



# “OUR DIGITAL FUTURE”

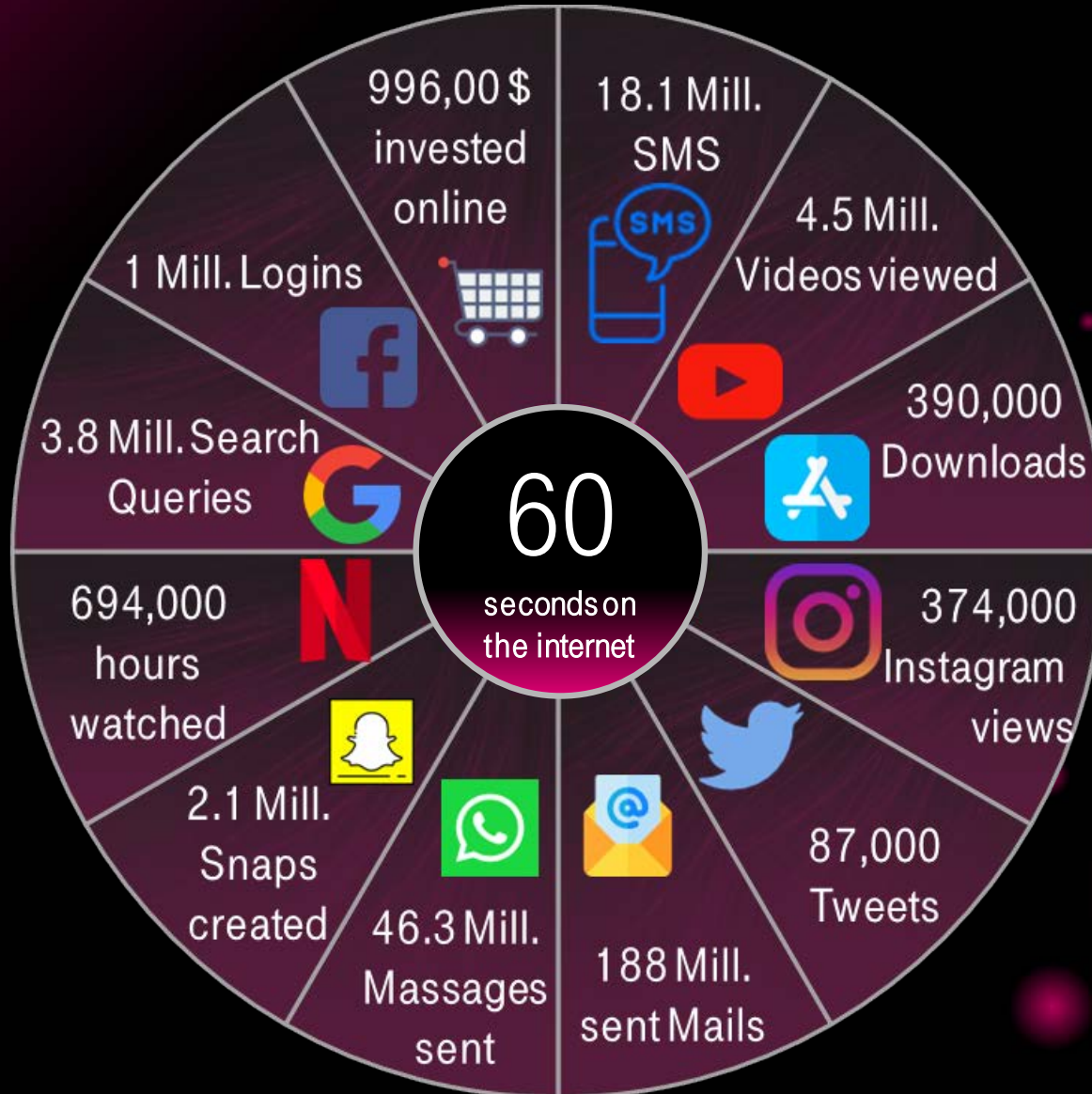
Dr. Thomas Kremer

Munich, 11<sup>th</sup> of July, 2019



LIFE IS FOR SHARING.

# WHAT HAPPENS IN AN INTERNET MINUTE?





# DIGITIZATION MEGA TRENDS



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**WHAT KIND  
OF DIGITAL  
WORLD WE  
REALLY  
WANT?**



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# THE DIGITAL FUTURE NEEDS SECURITY



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# SECURITY IN DIGITAL SUPPLY CHAIN

## Charter of Trust For a secure digital world

The digital world is changing everything. Artificial intelligence and big data analytics are transforming our decision-making. Billions of devices are being connected by the Internet of Things and connecting on an entirely new level and scale.

As much as these advances are improving our lives and economies, the risk and harm of exposure to malware cyberattacks is also growing dramatically. Failure to protect the systems that control our homes, hospitals, factories, grids, and virtually all of our infrastructure could have devastating consequences. Cybersecurity is not just a technical issue; it is a business and economic imperative that needs to be protected from cyber and digital risks.

Cybersecurity is and has to be more than a method or an airbag here; it's a factor that's crucial to the success of the digital economy. People and organizations need to trust that their digital technologies are safe and secure, and that they won't be compromised by digital threats. Digitalization and cybersecurity must evolve hand in hand.

In order to keep pace with continuous advances in the market as well as threats from the criminal sector, companies and governments must join forces and take decisive action. This means making every effort to protect the data, business, and infrastructure of individuals and businesses; prevent damage from people, processes, technologies, operations, architectures, and business models.

Helping the all-encompassing impact of digitalization and cybersecurity and creating a holistic basis of trust can't be achieved by a single company or entity; it must be the result of close collaborations on all levels. In this charter, the signing partners outline the key principles we consider essential for establishing a new charter of trust between society, politics, business partners, and customers.

**1 Identity and access management:** Connected devices must have secure identities and safeguarding measures that only allow authorized users and devices to use them.

**2 Responsibility throughout the lifecycle:** Companies – and if necessary – governments have a responsibility to ensure adequate protection and security throughout the lifecycle of products, systems, and services via a secure update mechanism.

**3 Security by default:** Adopt the highest appropriate level of security and data protection and ensure that it is preconfigured into the design of products, functionalities, processes, technologies, operations, architectures, and business models.

**4 User-centricity:** Serve as a trusted partner throughout a reasonable lifecycle, providing products, systems, and services as well as guidance based on the customer's cybersecurity needs, impacts, and risks.

**5 Encryption:** Connected devices must ensure confidentiality for data storage and transmission purposes wherever appropriate.

**6 Continuous protection:** Companies must offer updates, upgrades, and patches throughout a reasonable lifecycle for their products, systems, and services via a secure update mechanism.

**7 Certification for critical infrastructure:** Governments have a responsibility to ensure adequate protection and security throughout the lifecycle of products, systems, and services via a secure update mechanism.

**8 Transparency and response:** Participate in an industrial cybersecurity network in order to share new insights, information on incidents et al.; report incidents beyond today's practice which is focusing on critical infrastructure.

**9 Regulatory framework:** Promote multilateral collaborations in regulation and standardization to set a level playing field matching the global reach of the WTO; inclusion of rules for cybersecurity into Free Trade Agreements (FTAs).

**10 Joint initiatives:** Drive joint initiatives, including all relevant stakeholders, in order to implement the above principles in the various parts of the digital world without undue delay.

March, February 16<sup>th</sup> 2018

*[Signature]*  
Executive Director of Airbus

*[Signature]*  
Chairman, President, and Chief Executive Officer of IBM

*[Signature]*  
President and Chief Executive Officer of Siemens AG

*[Signature]*  
Chief Operating Officer of Allianz Group

*[Signature]*  
Chairman of the Munich Security Conference

*[Signature]*  
Chief Executive Officer of SGS

*[Signature]*  
Executive Vice President of NXP

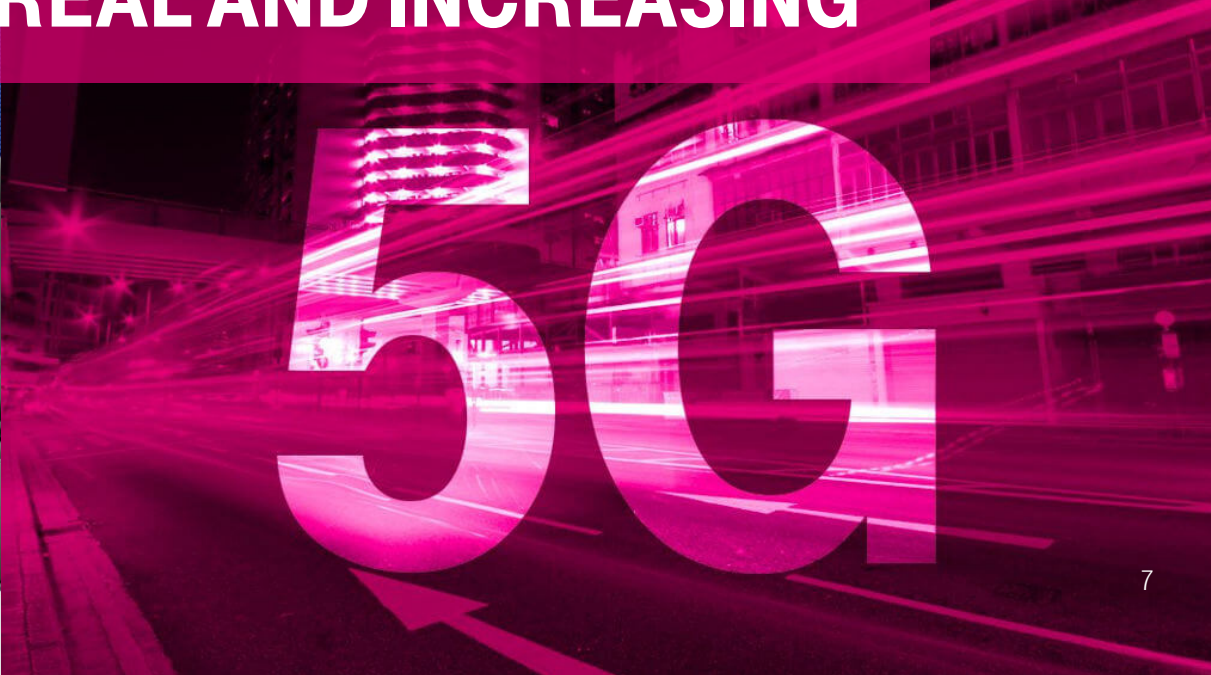
*[Signature]*  
Member of the Board of Management of Deutsche Telekom AG

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# CYBER ATTACKS ARE REAL AND INCREASING





**1. DIGITAL COMPETENCE**

**2. TECHNICAL SECURITY SOLUTIONS**

**3. COOPERATION**





# BY THE WAY...



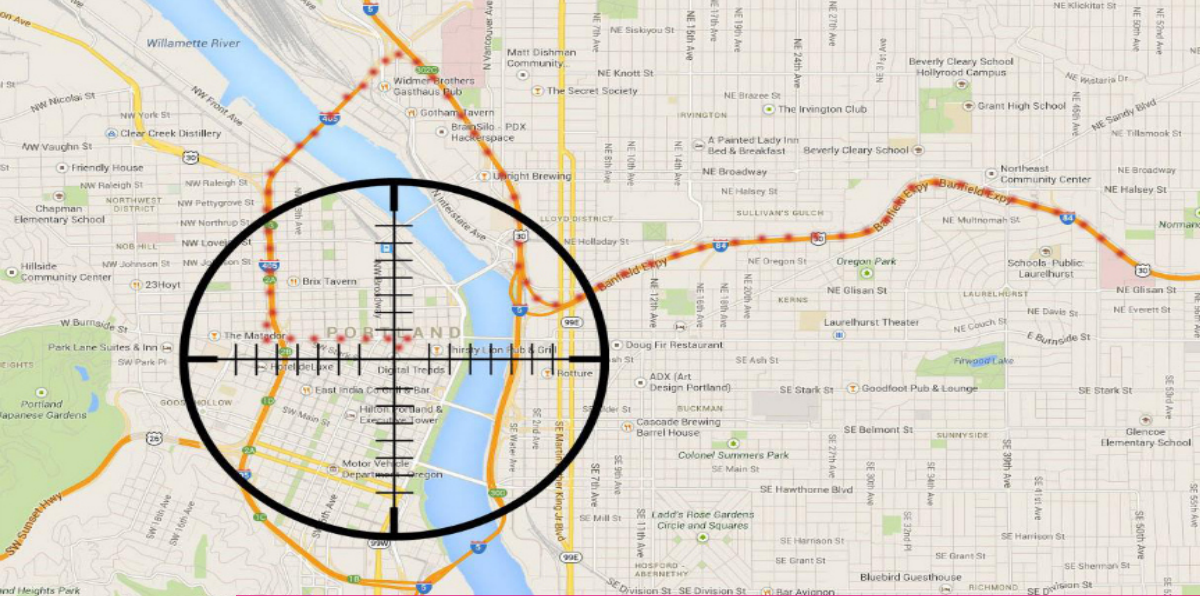
**"Das Problem sitzt  
vor dem Bildschirm."**

**"Da sitze ich!"**

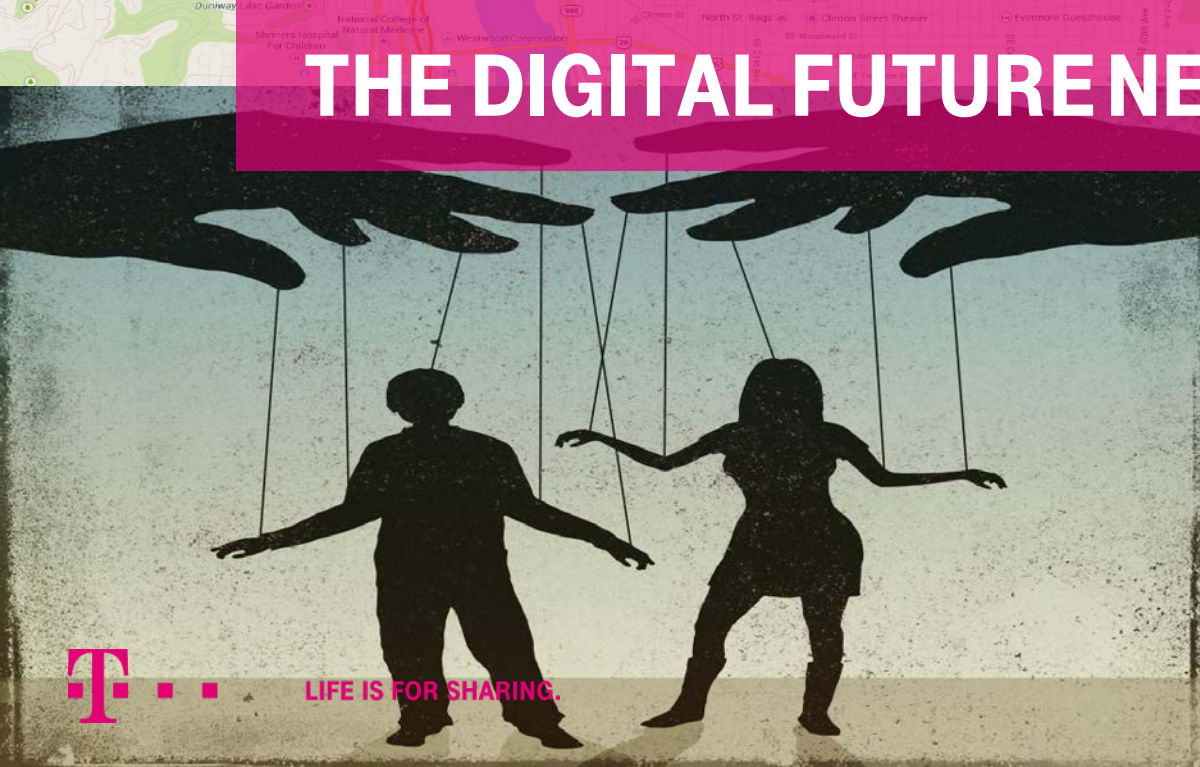
**"Ich wünschte, alle  
wären so einsichtig."**

[www.twitterperlen.de](http://www.twitterperlen.de)

Quelle: [twitter.com/regieklappe](https://twitter.com/regieklappe)



# THE DIGITAL FUTURE NEEDS DATA PROTECTION



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**1. TRANSPARENCY**

**2. PSEUDONYMIZATION**

**3. ENCRYPTION**



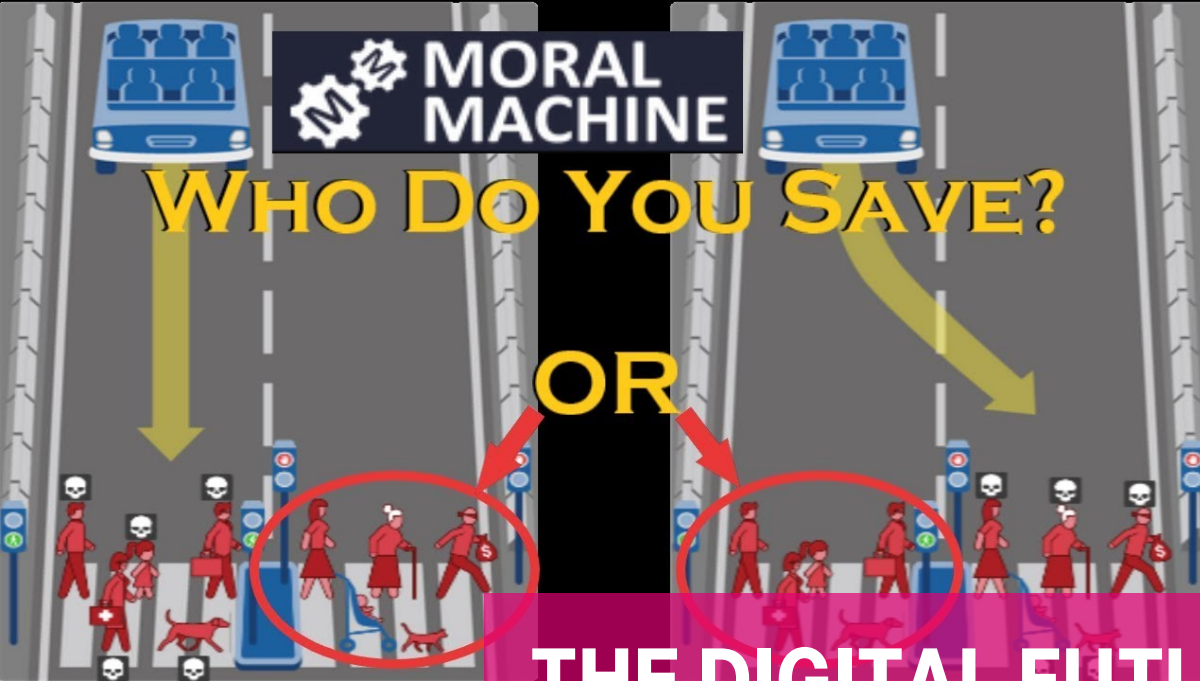
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**FACEBOOK NOW HIRING.**

**BY THE WAY...**

**NO NEED TO APPLY.**

**WE ALREADY HAVE ALL YOUR DETAILS**

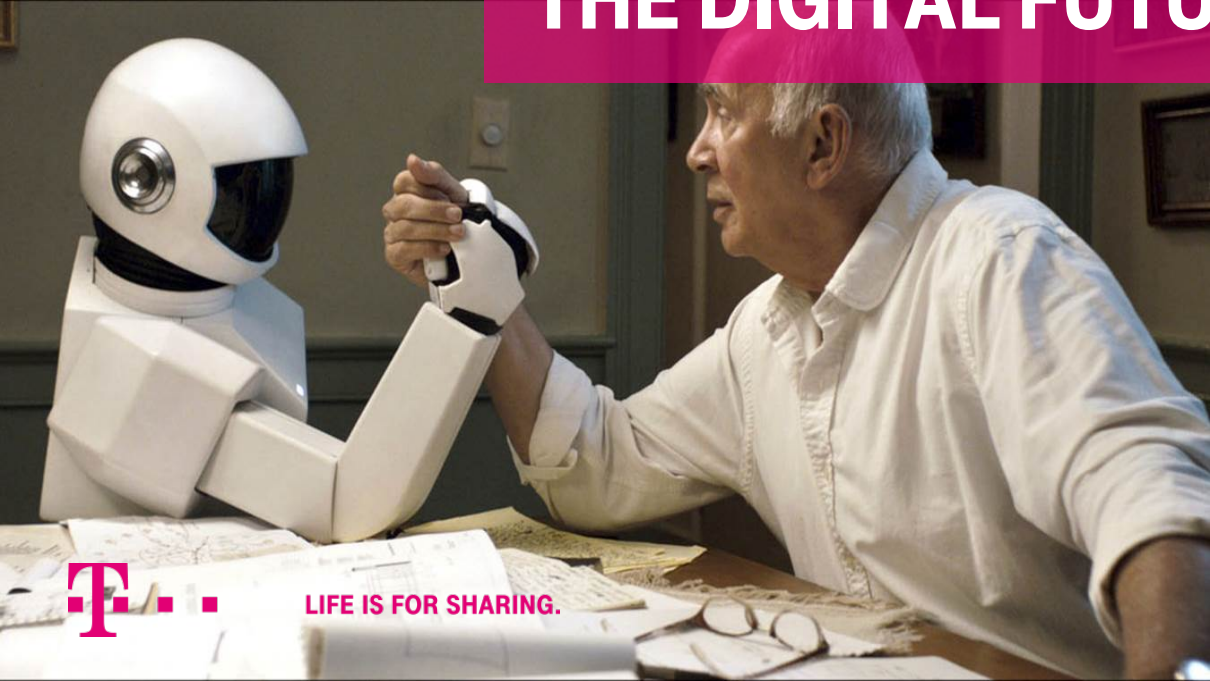


**MORAL MACHINE**

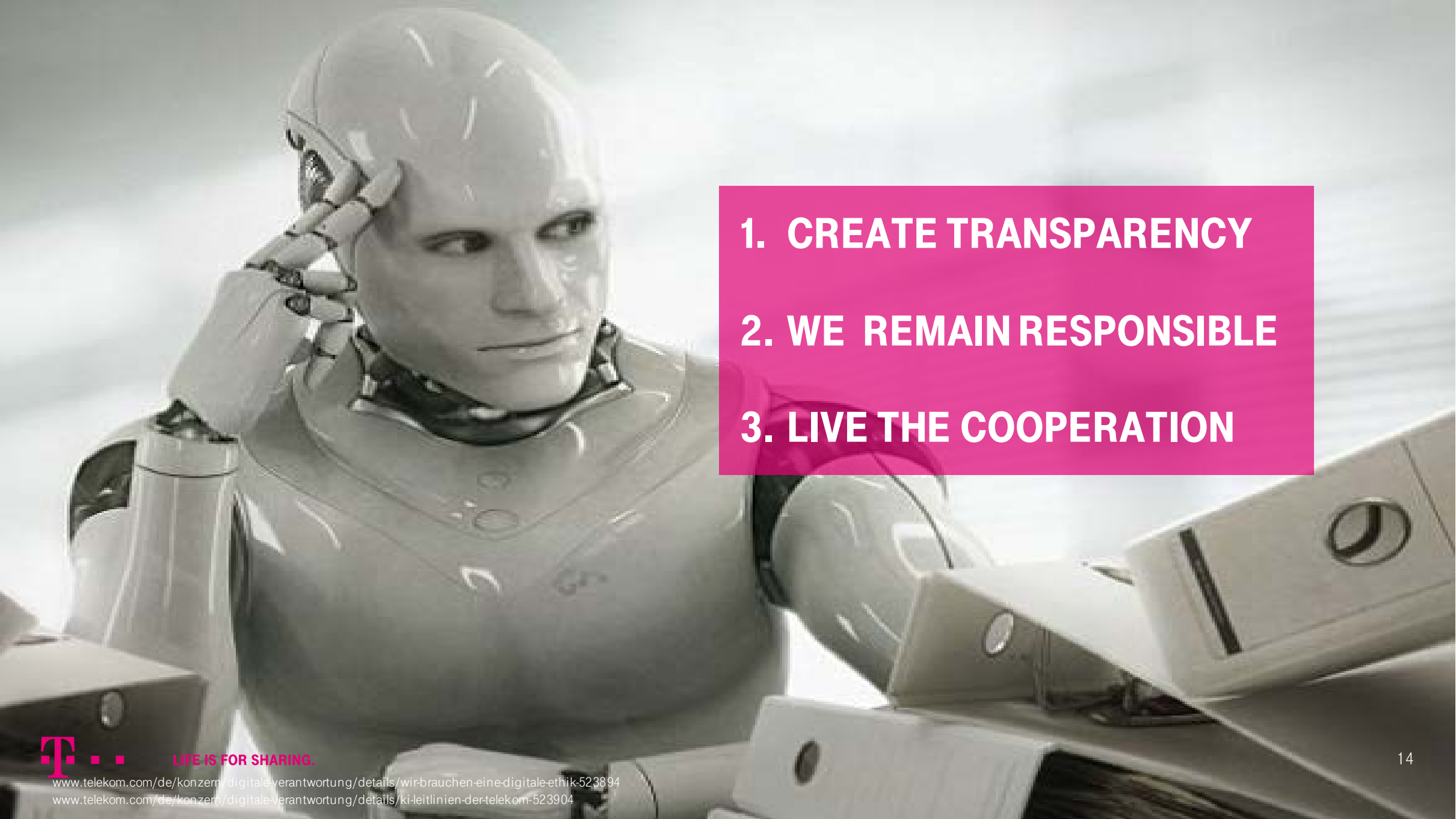
**WHO DO YOU SAVE?**

**OR**

**THE DIGITAL FUTURE NEEDS ETHICS**



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**1. CREATE TRANSPARENCY**

**2. WE REMAIN RESPONSIBLE**

**3. LIVE THE COOPERATION**



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[www.telekom.com/de/konzern/digitale-verantwortung/details/wir-brauchen-eine-digitale-ethik-523894](http://www.telekom.com/de/konzern/digitale-verantwortung/details/wir-brauchen-eine-digitale-ethik-523894)  
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**BY THE WAY...**

**„IT IS SNOWING AND FREEZING IN NEW YORK - WE NEED GLOBAL WARMING!“**





# WHAT DOES THIS MEAN FOR DEUTSCHE TELEKOM?



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# WE CREATED SOLUTIONS FOR ...



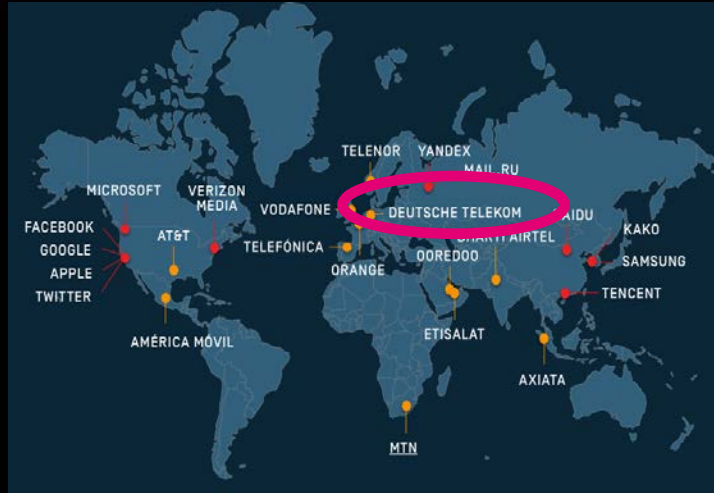
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SECURITY

PRIVACY

ETHICS

# DIGITAL SOVEREIGNTY



## "2019/2020 ISG PROVIDER LENS™ LEADER

Telekom Germany sets the benchmark for Magenta security services for German SMEs & T-Systems for German large accounts

"Digital Rights Ranking" 2019  
Deutsche Telekom was the **most transparent of all companies** about giving users options to control what information is collected and shared about them

Deutsche Telekom again in 2019 one of the world's most ethical companies  
Telekom the sole winner in Germany



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# THANK YOU!

 THOMAS KREMER



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# IMAGE SOURCES

- Slide #1: <https://www.shutterstock.com/de/image-photo/space-woman-white-eyes-dark-164442461>
- Slide #2: <https://www.visualcapitalist.com/what-happens-in-an-internet-minute-in-2019/>
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