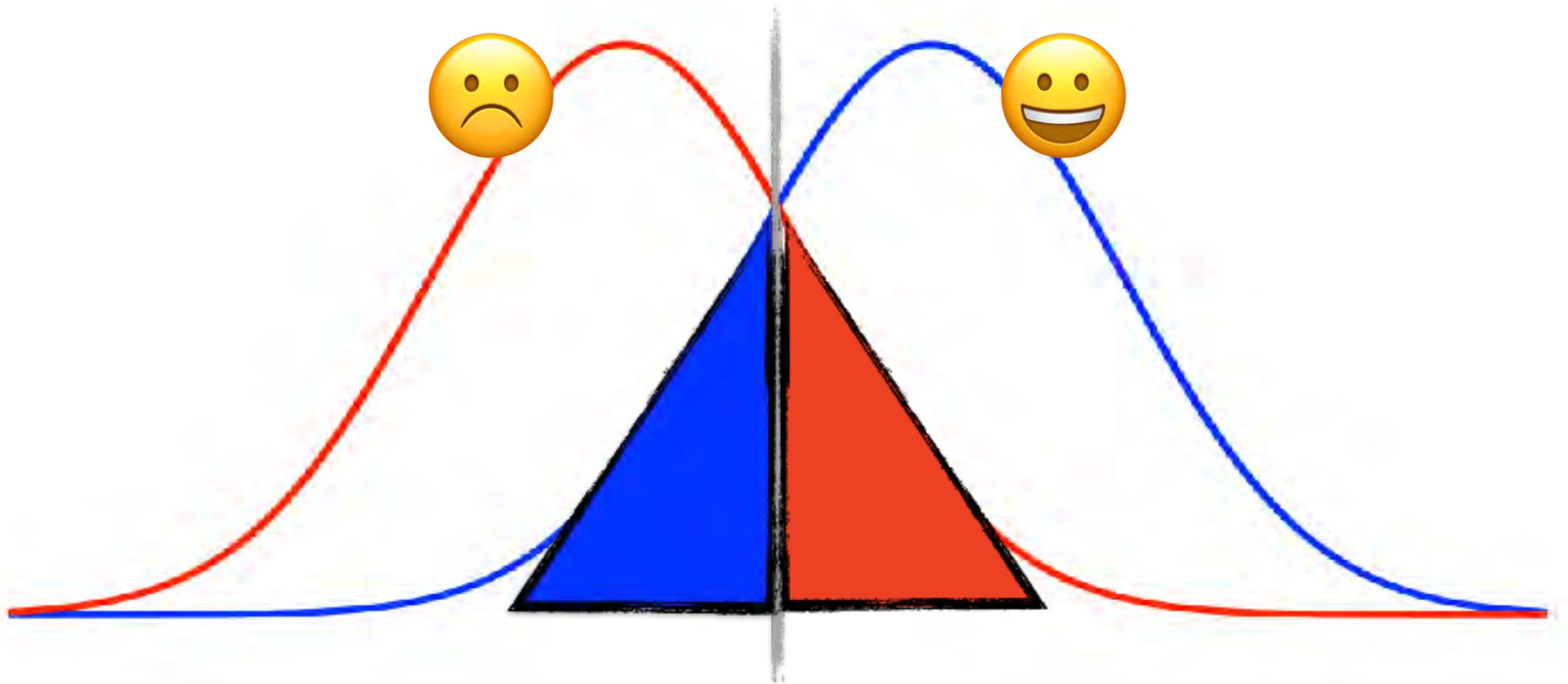
Eingereicht von:

Minder Thomas

Fraktion der Schweizerischen Volkspartei  
parteilos



## Correct?



# Question #2

How correct does AI need to be?



Patients who got this treatment also had the following treatments ...



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Bias?

# Chicago Daily Tribune

November 3, 1948

## Dewey Defeats Truman

Thomas Dewey

Harry S Truman

## Question #3

What kind of bias is  
acceptable?

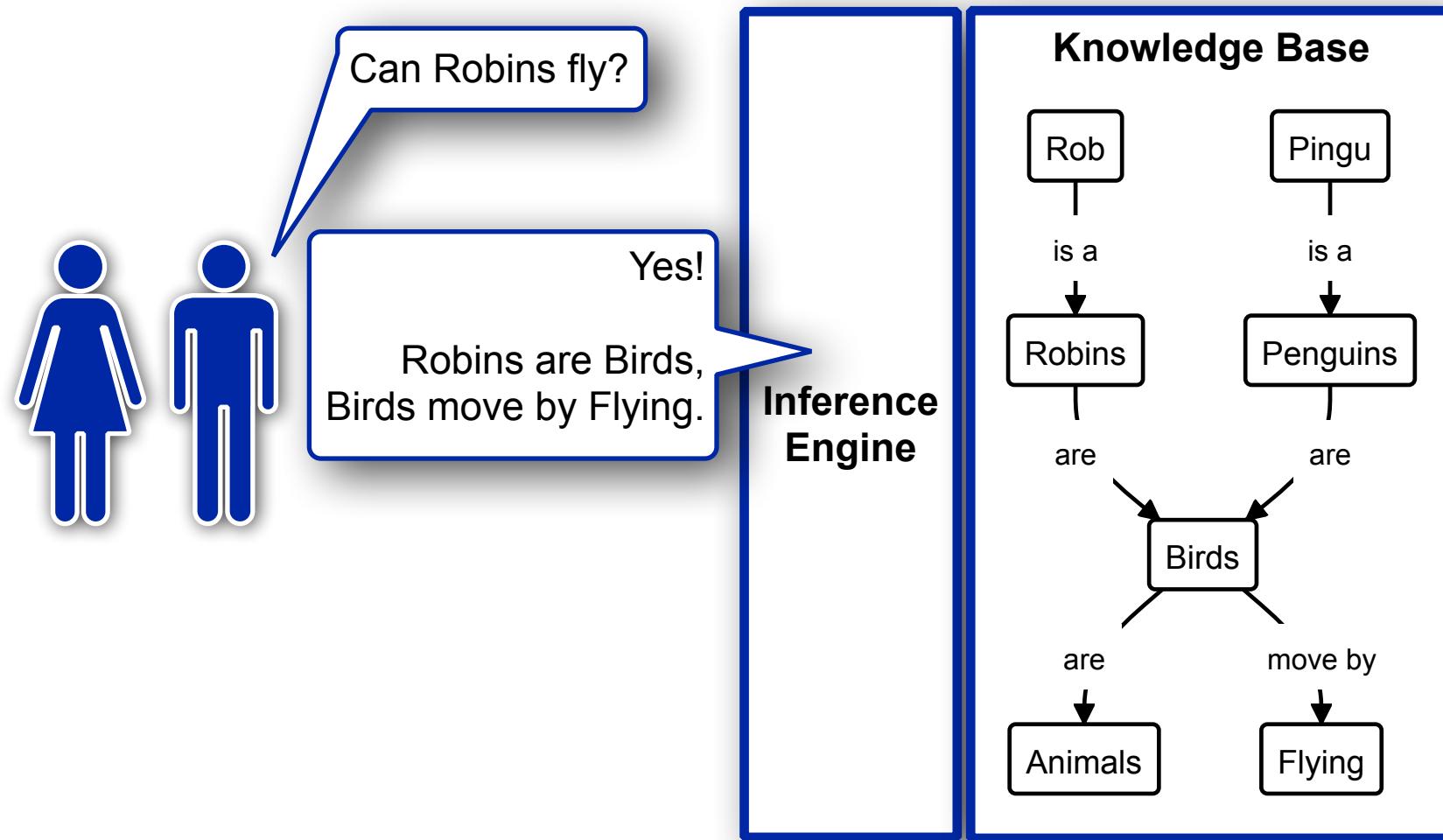
Where is the threshold  
between acceptable bias and  
discrimination?

# Deductive Reasoning

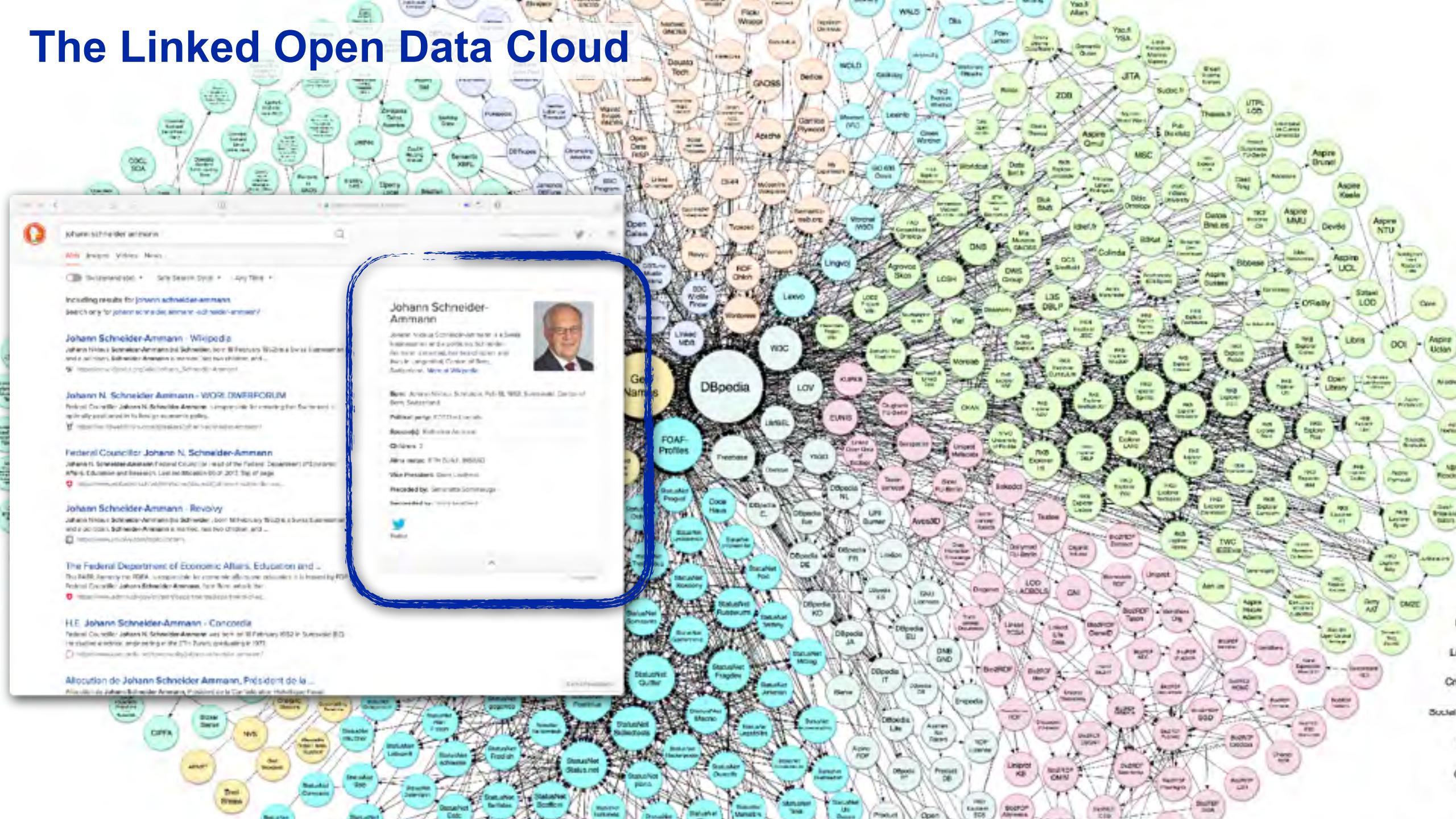




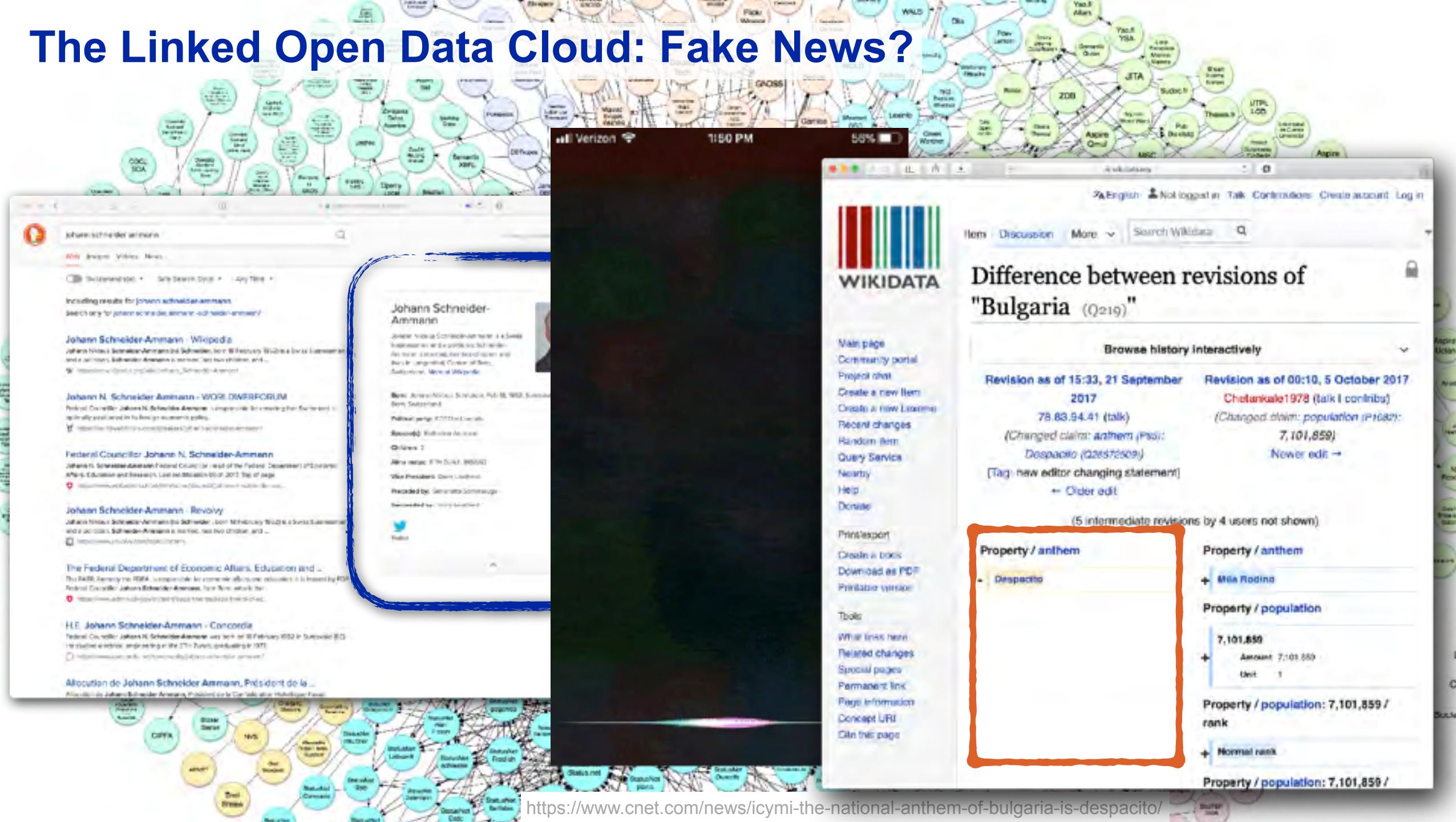
## Reasoning with Knowledge



# The Linked Open Data Cloud



# The Linked Open Data Cloud: Fake News?



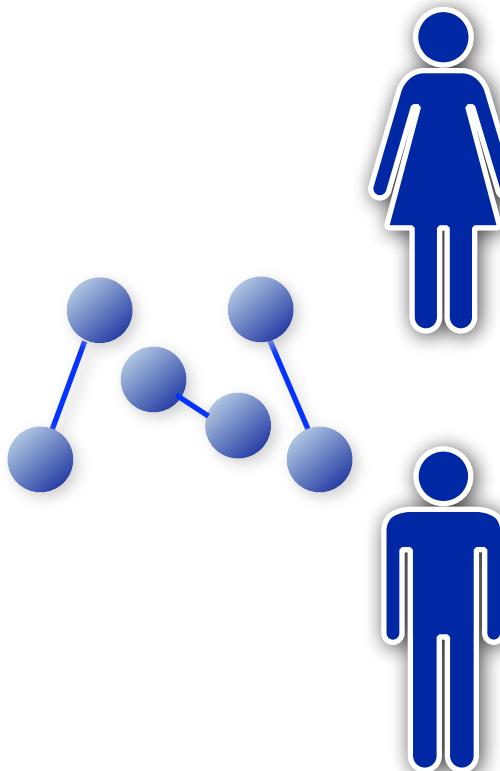
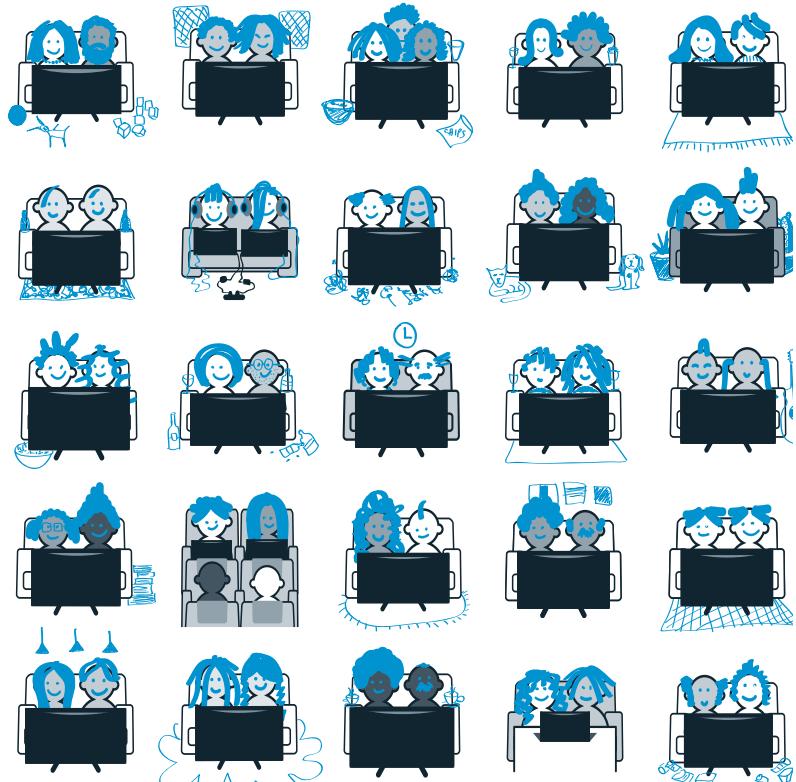
Question #4  
Who is accountable for  
mistakes?

# Analogical Reasoning



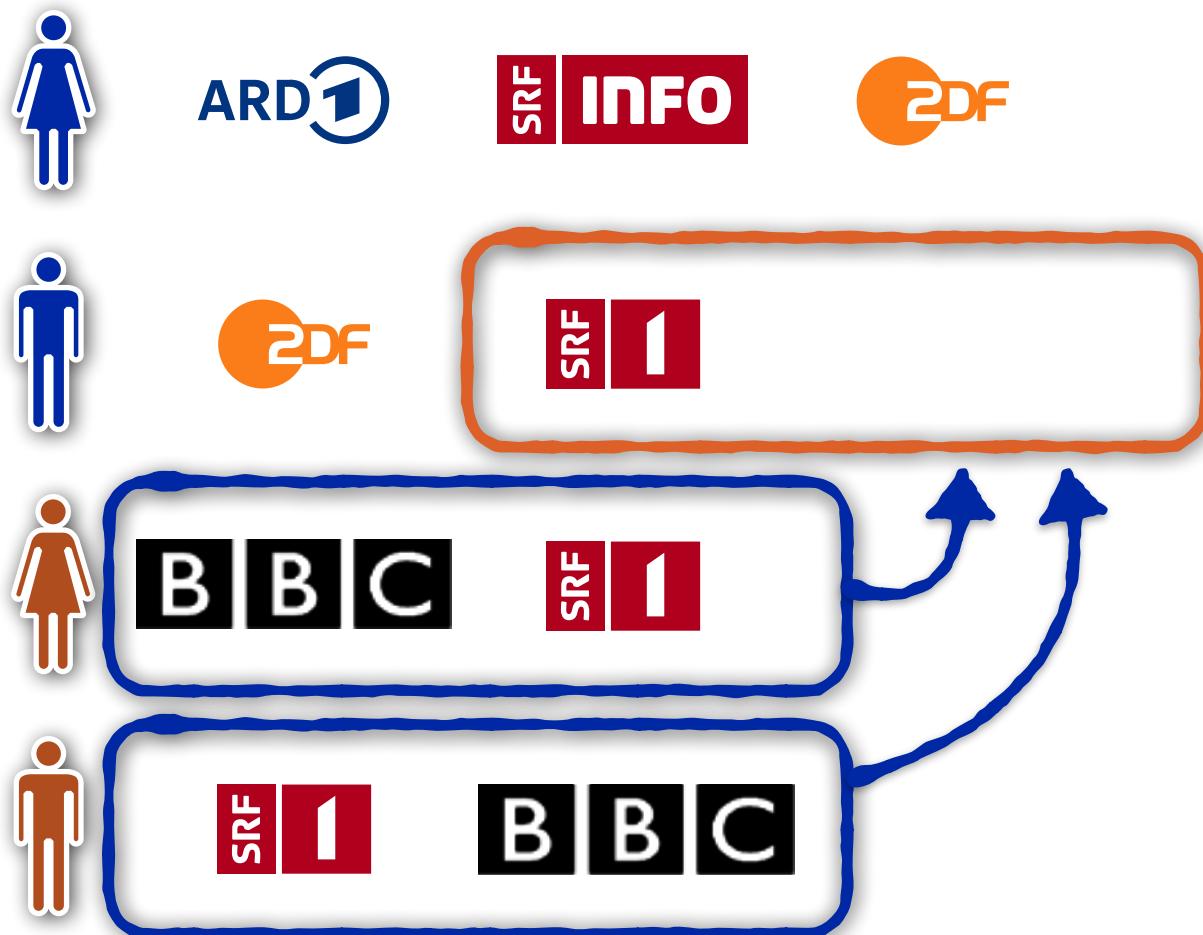


## Watching TV ...



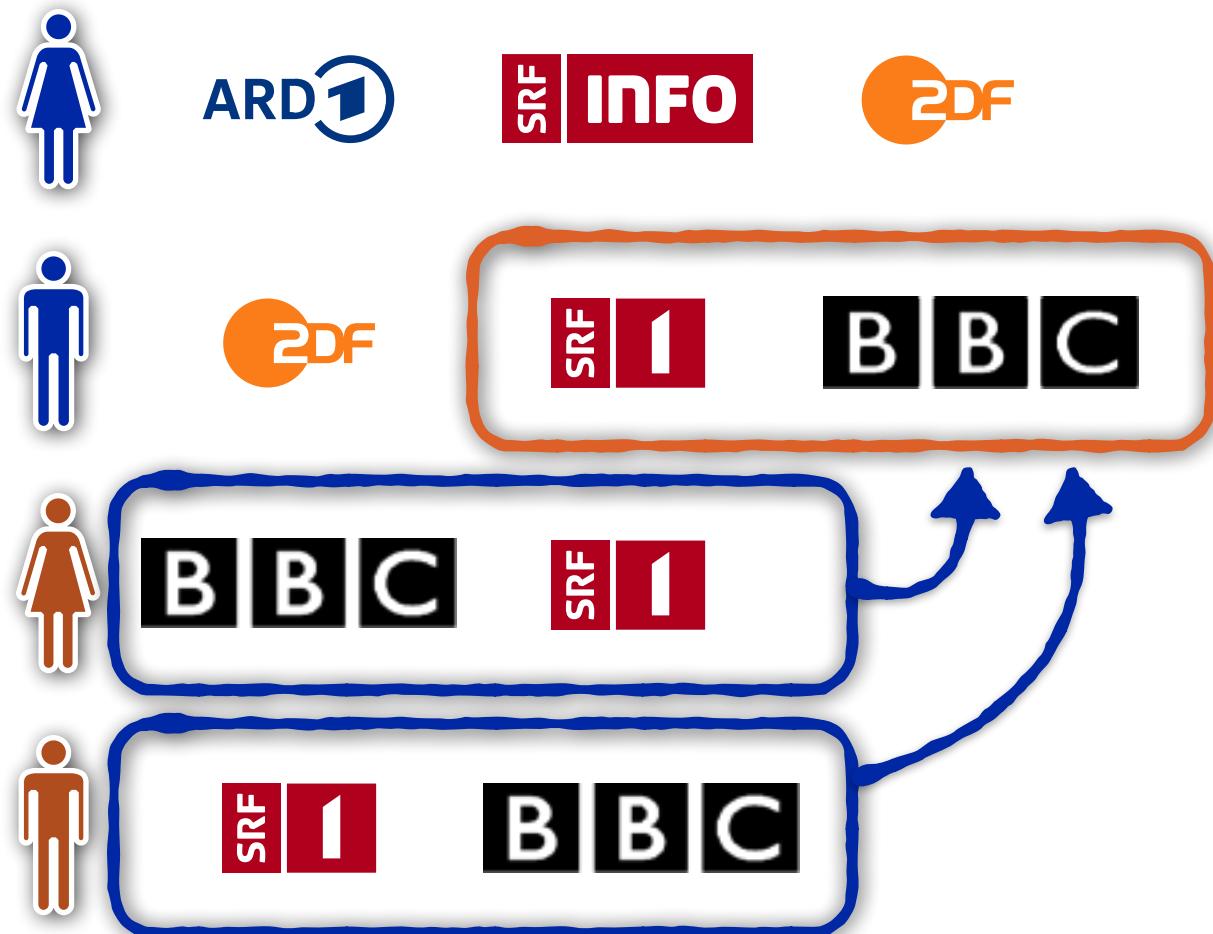


## How do I reason with analogies?





## How do I reason with analogies?



## Question #5

How do we identify desirable norms?

# Question #6

How do we deal with  
cultural differences?



## So how do we safeguard against these threats?

The screenshot shows a web page with a light blue background featuring abstract geometric shapes like triangles and circles. At the top left is the AlgorithmWatch logo with a stylized 'A' icon. A search bar is at the top right. The main title 'AI Ethics Guidelines Global Inventory' is centered in large, bold, black font. Below it, a sub-section title 'The way automated decision-making (ADM) systems should be regulated is hotly disputed. Recent months have seen a flurry of frameworks and principles that seek to set out principles of how ADM systems can be developed and implemented ethically.' is followed by a link 'such as the report by the House of Lords in the UK'. Further down, another section discusses the 'AlgorithmWatch AI Ethics Guidelines Global Inventory' and its findings.

Please use the [form below](#) to submit.

The way automated decision-making (ADM) systems should be regulated is hotly disputed. Recent months have seen a flurry of frameworks and principles that seek to set out principles of how ADM systems can be developed and implemented ethically. There are governmental initiatives (such as the [report by the House of Lords in the UK](#)) and supra-national efforts ([such as the EU commission's High Level Expert Group](#) – see our comments on the draft [here](#) and a report on the final version [here](#)). The private and civil sectors have also not been idle.

With our AlgorithmWatch **AI Ethics Guidelines Global Inventory**, we started to map the landscape of these frameworks. They vary in content and detail, but we found a few common traits:

- All include the similar principles on transparency, equality/non-discrimination, accountability and safety. Some add additional principles, such as the demand for AI be socially beneficial and protect human rights.
- Most frameworks are developed by coalitions, or institutions such as universities that then invite companies and individuals to sign up to these.
- Only a few companies have developed their own frameworks.
- Almost all examples are voluntary commitments. There are only three or four examples that indicate an oversight or enforcement mechanism.
- Apart from around 10 documents, all were published in 2018 or 2019 (some did not have a date).
- Overwhelmingly, the declarations take the form of statements, e.g. “we will ensure our data sets are not biased”. Few include recommendations or examples of how to operationalise the principles.

Our overview is certainly not complete; it is supposed to be a starting point. We assume there exist many more such guidelines that we are not aware of – due to our lack of language skills, or simply because they have not been widely announced.

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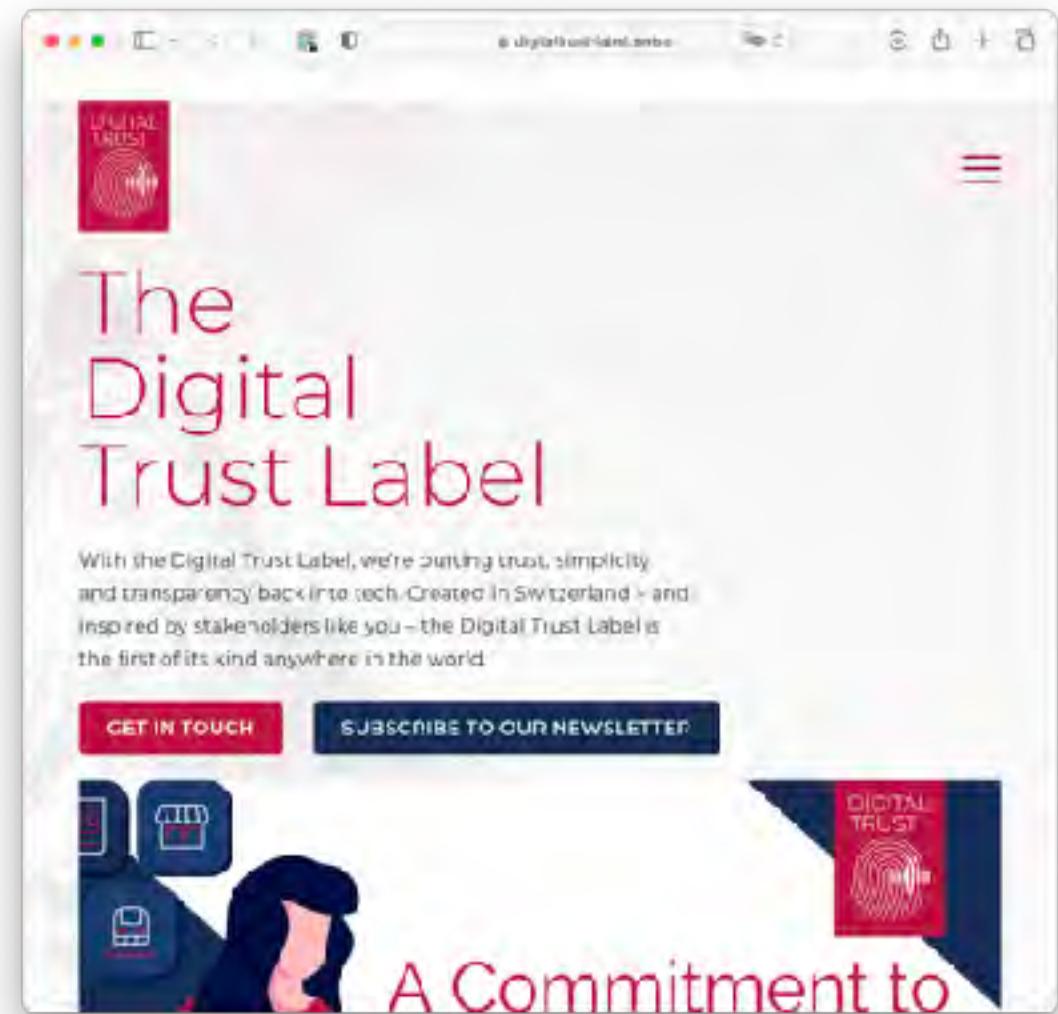
## Examples for Industry (Self-)Regulation



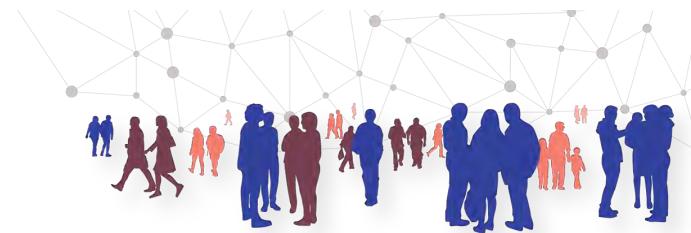
The four promises to customers in Zurich's data pledge are to:

- Keep their data safe
- Never sell their personal data
- Not share their personal data without being transparent about it
- Put their data to work so Zurich can better protect them, and so they can get the most out of life.

<https://www.zurich.com/en/media/news-releases/2019/2019-0903-01>



<https://digitaltrust-label.swiss/>



# A Swiss Legal Framework

- Switzerland is not bound by the EU's requirements and any Council of Europe requirements will give member states discretion to design their national so
- Sw dev

Mehr dazu im  
nächsten Vortrag

<https://www.dsi.uzh.ch/research-strategy.html>

The cover features the University of Zurich logo at the top left, followed by the text "University of Zurich™" and "Digital Society Initiative". Below this is the title "Position Paper" and "A Legal Framework for Artificial Intelligence". The background of the cover shows a group of stylized human figures in various colors (blue, red, grey) standing in a network-like arrangement.

**Abstract:** The great technical advances in artificial intelligence (AI) and the use of these technologies in various areas raise fundamental questions about their impact on individuals and society. The term artificial intelligence sometimes evokes misleading associations and diffuse fears. From a technical perspective, it is an established collective term that encompasses a range of technologies that make automated decisions, recommendations, conclusions or predictions. AI includes knowledge-based systems, statistical methods and machine learning approaches (e.g., using neural networks). The high performance of these technologies is mainly based on the combination of a large number of mathematical optimizations that extract structures from significant amounts of data using large computing capacities.

To avoid misleading associations, we do not use the term AI in this position paper but rather speak of "algorithmic systems". This term does not refer to specific current or future technologies but to applying these technologies in a social context. The need for legal coverage only arises when technologies are used and affect individuals and/or society. The term "algorithmic systems" also allows us to cover applications with the same

**Authors:** Florent Thouverin, Markus Christen, Abraham Bernstein, Nadja Braun Binder, Thomas Burri, Karsten Donnay, Lena Kiger, Mariola Jaffé, Michael Krauthammer, Melinda Lohmann, Anna Mätzner, Sophie Mütsel, Liliane Obrecht, Nicole Ritter, Matthias Spiekamp, Stephanie Volz

This position paper was developed during a workshop held in Balsthal from 26 – 28 August 2021 and funded by the Strategy Lab of the Digital Society Initiative (DSI) at the University of Zurich. In addition to the authors of this paper, three representatives of the federal administration also participated in this workshop, namely Monique Cossali Saunain (FDI), Roger Duhach (FDFA) and Thomas Schneider (OFCOM). They represent Switzerland in the Council of Europe Ad Hoc Committee on Artificial Intelligence (CAHAI).

Further information: [dsi.uzh.ch/strategy-lab](http://dsi.uzh.ch/strategy-lab)

# Reflection

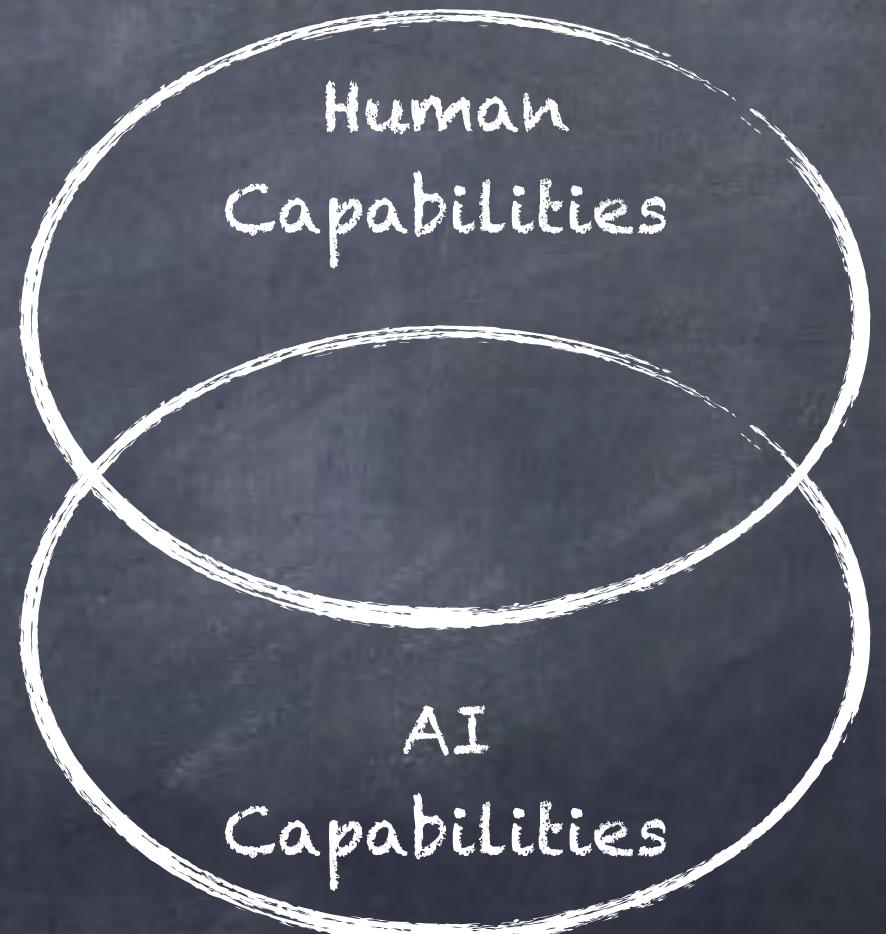
The core question here is  
neither what is  
nor what could be  
but what should be.

# Concluding Thought I

AI has huge potential!

Many AI challenges are not  
technical but organizational!

# Substitution of Human Work



# Substitution

Brynjolfsson et al '23 about *customer support agents*:

- **14% productivity increases** (issues resolved / hour)
- **34% improvement for novice & low-skilled workers**
- **durable learning**
- but with **minimal impact on experienced and highly skilled workers.**

Eloundou, et al. 2023:

- **science and critical thinking skills** are strongly negatively associated with exposure .. less likely to be impacted by current LLMs.
- Conversely, **programming and writing skills** show a strong positive association with exposure ...

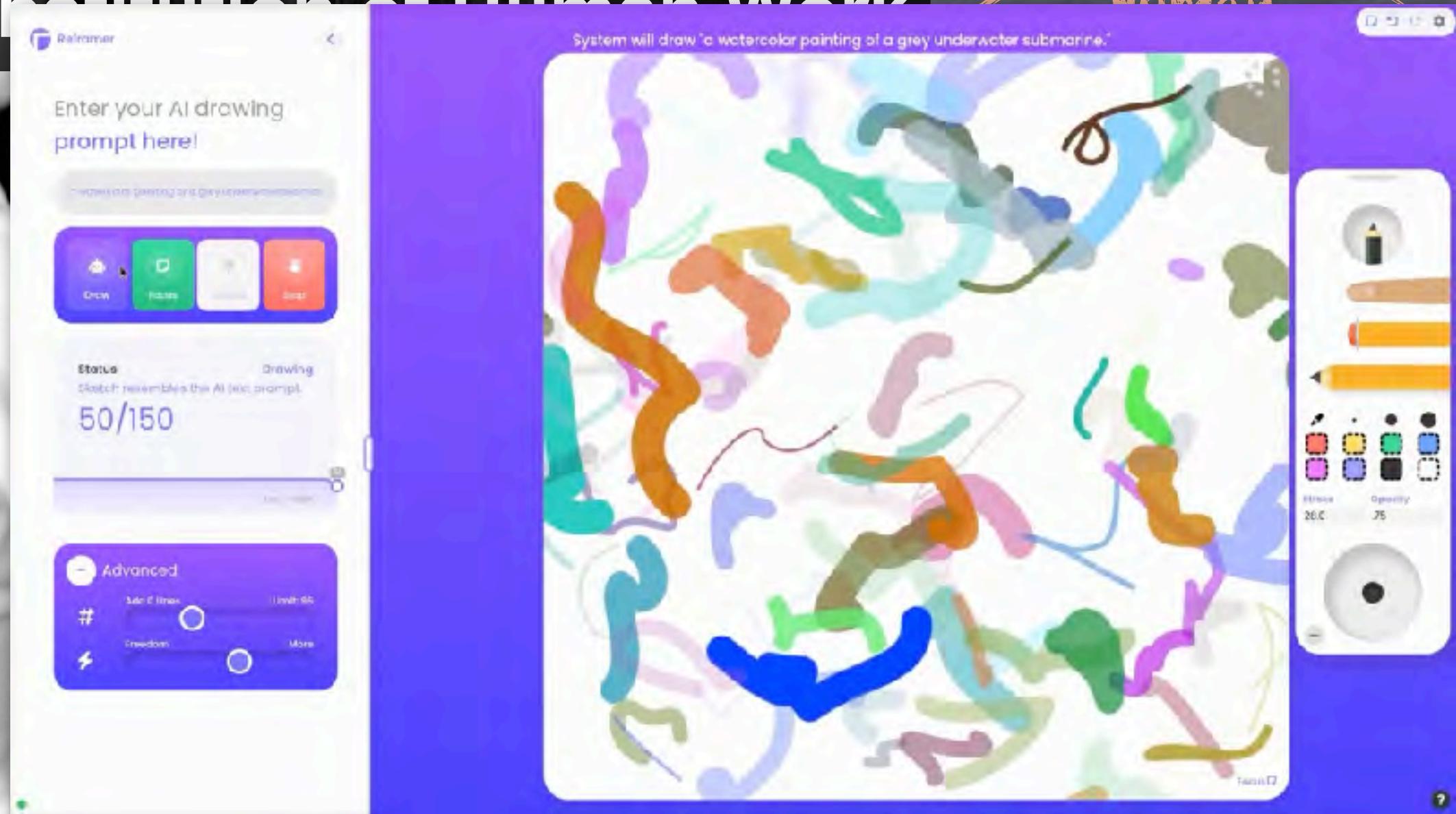
Peng et al, 2023 (experimental study):

- **less experienced programmers benefit more**

Ziegler et al, 2024 (professional developers):

- Copilot **positively impacts productivity** (task time, quality, cognitive load, enjoyment) regardless of skill level
- Copilot **provides inspiration**/starting point for future exploration

# Substitution of Human Work



Tomas Lawton, Francisco J Ibarrola, Dan Ventura, and Kazjon Grace. 2023. Drawing with Reframer: Emergence and Control in Co-Creative AI. In *Proceedings of the 28th International Conference on Intelligent User Interfaces (IUI '23)*. Association for Computing Machinery, New York, NY, USA, 264–277. <https://doi.org/10.1145/3581641.3584095>

# Concluding Thought II

AI has huge potential!

How will you use it?

Substitutive, augmentative, or  
transformative?



- Transparency
- Correctness
- Bias/Fairness
- Liability
- Privacy vs. Quality
- Cultural Differences
- Regulation?
- Usage Style



# Die digitale Verwaltung: Was kann sie? Was darf sie?

Prof. Dr. Nadja Braun Binder

Digital Masterclass Kantonsrat ZH, 20.01.2025

# Agenda

- 1 Ausgangslage
- 2 KI – Herausforderungen für die kantonale Verwaltung
- 3 Rechtsetzungsbedarf identifizieren
- 4 Fazit

# 1. Ausgangslage



Amtsblatt der Europäischen Union DE Reihe L

2024/1689 12.7.2024

VERORDNUNG (EU) 2024/1689 DES EUROPÄISCHEN PARLAMENTS UND DES RATES

vom 13. Juni 2024

zur Festlegung harmonisierter Vorschriften für künstliche Intelligenz und zur Änderung der Verordnungen (EG) Nr. 300/2008, (EU) Nr. 167/2013, (EU) Nr. 168/2013, (EU) 2018/858, (EU) 2018/1139 und (EU) 2019/2144 sowie der Richtlinien 2014/90/EU, (EU) 2016/797 und (EU) 2020/1828 (Verordnung über künstliche Intelligenz)

(Text von Bedeutung für den EWR)

Details of Treaty No.225

COUNCIL OF EUROPE CONSEIL DE L'EUROPE EUROPARAT

Title	Council of Europe Framework Convention on Artificial Intelligence and Human Rights, Democracy and the Rule of Law
Reference	CETS No. 225
Opening of the treaty	Vilnius 05/09/2024 - Treaty open for signature by the member States, the non-member States which have participated in its elaboration and by the European Union, and for accession by other non-member States
Entry in force	(5 Ratifications including at least 3 member States of the Council of Europe)

Links: Handbuch des Europarates «The Administration and You» (3. Aufl.); EU: KI-Verordnung; Europarat: KI-Rahmenkonvention

# 1. Ausgangslage



Steuergesetz: § 148<sup>bis</sup>  
Veranlagung mithilfe von  
algorithmischen Systemen  
(in Kraft seit 1.1.2025)

## Kanton Zürich modernisiert Gesetz über Information und Datenschutz

Medienmitteilung 04.08.2023

Der Regierungsrat stärkt das Öffentlichkeitsprinzip und die Transparenz. Mit dem totalrevidierten Gesetz über die Information und den Datenschutz (IDG) schafft er eine Beauftragte oder einen Beauftragten für das Öffentlichkeitsprinzip. Er regelt die gesetzlichen Grundlagen zu offenen Behördendaten (Open Government Data, OGD) und fördert deren Publikation. Zudem enthält das IDG neu Regelungen zum Umgang mit künstlicher Intelligenz (KI).

## Strategie Digitale Schweiz 2025:

### Künstliche Intelligenz

Künstliche Intelligenz: Regulierung in der Schweiz und Einsatz von KI-Systemen in der Bundesverwaltung

Umsetzung des vom Bundesrat gewählten Ansatzes zur Regulierung von Künstlicher Intelligenz. Dieser Ansatz gewährleistet den Schutz von Grundrechten, Demokratie und Rechtsstaatlichkeit und fördert gleichzeitig gezielt die Innovations- und Wettbewerbsfähigkeit der Schweiz. Es

→ Auslegeordnung zu Regulierungsansätzen für KI im Januar 2025 erwartet

Links: Bericht Kanton ZH: [Einsatz Künstlicher Intelligenz in der Verwaltung](#); Bund: [Strategie Digitale Schweiz 2025](#)

# Agenda

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- 1 Ausgangslage
  - 2 KI – Herausforderungen für die kantonale Verwaltung
  - 3 Rechtsetzungsbedarf identifizieren
  - 4 Fazit
-

## 2. Herausforderungen

- Fehleranfälligkeit
- (fehlende) digital literacy zur Kontrolle der Outputs
- «Black box» machine learning – Sicherstellung der Nachvollziehbarkeit von KI-gestützten Entscheiden?
- Gefahr für Grundrechte
- Diskriminierende Resultate
- ...

## 2. Herausforderungen

Not Again! Two More Cases, Just this Week, of Hallucinated Citations in Court Filings Leading to Sanctions

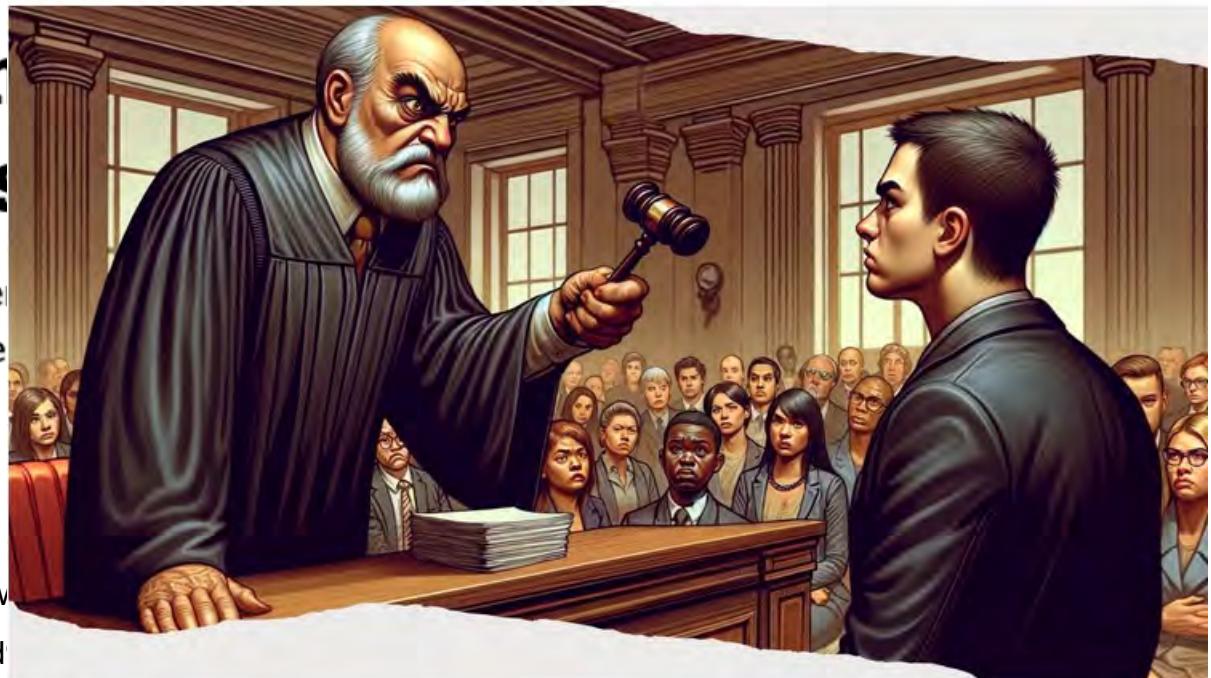
Frei erfundene Fälle zitiert

### Richter verurteilt AI-Posse zu einer Geldstrafe

Zwei New Yorker Anwälte zitieren in einer Urteilsrede einen Chatbot, der sie nicht eingestehen, dass diese 5000 Dollar zahlen.

23.06.2023, 16.23 Uhr

Quelle: <https://www.spiegel.de/netzwelt/web/new-york-court-sentences-chatgpt-posse-zu-einer-geldstrafe-a-38c8535e-d>



Beitrag vom 22.02.2024: <https://www.lawnext.com/2024/02/not-again-two-more-cases-just-this-week-of-hallucinated-citations-in-court-filings-leading-to-sanctions.html>

## 2. Herausforderungen

ChatGPT 3.5 ▾

NA

You

Wenn ein nasses Shirt 2 Stunden braucht, um an der Sonne zu trocknen, wie lange dauert es, bis 3 nasse Shirts trocken sind?



ChatGPT

Wenn ein nasses Shirt 2 Stunden braucht, um an der Sonne zu trocknen, bedeutet das, dass jedes Shirt individuell 2 Stunden zum Trocknen benötigt.

Um zu berechnen, wie lange es dauert, bis drei nasse Shirts trocken sind, multiplizieren wir die Zeit, die ein einzelnes Shirt zum Trocknen benötigt (2 Stunden), mit der Anzahl der Shirts (3):

2 Stunden/Shirt \* 3 Shirts = 6 Stunden

Also dauert es 6 Stunden, bis drei nasse Shirts trocken sind.



Prompt eingegeben am 05.03.2024

## 2. Herausforderungen

ChatGPT ▾

Wenn ein nasses Shirt 2 Stunden braucht, um an der Sonne zu trocknen, wie lange dauert es, bis 3 nasse Shirts trocken sind?



Wenn ein nasses Shirt 2 Stunden braucht, um an der Sonne zu trocknen, dann bedeutet das, dass die Zeit, die es benötigt, um zu trocknen, von den Umgebungsbedingungen wie Sonnenlicht und Temperatur abhängt, nicht von der Anzahl der Shirts. Wenn alle drei Shirts gleichzeitig unter den gleichen Bedingungen in der Sonne liegen, wird jedes Shirt gleichzeitig trocknen.

Das bedeutet:

- 1 nasses Shirt trocknet in 2 Stunden.
- 3 nasse Shirts trocknen auch in 2 Stunden, vorausgesetzt, sie liegen nebeneinander und alle sind gleichermaßen der Sonne ausgesetzt.

Also, es dauert ebenfalls 2 Stunden, bis 3 nasse Shirts trocken sind.



Prompt eingegeben am 12.06.2024

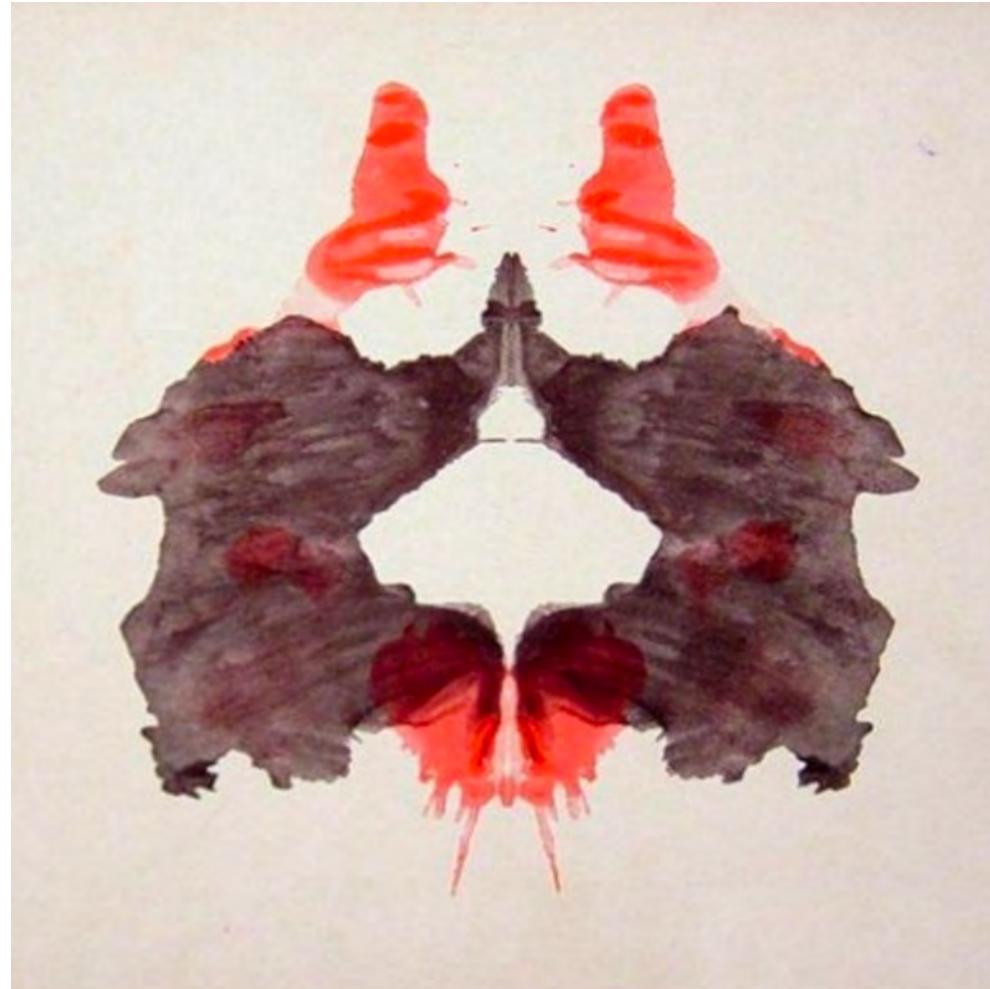
## **2. Herausforderungen**

Zentrale Frage für öffentliche Verwaltungen, insbesondere beim Einsatz von KI in Verwaltungsverfahren:

**§ 10 Abs. 1 Verwaltungsrechtspflegegesetz (VRG) ZH**  
«Schriftliche Anordnungen sind zu begründen (...)»

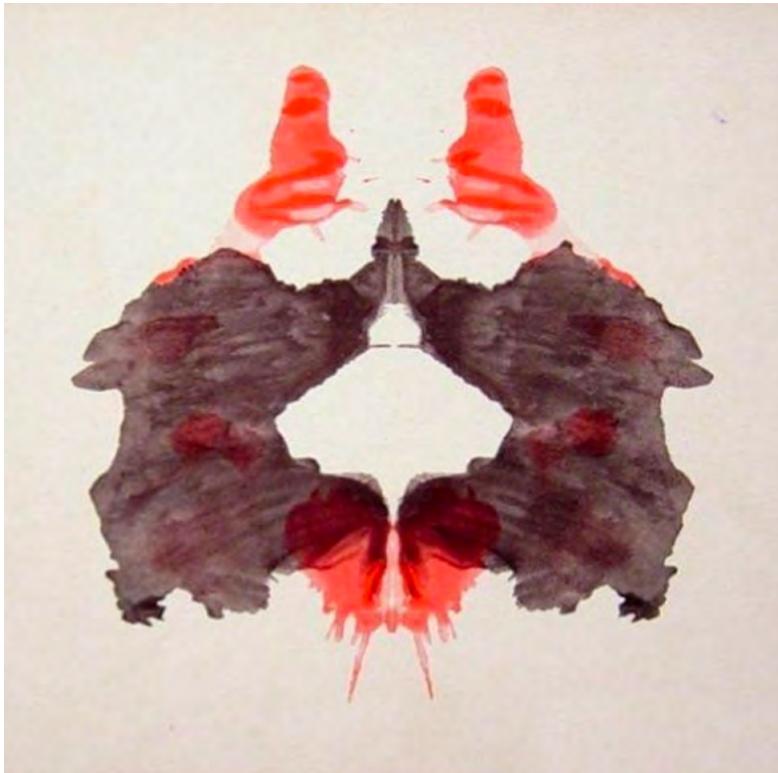
→ Wie kann angesichts der «Black Box»-Problematik die  
**Nachvollziehbarkeit von KI-gestützten  
Behördenentscheidungen** sichergestellt werden?

## 2. Herausforderungen



Quelle:  
<https://www.bbc.com/news/technology-44040008>

## 2. Herausforderungen

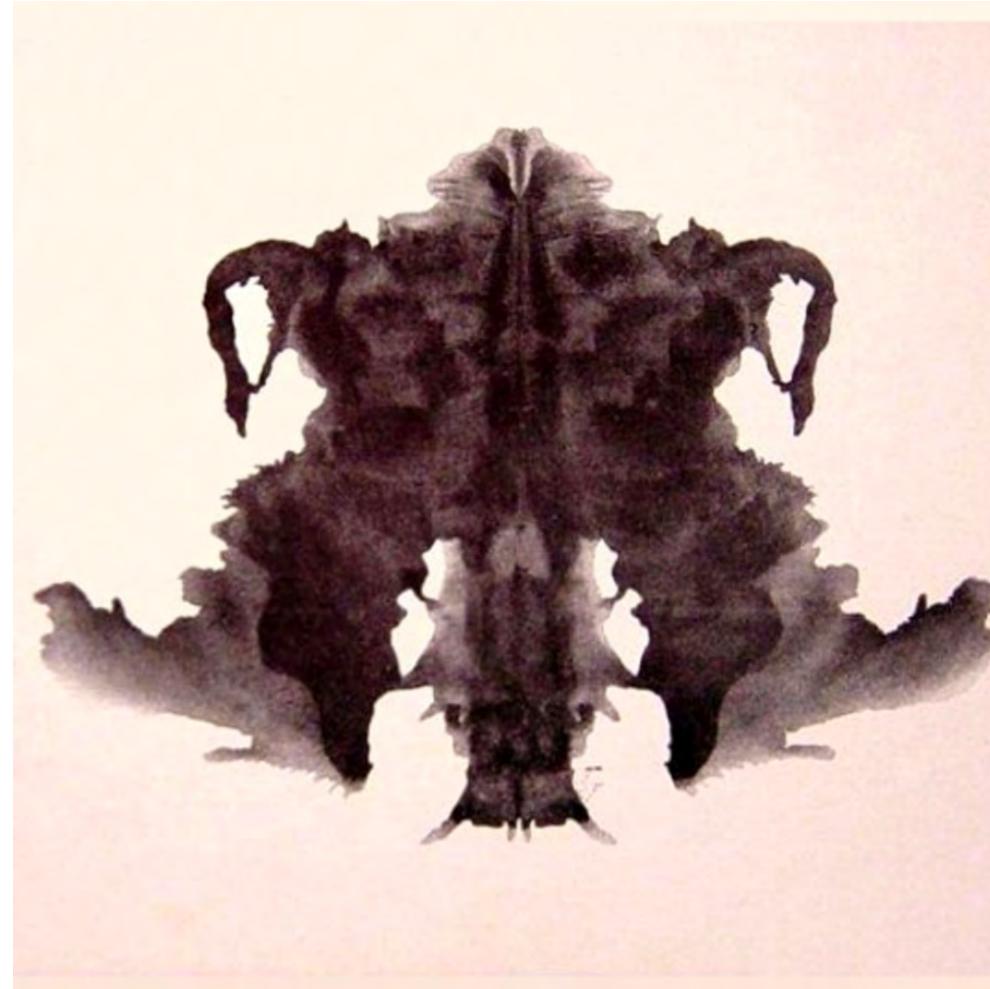


**Regular AI saw:**  
**“a close up of a vase with flowers”**

**Norman saw:**  
**“a man is shot dead”**

Quelle:  
<https://www.bbc.com/news/technology-44040008>

## 2. Herausforderungen



Quelle:  
<https://www.bbc.com/news/technology-44040008>

## 2. Herausforderungen



**Regular AI saw:**  
**“a black and white photo  
of a small bird”**

**Norman saw:**  
**“man gets pulled into  
dough machine”**

Quelle:  
<https://www.bbc.com/news/technology-44040008>

# 2. Herausforderungen

## Beispiel «AMS»



NETZPOLITIK 17.10.2018

Der AMS-Algorithmus ist ein „Paradebeispiel für Diskriminierung“

Ein Computerprogramm soll ab 2019 die Arbeitsmarktchancen von Arbeitslosen berechnen. Experten von der TU und WU Wien schlagen Alarm.

von Barbara Wimmer

<https://bit.ly/31oY7C1>

## Können Algorithmen diskriminieren?

Wiebke Fröhlich, Indra Spiecker genannt Döhmann  
Mi 26 Dez 2018

### Das AMS-Arbeitsmarktc Chancen-Modell

Dokumentation zur Methode

Jürgen Holl  
Günter Kernbeiß  
Michael Wagner-Pinter

<https://bit.ly/2AiFrbl>

In Österreich kategorisiert ab 2019 ein Algorithmus arbeitslose Personen nach ihren Chancen auf dem Arbeitsmarkt. Die Software trennt in drei Personengruppen: Arbeitssuchende mit guten, mittleren und schlechten Perspektiven, einen Arbeitsplatz zu finden. Auf dieser Basis will der Arbeitsmarktservice Österreich (AMS) seine Ressourcen ab 2020 überwiegend auf Personen der mittleren Gruppe konzentrieren. Dort seien sie am effektivsten eingesetzt. Die „Arbeitsmarktintegrationschancen“ von Frauen bewertet der Algorithmus pauschal negativ. Zudem führen betreuungspflichtige Kinder zu einer schlechten Einstufung – allerdings nur für Frauen. Bei Männern, so begründen die Entwickler, habe eine Betreuungspflicht statistisch gesehen keine negativen Auswirkungen auf die Arbeitsmarktchancen.

<https://bit.ly/2KLq2X0>

# Agenda

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- 1 Ausgangslage
  - 2 KI – Herausforderungen für die kantonale Verwaltung
  - 3 Rechtsetzungsbedarf identifizieren
  - 4 Fazit
-

### 3. Rechtsetzungsbedarf identifizieren

#### Legalitätsprinzip

Art. 5 Abs. 1 BV, Art. 2 Abs. 1 KV-ZH

→ Notwendigkeit einer hinsichtlich **Normstufe & Normdichte** ausreichenden Rechtsgrundlage

Art. 36 Abs. 1 BV, Art. 10 Abs. 2 KV-ZH

→ **Einschränkungen von Grundrechten** bedürfen einer gesetzlichen Grundlage. (...)

### **3. Rechtsetzungsbedarf identifizieren**

#### **Identifikation der spezifischen Anwendungsbereiche von KI in der Verwaltung**

- Workshops, Brainstorming-Sitzungen
- Benchmarking
- Bedarfsumfragen

#### **Analyse bestehender rechtlicher Rahmenbedingungen & Identifikation von Lücken/Unklarheiten**

- Normenscreening
- Rechtsvergleichende Analyse
- Experteninterviews
- Szenario-Analyse
- Literaturrecherche

# Agenda

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- 1 Ausgangslage
- 2 KI – Herausforderungen für die kantonale Verwaltung
- 3 Rechtsetzungsbedarf identifizieren
- 4 Fazit

# 4. Fazit

## **Zusammenfassung der rechtlichen Herausforderungen:**

- Transparenz & Nachvollziehbarkeit
- Verhinderung von Diskriminierung
- Umgang mit Fehleranfälligkeit
- Digital Literacy sicherstellen
- Datenschutz & Grundrechtsschutz

# 4. Fazit

## **Chancen & Risiken abwägen**

- Effizienzsteigerung vs. rechtliche Risiken
- Innovation fördern ohne (Grund-)Rechte zu verletzen

## **Empfehlungen**

- Klare Vorgaben schaffen Rechtssicherheit
- Rechtsetzung unter Einbezug juristischer & technischer Expertise
- Fortlaufende Schulung & Sensibilisierung der Mitarbeitenden

**Vielen Dank**  
für Ihre Aufmerksamkeit.

# Digital MasterClass

## Kantonsrat Zürich

nächste Veranstaltung: **10. März 2025**

## Gesundheitswesen digital? Aktuelle Einblicke

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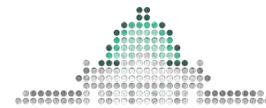
Eine Veranstaltung von:



**Universität  
Zürich**  
UZH

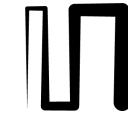
Digital Society Initiative

Partner:



**Parldigi**

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