

Workshop on the State Treasury Model - Digital Government Agenda II

Manfred ELMECKER, Austria

Querétaro, 29. Nov. 2024



#TeamEurope

Facts & Figures about Austria

- Capital: Vienna
- Total Area: 83,870 km²
- Total Population: ~ 9,1 mn
- 9 states/provinces (with local governments)
- Government: Federal Parliamentary Republic
- EU accession: January 1, 1995
- Official Languages: German, Slovene, Croatian, Hungarian



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Artificial Intelligence (AI) in Austria

- Vision of the Federal Government for AI
- AI mindset in Austria
- Strategy of the Federal Government for AI
- Austria's package of measures on AI

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- Strategic Foundations for successful AI/digitization
- E-Government Digital Austria



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- The Digital Action Plan for Austria
- MoF: AI-based data processing speeds up service & Use of AI
- Digital Skills initiative for Austria
- AI & Digitization A new data culture
- Al Governance, Security an Law
- Al Facts & Figures





Vision of the Federal Government for Al

- Al in Austria should be **based on European values**, while respecting and guaranteeing basic and human rights; e.g. privacy and the principle of equality can be used for the greatest possible benefit of all.
- All makes its contribution to **positioning Austria as a research and innovation location** as well as a competitive technology and industrial location.
- AI is already being used in various forms by Austrian small and medium-sized businesses. It is
 important that this deployment is carried out as sovereignly as possible, e.g. independently
 of global monopolies and in close cooperation with our partners in Europe.
- Risks and undesirable developments of AI should be avoided, identified at an early stage and reduced and eliminated wherever they occur.
- ⇒ The Government will stimulate and promote a social dialogue that ensures the involvement of citizens and on the basis of which AI technology can be used and further developed in a safe and socially desirable manner.



450 exabytes of data will be generated every day by 2025. That's 450 million terabytes.

10,9 According to estimates by the EU Commission, 10.9 million skilled workers will be employed in the data sector by, 2025. <u>Twice as many as in</u> 2018.

> 20 percent more Data is generated year after year.

200 Billions of terabytes of data will be stored in the cloud by 2025.

> 25 billion data generating Devices ("Internet of Things", will be available worldwide by

2030



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Al mindset in Austria

Companies and employees in Austria are increasingly focussing on artificial intelligence (AI). Surveys reveal the prevailing experiences and attitudes towards digitisation and AI in 2023.

Cloud Computing	24 (16)
Data Analytics	24 (12)
Robotic Process Automation (Software)	19 (6)
Artificial Intelligence	15 (10)
Internet of Things	12 (6)
Robotics	9 (7)
Smart Manufacturing (personalised production)	8 (3)
Use of chatbots*	7 (3)
Drones	4 (3)
Błockchain	3 (4)
Other digital technologies	4 (2)
None	38 (49





of SMEs plan to invest in cloud computing and data analytics, according to the EY SME Barometer 2023.



have plans to invest in artificial intelligence.

67%

of employees associate digitisation primarily with the need for digital skills. Digital skills are becoming more and more important in the world of work.

16%

of employees surveyed in a Deloitte study report that AI is used at least occasionally in their organisation. AI is mainly used for repetitive tasks and automation (49%), but also for data-driven decisions (34%).





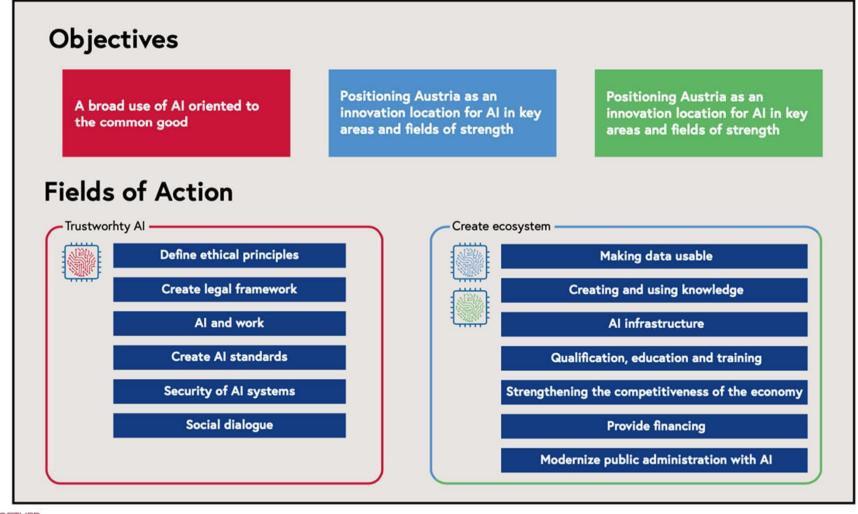
Strategy of the Federal Government for Al







Strategy of the Federal Government for Al



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Strategy of the Federal Government for Al

Fields of Application

Al as a tool for addressing climate change	Al in the material goods industry
Digitalized energy systems	Al in the building sector
AI for sustainable mobility	Al in healthcare
Al in agriculture	Al in the arts, media and creative industries
AI and space applications	Al in education
City and energy space planning	





Austria's package of measures on Al

Regulation as a competitive advantage





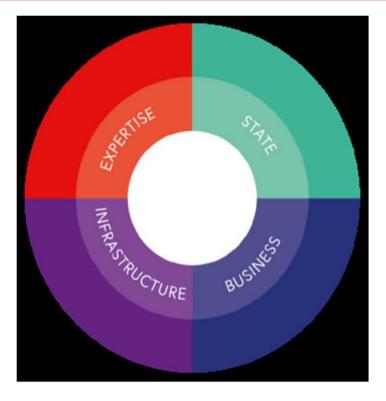
is what the increased use of AI in Austria could bring by 2025.

- Comprehensive package of measures
 - \circ Al agency
 - o Mandatory labelling
 - Development of competencies
 - o Al Monitor





Strategic Foundations for successful Al/digitization



The "Digital Compass" with the four dimensions: **skills**, **infrastructure**, **business**, **public sector**.

- The EU's "Digital Compass" serves as a "Roadmap to the Digital Decade". It includes concrete objectives ("digital goals") in each area of action, as well as a mechanism for structured cooperation and monitoring.
- Austria is strategically implementing the goals of the Digital Decade on the basis of the Digital Compass and has developed targets and key measures for all areas.
- The target paths are presented in the Austrian roadmap "Digital Decade: The Austrian Way" together with selected key measures.



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E-Government – Digital Austria

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https://www.digitalaustria.gv.at/eng/insights/E-Gov-A-Z_EN.html



E-Government – Digital Austria

The Austrian public administration system is among the most advanced in the world. In the digitalisation process, Austria is benefiting from having set its course early, then followed a consistent strategy and taken a forward-looking approach to planning and coordination since the early 2000s. Most administrative services are now digitally networked and available via websites and apps. Registers and the connections between each other as well as the eBild system are modern administration.

💳 DIGITAL AUSTRIA

Digital Austria is careful to pursue a digitalisation policy from which as many people as possible can benefit. In everyday terms, that means reducing bureaucracy – making many things easier for businesses and people – carrying everyone forwards.

an king

The EU's "Digital Economy and Society Index (DESI)" documents Europe's digital performance. The DESI 2023 report shows that Austria has above-average results for human capital, the digitalisation of businesses and digital public services.

💳 RANKING

On the United Nations' E-Government Development Index, Austria is one of the leading countries. That is to say, when it comes to digitalisation, the Austrian public administration system is ahead of major industrial nations such as Germany and Canada.



💳 DIGITAL AUSTRIA

The Digital Austria brand is good for Austria's prosperity and also brings benefits for the general population. The Digital Austria campaign is motivated by the ultimate vision of a society in which people find the perfect conditions for embracing digitalisation, responsibly and successfully, in all areas of their lives.

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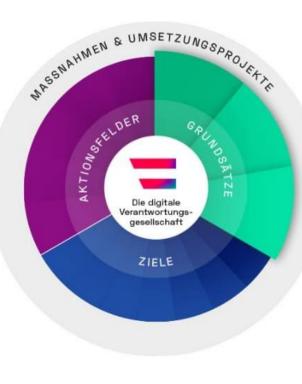
The Digital Action Plan for Austria

- The government is working to achieve digitalization for all society, business and the public administration service.
- Universal and comprehensive digitalization will support faster growth and will also create new jobs and opportunities for everyone.
- The Digital Action Plan was developed in a broad-based, agile process.
- Experts from all kinds of different specialist areas in different government departments were equally involved, together with those who will benefit from the projects and measures being taken.
- The different stages of the action plan are being elaborated on a scientific basis.
- Fact-finding process resulted in concrete projects or legal measures for which implementation plans and budgets are drawn up.
- In each area of action there are also specific experts who take part in the project and keep the public

informed about the progress that has been made and the goals achieved.



The Digital Action Plan for Austria





Grundsätze/**Principles**:

- Creating growth, jobs and prosperity.
- Increase quality of life for people in all regions and age groups.
 - Provide secure, modern and accessible administrative services for companies and citizens.

Ziele/Goals:

- Make the "Austrian system" crisis-proof.
- Expand competitiveness.
- Positioning Austria as a digital innovation region.
- Use data specifically for innovation.
- Design education, training and further training as a digital competitive advantage.
- Targeted support for digital research.
- Facilitate digital communication between the state and citizens.

Aktionsfelder/Fields of Action:

- The Digital Action Plan Austria develops measures in the crucial fields of action for Austria's future.
 - Economy: More growth and work through better use of data.
 - State: More digital service and lower costs for companies and citizens.
 - Education, research and innovation: More future through digital innovations for all.
 - Health & Care: More health and quality of life for all generations.
 - Security & Infrastructure: More data security and resilience for all of Austria.



MoF: Al-based data processing speeds up service

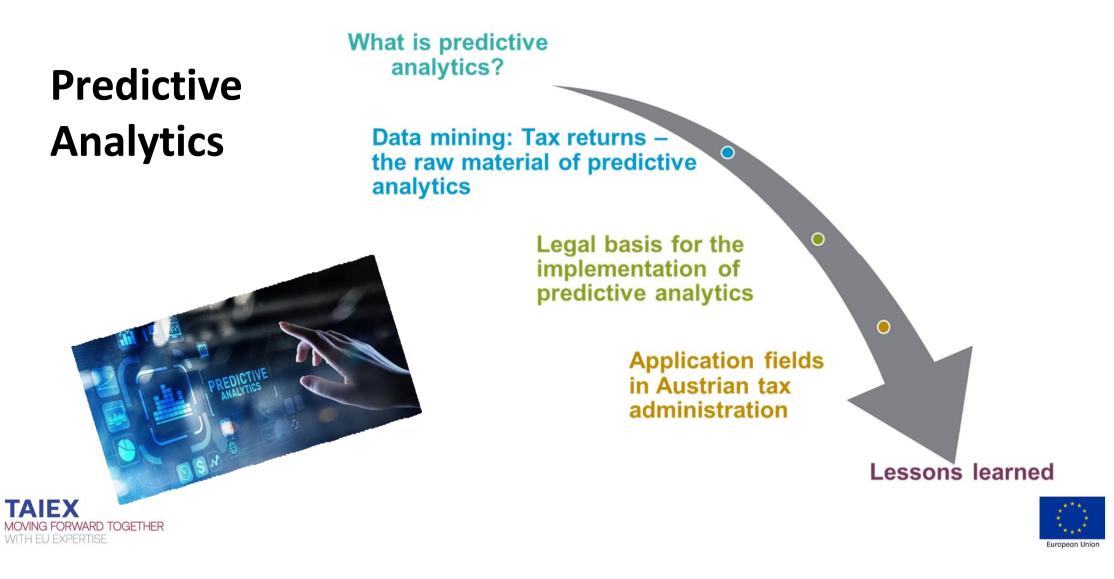
The Federal Ministry of Finance (MoF) is using advanced AI algorithms to better meet the needs of citizens and improve the quality of its services. The full version of ID Austria opened a new chapter in the digitization of Austria in

2023.

- Automatic extension of eligibility for family allowances
- Risk scoring for corporate tax assessments
- ID Austria in full operation







Predictive Analytics can be explained as

- the core technology for extracting patterns, structures and relationships from data to develop predictive models.
- the process of discovering significant new relationships, patterns and trends by analyzing large data sets using pattern recognition, statistical and mathematical techniques.

⇒ Basically a data analysis procedure

Predictive analytics and machine learning:

- Predictive analytics are used to make predictions on a set of data about the future ⇒ it can use predictive modelling, which can include machine learning.
- The way predictive analytics is implemented by Austrian Tax Administration can be described as a machine learning model.



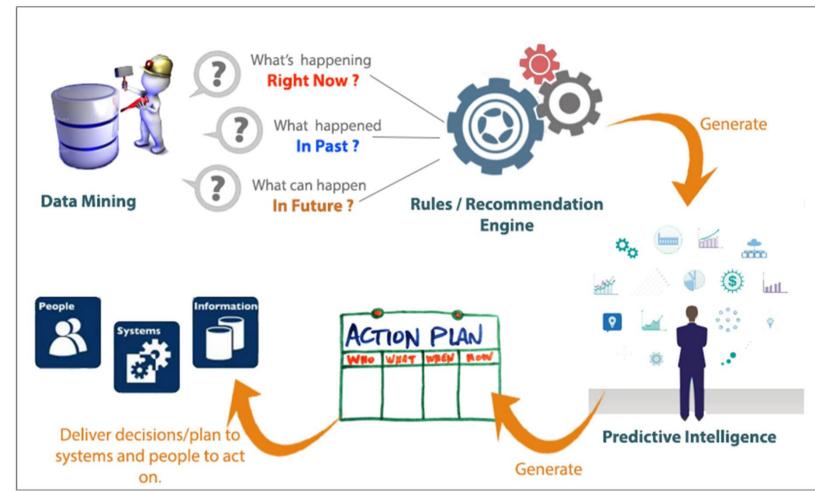


How Predictive Analytics works

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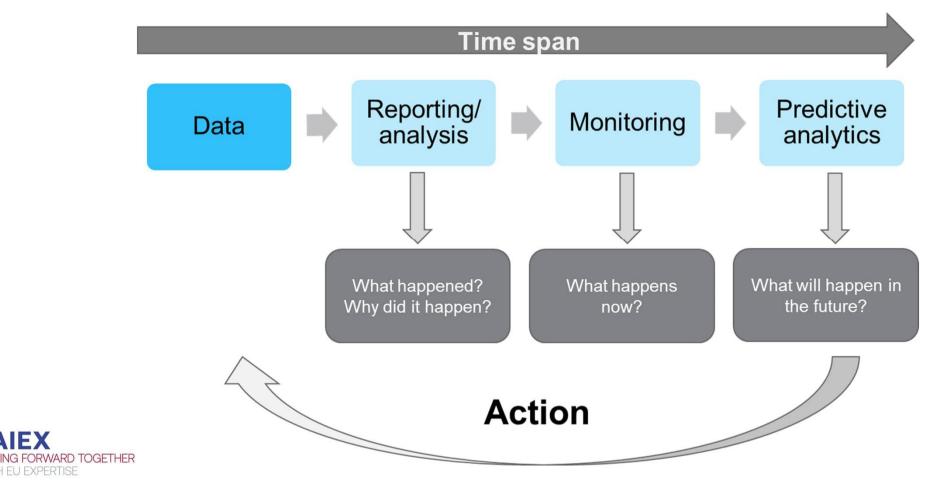




Predictive analytics – Core Steps

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Machine Learning

- Knowledge generation or modelling through machine learning.
- Supervised machine learning.

When training the model, the desired result or the correct answers are known to the model
 ⇒ basis for training the model is a certain amount of completed audits and their results
 ⇒ it is quite understandable whether the model assigns the cases correctly or delivers correct results.

• Unsupervised machine learning.

Necessary for tasks/cases where there are no tested data or known results
 ⇒ classifycation or categorization will be performed based on the characteristics of the data without the model knowing the result.

• Also rule-based methods (e.g. logic) are used.





Digital Skills initiative for Austria

Federal government adopts digital skills package

Digital Skills Austria brings 4500 workshops for basic digital skills and a comprehensive and uniform skills framework (DigComp 2.3 AT) for digital skills - adopted by the Council of Ministers on 5 July 2023.

4500 workshops throughout Austria

In 2024 we are ensuring together with the <u>QeAD</u> Digital Skills Office, that 4500 digitisation workshops "Digital Everywhere" for basic digital skills will be implemented in all Austrian municipalities.

The office will also be involved in implementing the work programme of the Digital Skills Initiative. This also includes the development and implementation of a standardised digital skills model.



Contact

Wasagesse 4, 1090 Wie Contact Team

Digital Austria Skills

Digital Überall

Digital Competence

For information about the Digital Skills Initiative, please see the Digital Austria Skills Platform.

Information regarding the free workshop offers of Digital Überall can be found here

National Framework of Reference For

Further Information about the National Litemework of

Reference for Digital Competence and mapping education and training offers to it is available her

🗊 Press 🥜 Career 🍈 Web Quick Access 🍂 Events 😒

COBOD Q What are you looking for

The DeAD Education : School Education Digitisation Education System : Advancing it Erosmic+ and ESC Study : Research : Teoching



News

Austria Wins Gold for Digital Überall

Austria's Digital Skills Initiative (DKO) earned first place in the "Administration Transformation" category at the prestigious "eGovernment-Wettbewerb" by BearingPoint and Cisco in September. This competition measures egovernment progress in Germany, Austria, and Switzerland and rewards innovative projects that drive sustainable modernisation of public administration. This year, Austria's DKO impressed the jury with its user-focused approach. The Digital Überall programme, organised by the Digital Skills Office, offers over 4,500 free workshops in communities to help citizens use and understand digital technologies safely.



Digital Skills Office



https://oead.at/en/expertise/geschaeftsstelle-digitale-kompetenzen



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Digital Skills initiative for Austria

Shaping Europe's digital future together

The **Digital Decade 2030** is the EU's **digitisation strategy** and defines objectives and paths for the digital transformation in Europe by 2030. The sustainable and people-centred version aims to strengthen the digital society, citizens and companies. The policy programme of the Digital Decade is based on the Digital Compass. The Digital Compass defines **digital skills and competences** as one of the four dimensions for the future.

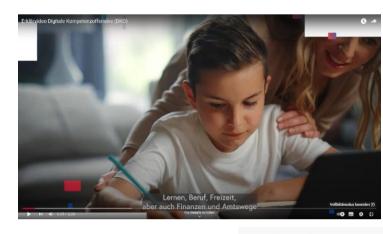
The four goals of the digital compass:

- 1. Skills: Building a digitally skilled population and highly qualified digital specialists
- 2. Infrastructures: Building a secure and sustainable digital infrastructure 3. Business: Digitisation of companies
- 4. Public Services: Digitisation of public services

The Commission will realise the EU's digital ambitions for 2030:

- Targets at EU level and target paths at EU and national level
- a common governance framework to monitor progress and address weaknesses
- Multi-country projects with combined investments by the EU, the Member States and the private sector

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https://www.you tube.com/watch? v=6Cy1T-bO1DE

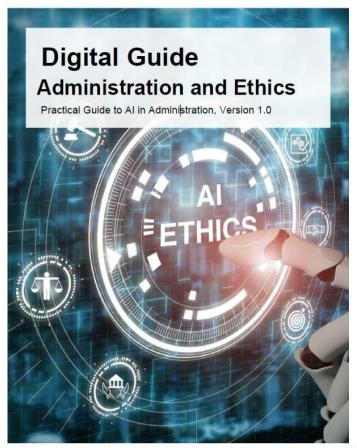
Goals and measures

Teaching digital skills	+
Strengthen basic digital skills	Ŧ
Increase proportion of IT specialists	+
Talent development	•
National reference framework for digital skills	Ŧ
Role model for the public sector	Ŧ
"Digital Skills for All" initiative November and December 2023	ŧ



Al & Digitization – A new data culture

- Digitization in the context of culture and ethics.
- Efforts to integrate digital literacy and ethical guidelines into public services are crucial to the development of innovative and sustainable solutions.
- Advancing the labeling requirement for AI systems at European and national levels.
- Who is responsible for the actions of AI-systems?
- Manual for "Digital Administration and Ethics" supports all public service employees in dealing with AI.



Bundesministerium Kunst Kultur

öffentlicher Dienst und Sport





Al Governance, Security an Law

- Legal uncertainty can delay the spread of AI, for example if there is uncertainty about data ownership or data protection.
- To ensure that AI is widely disseminated, policymakers must reduce this uncertainty.
- Al must be as safe, transparent and reliable as possible through clear rules for companies, governments and citizens.
- A stable regulatory framework can contribute to a positive climate for AI (e.g. technology law, data protection law, product liability).
- European and international cooperation plays an important role, e.g. in the emerging European Digital Single Market.

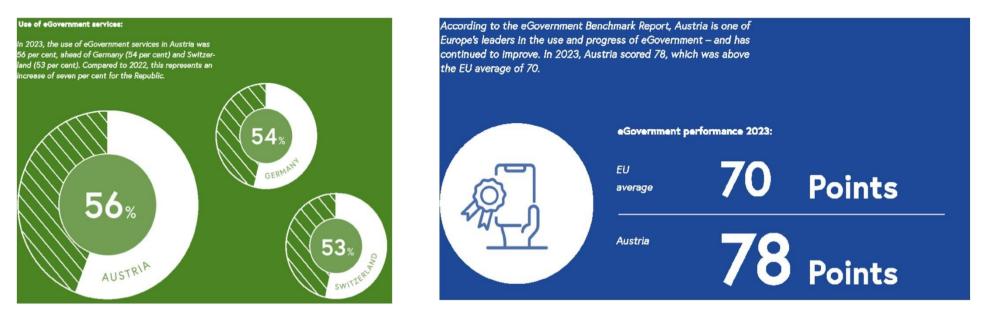




Al – Facts & Figures

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- The growth potential through digitalization is up to 1.9% per year AI alone can enable an additional 1.6% annually GDP-growth by 2025.
- By pushing digital transformation 20,000 jobs can be created every year.
- 1 billion euros in investments in digitalization trigger a further 1.2 billion euros across the entire economy.
- Digitalization measures achieve results by simplifying administrative processes additional added value for companies of up to 100 million euros.





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