AI for Austrian Travel Agencies
Opportunities and Challenges

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The Problem

Leveraging artificial intelligence for specific workplace-related challenges of travel agents

- Addressing inefficiencies and qualities issues of operations
- Adapting to technology for competitive advantage (information sourcing)
- Understanding how AI could be practically applied in this sector
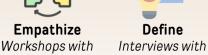- Enhancing user experience for both employees and clients using AI-based solutions

The Objective

Enhancing Austrian travel agencies' operations and service quality by integrating AI technologies

Iterative Design Thinking

Empathize *Workshops with decision makers*

Define *Interviews with experts from the field*

Ideate *Research grey and academic literature*

Prototype *Production of the webinar*

Test *Retrieve Feedback*

RESULTS > WEBINAR

What is AI?
- From Turing's concept in the 1930s > today advanced applications in many fields
- Includes machine learning, deep learning, chatbots, robotics, and expert systems
- Transformative role > smart recommendations, decision-making, personalization, customer service, demand forecasting, and language translation in travel

- Enhance response accuracy by providing explicit and detailed instructions
- Beak down intricate tasks into focused questions for better outcomes & offer specific context for relevant answers + use follow-up questions for clarity
- Incorporate data from external databases or tools to better utilize ChatGPT

ChatGPT prompting

AI Risks in Travel
- Biases in recommendations due to skewed data > critical reviews and personalized customer focus to avoid discriminatory practices
- Data privacy issues > strong passwords, data encryption, and secure device management to protect traveler information
- AI automation may lead to loss of staff expertise > need for ongoing training and emphasis on human judgment and personalized service

Overview of AI tools in Travel
- Many "AI travel tools" are identified as a vaporware and many use "AI" as an USP when their tools do not utilize AI extensively
- Comprehensive qualitative content analysis yielded 41 AI tools to be used by travel agencies now!
- 18 tools > top 3 use cases of Austrian travel agencies: Information gathering and processing, Training & Employee Support, Specific consulting support, Specific consulting support

Managing AI expectations

- AI enhances personalization in tourism > customized travel recommendations + improved communication with chatbots and virtual assistants)
- AI's pattern recognition > market trend analysis + customer preference understanding + data security and integrity (integration with blockchain)
- AI automates repetitive tasks in travel agencies > better workflow + data processing + customer service

Research Method

- 2 workshops with travel agency representatives
- 6 interviews with industry experts
- Grey & academic literature + textbook knowledge
- Qualitative content analysis for interpreting material

Conclusion

We successfully demonstrated the potential of artificial intelligence to **revolutionize the Austrian travel industry** by significantly **enhancing operational efficiency and customer service quality**. The research and its outcomes offer **valuable insights and practical tools for travel agencies** to adapt to the evolving digital landscape, ultimately contributing to the industry's **growth and competitiveness.**

Acknowledgements

WKO WIRTSCHAFTSKAMMER WIEN TOURISMUS-FREIZEIT
ruefa
will weg
COLUMBUS
REISEWELT
Mondial
WU WIRTSCHAFTS UNIVERSITÄT WIEN VIENNA UNIVERSITY OF ECONOMICS AND BUSINESS
TUI ReiseCenter