



AIMS OF THE WORKSHOP

To present the Iron Curtain
 Trail as an international business opportunity for SMEs

To present opportunities and tools of Artificial Intelligence
 (AI) for daily use of SMEs



AGENDA

Session 1: 12.30-14.00

- Introduction: Turning Global Tourism Challenges into Business Opportunities
- Understanding Tourism Trends to Improve Daily Business
- Presentation of the Iron Curtain Trail (ICT)
- How to Join the ICT Bookable Products
- 5. Q&A and Conclusions

Session 2: 14.30-16.00

- Opportunities of Al for tourism SMEs
- 2. Q&A and Conclusions

WHO ARE WE



Institute Iskriva

- Regional& tourism development
- Amazon of Europe Bike Trail





UP FTS

- Faculty of tourism studies
- Leading
 multidisciplinary
 institution for tourism
 education and
 research in Slovenia
 and CentralMediterranean Europe



WPRED

- Sustainable regional development
- Iron Curtain Trail and EuroVelo 13

THIS WORKSHOP IS FOR:

Tourism SMEs along the trail

- Tour operators & travel agencies
- Service providers
 - Accommodations, spas
 - Restaurants
 - Bike rentals, repairs
- Experiences
 - Guided tours, workshops with guests
 - Museums, visitor centers

Business support organisations

- Tourism boards
- DMOs
- Tourist info centres
- Chambers of commerce
- Hotel associations etc.

Iron Curtain Trail

Long-distance cycling trail

 EuroVelo 13 - over 10.000 km long, (3.000 km in the CE region)

- Crosses 20 countries
- https://en.eurovelo.com/ev13





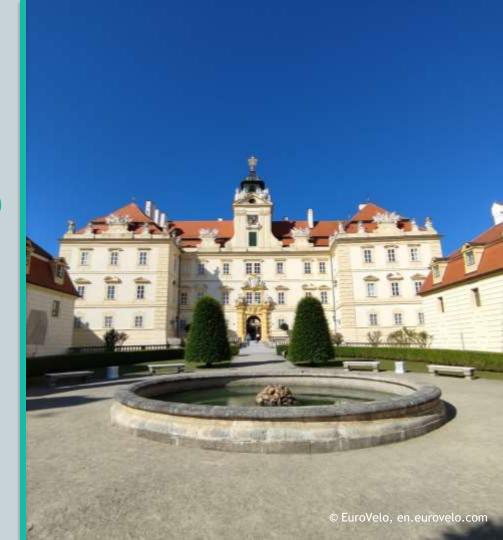
Rich cultural and natural heritage

 Scenic diverse countryside, national parks, and urban areas

Remnants of the Iron
 Curtain

Cultural Route of the Council of Europe in 2019

14 UNESCO World Heritage Sites along the route



Overlaps with the European Green Belt

- An initiative of the European Union to protect natural heritage and areas such as forests, moors, mountains and river valleys along the former Iron Curtain
- A habitat for many endangered species of flora and fauna





The ICTr promotes:

- Sustainability
- Environmental awareness
- Cross-border cooperation
- Preservation of cultural, historical, and ecological values

GLOBAL CHALLENGES

Development of a business model responding to:

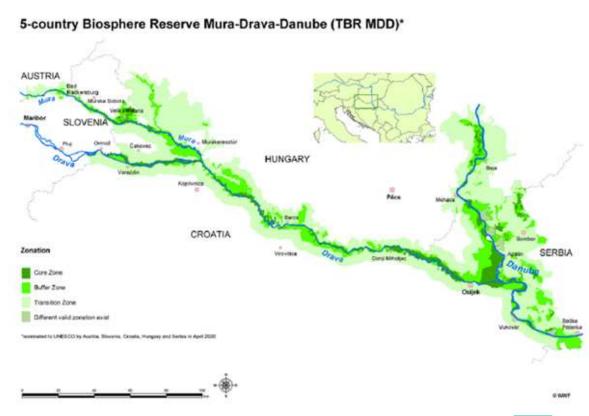
- Climate change affecting ecosystem and production capabilities

- **Global competition** and challenge of added value creation, resulting in increased mobility of population and resources, creating the need to change the organisation of work
- **Limited resources** for society's welfare creating the need for ecologically and economically viable sustainable business models

EXAMPLE: DEVELOPMENT AND BUSINESS CHALLENGE

5-country destination Amazon of Europe

Unknown
Poorly accessible
Rural with strong emigration
Protected area
Business climate



OUR APPROACH

Turning challenges into opportunities

- Cycling as a sustainable transport option
- 5-country Biosphere Reserve as a unique brand
- Unknown areas as a gateway destination
- Connecting & promoting local offers internationally



OUR RESPONSE

International long-distance cycling product, offering:

- Individualisation cycling at own pace, wishes etc.
- Longing for self-realisation (away from crowds, heat, daily stress)
- Bikes & e-bikes longer distances & variety of sights
- Suitable for all ages, especially 50+
- Cyclists looking for small family accommodations and immersive experiences (e.g. cooking fish paprikaš)
- Regeneration of people and environment



RESULT

www.visitaoe.com







+586 50:467 457

Things to do?

About destinat

Cycling





13-day programme: AT - SI - HR - HU

Thru Biking North Route Tour

imagine pedaling through the stunning landscapes of Austria, Slovenia, Hungary, and Croatia, as you conquer the entire 11-stage Amazon of Europe Bike Trail on North Route, covering a thrilling 550. kliometers.



7-day programme HR - RS - HU

Round trip East

Pack your sense of adventure and your best bike shorts because you are going on a whirlwind ride through the charming landscapes of Croatia. Serbia, and Hungary, where the Drava and Danube rivers meet.

From 389 € per person



GOAL & INVITATION TO JOIN

International bookable offers for Iron Curtain Trail



Cycle the Baltics: Lithuania -Latvia - Estonia



Explore the Baltic coast and the National Parks of Lithuania, Latvia and Estonia on very scenic routes. The tour includes the three capital cities -Vilnius, Riga and Tallinn - with their Old towns designated as World Heritage Sites by UNESCO; the Curonian Spit which was previously closed to visitors; nowadays it is often called the Lithuanian Sahara; the beautiful Gauja River valleys and the largest and most beautiful Estonian island of Saaremaa.



Cycling tour from Klaipeda to Riga (West Lithuania - Latvian Kurzeme / Courland)



BLATVIA BLITHUANIA

A self-guided cycle tour through some of the most beautiful areas of Lithuania before crossing into Latvia to explore its hidden treasures: Kurzeme (Courland) with its historical towns. Liepaja and Kuldiga, and finally Jürmala sesside resort and Riga, the capital city and former Hanseatic port. The journey begins by cycling on cycle trail along the Baltic coast. The route continues through beautiful countryside in Western Latvia with its changing landscape. small villages and old towns.



The Wine Route by Bike





AIMAMORES

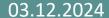
Our tour is a combination of gastronomic, educational and cycling activities in one of the best red wine areas of Romania. The standard route is organized for the Dealu Mare region, but we can customize the tour in any wine region, including along EuroVelo6. - Short bike route. through the vineyards - One night accommodation in the area - Guided winery visits and wine tastings - Kids friendly. educational, gastronomic tour - Professional support, guiding and assistance - Bike rental, on reques...







ICTr-CE module 1



- How the travellers' and cyclists' habits change
- Trends in rural tourism
- IT challenges & opportunities for SMEs

How do travellers' and cyclists' habits change?









Increased demand for sustainable and active tourism

- Travelers are shifting towards more environmentally friendly forms of tourism, particularly cycling, which promotes a healthy lifestyle and sustainability.
- Cyclists often seek out eco-friendly accommodations and prefer engaging with local communities to minimize their environmental footprint. This aligns with the broader movement towards regenerative tourism, which aims not only to reduce environmental impact but to improve the destinations cyclists visit (Simonsen & Jorgenson, 1998; European Parliament, 2012).
- As cycling tourism is a low-impact form of travel, it is increasingly embraced for its economic, social, and environmental benefits (Rejón-Guardia, García-Sastre, & Alemany-Hormaeche, 2018).
- The rise of cycle tourism has prompted destinations to build cycling infrastructure and offer services catering to cyclists (Gantar, Kočiš, & Pehnec, 2012).











Adoption of e-bikes

- E-bikes have transformed cycling habits by making it easier for individuals of varying fitness levels to cycle together.
- A dramatic development has been growing rapidly, is the adoption of electric bikes. First in China, then in northern Europe, and now all over the world. The total number of e-bikes grew from 290,000 in 2000 to 35.3 million in 2016 (Campbell, Cherry, Ryerson, & Yang, 2016). Over 90% of them are in China, but the number of e-bikes in northern Europe has been rising sharply: from 98,000 in 2006 to 1.5 million in 2016,(CONEBI, 2016). Thirty percent of all bike sales in 2016 in the Netherlands and Belgium are e-bikes and other countries are following this trend.
- The trend of e-bikes is pushing tourism service providers to adapt their offerings, such as providing charging stations and infrastructure for these bikes (Bike Europe, 2019).









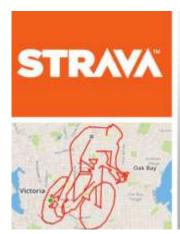






Technology integration

- Mobile apps and online platforms have become integral to the cycling experience, changing how cyclists plan and navigate their trips.
- Apps like Strava and EuroVelo provide interactive maps and route planning features, enhancing the experience of exploring new trails and increasing cyclists' confidence in traveling without guides (Gantar et al., 2012).
- Social media platforms are also influencing cycling hat many cyclists seek inspiration and advice from blogs and media content (Weed et al., 2014).









Trends in rural tourism





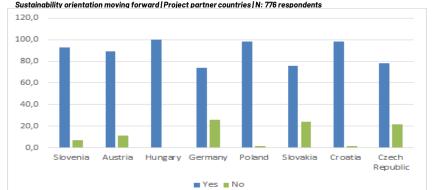




Growing demand for rural tourism

- One of the major trends in rural tourism is the increased demand for sustainable and nature-based tourism. Tourists are increasingly seeking "green holidays" in rural areas, driven by a desire for active and environmentally conscious travel experiences (Andreev & Bratec, 2024; Dickinson & Lumsdon, 2010).
- As more travellers look for ways to reconnect with nature, rural destinations need to develop tourism offerings that emphasize sustainability and authenticity, making efficient use of natural resources (European Parliament, 2012). Businesses can improve by aligning their offerings with these sustainability values, enhancing visitor satisfaction while contributing to environmental preservation.









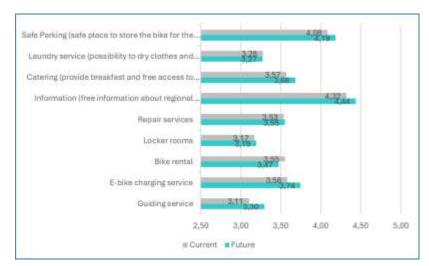




Cycling tourism in rural settings

- Cycling tourism plays a pivotal role in the growth of rural tourism. In Europe, cycling tourism trends have spurred the development of infrastructure that enhances rural areas as attractive destinations (Stoffelen, 2018).
- By leveraging cycling routes, such as the EuroVelo network, rural communities can attract both local and international cyclists. Small business owners, such as those providing bike services or accommodations, can seize opportunities by catering specifically to cyclists' needs (Gantar, Kočiš, & Pehnec, 2012). By improving cycling infrastructure, offering related services, and integrating local products into the tourism experience, rural businesses can attract more tourists.

What specific services for cyclists do you currently/future provide? (Evaluate how important it is for your business from 1 to 5, with 5 meaning the most important)| Project partner countries | N: 776











Embracing local experiences

- Modern tourists increasingly seek authentic, localized experiences in rural areas. They prefer to engage with local communities, agricultural practices, and cultural heritage (UNWTO, n.d.).
- Rural tourism operators can enhance their businesses by incorporating local products and traditions into their offerings, such as farm stays, food tours, and workshops that highlight traditional crafts. This can help differentiate their offerings and meet the growing demand for culturally immersive experiences.













Rural entrepreneurship and microenterprise development

- The rise of rural micro enterprises in tourism is another critical trend (Jardim, 2021).
- Small-scale entrepreneurs in rural areas are uniquely positioned to capitalize on the demand for intimate, personalized tourism experiences. However, these businesses face distinct challenges, such as limited access to skilled labor and infrastructure (Cunha et al., 2018; Lyons et al., 2019). To address these challenges, rural tourism entrepreneurs must focus on building networks and partnerships that enhance their operational capacity.











Challenges and opportunities for rural tourism

- While rural tourism has significant potential, it is often hindered by infrastructural and entrepreneurial challenges, such as inadequate internet access, a lack of skilled labor, and limited financial resources (Cunha et al., 2018).
 - Recreational trail development is positively correlated with income multiplier and local economic impact (Lukoseviciute et al., 2023)
- Businesses can improve by addressing these gaps through partnerships with local authorities, investing in better internet connectivity, and participating in training programs to build entrepreneurial and managerial skills (Lyons et al., 2019). The ability to innovate and adapt to the changing needs of tourists—whether through offering new types of experiences, such as bikepacking or sustainable tourism practices—will be key to the success of rural tourism operators.
- A longitudinal study about innovation and productivity in tourism SMEs (Nguyen et al., 2021) shows that:
 - Technological innovation improves **productivity** probability by 27.3%, marketing innovation by 28.3%;
 - **Staff training** increases by 6.9% for technological and 5.7% for marketing innovations;
 - Firms **networking** for innovation are 23.6% more likely to report technological and 18.3% for marketing innovations.

IT challenges & opportunities for SMEs





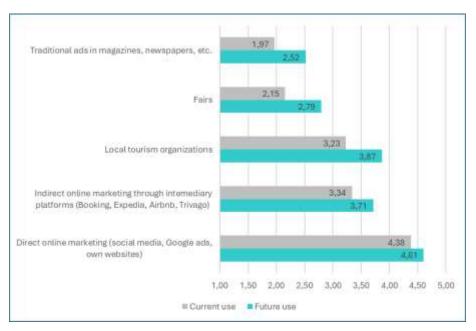






- One of the greatest opportunities that digital technologies present to SMEs in the tourism industry is the access to global markets through digital platforms. Online travel agencies (OTAs), social media, and review websites allow small businesses to reach customers far beyond their immediate location (Dredge et al., 2019). SMEs can leverage platforms like TripAdvisor, Booking.com, and Airbnb to market their services, gain reviews, and attract international customers. These platforms provide marketing tools and booking systems that can significantly improve visibility and customer acquisition.
- Digital marketing is another opportunity for SMEs, enabling them to engage directly with their target audience via social media, SEO, and email campaigns (Zaragoza-Sáez et al., 2022). However, many small businesses may lack the expertise or resources to implement comprehensive digital marketing strategies effectively.

The present and future importance of promotional channels among cycling tourism SMEs from partners countries | Project partner countries | N: 776







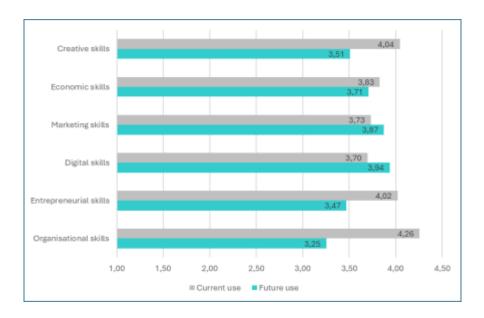






- Despite the opportunities, a significant challenge for SMEs is the lack of digital skills and resources among their employees (OECD, 2021). Many tourism SMEs struggle with adopting digital technologies due to a shortage of technical expertise or insufficient staff to manage new systems (Carlisle et al., 2023). This digital skills gap is especially evident in areas such as data analytics, digital marketing, and Al-driven technologies. A study involving 1,668 tourism organizations across Europe found that essential skills like online marketing, communication, and social media management were highly needed, but Al, AR, and VR skills showed the largest gaps (Carlisle et al., 2023).
- Limited financial resources also prevent many SMEs from investing in the technology infrastructure needed to remain competitive. The cost of adopting new technologies, upgrading systems, or hiring skilled professionals can be prohibitive for smaller businesses (OECD, 2021).

The importance of present and future skills of the cycling tourism SMEs from partner countries | Project partner countries | N: 776











Adapting to new technologies: a necessity for growth

- To keep up with the digital transformation, SMEs need to understand how adopting technologies can improve their daily business operations. The digitalization of internal processes (e.g., booking systems, customer management, and payment processing) enhances operational efficiency, reduces manual work, and improves customer service (European Commission, 2021). For example, integrating online booking systems and digital communication channels can streamline operations, reduce administrative tasks, and allow businesses to focus on enhancing customer experiences.
- As Al-driven technologies such as augmented reality (AR) and virtual reality (VR) continue to grow in tourism, SMEs have the opportunity to create unique, personalized experiences that cater to modern consumers' demand for immersive and interactive travel (Carlisle et al., 2023). However, to take full advantage of these technologies, SMEs will need to invest in staff training and infrastructure.









Digital transformation and innovation

- The European Commission's digital transition strategy for tourism highlights the importance of upskilling and reskilling the workforce, particularly in the context of tourism SMEs (European Commission, 2021). Businesses that invest in employee training on digital tools and platforms are more likely to see long-term benefits such as improved service provision, better resource management, and enhanced customer communication.
- E-business skills are essential in navigating digital innovations and ensuring the business can effectively use digital tools for branding, marketing, data collection, and customer management (Zaragoza-Sáez et al., 2022). SMEs that can adapt to these changes will not only improve their daily business operations but will also be better positioned to compete with larger enterprises that already leverage advanced digital tools.
- LINK: European Innovation Council and SMEs Executive Agency (EISMEA), **Funding opportunities**









Strategic steps for SMEs to overcome challenges

- To overcome these challenges, SMEs can focus on building partnerships with larger organizations or technology providers to access digital tools at a lower cost. Government and industry-backed initiatives, such as the Transition Pathway for Tourism and the EU Agenda for Tourism 2030, provide SMEs with access to training programs, digital tools, and other resources to support their digital transformation (European Commission, 2021).
- SMEs can also adopt self-learning programs and encourage their employees to engage in continuous education, fostering a workforce that is adaptable and equipped to handle digital innovations (PANTOUR, 2019). By developing agility and flexibility in dealing with digital processes, businesses can remain competitive even in the face of disruptive technology shifts.
 - LINK: Country skills reports focusing on tourism and tourism employment.
 - <u>LINK: A comprehensive pack of tourism skills toolkit.</u>







ICTI CE

Questions?

Thank you!



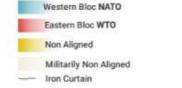


About the Iron Curtain Trail

- World War 2 Europe is divided politically and ideologically (Western and Eastern block)
- Winston Churchill Speech in Fulton ,A shadow' had fallen on eastern Europe, which was now cut off from the free world by 'an iron curtain'
- 2nd part of 1940s the technical barriers were gradually implemented along the border regions
- Until 1990s there were several types of Iron Curtain (e.g. minesystem, electric signalling system)







*Albania withdrew from the Warsaw Pact, WTO, (Communist Bloc) in 1968





About the Iron Curtain Trail

- From 1980s the period of relief begun (Gorbachev)
- Pan-European Picnic in Sopron
- Fallen of Berlin Wall
- After 1990 demolition and termination of the Iron Curtain Trail

2004: Schengen "extension"





The European Green Belt

- No industrial zones
- Zone of "No mans land"
- Biodiversity, untouched nature
- special value of the natural and traditionally cultivated landscapes along border areas
- 2003 The birth of European Greenbelt Initiative (Bonn)
- The European Green Belt is an exceptional symbol of European history



The European Green Belt



Before 1989: Görsdorf with the death strip



After 1989: Nature is back again in Görsdorf

Source: Presentation by Michael Cramer Szombathely, February 7th, 2013 (ICT project)

EuroVelo 13 - Birth of a cycling route

- 2005 Born of Iron Curtain Trail
 "The Iron Curtain Trail should be supported as an example of Soft Mobility and as a symbol of the reunification of Europe."
- Role model: Berlin's Wall Trail
 (160 km) German Border Trail
- The "Iron Curtain Trail" is part of Europe's collective memories
- A trail from Barents sea to the Black Sea
- Covering 20 countries (14 is from EU), more than 9000 km

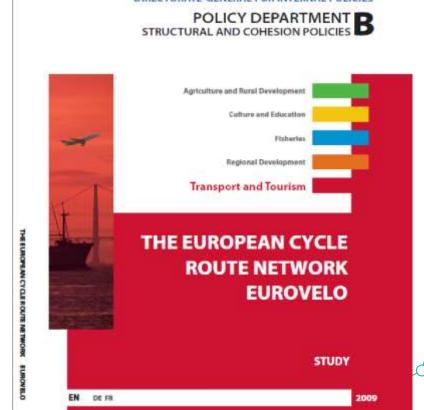


Source: Presentation by Michael Cramer Szombathely, February 7th, 2013 (ICT project)

EuroVelo 13 - Birth of a cycling re

- Study evaluates the challenges and opportunities for cycle tourism in Europe
- "Iron Curtain Trail" is expressly mentioned
- history as the only potential for tourism in remote regions
- Transnational workshops on the Iron Curtain Trail 2009/2010 (Warszava, Sopron, Sofia)
- Macedonia: Memorandum of Understanding





EuroVelo 13 - Birth of a cycling route

Main principles:

- as close as possible to the former border
- 2. as comfortable as possible
- 3. avoiding highly frequented roads
- 4. frequently crossing the former border
- 5. integrating numerous historic monuments

EuroVelo 13 - Iron Curtain Trail

- EuroVelo is a network of 17 longdistance cycle routes that cross and connect Europe.
- The routes can be used by longdistance cycle tourists, as well as by local people making daily journeys.
- Only routes approved by the ECF can be called EuroVelo
- Aims of Eurovelo initiative:
- 1. Quality
- 2. Communication
 - 3. promotion



Source: https://en.eurovelo.com/about-us

EuroVelo 13 - Iron Curtain Trail

- More than 10 550 km living history (14 UNESCO site)
- Unique nature and cultural heritage along the trail - tourism potential
- Longest EuroVelo route in Europe
- Several projects in the past





Iron Curtain Trail as a Cultural Route





- Reminder of peace and reconciliation
- The Iron Curtain Trail covers 20 European countries
- connecting many historic buildings, monuments, museums and landmarks
- National parks with varied flora and fauna and unique landscapes, left almost untouched as they formed part of the border areas
- Certified in 2019, re-certified in 2023

Iron Curtain as a Story

- Iron Curtain is a "Joint European Rememberance" heritage
- "Once divided, now connected"
- Well documented (researches, videos, pictures)
- Living history (many people lived in these times)
- Emblematic locations (European wide) and smaller, regionally or
 - locally known stories
- European initiatives:
 - EuroVelo 13
 - Cultural Route
 - European Peacewalk Initiative



Poland

- Gdansk Shipyard
- Museum of WW II in Gdansk
- Artillery Battery at Redłowo
- Słowiński National Park
- Woliński National Park
- Joint section of EuroVelo 10 (Baltic Sea Route) and EuroVelo 13









Germany

- Island of Usedom
- Western Pomerania Lagoon Area National Park
- Grenzhus Schlagsdorf
- Marienborn border crossing
- Elbe River
- Harz National Park
- Point Alpha
- Mödlareuth ("Little Berlin")









Czechia

- Svaty Kriz Memorial
- Rozvadov barbed wire cutting 1989 memorial and Iron Curtain Museum
- Abandoned villages (Mostek, Pleš)
- National Park of the Bohemian Forest
- Čížov ICT outdoor exposition
- The "Gateway to Freedom"
- Lednice-Valtice UNESCO Cultural Landscape









Austria

- Greenbelt Center Windhaag
- Exhibition "Schauplatz Eiserner Vorhang" at Weitra Castle
- National Park Center Thayatal
- Schloß Hof and Brücke der Freiheit
- Bildein, Grenzerfahrungsweg



Slovakia

- Triple point of Slovakia, Czechia and Austria
- Bunker Piesočná
- Memorial of Iron Curtain, Devinska Nová Ves
- Devin Castle
- Bratislava
- Bunker BS-8 Hřbitov









Hungary

- Bridge at Andau
- Fertő-Neusiedl AT-HU UNESCO site (Landscape, castles)
- Pan-European picnic park
- Castles (Kőszeg, Siklós)
- National Parks (Fertő-Hanság, Őrség, Duna-Drava)
- Fortification system
- "Amazon of Europe"
- Villány and its wine region + Pécs









Hungary - dig into deeper

- Apátistvánfalva, Museum of Border Guards
- Lovászi, ICT museum and bunker (Páka, Molnári)
- Friendship park in Zitkovci-Bödeháza
- Hodos, guard tower
- Szalafő, Park of Border Guards
- Felsőcsatár, ICT museum









Slovenia

Lendava + Vinarium tower



Croatia

- Koprivnica
- Hlebine, Galery of Naive Art
- Monument in Batina
- Osijek
- Kopacki rit National Park





Questions?

Thank you for your attention!

Sources of pictures

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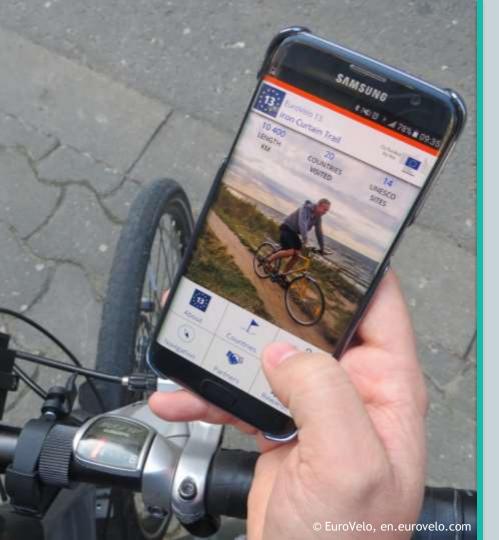
ICTr - CE project Innovative participatory sustainable business model for cycling along the Iron Curtain Trail

- Duration: 03/2023 02/2026 (36 months)
- Project budget: 2,67 M EUR
- 12 Partners from 8 countries (PL, DE, HR, HU, SI, AT, SK, CZ)
- Lead Partner: Westpannon
- Co-funded by the Interreg Central Europe Programme

Aims of the project

- Develop participatory business model
 unite tourism service providers
 (accommodations, restaurants,
 attractions, etc.) along ICTr under
 the Iron Curtain Trail brand
 (bookability & joint marketing)
- Create and promote unique cycling vacation packages
- Tackle the socio-economic and environmental impacts of the tourism sector





Aims of the project

- Strengthen local and international partnerships by fostering collaboration among SMEs, tourism boards, and other business support organisations
- Provide training to tourism SMEs to enhance their digital skills and foster co-creation, networking and new tourism offer development

AMAZON OF EUROPE BOOKING CENTER

Expanding the deals to ICTr

Amazon of Europe Booking Center

To provide the most comfortable adventures for our guests, the **Amazon of Europe** destination has its own Info & Booking Center where you can book your full package holidays – all you need for a trouble-free and unforgettable experience in the Amazon of Europe.

The comprehensive services of the Amazon of Europe Info & Booking Center include:

- . Unique individual travel planning and booking with online booking system.
- Top advice from an experienced and competent team.
- Accommodation in best rated local hotels and bed and breakfasts.
- . Food with focus on local cuisine (half board or B&B).
- Services such as luggage transfer, shuttle services and transfer back to the starting point.
- AoE Kingfisher Service 7/12 Hotline.
- Extended travel documents with the itinerary of your holiday adventure including cycling, river or/and authentic local experiences.
- Information on must see locations, backed by a smartphone app with GPS guiding for cycling.
- Give Back to Nature programme By booking a journey with the AoE Booking Center you support nature conservation projects in the UNESCO biosphere reserve.
- All travel offers comply with the EU Package Travel Directives 90/314/EEC.



GUEST PROFILE

Booking long-distance cycling holidays

- Age: 50+
- Small groups 2-4 people
- Friends
- Coming from: Austria,
 Germany, the Netherlands
- Staying for 7-10 days
- Average spending: 1.000 € per holiday, 130 €/day

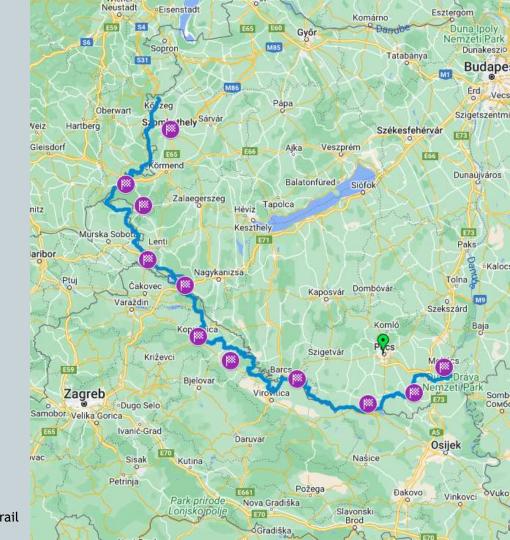


Creating bookable offer along ICTr

Iron Curtain Trail Tour

- Hungary
- Slovenia
- Croatia





WE ARE LOOKING FOR

1. Tour operators offering cycling holidays along ICTr

2. Accommodations from Hungary, Slovenia, Croatia and Serbia

- 3. Experiences & service providers
 - 1. ICTr-related experiences
 - Gastronomy
 - Bike rentals
 - 4. Spa & wellbeing experiences

WHY JOIN

Becoming part of international offer

- Increased international visibility & marketing
- Member of the AoE Hub
- Extended tourism season to spring and fall
- Bookable offers

 Active contribution to sustainable tourism practices aligning with the EU's green transition goals

REQUIREMENTS TO JOIN

- Along the ICTr, max 10 km from the trail
- Established business organisation
- Knowledge of at least English or German knowledge
- Aiming for sustainability
- Accommodations:
 - Bike-friendly
 - Acceptance of one overnight
 - At least bed & breakfast, dinner is a plus

NEXT STEPS

Contact us or regional partners if you are interested to join

Join national workshops

Contact person:

Petra Klanšek

Zavod Iskriva

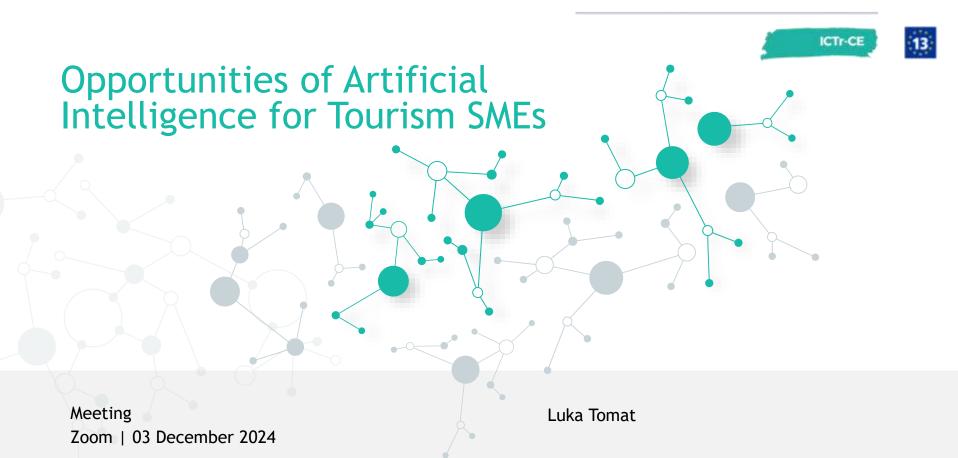
petra.klansek@iskriva.net

LIST OF UPCOMING NATIONAL WORKSHOPS



Short break





//

AGENDA

- Introduction: what is AI and what is not
- Possibilities of using AI in tourism
- Good practices of using AI in cycling tourism
- How to utilize AI in daily business to be more efficient
- What are the key digital skills needed to utilize Al
- Q&A



WELCOME SPEECH

Good [morning/afternoon], everyone,

It is my absolute pleasure to welcome you all to today's workshop, *Opportunities of Artificial Intelligence for Tourism SMEs.* I'm thrilled to see such an enthusiastic gathering of professionals, innovators, and visionaries from the tourism industry, all eager to explore how artificial intelligence can redefine the way we do business.

The tourism sector, especially small and medium enterprises, has always been a cornerstone of local economies and cultural exchange. You play a crucial role in creating memorable experiences for travelers while contributing to sustainable growth in communities. Yet, we also know that the journey in this dynamic industry is not without challenges – from meeting ever-evolving customer expectations to managing resources effectively and staying competitive in a fast-paced, tech-driven world.

That's where artificial intelligence comes in – not as a distant futuristic concept, but as a present-day ally. All has already begun transforming industries worldwide, and tourism is no exception. Whether it's personalizing guest experiences, streamlining operations, enhancing marketing strategies, or analyzing data to predict trends, Al holds immense promise for businesses like yours.

Today's workshop is designed to empower you with insights, tools, and strategies to harness the potential of AI effectively. Our distinguished speakers and facilitators will guide us through realworld applications, success stories, and practical advice tailored specifically for tourism SMEs.

We encourage you to ask questions, share your experiences, and engage actively. This is a space for collaboration and innovation. Together, we can uncover opportunities that not only boost individual businesses but also strengthen the tourism industry as a whole.

Before we dive into today's agenda, let me take a moment to thank our organizers, partners, and sponsors who made this workshop possible. Your dedication and support have been instrumental in bringing us all together.

So, let's embark on this exciting journey of discovery and innovation. May today inspire new ideas, ignite partnerships, and equip you with actionable knowledge to take your business to new heights.

Welcome once again, and let's make this workshop a resounding success!

Thank you.







ABOUT ME

- Cooperation / leadership on many consulting and research projects in the field business informatics
- Research , pedagogical and professional work from the field digital transformations , business analytics , electronic business and management business processes
- Implementation numerous "hands on" workshops in the field business informatics and applications digital technologies
- Lectures and mentoring students on summer ones schools:
 EIT Digital Summer School (Driving Europe's Digital Transformation), Ljubljana Summer School (Smart Cities for Sustainable Future)
- Cooperation at fundamental research ARIS projects (Analytics mass data: from business insights to agility business processes, Business analytics and business models in supply rooms chains, Design organizations into digital get)
- Member research and structural of the ARIS project : Technologies internet of the future : concepts , architecture , services and socio-economic aspects
- Contact: luka.tomat@ef.uni-lj.si
- https://www.linkedin.com/in/lukatomat/









Who is Luka Tomat?

Sources

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- Small



都 Answer

Luke Tomat is an exademic and researcher at the University of Lukljums specifically within the School of Expoormics and Business. He holds the position of Assistant Professor in the Department of Business Informatics and Logistics.

Educational Background

- Backetor's Degree Completest in Business Information at the University of Luddjana in 2007.
- Master's Degree Earned in Information Management, also from the University of Ljubljona, in 2010.
- Ph.B. Focused on aperational research, particularly on optimization problems, culminating in a dissertation that he defended successfully in 2014.

Academic Career

Turnat worked as a young researcher at the Faculty of Economics from 2010 to 2014. Since 2017, he has been a regular faculty member, waching workers courses related to anformation management and business processes in both Savens and English. His teaching covers topics such as IT Management, Change Management, and Eights! Transformation is as as

Research Interests

His research interests encompass several areas:

- Optimization: Particularly in operational research and specific problems like the onedimensional cutting stock problem.
- Information Management: including data analytics, business process management, and the application of IT in sectors like trauman and healthcars.
- Digital Transformation: Investigating how digital technologies impact business practices * * *.

Ternat has also participaned in rumerous consulting projects related to data models, amelytics, and business process resignessing, contributing significantly to both academic ferrature and practical applications within his field is it.



Aust folkovir-up:



















10 AN HOUR LECTURE IN 10 SECONDS

- "We live in a time continuous changes"
- Exponential growth AI skills and usage tools. What today doesn't exist, will exist tomorrow
- Many of today knowledge won't be necessary tomorrow
- Necessary change in abilities of employees and companies
- The one thing that does not change is that at any and every time it appears that there have been 'great changes'. (Within a Budding Grove, Marcel Proust, 1919)







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INTRODUCTORY DEFINITIONS : ARTIFICIAL INTELLIGENCE

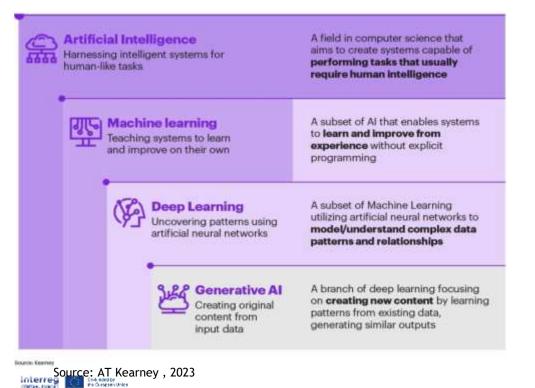
- 1950: Alan Turing publishes article entitled 'Computing Machinery and Intelligence', where he asks whether machines can think
- 1956: John McCarthy on conference at Dartmouth College coin the term "Artificial intelligence" define it as they knowledge about planning and construction intelligent machines.
- After that period the area artificial intelligence is quickly being developed numerous researchers , e.g. Minsky, Newell, Shannon , Rochester,...
- ..
- IBM "Deep Blue"
- ..
- Google, Amazon, Apple...
- ...
- GAI

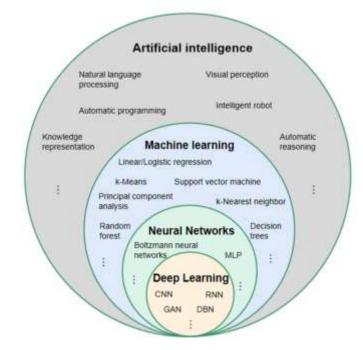






INTRODUCTORY DEFINITIONS: ARTIFICIAL INTELLIGENCE





Source: Li et al., 2021



Interreg



NOW OUR FOCUS: GENERATIVE AI

- Traditional AI systems are mainly used for data analysis and prediction/planning, but generative AI goes a step further by creating new content based on learning content
- Computers can therefore program, write poems and homework, control robots, open doors, show emotions (Sophia, Hanson Robotics), retouching, making movies, writing articles, talking to children, interpreting medical findings, playing poker and Diplomacy, making movies, answering customer questions and taking the CFA exam







Generative artificial intelligence (AI) refers to AI systems that can create new content, such as text, images, code, music, or videos, based on their training data and the prompts they receive. These systems "generate" original outputs rather than simply analyzing or classifying existing information.

Here are the key aspects of generative AI:

Core capabilities:

- · Creating human-like text responses to questions and prompts
- · Generating original images from text descriptions
- · Writing computer code based on natural language instructions
- · Composing music or creating artwork in different styles
- · Converting text to speech or generating synthetic voices

How it works:

These systems use large language models (LLMs) or other deep learning architectures trained on vast amounts of data. They learn patterns and relationships within this data to generate new content that follows similar patterns. For text generation, the AI predicts what words are likely to come next given the context, allowing it to construct coherent responses.

Common applications:

- · Content creation and writing assistance
- · Computer code generation and programming belp
- · Design and creative work
- Customer service chatbots
- · Language translation
- · Virtual assistants
- · Educational tools and tutoring

The technology has seen rapid advancement and adoption since 2022, with systems like GPT (for text), DALL-E (for images), and others demonstrating increasingly sophisticated capabilities. However, it's important to note these systems can also produce errors or biased content, and they require careful deployment and oversight.

Would you like me to elaborate on any particular aspect of generative AI?

84

INTRODUCTORY DEFINITIONS AND EXAMPLES OF USE

Improve sales force by, to insample, flagging rake, recum- mending next interactions such as additional product offerings, or identifying optimal customer interaction that leads to growth and retention	Identify clauses of interest, such as persisten or value overed through leveng- erg cumperative document analysis.	Enable search and question answering on companies pri- xale incrededge data leg, intracel and learning content)
Create or improve sales support charbots to help potential clarks under- stand, including techsical product understanding, and choose products		Automated accounting by sorting and extracting documents using automated email openers, high-speed scanners, machine learning, and intelligent document recognition

"When this generates it is in the early stages of maturity, organizations will work to consider use come; and their replications carefully and dataments the appropriate best of format connected."

auton	Operations	IT/engineering	Risk and legal	HR	optimization
Write marketing and seles copy locksding text, images, and videos (iig. 10 create satial media content or loc(frace) sates, content)	Create or improve cus- tomer support chatbets to recond questions about products, excluding generating rolevand cross-self leads	Write code and documentation to accelerate and scale delivelopments (eg. devient sample JavaScript oppressions into Pythen).	Draft and review legal documents, including con- tracts and potent applications.	Assist in creating interview ques- tions for careful date soceaument. log. largeted to fanction, quan- pury philosophy, and indistry!	Optimize com- munication of employees (ng. automate amail responses and lest translatur or change (one or wording iff feet)
Create product user guides of industry; chyanotect of the product of comments of comments or comments productly.	Identify produc- tion errors, encoration, and defects from mages to provine withouse for traum	Automatically generate or auto-complete data tables while providing contained information	Summarise and highlight changes in large backet of regulatory decurrents	Provide self-serve HR functions (eg. automate 1951 fers internations button surplayment out attraction of the self-self-self-self-self-self-self-self-	Create business presentations learned on text parameter, includ- ing visualizations from text
Analyze customer feedback by summarizing and ostroping important themas from ordination and another both program and anot	Streamine cus- tomer service by automating pro- cesses and vicrossing openic productivity	Generate syn- thetic data to improve training echanicy of machine beaming made a with lim- ted annihustural injust	Arreser ques- tions from large amounts of legal documents, including public and private con- acry information		Synthesize e summary (ng. from last, sibre decks, or unline video meetings)

Marketing and









Utility/employee

85

INTRODUCTORY DEFINITIONS - THE MOST KNOWN GAI TOOLS

- GPT -4o: currently the most known large language model
- Chat GPT a chatbot that enables use GPT (free), GPT 4o, GPT 4o-mini, o1-preview, o1-mini, " with canvas "; Chat GPT Education (usually payable)
- Microsoft Copilot: Microsoft a solution integrated into Bing, which uses GPT4 (free for users Microsoft 365 E3, E5, Business Standard, Business Premium, or A3 or A5 licenses);
- Over different developers tools, GPT-4 is accessible also to developers of IT solutions : https://platform.openai.com/docs/models/gpt-4-and-gpt-4-turbo
- GPT-4 Team: current the price \$ 25 + GST per month . Difference : the model does not learn on yours data ; possible management of users
- Grok-2 Beta Release : https://x.ai/ (as of August 2024, has not made a major impact so far)
- Gemini (UltrA): Google's new attempt to catch the train (6/12/2023; new version 8/2/2024)
- Claude 3.0 .: an Antrophich tool , introduced 03/04/2023, see https://www.anthropic.com/news/claude-3-family; Claude Sonnet update 10/22/2024 includes a computer ears Claude 3.5. Sonnet and Haiku
- Mistral AI: a French company with its own LLM https://mistral.ai/technology/#models and a chat to talk to him https://chat.mistral.ai/chat
- Apple?
- Note: general opinion (as of 24/11/2024 at 16:31) is that the best LLMs are GPT-4, Gemini and Claude 3. 5 Sonnet









OWN GPTS

- Customized GPTs for some specific purpose
- You can easily make them yourself
- Possible use within Chat GPT 4
- Introducing GPTs (openai.com)











MS COPILOT

■ MS Copilot is one name for different 'tools' in different environments

- MS Copilot for Office 365:
 - □ Copilot Pro Personal & Family :€22/user/month.
 - ☐ Copilot Edcuational : A3/A5 (add on
 - license €30/user/month)
 - ☐ Copilot Enterprise : E3/E5









MS COPILOT FOR OFFICE 365

Microsoft Copilat for Microsoft 365 includes: Available Copilot in Word Copilat in PowerPoint Copilot in Outlook Copilat in Excel. Copilot in OneNote (only available on Win32 desktops, all devices starting sometime during their fiscal year of 2025) Microsoft 365 Chat (find more below). Priority access to the latest models (such as OpenAl's GPT-4 Turbo) Image Creator from Microsoft Designer 100 boosts per day Copilot in Teams (not included in Copilot Pro, but included in Copilot for Microsoft 365) Copilet in Loop (not included in Copilet Pro. but included in Capilet for Microsoft 365). Copilot in Whiteboard (not included in Copilot Pro, but included in Copilot for Microsoft 365) Microsoft Copilet Studio: Build standalone copilets for Copilet for Microsoft 365 (not included in Copilet Pro, but included in Copilot for Microsoft 365). In Preview Copilot in SharePoint (preview) Copilat in OneDrive (preview) Copilot GPT Builder (coming soon)

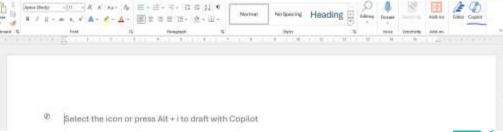
Source: https://www.schneider.im/microsoft-365-copilot-the-future-of-productivity/





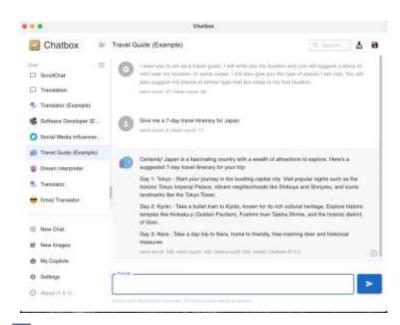






PAYING FOR LICENSES

- Using APIs can make usage significantly cheaper
- Payment per use







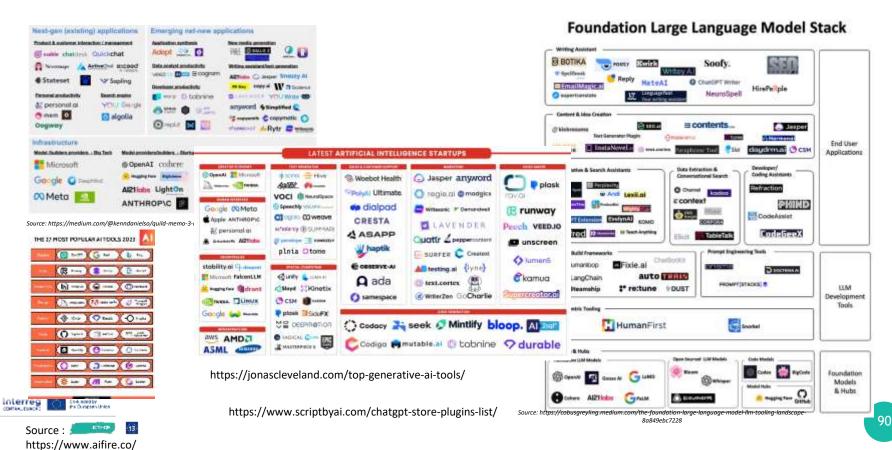








THERE ARE MANY TOOLS...



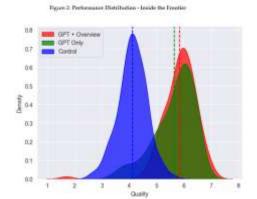
■ GAI can help designers create roughly twice the amount of images that other artists also rate 25% better on average (4 million images sampled from 50,000 users, Zhou, Lee, October 2023). https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4594824

■ GAI helps knowledge workers work faster and better.

GAI tools work better if we are nice to them



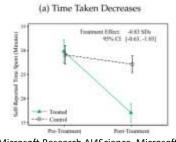
Source: https://arxiv.org/pdf/2307.11760.pdf

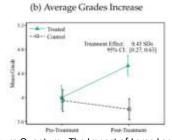




- GAI improves productivity
- GAI helps below average employees more
- GAI is getting better at understanding pictures and numbers

Figure 1: Treatment Effects on Productivity





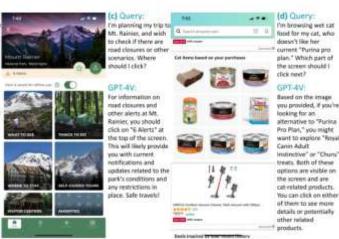
Resources Microsoft Research Al4Science, Microsoft Azure Quantum: The Impact of Large Language Models on Scientific Discovery: a Preliminary Study using GPT-4 https://arxiv.org/abs/2311.07361, 13 November 2023, **250 pages.** https://arxiv.org/abs/2311.07562. Hui, Xiang and Reshef, Oren and Zhou, Luofeng, The Short-Term Effects of Generative Artificial Intelligence on Employment: Evidence from an Online Labor Market (July 31, 2023). Available at SSRN: https://ssrn.com/abstract=4527336

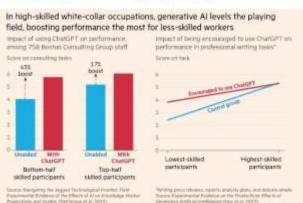




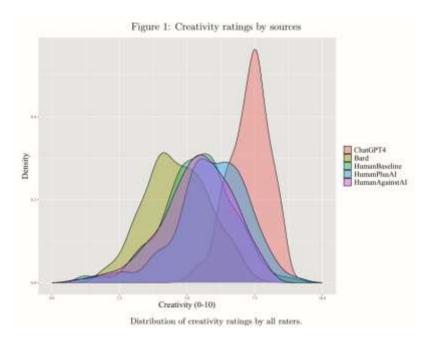








GAI tools are more creative as people



Source: Institute of Labor Economics; Creative and Strategic Capabilities of Generative Al: Evidence from Large-Scale Experiments (https://docs.iza.org/dp17302.pdf)







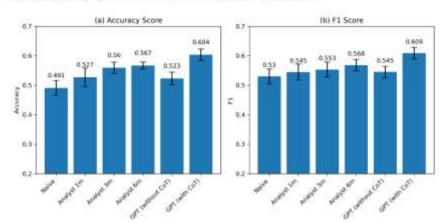
The tools can also analyze business reports

" Even without any narrative or industry-specific information, the LLM outperforms financial analysts in its ability to predict earnings changes. "

Source: https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4835311

Figure 2. GPT vs. Human Analysts

This figure compares the prediction performance of GPT and lemma analysts. Random Walk is based on the current surnings charge compared to the previous surnings. Analyst 1m (3m, 6m) denotes the median analyst forecast issued one (three, six) month(s) after the earnings release. GPT (without CoT) denotes GPT's predictions without any claim-nf-thought processes. We simply provide the model with structured and ananyzoous financial statement information. GPT (with CoT) denotes the model with financial statement information and detailed chain-of-thought prompts. We report average accuracy (the percentage of correct predictions out of total predictions) for each method [left] and F1 score (right). We obtain bootstrapped standard errors by randomly susping 1,000 observation 1,000 times and include 95% confidence intervals.









HOW TO CONFUSE MACHINE LEARNING











Why it's relevant to machine learning:

1. Feature Similarity:

- Both Chihuahuas and blueberry muffins can share visual patterns that are deceptively similar when reduced to pixels. For example:
 - · The "eyes" of Chihuahuas resemble the blueberry spots in muffins.
 - · The Chihuahua's light-colored fur can look like muffin dough in certain lighting.
- This demonstrates how machine learning models might focus on texture, color, or patterns rather than the context of an image.

2. The Challenge of Classification:

- Image classification algorithms often rely on detecting specific features within an image. If two classes (e.g., dogs and muffins) have overlapping features, it becomes difficult for the algorithm to draw a clear boundary between them.
- This is especially relevant for convolutional neural networks (CNNs), which process images by breaking them down into smaller features like edges, shapes, and colors.

3. Human Perspective vs. Machine Perspective:

- Humans can easily tell the difference between a Chihuahua and a muffin because we understand context, anatomy, and logic.
- Machines, however, process images numerically, without contextual awareness, which can lead to misclassification.

4. Applications:

- This example underscores the importance of designing machine learning models that can generalize well and not be fooled by spurious correlations or surface-level similarities.
- Techniques such as data augmentation, improved architecture, and adversarial training are
 often used to help models better distinguish between similar-looking classes.

5. Adversarial Attacks:

 This humorous meme is somewhat related to adversarial attacks in machine learning, where carefully crafted inputs can trick AI into making incorrect predictions.

WHAT GAI WILL NOT DO?

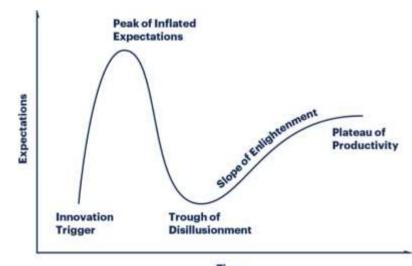
Do you still remember blockchain? COVID-19 and the 'new normal'? Metaverse? 3D printing? Quantum computing?

No, AI 'prompt engineer' ("jobs can pay up to \$375,000 a year and don't always require a background in tech) is not profession of the future

Machines will be capable, within twenty years, of doing any work a man can do.

Herbert Simon, 1965

(Simon won in 1978 Nobel's prize for economics . He died in 2001)



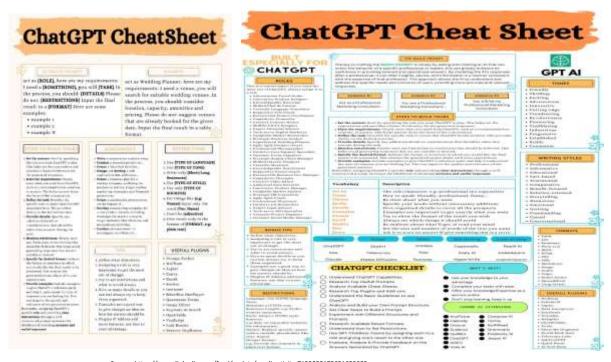








LEARN A SIMPLE GPT PROMPTING YOURSELF



Source: https://www.linkedin.com/feed/update/urn:li:activity:7129858172621639682

https://www.facebook.com/photo.php?fbid=167039386287851&id=100089453714140&set=a.107684602223330











SOME SUGGESTIONS FOR USING CHATGPT

- Define the role: " Act as a Chief information officer "...
- Define the output (table, list...)
- Use folders
- Ask him about the same topic several times
- Be specific
- Let him explain complex topics to you "like a child"
- Pay attention to the "tone of writing"
- Explore (always new) usage possibilities
- Use for everyday "ambiguities", can also be used for non-business purposes :)
- Consider the paid version
- Save useful " prompts " [Save&Submit]
- Break complex tasks into smaller parts
- "Programming" support (code analysis, code generation...)
- Brain storming
- Export/save good chats
- Be aware of the limitations that ChatGPT has
- Do not blindly copy the texts, but "check" them
- Find examples of good prompts







AN EXAMPLE OF A PROMPT

"Design a range of engaging tourism products tailored to cycling enthusiasts exploring scenic cycling routes [insert appropriate places / names]. These products should: Highlight Local Attractions: Include stops at historical landmarks, cultural sites, natural wonders, or unique viewpoints along the routes. Incorporate Local Experiences: Offer opportunities for travelers to interact with local communities, participate in traditional activities, or enjoy local cuisine. Enhance Comfort and Convenience: Develop solutions like guided tours, rental services, bike repair stations, or luggage transport services for multi-day cycling trips. Appeal to Diverse Audiences: Consider packages for families, solo travelers, adventure seekers, or luxury travelers, ensuring accessibility and inclusivity. Promote Sustainability: Focus on eco-friendly practices, such as green accommodations, reusable packaging, and supporting local businesses. Include Themed Activities: Create unique experiences such as vineyard tours, wildlife spotting, photography workshops, or culinary trails accessible by bike. Ensure Safety and Navigation: Provide detailed maps, GPS navigation tools, and tips for safe cycling practices along the routes. The products should inspire tourists to explore, enjoy, and immerse themselves in the surroundings while fostering a positive and sustainable relationship with the destination."







NUMEROUS POSSIBILITIES - GAMIFICATION MOBILES APP



Eco-Challenge Ride: Pedal for a Greener Future!

Ready to make a difference while exploring the great outdoors? Introducing **Eco-Challenge Ride**, the ultimate cycling experience that rewards you for every kilometer you ride, every challenge you complete, and every eco-friendly action you take!

Join the Adventure: Register today and start tracking your rides. You'll see your impact grow as you save carbon, earn points, and rise up the ranks of eco-heroes in your community.

Complete Challenges & Earn Rewards: Take on unique challenges like trail clean-ups or visiting eco-friendly local businesses. Unlock points and rewards while making your community greener and better.

Track Your Impact: Keep tabs on your achievements, see how much carbon you've saved, and collect points to become a local legend. Every ride counts, and every pedal makes a difference.

Eco-Challenge Ride is more than just cycling; it's about creating a movement towards sustainability. Let's pedal for a greener tomorrow. **Download now and start your eco-adventure today!**

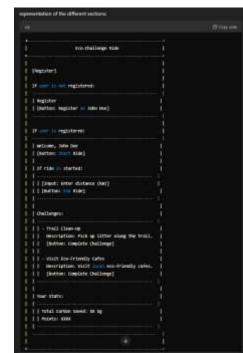






Numerous possibilities - gamification mobiles app













¹⁰²AN EXAMPLE OF A GOOD ONE PRACTICES

: ONLINE PAGES

https://www.adamsconstructiongroup.net/



https://www.hiits.app/



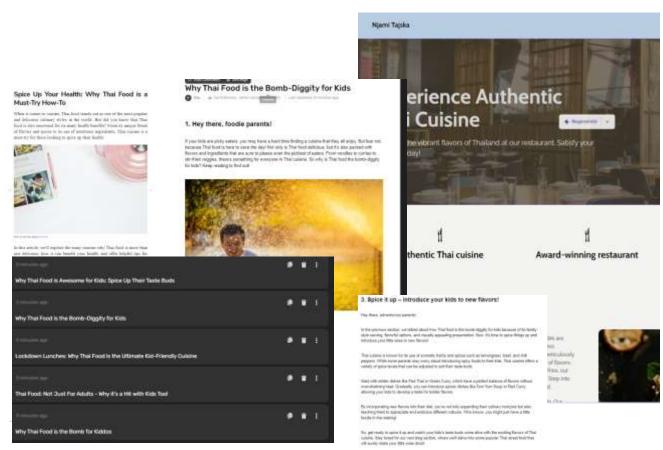








YOU CAN EASILY DO IT YOURSELF?



Why Thai Food is More Than Just Delicious

That food is loved worldwide for its exciting flavors and tantalizing aromas. However, it's the unique blend of these flavors and spices that makes That food stand out from other culinary traditions.

The Unique Blend of Flavors and Spices in Thai Cuisine

That cuisine blends sweet, sour, salty, bitter, and spicy flavors, making for an exciting and dynamic dining experience. The use of fresh herbs and spaces - such as corrander, lemongrass, galangal, and kaffir lime leaves - give That food its distinctive aroma and taste. These herbs and spices are also known for their many health benefits.

The Use of Nutritious Ingredients in Thai Food

That custone also makes use of nutritious ingredients such as seafood, chickee, tofa, vegetables, and fruits. Many That dishes use coconut milk for its creaminess, which is a great source of healthy fats. Additionally, the use of vegetables and fruits like red peppers, garlic, and ginger provide various essential vitamins, minerals and antiexidants.

How Thai Food Can Benefit Your Health

That food's unsque blend of flavors and spices, along with its use of nutritious ingredients, useses that it offers many health benefits.

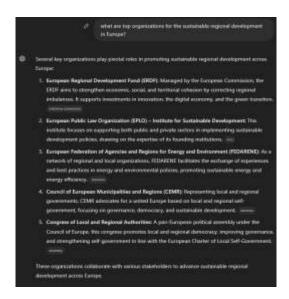
The Health Benefits of Thai Ingredients, Such as Turmeric and Lemongrass

Turmenc is a space commonly used in Thai food that is renowned for its anti-inflammatory properties. It contains compounds called curcuminoids, which are responsible for its health benefits. Curcuminoids can reduce inflammation in your body, which can help prevent chronic diseases such as cancer, diabetes, and beart disease.

Lemongrass is another That ingredient that offers numerous health benefits. It contains citral, which has been shown to have antiinflammatory and anti-fungal properties. Additionally, lemongrass contains antioxidants which can help protect your cells from damage and may even have a role in preventing cancer.

Thai Food Can Help You Control Your Weight

Challenge: write a description of your company/product/service in such a way that it will be highly mentioned in LLM's answers













GAIO INSTEAD OF SEO

Challenge: to write description of your own product / service to be highly mentioned by LLMs

- •Keep page load time (in Google Search Console) below 500ms.
- •Have as short a rendering time as possible.
- •Have all the main content available without any JavaScript dependencies.
- •Have a lot of text content. And summarize it either at the top or bottom of your page.
- •Have an up-to-date presence on relevant databasestyle websites like Yelp, Crunchbase, and IMDB.
- •Be included on the most important community-moderated sites like Wikipedia, Reddit, and Quora.
- •Get (positive) coverage in relevant large news and media websites.
- •If you can, get mentioned in books.

- •Using simple 1- and 2-syllable words and avoiding jargon.
- •Keeping sentences short and to the point.
- •Using active voice instead of passive voice.
- •Avoid subjective language that could be seen as bias
- •Use JSON or XML formats to structure your data

•...









IMPACT OF GAI ON ORGANIZATIONALLY CULTURE AND INNOVATION - WHAT IS CREATIVITY ANYWAY?

Can you give me 10 new stess for a new tourist's product in line with cycling routes and a few lines of outline of the core marketing point



Sure! Here are 10 new ideas for touristic products centered around cucing routes, with indisteting outlines for each:

1, Gourmet Cycling Tours

Marketing Point: A culinary adventure on two wheels. Ride through spenic landscapes while stopping at local vineyands, cheese makers, and fern-to-table restaurants. Savor regional Revers as part of an unforgettable cycling lournes-

2. Cycling & Glamping Adventure

Marketing Point: Combine the thrill of cycling with Lucury glamping. Explore breathfaking halls by stay and relax in Yully furnished texts under the stars by right. It's the perfect blend of adventure end porefort for nature lovers.

3. Historical Route Cycling Experience

Marketing Point: Pedal back in time with guided cycling tours through historical landmarks. Follow encient trails, visit castles, and hear fascinating stories that bring history alive. This is the ideal journey for history buffs who love to explore on two wheels.

4. Family-Friendly Cycling Safari

Marketing Point: A cycling tour designed specifically for families, Follow easy, scenic routes that: feature kid friendly stops like petting zoos, playgrounds, and ice cleam stops. Make lasting memories with a letsurely family cycling adventure.

5. Photography Cycling Tour

Marketing Point: For cycling enthusiasts who love photography, this tour leads you through picturestrue locations with frequent stops to capture stunning landscapes, wildlife, and unique architecture. A guide will help you find the perfect spots to shoot and improve your photography pk5's:

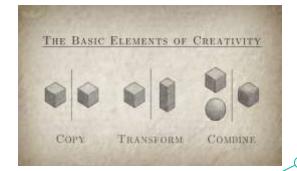
6. Wellness & Yoga Cycling Retreat

Marketing Point Combine the benefits of cycling with rejuverating welness practices. Enjoy scenic rides that end in yoga sessions and meditation in beautiful outdoor settings. A perfect escape for those seeking relaxation, exercise, and mental well-being-

7. Local Artisan Cycling Trail

Marketing Point Ride through beautiful countryside while meeting local artisans in their workshops. Participants can try their hands at pottery, weaving, or cheese-making, gaining unique insights into traditional crafts while exploring the region by hine.













107USAGE OF GAI TOOLS TO INCREASE EFFICIENCY BUSINESS

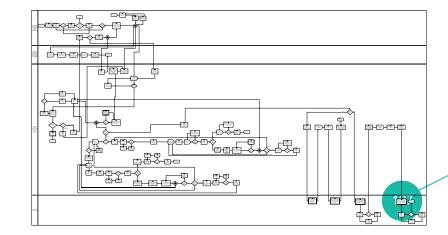
Automation of AI processes can takes over routine and repetitive tasks that require a lot time and effort: automatically recognition and classification data, verification documents, processing of payments, is responsible you can to e-mail, manages calendars, fulfills forms, organizes files ..., which decreases the need for manual work and you allows to focus these on more creative and more demanding assignments.

However, if your text/message/image is irrelevant in terms of content:

- consider whether it can be canceled (e.g. some fields in the form) or replaced with a click (e.g. confirmation of participation in a meeting, thank you for an answer);
- if not prepare it with LLM.

If your content is key:

- draft with LLM
- then use this draft as a pattern of...
- what not to write









 Actual fields from registration forms for companies applying on tenders for cofinancing projects development mobile applications

- B.8. Brief description of technological risk
- B.9. Describe how you see the path from the idea to the product on the market for your project
- C.3. Description of innovation
- C.5. Protection of new intellectual property
 D. MARKET POTENTIAL
- D. MARKET POTENTIAL
- D.1. Description of the market situation
- D.1.1. Target market, segment (application, end users)
- D 3. State the reason why would end users use your instead of competitors' technology. Describe the positioning of your product in the target market and how
- E. IMPLEMENTATION METHODOLOGY AND EXPECTED RESULTS OF THE PROJECT
- E.1. Implementation methodology
- H. RISK ASSESSMENT AND NEXT STEPS
- H.1. Risk management





109 HOW TO GENERATE APPLICATION: TYPICAL TEXT

BELL Proof of Consossi

Actions and Missesser

Problem Services

Technical Expedicitie Assessment

assence englanges, and advisors.

1. User Testing and Feedback Gathering

the effectively transfer medicate a sorting activities.

Can you please use habre lorge. For each activity Aspreprings the bender funds, time and FTE. Requirement a scribal the total grain value will be \$00,000. community to the profession was \$100 repairments to make the time greet Value is \$200,000 Research and Development Please: Max Conseptors Extracond-cost 600,000 Time 1 rounds PTE 1 During this phase, we will bishing on and refine the applicate, parametering names resent. Manual Research Communications CHLCCC, Time Investra, VTE 1 Detailed market represent will be conducted to density larged excessor preferences and Floridate Analysis Estimated 2000 (200000), Time 18 months, FTE 1. Comprehensive feasibility analysis will ensure the projects prestoality and usests; Presinging and MAPA Colorated sour EDGGGG Time Describe FTE 2 Brinting appropriate and MAP for validation and revenue. Brocker Employment Great Technol Development Communicate #50,000 Test Exercise PTC 2

 Pail scale democrates, coding, design, and heating. Review Development Surviving State (CODO), Time Organia, PTE 1

. Agile transprient with continuous autimation based on user feetback. Quality Assurance Expressed rate 478,000 firms Employs, PTE-1

* Pagernac maling and quarty was investigation as

Market Laurely Physics

Marketing Stretegy: Estimated most 408,000, Time Streems, PTE 5 * Developing a comprehensive merieting at larger

Hera Teetings Entractor costs (CSSSS), Time 1 (1000), FTE 1

. Condumny bets resting to perhanious feetback.

I DRIGHTLANERS Extrated cost (\$5,000) Time Treams, PTE 1 Preparing for the Afficial market leanon.

4. Peak Launch Montouring Estimated root 6700765. Time Groung, PTE-0.6. * Continuous monitoring of user engagement and feedback.

Scaling and Greet's Turmens; sort \$10,000, Time Drawing PTE US * Activities for scaling sestations and exploring growth opportunities.

Bustiered Street Putters Development

Revenue Demonstrary Entirementation #16000, Time Organia, FTE CE * Insulationary with the particular strangers

Larg-Tees Value Estimates our ESSEEL hime Organic PTE-CE * Manteuring a ting-term claim for the again future

Public Facility of States Common come \$5.000, Type (Squares, PSS-64).

S. Marchinette

of users, including potential users and entire not spendes, will be runted to interest with the probability. This phase will house providencing reliable feedback regarding the apply user interfects, user separation, and prevent functionality. The feedballs construct will be manufemental in programs the fine sometime. Market Seventence Sources

* In panel of the case reading, or examined of the exists method acceptance of the parties set. This high displayed except a the interest and with users of sometical cases and remaining participal managing the sea once if y fails developed, it will be observed. the real and region and take to determine it there are proved demand to the Annual studios

Settem, here's a rowe interfect resolutions of the "\$12. From a Convent' section for your

project, where you've development ago for automated servicings business in Bules is.

offering their access to communication changing various or against tax automorphism fee.

Disable The Post of Conest Pail stage year ting pain the conest ements

suggested by the subvious healthing and market accompanies of the automated remise can

Analises and believed by Euleptin. He asserted to referent the emissional content and

7 In this littled chase, a comprehensive rechnical has bliftly study will be comprehen. This

Formal submitted planed come in will involve assessing the submitted consequence would reveal to

place area in assessment that the easily over functionalities, including and time building

and premium integration will the quarter of terms on agencies, we make a freshlike

If these the restroing frequency is extensioned the property of concessor to the recommendation

of a functional prototope of the age. This prototope will be payipped to drow page tea-

Replace and functionalities. Upon all the pitchs interest with it, experiencing has the

man of lightests in presides. This positions oill province in property representation of the

projects cause, allowing for a more effective demonstration of tax asive to attribute these.

"During the prototype an elegenem shape, user tearing will be conducted. A setten amus-

11. Northwest Makeston

* The PoC phase of appropriate with a restrictor satisfactor photosas. This investiga-Promptly evaluating the protocopy technical performance religions, and qualified And restinguit lastes or fundations clerk fled competition least oil for extracted before months for each the full-state servicement state.

The automatic completion of the People' Consequences and accorded activities for the subsequent pages of the project if will argue that the part is device healthful in conferent, our feedback is incorporated from the development process, and market acceptance is equilibried, thereby exceeding highward enhancing the project's channel of and have by it progresses becaming market baseds.

am developing a new appliancian applying for public funding. Can you prepare this Describe how you see the path from the idea to the product on the market for your propert. From on Gasearch Your idea to Market Product"

Certainty, here's a distarted description of the path from the stock to the product on the mental. 😅 🔠 for your project, with a specific force on research

Research and Development Phase:

lites Conception: The purrey pegins with the incumon of a promising approximant This concept arrises from inlentifying a specific problem or need in the market that the spo can address effectively Character brainsporting and harvest analysis combuse to refining and variating the lote.

 Market Research: In-sept. market wassestrip conducted to part building into the target. suffices, their reacts, and phylorenius. This of their motives comparted analysis, surveys, manyone, and data to be the new problems of market results and converse conceptions.

 Fearbilty Analysis: An in-depth fearbilty study a challent assess the section by and visiting of the class. This includes analysing sectional, financial, and operational supects, wratering that the project can be elemaned accressfully

6. Principling and MAP: Surling a principle or retireur visite printed MAPI is a printed step. It helps winders the concept with school cours, pather feedback, and make recognity liengiums haved no mea-world usage. This phase hor impes halb and refreshine products more features.

Product Development Phase:

Technical Development: Cook the MVF is visibated, No-score (everyonest began), 76% share incompanies toding isospenig and terring the spp. Strong emphasics procedure User experience IDIX and user interface IDIX design to ensure a seaming and attractive.

Reserve Development: Agric development methodologies are often employed to facilities: continuous promovers. The development team bandlively referens updates and features based or user feetback and walking market transfe.

3. Quality Assurance: Rigorous tearing and quality statutence procedures are improvement to arraive that the ago latter from isspected pitches. This phase is especial for delivering a ministry product.

Meter Louist Place

Marketing Strategy: Timustaneously with devergment, a comprehensive manieting strategy is stoleted. This installed branding, digital marketing social media campaigns, and ITS affords to create assessment and anticipation in the impries-

2. Sieta Toping Setine the official learnin, a besidening phase a netwest allowing a select group of suerces access and provide healthack on the hearty final and product. This is Augurents specifying any tea remain values and must be exercis.

Overall objectives of the mobility:

1. Academic and Professional Development:

- So acquire achieved knowledge and skills in electronic business through expresses to a different academic environment.
- To engage in collaborative learning opportunities that are unique to the Nest institution.
- To enhance my professional qualifications

2. Cultural Exchange and Porxonal Growth:

- Te immerse revoetf in a new outsant setting, undentunding and appreciating the diversity and retireus of German culture.
- To diverge a more global perspective and adaptability by heading in a
- Tit improve language skills and intensitianal communication abilities. through daily interaction.

3. Networking and Relationship Building:

- To establish lasting connections with peers, bacuity, and professionals. from Germany, building an international network. To participate in cross-outbank collaborations that may lead to future.
- international projects or portnerships.

4. Contribution to Home and Host Communities: To where my own suffices and perspectives with the heat consequity.

- promoting mutual understanding and inchange. Upon returning, to contribute to my bodies institution and community.
- with the new insights, skills, and knowledge, misonony its intersational devention and understanding.

Added value of the mobility (in the context of the modernisation and internationalisation strategies of the institutions involved):

Enhancing Institutional International Profiles

My participation will contribute to the international diversity of both the best and frome inuthations, aligning with their goals of creating a more globally representative

By sharing experiences and insights from the mobility program, I will help in promoting the international standing of both institutions to academic and professional

Academic Exchange and Collaboration:

the mobility program will further academic eurhance, britains new perspectives and











FIRST ANALYZE, THEN CHANGE

- Attention: major changes in the process require a careful analysis of the processes and what this specifically means for you.
- Ask yourself: what do I need? Then: what GAI can do











WHAT ABOUT OWNERSHIP?

But what if the work is generated by AI? According to the US Copyright Office, copyright law only protects works that are made by a human being, not those of a monkey, an elephant, or an AI model. If a human didn't author the work, the Copyright Office won't register the copyright (and you can't sue someone if you can't register your copyright). In the eyes of the Copyright Office, the public is free to reproduce, publish, or sell your DALL-E 2-generated masterpiece, no strings attached.

Congress could change the law, or the courts could recognize a copyright in AI-generated work despite what the Copyright Office thinks. That would undoubtedly clarify things. But as it stands, don't plan on making your fortune selling DALL-E 2 images just yet.

Even if you could own a copyright in Al-generated work, there is a second legal issue. To use DALL-E 2, you have to agree to OpenAl's Terms of Use. According to these terms, OpenAl actually owns the images you create (which the Terms of Use call "generations"). OpenAl graciously grants you the right to sell your DALL-E 2 images (assuming you can somehow persuade someone to pay you for an image they can copy for free).

The same thing would apply to EU copyright law, where copyright exists on any original work, and the work is original if it is an intellectual creation

https://www.technollama.co.uk/dall%C2%B7e-goes-commercial-but-what-about-copyright









WHAT ABOUT OWNERSHIP?

Can I sell images I create with DALL-E?

Commercial use of DALLE

Updated over a week ago

Subject to the <u>Content Policy</u> and <u>Terms</u>, you own the images you create with DALL-E, including the right to reprint, sell, and merchandise – regardless of whether an image was generated through a free or paid credit.

The first issue is whether anyone can actually "own" an Al-generated image. At least in the US, the answer isn't clear. But despite what you might think, it probably isn't you.

Copyrights are a form of intellectual property protected by federal law. Owning a copyright gives you the exclusive right to reproduce, publish, or sell an original work of authorship, such as a book, a painting, or a song. Under current copyright law, artists using traditional mediums, such as paint, pen, or paper, hold copyright over their work by default.

But what if the work is generated by AI? According to the US Copyright Office, copyright law only protects works that are made by a human being, not those of a monkey, an elephant, or an AI model. If a human didn't author the work, the Copyright Office won't register the copyright (and you can't sue someone if you can't register your copyright). In the eyes of the Copyright Office, the public is free to reproduce, publish, or sell your DALL-E 2-generated masterpiece, no strings attached.

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https://www.theverge.com/2023/8/19/23838458/ai-generated-art-no-copyright-district-court





WHAT ABOUT SECURITY?

- ChatGPT (as well as others) may share any information (even "inadvertently" or for unknown reasons)
- Do not share sensitive information, e.g. usernames and passwords
- User entries are stored "somewhere in the cloud"
- Security policy is important.





Source: https://arstechnica.com/security/2024/01/ars-reader-reports-chatgpt-is-sending-him-conversations-from-unrelated-ai-users/

https://hbr.org/2024/05/4-types-of-gen-ai-risk-and-how-to-mitigate-them







WHAT ABOUT SECURITY?

Samsung Bans Staff's Al Use After **Spotting ChatGPT Data Leak**

- Employees accidentally leaked sensitive data via ChatGPT
- Company preparing own internal artificial intelligence tools

NWO publishes preliminary guidelines for the use of Al

W. January 2024

The use of generative Al models is prohibited during the entire NWO application review process. The review of research proposals is subject to confidentiality. Therefore, referees and reviewers are not permitted to enter anything from a research proposal into generative Al models. This is stated in the NWD's preliminary position statement on the use of generative Al.



What data of ChatGPT was leaked?

The data that was exped from ChartCPT due to a bug in the Ats source code included behalf you ask as

- 1. Court Histories: A bug in Dirett-PT's source code resisted in a tream of sectories data, where unauthorized action were stale to view users! that fictory due to a indiversibility in the Radio memory database used by OpenAI.
- If Users' Personal and Payment Information: The durigent and supposed personal and payment data of approximately 1.2% of action CharGFT Plus subscribers on a specific date (March 20ths, The imposed)
 - 5. Former
 - J. En all admesses
 - 1. Payment addresses
 - d. Could continue
 - 5. The fact hour slights of credit card numbers
- 6. Potentially, the first message of a newly-created conversation if both users were active around the same time
- 3. Samsung's Confidential Date: Separate from the aptem subvariability. Samsung employees reportedly shared confidential company information with ChatGPT. This instuded:
 - 1. Source code from a faulty servicementor database
 - Il Confidential code for a defective againment tissue.
 - I. An arrive meeting transport for the phatbor to create meeting involves

Please note that in the case of Bantaung, the data was not leaved due to a bug or vulnerability in the system, but rather was shared with the ALDy the employees therhorizer. While this represents a data privacy species, it is not technically a leak in the usual series as the information was willingly outproffted to the AL



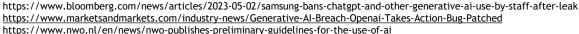








Sources



JENNI





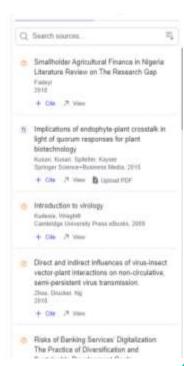




JENNI

The LAG-3 inhibitory receptor expression





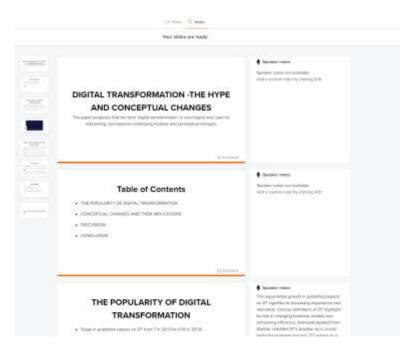






SCISPACE - CREATING A PRESENTATION AND VIDEO OF YOUR CONTRIBUTION





Video: https://typeset.io/videos/digital-transformation-the-hype-and-conceptual-changes-p-zjf0vfiij4

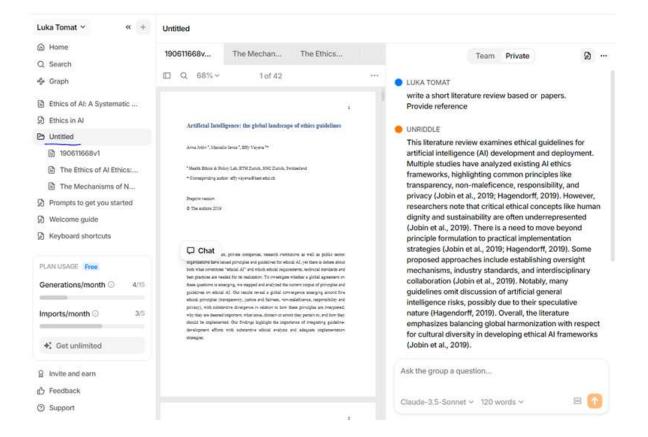








UNRIDDLE.AI









CHATGPT CHROME EXTENSIONS

- https://platform.openai.com/playground
- Ultimate GPT Toolbar
- ChatGPT Folders & GPT-3.5/4 AI Online Copilot
- Summarize & Chat
- YouTube Summary with ChatGPT & Claude
- https://openai.com/blog/chatgpt-plugins
- https://beebom.com/best-chatgpt-chrome-extensions/









120HARPA AI | AUTOMATION AGENT WITH CLAUDE & GPT

- Harp AI: installation in Chrome
- On the desired pages press ALT + A
- / search desired
- ... Page text
- Strong SEO analysis
- By the way , Harpa knows the whole bunch of things :
- Summary of Youtube lectures
- Answering on e-mail
- Translation
- Improving texts (grammar ...)
- Creating texts

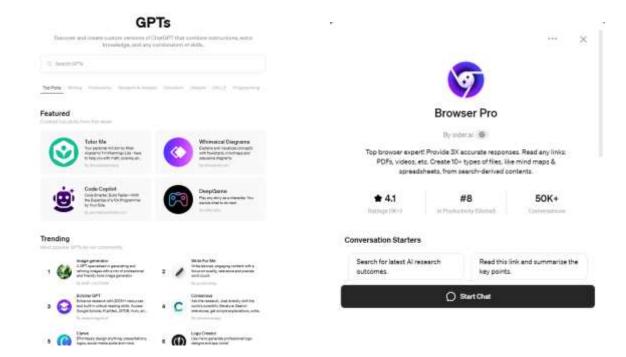








GPTS



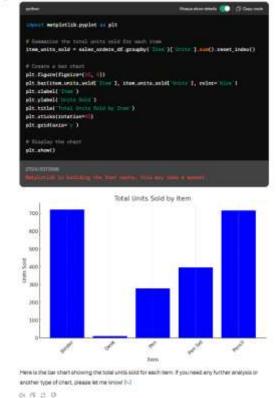






GPT: DATA ANALYST





122

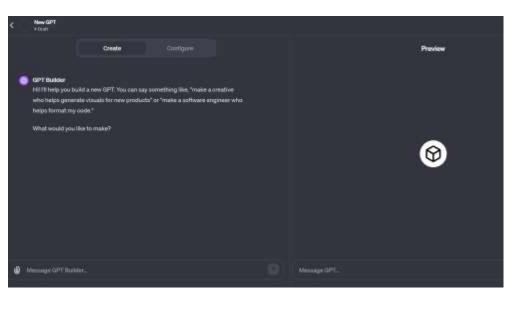






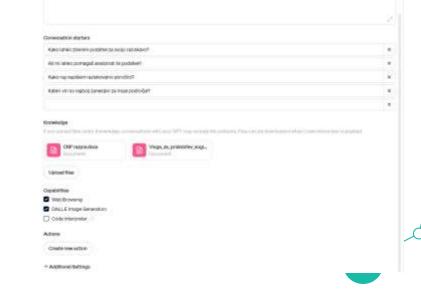
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OWN GPTS









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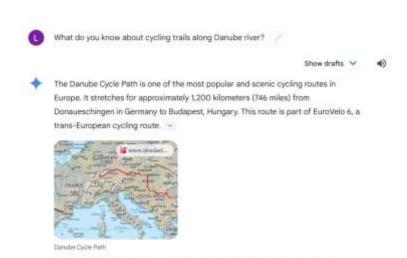
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C a or

instructions:

Porechino da raziono delle projekte v dickensisem jednici.

GEMINI



Here are some highlights of the Danube Cycle Path:

 Germany: The route begins in the Black Forest region, passing through charming towns and picturesque landscapes.

The Danube Cycle Path is known for its well-maintained paths, stunning landscapes, and rich cultural heritage. It winds its way through various countries, including Germany, Austria. Slovakia, and Hungary, offering diverse experiences along the way.





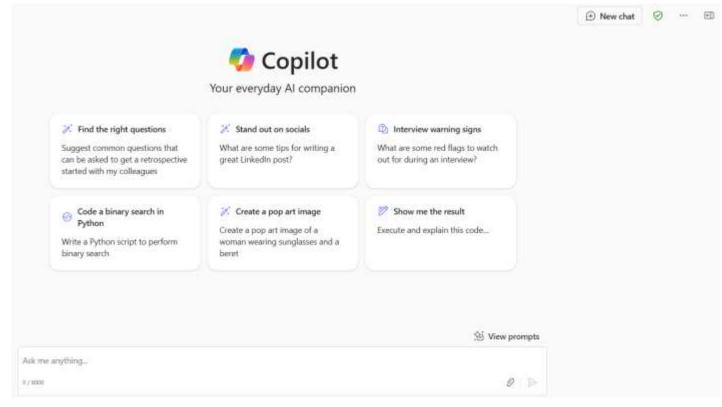








MS COPILOT



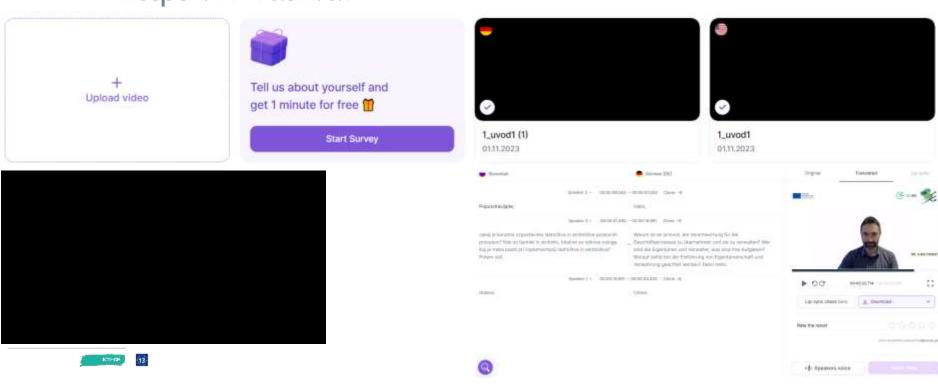


Interreg



TRANSLATION INTO DIFFERENT LANGUAGES

■ https://rask.ai



VIDEO CONTENT CREATION

- https://runwayml.com/
- https://www.synthesia.io/
- https://www.heygen.com/
- https://www.invideo.io











MUSIC CREATORS

- https://www.media.io/lab/ai-music/
- https://soundraw.io/
- https://www.junia.ai/tools/music-generator
- https://mubert.com/
- ..
- https://www.aimi.fm/listen (neverending AI music radio:)











DRAW PICTURES

- https://www.junia.ai/dashboard/ai-image
- https://www.gencraft.com
- https://www.freepik.com/ai/image-generator
- https://www.canva.com/ai-image-generator/
- Bing Image Creator
- https://neural.love/ (Al generated image search
- https://Leonardo.ai

















EDIT PICTURES

- https://www.photoroom.com
- http://removal.ai
- https://goart.fotor.com/









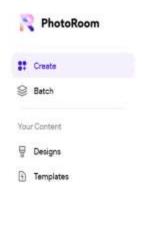


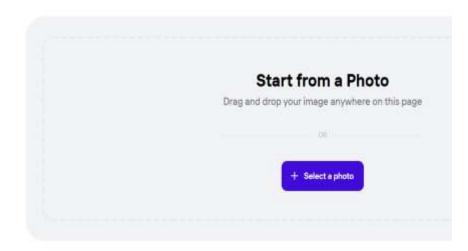




EDIT PICTURES















Backgrounds



Instant Shedows









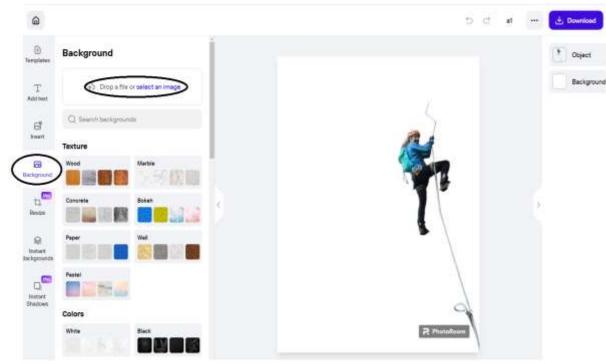




EDIT PICTURES

https://www.photoroom.com







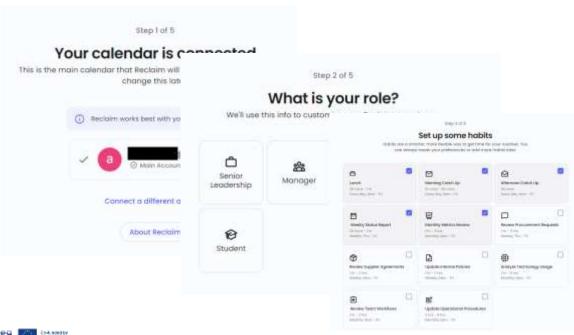


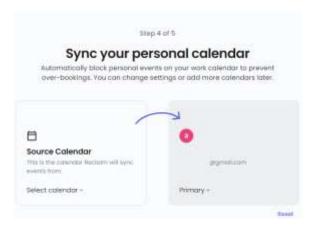




AI SCHEDULING

https://reclaim.ai/





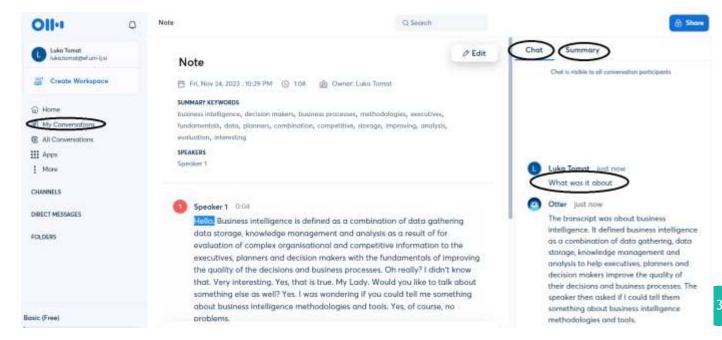






DIRECT TRANSCRIPTS

https://otter.ai/ (currently 8 languages, free up to 300 minutes, easy to use)

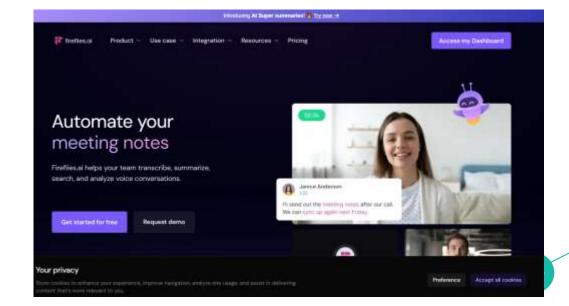






MEETING NOTES

- https://fireflies.ai (currently German, Dutch, French, Spanish, Portuguese, and Italian)
- Chrome extension : Fireflies: Summarize meetings, articles, docs







TRANSCRIPTION

- Audiopen
- Cockatoo
- Write by Voice (english)
- Transcriber (Slo)
- Sonix.ai (eng)
- Word 365
- Teams
- Google Meet
- •••











CREATE WEBSITES

```
https://durable.co/
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https://gamma.app https://gamma.app/docs/Welcome-to-Our-Car-Dealership-hshzn62j2bg31eo?mode=doc

https://10web.io/ https://10web-site.ai/14/sharp-locust/

https://www.unite.ai/sl/najbol%C5%A1i-izdelovalcii-spletnih-mest-z-umetno-intelligenco/



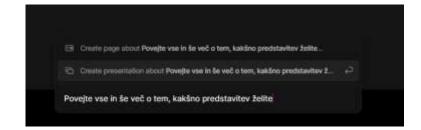




CREATE PRESENTATION

https://tome.app/





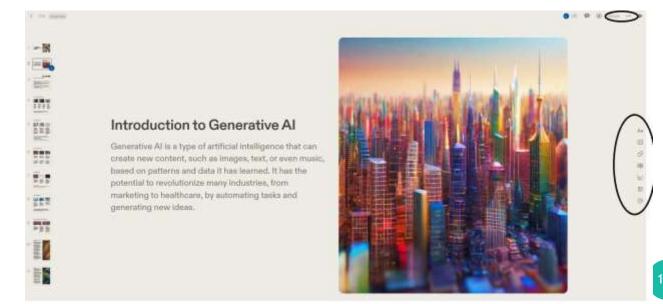






CREATE PRESENTATION

- https://tome.app/
- https://tome.app/lt-d03/untitled-tome-clog54yop00o3o67asrl8kpd5



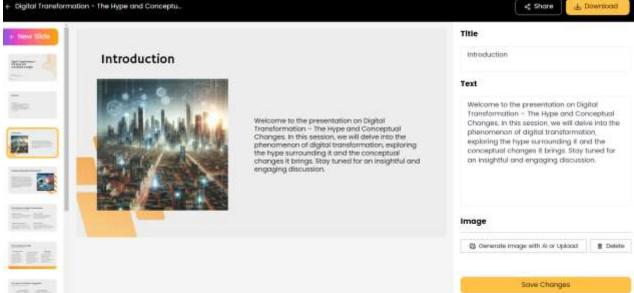






140 REVIEW DIFFERENT TOOLS - PRODUCTION **PRESENTATIONS**

- https://www.slidespilot.com
- https://www.slidespilot.com/s/p/wJ0YKkJAnD

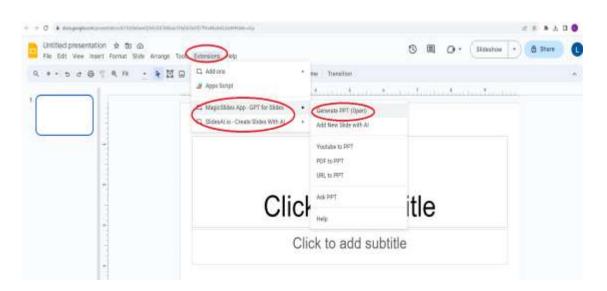


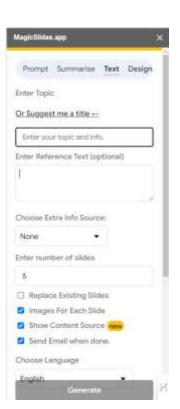




CREATE PRESENTATION

- https://www.magicslides.app/
- Upload as a Google Slides Add-on













CREATE PRESENTATIONS FROM PDF

- Decktopus.com €€€
- https://docs.howly.com/ €€€
- https://Pdfguru.com €€€
- https://www.magicslides.app/tools/pdf-to-ppt some free then €€€
- https://slidespilot.com some free then €€€







WORKING WITH PDFS

https://www.pdfgear.com/download/ (chat with pdf)

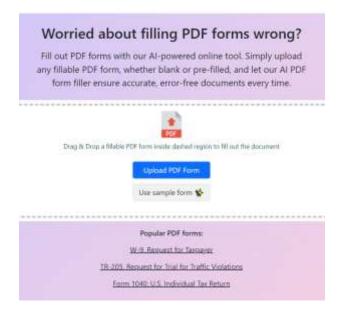
- https://www.pdfgear.com/pdf-copilot/ ('conjuring' with pdf)
- https://www.pdfgear.com/ai-pdf-editor/ (pdf editor)





FILLING OUT FORMS

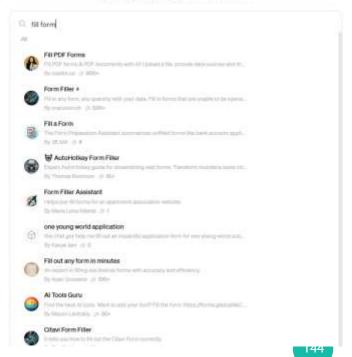
- Paid tools, e.g. Super.ai, InstaFill.ai, (also Axiom.ai)
- GPTs





GPTs

Discover and create custom versions of ChatGPT that combine instructions, extra knowledge, and any combination of skills.









¹⁴⁵MACROS IN EXCEL (OR ANY OTHER MS OFFICE PROGRAMS

- List of products, employees, sales...
- → for example, the number of sellers by region, country...

• Name the data in Excel accordingly (e.g. table name *Table1*).

41	0 0	C	D	E	F
1	Sales F	igures			
2	The state of the s	(Alternative		-	
3	OrderID -	Region *	Salesperson -	Order Date -	Order Amount
4	11249	New York	Paid	07/09/2020	5 1,753.4
5	11252	Boston	Duncan	07/10/2020	\$ 3,497.9
6	11250	Boston	Duncan	07/11/2020	\$ 1,462.6
7	11251	Boston	Chan	07/14/2020	\$ 554.0
8	11255	San Fransi	Collins	07/14/2020	\$ 2,390.54
9	11248	New York	Brown	07/15/2020	\$ 340.0
10	11253	Boston	Chart	07/15/2020	\$ 1,344.8
TT	11256	Boston	Chars	07/16/2020	3 417.8
12	11257	Boston	Duncan	07/21/2020	\$ 1,019.9
13	11254	New York	Brown	07/22/2020	\$ 456.60
14	11258	Chicago	Evans.	07/22/2020	5 1,514.8
15	1				





MANUFACTURING MACROS FOR EXCEL

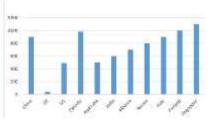
- prompt " as precise and detailed as possible (every word is important).
- Copy the generated code into the VBA Editor according to the instructions.
 - 1. Odprite Excel in pojdite na delovni list, kjer želite uporabiti makro.
 - 2. Pritisnite 'Alt + F11', da odprete VBA Editor.
 - V meniju izberite Insert > Module. To bo ustvarilo nov modul za vaš makro.
 - V okno modula vnesite naslednjo kodo:

Shranite in zaprite VBA Editor.

















AI SUPPORT FOR EXCEL

- Ultimate Toolbar GPT (AI toolbar)
- GPT formula
- Al Excel Bot : ChatGPT Excel Assistant
- https://numerous.ai/
- https://gptexcel.uk/formulas
- ADD-INs:
 - GPT for Work (Excel, Word)
 - OpenAl API (https://community.openai.com/t/chat-gpt-for-excel-use-gpt3-inside-excel-sheets/86697/1)
 - QueryStorm
 - ChatGPT for Excel (or for PowerPoint)







COPILOT FOR WORD

- Create content
- Rewrite
- Visualize as a Table
- Summarize this Assoc
- Chat with a file
- Send to PowerPoint Presentation
- •

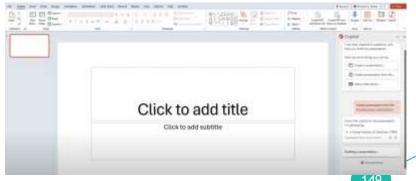






COPILOT FOR POWERPOINT

- Create presentation
- Add slides about
- Create presentation from a file

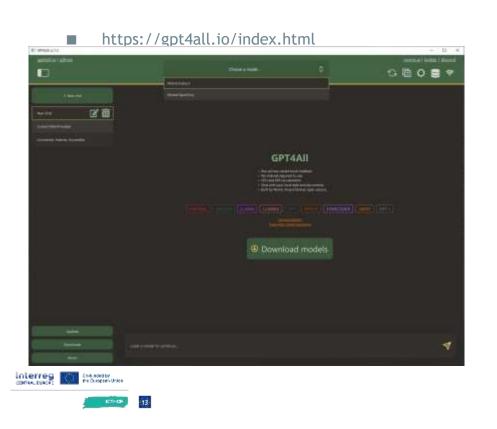




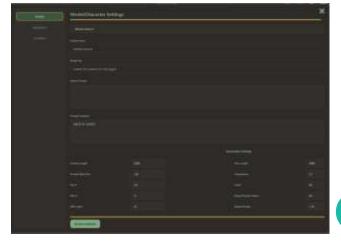




LOCAL USE OF LLM: GPT4ALL







LLM LOCAL USE: JAN.AI

- https://jan.ai/
- https://github.com/janhq/jan?tab=readme-ov-file

