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Digitalization and quality of life Interim results of a societal dialogue process

26.10.2108





Visions – Indicators – Recommendations – Projects

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The impact of digitalization on our quality of life

Various disciplines Various sectors

Quality of Life

Work & Economy
Education
Health
Environment
Transport & Mobility
Community
Security
Politics & Administration

Guiding question: How can we shape digitalization to improve quality of life as much as possible?





I: The individual in the digital era

Vision

In the future, humans with their needs and abilities will be the starting point for all activities related to digitalization.

Digital technologies are used to strengthen the freedom. personal responsibility, self-determination and participation of individuals. They help them to further develop their skills in dealing with other people and with technology, and to actively participate in social and professional life. They promote awareness and attention for ourselves and others, which contributes to more vitality and authenticity.

Moreover, digitalization allows people to meet their individual needs, which may include recognition by other people as well as entertainment, but also tranquility and privacy.

People are able to handle the digital possibilities in a safe. fearless and disciplined way. They remain open to other people with different lifestyles.

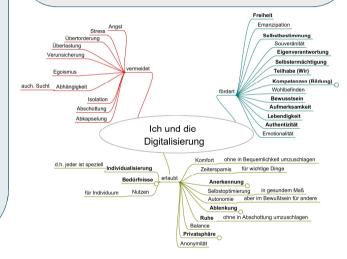
[Links to other topics: 3. Education and 8. Community]

Recommendations for Action

- Companies/Organizations: Review your own activities along this vision of the future.
- Politics: Derive a checklist for regulations based on the vision of the future.
- Politics: To promote pilots for the digital era who are independent of particular interests.
- Individuals: Further develop mindfulness and competencies.
- [...]

Specific Examples

- Internet ABC including "drivers license": www.internet-abc.de
- · Privalino the safe messenger: www.privalino.de
- Digitale Helden (Digital Heroes): www.digitale-helden.de
- [...]



Questions for you

- > Is the description of the desirable future coherent, or are important aspects missing?
- > Do the proposed indicators make sense and are they already available?
- > Do the recommendations for action fit the vision or are important points missing?
- > Are there any other concrete projects that fit the vision?

Please send your answers via e-mail.

Possible Indicators

- Do you have the impression that digitalization strengthens people's personal responsibility? 0 no positive contribution up to 10 largest possible contribution.
- · How competent can you handle the current possibilities of digitalization? 0 not at all. "I keep my distance", up to 10 very well "I use them accordingly".

Selbstbestimmung Sendent Authoritist Brandmauer Beruhelt Abhängigkeit Napon Zuhause Individuum Brandmauer Breiheit Privats Preiheit Privats Brandmauer Breiheit Authoritist Brandmauer Breiheit Authoritist Brandmauer Breiheit Privats Brandmauer Breiheit Brandmauer Breiheit B Angst Rubel Anonymital Property Selbstoptumerung Arangst Rubel Anonymital Property Selbstoptumerung Arangst Rubel Authentizität Verunsicherung Stress Rube

Structure of the Results:

- Fundamentals:
 - I: The individual in the digital era

Principals & Conditions

- > Topics quality of life:
 - 6. Transport & Mobility 1. Work & Economy
 - 2. Leisure, Arts & Culture 7. Housing
 - 8. Community
 - 3. Education 4. Health 9. Security
 - 5. Environment 10. Politics & Administration



Principles & Conditions

Vision

In the future, the legal, technical and human conditions will be strengthened to such an extent that digitalization can facilitate the development and participation of individuals and a flourishing coexistence.

Technological development allows reliable, fast and easy access to digitalization. It is oriented towards neutrality. openness and transparency. Competition and diversity are maintained; decentralized solutions are used wherever they

In the legal area, existing laws are consistently applied and, if necessary, adapted to the digital era. Standards, rules and etiquette for a successful handling of digitalization develop in the societal discourse and are made visible.

At the same time, people's skills in dealing with digital technologies continue to grow and they use them responsibly, attentively and disciplined.

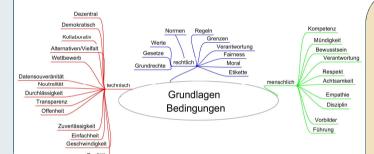
[Links to other topics: 3. Education and 10. Politics & Administration]

Recommendations for Action

- Politics: Increased expansion of infrastructure.
- All: Promote diversity and alternatives.
- Prefer open solutions.
- Give greater consideration to decentralized solutions
- [...]

Specific Examples (German)

- CH. DK und NL Vorbilder für Breitbandausbau
- Prototype Fund f
 ür Open-Source: www.prototypefund.de
- · Holo "where the crowd is the cloud": holo.host
- Openbook www.open-book.org
- · eEtiquette: eetiquette.de
- [...]



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Possible Indicators

- · Percentage of people with broadband access.
- All in all, how satisfied are you with the services offered by service providers in the digital space? 0 not at all to 10 completely.
- Do you have the impression that the legal regulations for the digital era are already sufficient or do you still see considerable need for regulation? 0 enough, 10 regulate. (-)
- Do you have the impression that people are using digital technologies responsibly? 0 not at all to 10 completely.



Structure of the Results:

Fundamentals:

I: The individual in the digital era **Principals & Conditions**

> Topics quality of life:

1. Work & Economy 6. Transport & Mobility

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3. Education 8. Community

4. Health

9. Security 5. Environment

10. Politics & Administration



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Topic 1: Work & Economy

Vision

Digital technologies will continue to be used in the future to connect people and machines, automate existing processes and develop new products and services. Many existing companies – small and large – and start-ups work well together, both online and offline, with a well-developed infrastructure and a high level of data security.

This further increases labor productivity and overall resource productivity: the same products can be made with less time and natural resources. New, higher-quality products and services become possible. Thanks to exemplary leaders, trust-fostering work organization and committed employees, the time freed up is used for creative activities and a better work-life balance.

The winners of this process also use their increasing opportunities to inform and educate as many people as possible in order to limit negative social impacts such as fears, job worries and insecurity.

[Links to other topics: 3. Education, 5. Environment and 10. Politics & Administration]

Recommendations for Action

- Companies/Organizations: Proceed actively and responsibly. Stay as open as possible to other organizations and perspectives.
- Politics: Enable infrastructure and diversity, support (further) education. Vontroversial: Unconditional basic income.
- · Trade unions: Actively shape digitalization.
- · Individuals: Inform, try out, educate.
- [...]

Specific Examples

- · Claas Landmaschinen: www.claas.de
- Bosch Konzernbetriebsvereinbarung "Mobiles Arbeiten" von 2014
- GASAG Lebende Konzernbetriebsvereinbarung 2018
- · Co-Working Spaces
- · Time Banks: timebanks.de
- [...]

Innovation Automatisierung Schnelligkei Kommunikation Infrastruktui Leistuna Erleichterung Produktivität Technologie Sicherheit Kosten Algorithmus Alternativen Zeit Experimente Gründungen Komfort Erreichbarkeit Arbeit/Wirtschaft Dezentral Flexibilität Regeln Work Life Balance Arbeitsplätze Angst Verlust Plattform Druck Vereinfachung Umgang mit.. Macht Arbeitsorganisation Monopolisierung Verunsicherung Verantwortung Entfremdung Individualisierung Vergleich Ausschluss Kreativität Transparenz Teilen Werbung

Questions for you

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Please send your answers via e-mail.

Possible Indicators

- Unemployment rate.
- Has your company/employer initiated a forward-looking approach to digitalization? Scale 0 (not) to 10.
- Have you received at least 10 hours of further training (in the company or privately) in the last 6 months on work-related digitalization topics? Yes/No.
- [...]



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Topic 2: Leisure, Arts & Culture

Vision

Digital technologies open up easier and more diverse access to other people, networks, cultures and leisure activities. In this way, cultural and artistic exchange and active involvement with culture become broader and more intensive. For niche hobbyists and special interests, this opens up more opportunities and better networking.

People can deal with the many possibilities in a selfdetermined way and remain in relationship with others. They consciously choose between digital and analogue encounters, offers and times - and combine them wherever it makes sense. The providers use the possibilities of digital technologies for the co-creation of art.

Note: The (few) materials from the dialogues has been supplemented by insights from the book "Szenarien einer digitalen Welt" by Thoma Klauß and Annika Mierke.

[Links to other topics: The individual, 1. Work & Economy, 3. Education, 8. Community]

Recommendations for Action

- Individuals: Critical questioning of online vs. offline possibilities. Becoming active.
- · Politics: Looking at the breadth of offers and possibilities (long tail).
- [...]

Specific Examples (German)

- Companion2Go: Companions mit und ohne Behinderung profitieren von vergünstigten Tickets companion2go.de
- Maker-Bewegung
- Open Culture: www.openculture.com
- · Digitorials zu Ausstellungenz, B. www.staedelmuseum.de/de/angebote/digitorial
- · Audience Development Project: smartplaces.eu
- [...]



Questions for you

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Possible Indicators

- Did you find a good balance between the use of digital offers and offline possibilities in your free time? Good balance quite a lot online - too little online
- Do you use digital applications to help organize your offline leisure time? Daily - once a week - sometimes - never.
- [...]



Structure of the Results:

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4. Health

5. Environment 10. Politics & Administration

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Topic 3: Education

Vision

Digital technologies are opening up ever more diverse, costeffective and individual access to reliable data and information for more and more people in all age and income groups. Digital and analogue possibilities (human and machine) are combined in a meaningful way.

Educational activities from kindergarten to old age teach programming and mindfulness in addition to classical and artisanal content. This increases people's competence in dealing with different sources, media, devices and applications, but also with other people and with themselves. They can use data and information to derive the knowledge and wisdom that will help them lead a self-determined, successful life.

This has a positive effect on people's life satisfaction, the competence level of employees in research and business, but also on living together and democracy.

[Links to other topics: I: The individual, 1. Work & Economy]

Recommendations for Action

- Individuals: Devote time and attention to the topic scrutinize it critically.
- Schools & teachers: Strengthen offers on digital topics, if necessary, together with independent external experts.
- · Länder: Continuing education for teachers.
- · Business: Train employees.
- Public service broadcasting authorities and adult education schools: teach digital competences in a low-threshold way.

Specific Examples (German)

- · Wikimedia: wikimedia.de
- Irmgard App für Analphabeten: www.appirmgard.de
- · CODE Hochschule Berlin: code.berlin/de/
- · Udacity: de.udacity.com und Coursera coursera.org
- Idee: Telekolleg 4.0 der öffentlich rechtlichen Anstalten
- · Riffreporter: www.riffreporter.de
- [weitere]

Verständnis von Digitalem/Technik zu gering Nachhilfe Umsetzuna zu aerina Kosten von Qualitätsangeboten zu hoch negativ/Sorgen Nachrichten Überfluss, Überforderung, Kontrollverlust Bildungsniveau sinkt? ! niedrigschwellig Bildung was ist wichtig? Informationen/Wissen/Weisheit Selbst/Orientierungs/kompetenz Mündigkeit Reichweite steigt Schulfach Quellenkunde neue, globale Lemgemeinschaften Jugend erklärt... Presse braucht besseres Verständnis

Questions for you

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Possible Indicators

- Do you have the impression that the digital educational offers help people in your country to develop into independent personalities? Scale 0 not to 10 yes absolute.
- Have you attended an online training course in the last 6 months that lasted longer than 2 hours? Yes/No
- [...]



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5. Environment 10. Politics & Administration



Topic 4: Health

Vision

In the future, people will be even better able to control the possible negative health effects of digitalization, such as excessive demands, stress or motion deficits.

At the same time, they are increasingly using digital technologies for prevention and information, e.g. on nutrition and exercise. Employers, health insurance companies, welfare organizations and others support them in this with a special focus on the weakest members of society.

Research and diagnosis work with large amounts of data and intensive networking, ensuring data protection and transparency for patients.

In the event of illness, treatment is faster, cheaper and better than before, also because doctors have access to a larger data basis. Telemedicine offers additional options, for example in rural areas. Treatment and medication plans are even more personalized and electronically accessible.

In the care sector and for people with disabilities, new services are available ranging from visual aids and reading apps to networked prostheses.

Recommendations for Actions

- · Relaxation of the ban on remote treatment (Germany).
- More health apps in the standard care of health insurances.
- · Further development of the E-Health Act (Germany).
- · Standards for data protection & data exchange.
- [...]

Specific Examples (German)

- · Elektronischer Medikationsplan
- Vesta: das zentrale Interoperabilitätsverzeichnis des deutschen Gesundheitswesens
- · Telebehandlung in Baden-Württemberg
- · Schlaf-App: dak.somnovia.de
- · Mentale Gesundheit: www.aryaapp.co.
- [weitere]

Abhängigkeiten Blutzucker Puls Überforderung Information Depression Prävention Transparenz Stress Forschung Big Data Auswirkunger Bewegungsdefizite Standardisierung Diskriminierung Vernetzung Gesundheit Krankheitsgeschichte Strahlungen Diagnoso Big Data Telemedizin Sehhilfen Datenschutz Zugang leichter Vorlesen Behinderungen Selbstdiagnose (-) Behandlung Prothetik Notfallhilfe Personalisierung/Individualisierung eMedikationsplan 3D Druck Leistungsfähigkeit von Gesunden

Questions for you

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- \succ Are there any other concrete projects that fit the vision?

Please send your answers via e-mail.

Possible Indicators

- Do you feel put under pressure by digital technologies?
 0 not to 10 very strongly.
- Do you use an app at least once a week to improve your health (sports, nutrition, sleep)? Yes/No
- [...]



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Zentrum für gesellschaftlichen Fortschritt



9. Security

Topic 5: Environment

Vision

Digital technologies will be intensively used in the future to protect the planet's resources and improve man's natural environment. With software, sensors, open data and other capabilities, more transparency will be achieved on issues that are important to people and the planet: from carbon footprints, noise emissions and waste, to production chains, ingredients and product recycling options.

Digitalization is used to save as many natural resources as possible. This happens for consumers through the switch to dematerialized products (digital instead of CD), increased sharing, increased secondary use of used items and transparency about energy consumption. People have found a smart, environmentally friendly way of dealing with the easily available consumption opportunities.

In production, care is taken in all sectors to ensure that as few non-renewable resources as possible are used and that as little environmental damage as possible is caused - including in the manufacture of mobile phones and computers.

Companies, politicians and citizens work closely together to make transparency and responsible consumption of goods and services possible.

Recommendations for Action

- Politics/NGOs: Demand or create transparency on resource usage.
- Politics: Take environmental aspects into account in all digitalization projects to be supported.
- Individuals: Use information possibilities, know resource consumption.
- Companies: Consider environmental aspects in digitalization projects.
- [...]

Specific Examples (German)

- CO2-Rechner: uba.co2-rechner.de
- · Sharing-Plattformen wie www.pumpipumpe.ch
- · Digitale Landwirtschaft: www.nextfarming.de
- Dreckpetze: www.edg.de/de/service/maengelmelder.htm
- [weitere]

Papierloses/armes Büro Digital statt Buch/CD/DVD VR Reisen Werkzeuge Indikatoren Autos Sensoren im Konsum Open Data etc. Essen retten Smart Meter CO2 Abdruck Transparenz Einsparung/Effizienz Lärm Düngereinsatz in Produktion Schmutz lokale/dezentrale Produktion Umweltschäder Ressourcen Umwelt Ressourcenverbrauch Stromverbrauch Produktions/Lieferketter Onlinewerbung Lebensdauer Produkte einfacher Verfügbarkeit Bequemer Kauf Mehrverbrauch Inhaltsstoffe Handy etc. Gesundheitswirkung Versand/Logistik

Questions for you

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Possible Indicators

- · CO2 Footprint of consumption per inhabitant.
- Have you used online information services on environmental topics in the past month? Yes/No
- Are you an active user of sharing platforms for transport, tools, etc.? Yes, active, no.
- [...]



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5. Environment

10. Politics & Administration



Topic 6: Transport & Mobility

Vision

Digitalization enables simpler, safer, faster, more environmentally friendly, more individual and interconnected mobility for people and goods.

Navigation, orientation and mobility planning are facilitated by easily accessible data and connected platforms. Mobility providers are using digitalization to make their products and services more affordable, secure and flexible. More and more people are able to use these services in a competent and concentrated manner. Providers and users work together on data protection in a spirit of trust.

The resulting increase in traffic is limited by digital possibilities such as teleworking and telemedicine.

[Statements of the participants were supplemented by aspects from the vision of "Schöne Aussichten - Forum für Frankfurt"].

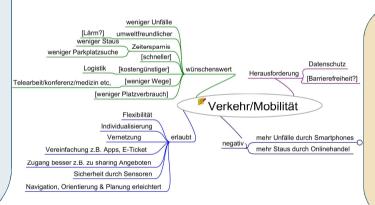
[Links to other topics: 1. Work & Economy, 5. Environment]

Recommendations for Actions

- State: Keep access barriers for all forms of mobility low.
 Consideration of resources/space consumption by different forms of mobility.
- Companies: Consider access, environmental and spatial aspects in mobility projects (in addition to safety, economic efficiency, etc.)
- Individuals: Consider resource consumption of mobility.
- [...]

Specific Examples (German)

- Eine open-source App, die alle Mobilitätsformen berücksichtigt.
- · Elektroroller: z.B. emmy-sharing.de
- door2door: www.door2door.io
- Volocopter: www.volocopter.com/de/
- Drohnen als Paketlieferanten (aber: Drohnenverordnung)
- [weitere]



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Possible Indicators

- Do you regularly use one or more mobility app(s)?
- (Like for Environment) Do you use sharing services for mobility?
- [Usage of teleconferences?]
- [Utilization rate of trucks?]
- [...]



Structure of the Results:

Fundamentals:

I: The individual in the digital era Principals & Conditions

Please send your answers via e-mail.

> Topics quality of life:

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4. Health5. Environment

Security
 Politics & Administration



Topic 8: Community

Vision

The increasing possibilities for communication and networking through digitalization allow more and more people of all ages and income groups barrier-free access to and participation in community.

Digital technologies are used in addition to analogue access to strengthen trust and solidarity between people, promote tolerance and respect, and support cohesion and the common good. New forms and approaches of sharing, mutual assistance and cooperation will also be used.

Through digital and analogue platforms, people participate in a targeted way in discourses on societal issues. Diversity of society is supported by digital possibilities as well as equal rights, inclusion and integration.

The always existing filter bubbles and social comparisons are kept in a healthy frame in the digital space.

Recommendations for Action

- Individuals: Use possibilities (see examples)
- State: Support meeting platforms
- [...]

Specific Examples (German)

- · Begegnungsplattform wie www.studip.de auch für Nachbarschaften (breiter als nebenan.de)
- · Menschen helfen sich gegenseitig: helpmebro.world
- · Keiner bleibt allein: www.keinerbleibtallein.net
- Magic Leap als Zukunftsoption: www.magicleap.com
- [...]

Sozialität Toleranz, Respekt Gleichberechtigung Inklusion Zugang Integration Zusammenhalt Vielfalt/Diversität Zugehörigkeit, Anerken Kommunikation & Vernetzung Gemeinwohl (Wir) Teilhabe Zusammenleben 101 gesundes Maß an Kollaboration Filterhlasen/Echokammern meinsamer Erfahrungsraum Diskurs Tiefgang Partizipation/Beteiligung

Achtsamkeit

Questions for you

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Possible Indicators

- · Do you have the impression that digital technologies promote the division or rather cohesion of society? 0 division to 10 strongly promoted cohesion.
- · Do you have the impression that digital technologies promote conformity or rather diversity in society? 0 conformity to 10 strengthen diversity.
- [...]



Structure of the Results:

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#gutlebendigit@l



Topic 9: Security

Vision

The future in the digital space will be as secure as possible through joint action by business, government and citizens. There are few violations of applicable law, as the security infrastructure is technically and legally up-to-date and misconduct is effectively prosecuted. Data protection and data security are thus secured as much as possible.

The informational self-determination of citizens is the guiding idea for the use of data. Users know who has recorded which data about them and can have them released or deleted as they require. This data sovereignty is supported by consumer protectors, government agencies, companies, educational institutions and civil society and made accessible with low barriers. Children and adolescents are - as in analogue space - under special protection.

There is clarity as to who may invade the privacy of other people under what conditions: security authorities on a judicial decision, companies only with full transparency about the conditions and with the consent of those concerned.

Recommendations for Action

- Politics: Setting and enforcing contemporary rules. Promoting transparency and competence.
- Companies: Secure data protection and data sovereignty.
- Individuals: Increase competencies for digital security.
- [...]

Specific Examples (German)

- Bundesamt f
 ür Sicherheit in der Informationstechnik: www.bsi.bund.de
- · Digitale Selbstverteidigung: digitalcourage.de/digitale-selbstverteidigung
- · Medien Sicher: www.medien-sicher.de
- Gpg4win GNU Privacy Guard for Windows: www.gpg4win.de
- [weitere]

Cyber-Angriffe wannacry Mobbing technisch (Hacking) Copyrightverletzung Unwetterwarnungen weniger Unfälle Information/Transparer was passiert daheim Sicherheit Datenhoheit/souverānitāt Mündigkeit Abhängigkeit digitale I. Zeit investier Privatsphäre/Anonymitä Stabilität Infrastruktui rechtlich unterstützt Verschlüsselung siehe auch "Bildung" Gesichtserkennung Bahnhof

Questions for you

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Possible Indicators

- Have you been the victim of an attack in the digital space in the last 12 months? Yes/No (define attack if necessary)
- How well do you feel protected against attacks in the digital space? 0 not at all, 10 best.
- Do you feel that you have control over your data in the digital space, or does someone else have control? 0 someone else has control, 10 I have full control,
- [...]



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10. Politics & Administration

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9. Security

Topic 10: Politics & Administration

Vision

Digitalization is used to strengthen democracy and improve social decision-making processes. Well-informed citizens, a free press and open politicians find themselves in a fruitful dialogue offline and online, thus strengthening the collective intelligence of society. All activities of politics and administration in the analogue and digital space pay attention to social interaction, equal opportunities, comfort and low-threshold access as well as to security and data protection.

In order to achieve these goals, politics and administration, together with other actors, assume responsibility for connection, interoperability, standards and broadband expansion. They promote the diversity of offerings and the use of open source options. Discussions on principles about social values and standards are conducted online and offline with broad participation, also in order to support meaningful political measures at an early stage and to reduce the fears about the future.

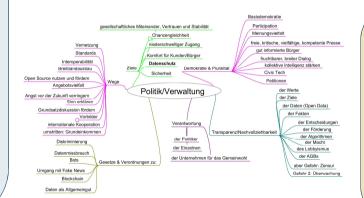
All parties involved enable comprehensive transparency of their values and goals, but also of data, facts, decisions and algorithms. Existing laws are consistently applied in the digital space. New or adapted laws and regulations close the gaps that arise as a result of technological progress in a timely manner.

Recommendations for Action

- Individuals: Inform, contribute
- Politicians/administration: Strengthening digital competence, using participation
- · Press: Free and critical reporting.
- · Companies: Transparent commitment to the common good.
- [...]

Specific Examples

- Verschlüsseltes Personenkennzahlensystem (as in Austria)
- · Abgeordnetenwatch: www.abgeordnetenwatch.de
- Liquid Democracy: liqd.net/de
- · Correctiv (unabhängiger Journalismus): correctiv.org
- · Open Petition:openpetition.de
- [weitere]



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Please send your answers via e-mail.

Possible Indicators

- Have you been involved in the political decision-making process in your city, state or country over the last 12 months via an online platform? Not at all, once, several times
- How well are you informed about societal issues? Scale from 0 to 10.
- [...]



Structure of the Results:

Fundamentals:

I: The individual in the digital era Principals & Conditions

Topics quality of life:

1. Work & Economy 6. Transport & Mobility

2. Leisure, Arts & Culture 7. Housing

3. Education4. Health8. Community9. Security

Environment

10. Politics & Administration



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