market-x

Market Conference & Expo
Vienna Austria 14–15 March 2023

gaia-x

In partnership with gaia-x
🇦🇹 Hub Austria

Welcome to
the Austrian Hub!

Welcome to Vienna

Vienna, the capital of Austria, is a city full of culture, history and tradition. During your stay, the city offers a variety of sights and other attractions. Some recommendations for things to do outside the conference can be found at the end of the magazine.

The Assembly Hall of Sciences

The modern venue offers a mix of historic features, such as the ceiling fresco in the Jesuit Hall, and large expanses of glass on the first floor. The exquisite surroundings make it one of the best venues in Vienna. To our Gaia-X community it offers the perfect place for stylish communication and sustainable networking.

Welcome to Gaia-X

Dear Ladies and Gentlemen,

The Gaia-X Hub Austria cordially welcomes you to the "Market-X" Conference & Expo of the international Gaia-X Community in Vienna.

Gaia-X aims to support digitalization across industries and to develop an open, transparent, and distributed ecosystem for data exchange in Europe. This ecosystem enables companies to share and process data securely and efficiently without relinquishing control over it. In this manner Gaia-X will create the basis for flexible data-driven business processes and new digital products in distributed data spaces and make an important contribution to the much-needed European data sovereignty.

Gaia-X is a European initiative supported by companies and research institutions, as well as by politics and administration in many EU member states. In a community process, Gaia-X develops rules, policies, and specifications for trustworthy data exchange in federated systems and provides software to companies as open source. Compliance mechanisms are also implemented to ensure the defined agreements for trustworthy data exchange. This enables the rapid and easy development of new data-driven business models and contributes to increasing the competitiveness of European companies.

The Gaia-X Hub Austria was initiated by the Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation and Technology (BMK) and the State Secretariat for Digital Affairs and Telecommunications in the federal ministry of finance and is pleased to co-host with Gaia-X AISBL the first European "Market-X" event in Vienna.

The "Market-X" Conference & Expo will offer you an insight into current European implementation projects and examples of data spaces as well as new data-driven business models and enable you to network with experts and relevant stakeholders of the Gaia-X community.

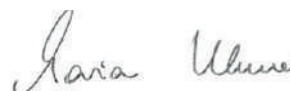We are pleased to welcome you in Vienna!

Yours sincerely,

Helmut Leopold
Chairman Gaia-X Hub Austria
Head of Center for Digital Safety & Security
AIT Austrian Institute of Technology

Henriette Spyra
Director General Innovation & Technology, Austrian Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation & Technology

Maria Ulmer
Director Digitalization and E-Government, Austrian Federal Ministry of Finance

Bundesministerium
Klimaschutz, Umwelt, Energie, Mobilität, Innovation und Technologie

Bundesministerium
Finanzen

Speakers @Market-X

Find out about the potential of data-driven business models along entire value chains at the Market-X Conference & Expo. Get to know technical basics, concrete use & business cases and concrete implementations of different sectors from experts of this industry.

Henriette Spyra
Director General Innovation & Technology,

Austrian Federal Ministry for Climate Action, Environment, Energy, Mobility, Innovation & Technology

Maria Ulmer
Director Digitalization and E-Government

Austrian Federal Ministry of Finance

Florian Tursky
State Secretary

Austrian Federal Ministry of Finance

Alberto Palomo
Governmental Advisory Board of Gaia-X,

State Secretariat for Digitalisation and Artificial Intelligence/CDO Spanish Government

Ernst Stoeckl-Pukall
Head of Division Digitisation, Industrie 4.0,

German Federal Ministry for Economic Affairs and Energy

Ulrich Ahle
CEO FIWARE

Maximilian Ahrens
Chairman BoD Gaia-X

Francesco Bonfiglio
CEO Gaia-X

Roland Fadrany
COO Gaia-X

Pierre Gronlier
CTO Gaia-X

Brigitte Lutz
Data Governance Coordinator
of the City of Vienna
Management Board Gaia-X
Hub Austria

Matthijs Punter
Researcher Data Ecosystem
TNO

Christian Tauber
Head of Product Management
K-Businesscom
Management Board Gaia-X
Hub Austria

Ana García
Secretary General BDVA

Tobias Höllwarth
Management Board
Gaia-X Hub Austria

Lars Nagel
CEO IDSA

Michael Schäfer
Managing Director,
Mobility Data Space

Annette Trawnicek
Managing Director Hewlett
Packard Enterprise Austria
Management Board Gaia X
Hub Austria

Interactive Expo

We connect people and ideas to create the future together!
Market-X is the networking event of Gaia-X Project Verticals, Gaia-X Hubs and
Gaia-X Lighthouse Projects. Be part of the interactive expo and take a guided tour,
join the breakout rooms or visit the expo booths.

Guided Tours by Gaia-X Hub Austria

— **Technology Tour (Day 1 – 14:30)**

Your tour guide – an expert of the Austrian Institute of Technology – will show how to build dataspaces from a software point of view. You will visit booths like deltaDAO, IONOS, HPE or google.

— **Manufacturing Tour (Day 1 – 15:30)**

Your tour guide – a representative of "Plattform Industrie 4.0" – will show examples of implementations in the manufacturing industry and guide you through the ever growing ecosystem of EuProGigant. You will visit booths like Exoscale, EIT Manufacturing or TU Vienna.

— **Lighthouses Tour (Day 1 – 16:30)**

Your tour guide – a representative of "Structura-X" – will offer insights into the world of lighthouse-projects which are the main source of requirements to the Gaia-X framework. You will visit booths like Mobility Data Space, EuProGigant or Prometheus-X.

— **Platforms Tour (Day 2 – 14:30)**

Your tour guide – a representative of "Data Space Business Alliance" – will show examples of platform solution providers and their interoperability with and relation to the Gaia-X ecosystem. You will visit booths like Dawex, i4Trust, iShare or DSBA.

— **Dataspaces Tour (Day 2 – 15:30)**

Your tour guide – a data expert of "Data Intelligence Offensive" – will give a crossover to several concrete use cases from different industries like mobility, energy or manufacturing. You will visit booths like Omega-X, Wobcom or Gaia-X 4 future mobility.

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Photos: Gaia-X Summit Paris
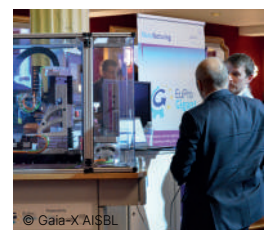
Be part of it!

Gaia-X Booth Program

— Contributing to Gaia-X

— Membership at Gaia-X

— Learn about HUBs & Verticals

— Meet the CxO

— CTO Team Q&A Session

Breakout Rooms

— Gaia-X Basics & How to Get Started as an Ecosystem

— Gaia-X, Sneak Preview to the Tech-X Conference & Hackathon, 3&4 May, Bilbao, Spain

— Gaia-X Basics & How to Get Started as a Participant or SME

Private meeting locations
are generously provided by

OESTERREICHISCHE COMPUTER GESELLSCHAFT ®
AUSTRIAN COMPUTER SOCIETY

KSÖ
Kompetenzzentrum Sicheres Österreich

OVE
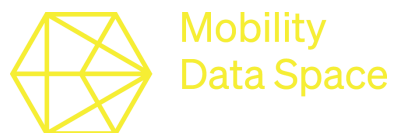Österreichischer Verband für Elektrotechnik

Exhibitors @Market-X

Experience the data sharing community

Data sharing is increasingly moving to the core of new requirements in the context of transparency (e.g. Product Passport, Supply Chain Act, etc.). Prepare for these developments before others do and benefit from experiences of those who are Gaia-X pioneers.

Discover new ways to collaborate with partners from a wide range of industries. Establish contacts with experts and deepen existing cooperations - meet them now!
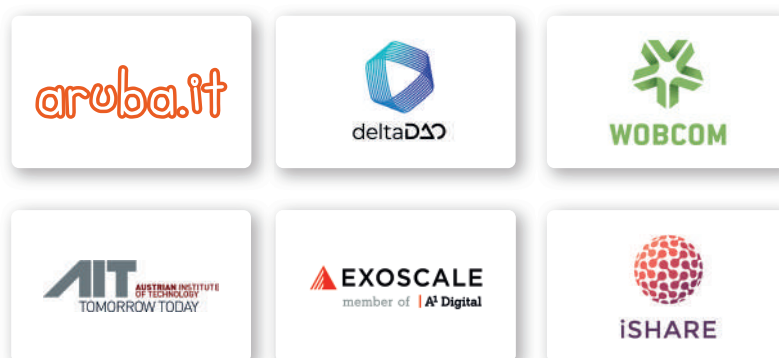
Platinum

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Mobility Data Space

IONOS

DAWEX

Data Spaces Business Alliance
Unleashing the Data Economy

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Gold

Hewlett Packard Enterprise

Google Cloud

eit Manufacturing
Co-funded by the European Union

gaia-x future mobility

i4Trust

DETECON CONSULTING

DIO
Data Intelligence Initiative
Association for Data Economy Development

Structura-X

EONA-X

ELINOR-X
THE URBAN DATA COOPERATIVE

Silver

aruba.it

deltaDAO

WOBCOM

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY
TOMORROW TODAY

EXOSCALE
member of | A¹ Digital

iSHARE

Bronze

CONCIRCLE
manufacturing consultants

TU WIEN Pilotfabrik Industrie 4.0

smartFactory KL

PROMETHEUS-X

omega-x

EXCERPT OF GAIA-X PROJECTS

AMIDS

The Austrian Manufacturing Innovation Data Space (AMIDS) will be the main results of the Lin-X project. With the support of academic and industrial partners, the pilot factories of the JKU Linz, TU Graz and TU Wien will be interconnected to allow for the demonstration of the co-design and co-production of production parts. Visit the booths of **A1, EIT Manufacturing** and **TU Wien** to learn more about AMIDS.

ASTRID iHub

As a driver of innovation and quality - Wolfsburg relies on digitization. The **Innovation Hub ASTRID** has now built a modern Smart Quarter and virtual resources in Wolfsburg for the IT experts. The ASTRID iHub aims to turn the region into a preferred investment iHub for technology companies, while also reaffirming North Germany as a premier ICT location. Learn more about ASTRID iHub at the booths of **Wobcom**.

BatWoMan

BatWoMan develops new sustainable and cost-efficient Li-ion battery cell production concepts, paving the way towards carbon neutral cell production within the European Union. The project focuses on three main technological improvements: energy efficient and no volatile organic compounds processed electrodes; an innovative dry room reducing concept with improved electrolyte filling; and low-cost and energy-efficient cell conditioning. An innovative platform based on AI will support these technological improvements, and a battery passport, based on a decentralised battery dataspace, will enable digitally tracing the environmental impact and serve as a showcase for the European Battery Passport concept.

champI4.0ns

champI4.0ns uses examples from the timber industry to show how an intelligent and sovereign use of data can be successful. To this end, demonstrators are being implemented with a focus on aspects of material and product tracking, production planning and control and quality assurance, procedures for secure data acquisition and processing are further developed and companies are supported in enhancing competencies.

DataSpace Tourism

Data is a central building block for tourism's digital and green transformation. Therefore, we are building the Data Space Tourism in collaboration with the Data Intelligence Offensive. A central concern of the **Austrian National Tourist Office** as the national tourism organization is to work together with all Austrian tourism partners to enhance the competitiveness of Austria as a tourism destination. We focus on innovation and promote the development of necessary competencies to enable tomorrow's travel.

datahub.tirol

The **datahub.tirol** by **Standortagentur Tirol** creates a data marketplace where data can be used and integrated regionally, nationally and internationally.

DIONE-X

Open and secure data exchange along the entire process chain of the machining industry – this is the goal of the **DIONE-X** research project.

By building an efficient and secure data and service ecosystem based on the principles of Gaia-X, DIONE-X enables ecosystem participants not only to exchange data across companies but also to create new fields of application, including data-driven business models.

In three use cases, project partners from research and industry will develop standards and guidelines that are essential for building this value network. These standards will then be tested by various user representatives from the value network of the machining industry in the industry 4.0 data space.

Learn more about DIONE-X at the booths of **A1** and **EIT Manufacturing**.

EuProGigant

EuProGigant, short for "European Production Giganet", is the Gaia-X lighthouse project for industry 4.0. Through its use cases, EuProGigant is demonstrating an international, multi location digitally networked production ecosystem, enabling resilient value creation along the supply chain and data-driven business models in manufacturing. The EuProGigant ecosystem has grown to incorporate several European projects: AMIDS, DIONE-X, ESCOM and Flex4Res. EuProGigant is also a member of the GEN-X network.

Learn more about EuProGigant at the booths of **A1**, **concircle**, **deltaDAO**, **EIT Manufacturing** and **TU Wien**.

DS4SSCC

Data Space for Smart and Sustainable Cities and Communities (**DS4SSCC**) is an **EU-funded initiative** and preparatory action for the creation of a data space for smart communities. DS4SSCC provides a coordinated starting point for public, private and individual stakeholders to contribute and use data, aligned with European values and policies and acts as an enabler of the EU Green Deal and Sustainable Development Goals.

ESCOM

The ESCOM research project – **Edge Services for Components** – focuses on balanced edge cloud environments for sovereign component service systems in the production environment. The project both tests the advantages of edge computing in industry-related application scenarios and illustrates the guiding principles of a Gaia-X compliant data and service ecosystem. The framework of the two application scenarios is metalworking discrete manufacturing. Learn more about ESCOM at the booths of **A1**, **EIT Manufacturing** and **TU Wien**.

Flex4Res

The European research project **Flex4Res** aims to improve the resilience of supply chains. An open platform based on the principles of Gaia-X will enable secure and sovereign cross-company data exchange. Combined with additional toolboxes for resilience assessment and reconfiguration planning, stakeholders across the supply chain will be enabled to manage different types of disruptions by reconfiguring supply chains and production lines quickly and efficiently.

Learn more about Flex4Res at the booths of **A1**, **EIT Manufacturing** and **TU Wien**.

EXCERPT OF GAIA-X PROJECTS

Gaia-X 4 Future Mobility

Gaia-X 4 Future Mobility is focused on by 6 projects with Gaia-X-based implementations of future mobility applications. The project family deals with the following topics:

1. Data supply of automated vehicles and establishment of cooperative vehicles and intelligent transport infrastructures
2. Remote operation of automated vehicles
3. Secure and decentralized digital identities
4. Product life cycle and digital twin in automated driving

The **Gaia-X 4 Future Mobility project family** provides important product-related impulses for the transformation of the mobility sector. In concrete use cases, the project stimulates product ideas and innovative business models, especially for digital assets and products on the basis of Gaia-x principles.

Mobility Data Space

The Mobility Data Space (MDS) is a lighthouse project of Gaia-X. Since 2022 the MDS is productive and ready to use. It connects providers and consumers of mobility relevant data in an all-easy way and creates a framework for cooperation, based on trust. Data is transferred immediately between two or various parties by using the EDC connector. No data is stored or analyzed by the MDS and any third party, thereby the MDS is upholding European values, such as decentral data storage, among others. But Data does not stop at borders, one of the key success factors for dataspaces is inner- and cross domain interoperability with other data spaces. And important prerequisites are alignments based on architectures, services, legal constraints, and trusted identities. Gaia-X plays a prominent role as a central integrator and therefore, MDS is proud to be a **lighthouse project in the Gaia-X community!**

GEN-X

GEN-X is a Pan-European network for Pontus-X, the first fully decentralized data space in Gaia-X, built by **deltaDAO** and used by the **EuProGigant and Gaia-X 4 Future Mobility project families**. GEN-X is owned by no one and open to everyone, entirely run and governed by Gaia-X community members dedicated to the Gaia-X Trust Framework. Current network validators include members from various domains and national Gaia-X Hubs across the EU including Arsys, EuProGigant, EXOSCALE, IONOS, Staatsbibliothek zu Berlin, Technische Universität Wien, Universitat de Lleida, WOBCOM and deltaDAO, with more to follow.

Green Data Hub

The **Green Data Hub**, implemented by the Data Intelligence Initiative (DIO), has been commissioned and mandated by the **Federal Ministry for Climate Protection, Environment, Energy, Mobility, Innovation and Technology (BMK)** to create a sustainability-oriented European data service economy in line with the goals of the European Green Deal and the Paris climate goals as well as the UN SDGs.

MoveID

MoveID is part of the GAIAx4FutureMobilty project family consisting of five consortia. They aim to develop a decentralized digital identity infrastructure for mobility in Europe! To realize the envisioned use cases, "Gaia-X moveID" develops a decentralized software infrastructure for communication and commercial transactions among cars, vehicles, traffic infrastructure, factories, and service providers. Decentralized principles are being adopted from Web3, with the aim of allowing peer-to-peer transactions (e.g., between cars or cars and service providers) while ensuring data sovereignty. Learn more about ASTRID iHub at the booths of **Wobcom**.

OMEGA-X

Relying on European common standards, the EU-funded **OMEGA-X** (Orchestrating an interoperable sovereign federated Multi-vector Energy data space built on open standards and ready for Gaia-X) project aims to implement an energy data space. This will include federated infrastructure, data marketplace and service marketplace, involving data sharing between different stakeholders and demonstrating its value for concrete energy use cases while guaranteeing scalability and interoperability with other data space initiatives.

Prometheus-X

Visionpol believes in a human-centric education & skills data ecosystem where people are in charge of their data and their destiny, for that they provide Gaia-X compliant tools to people and organisations to empower them with their data and allow data to be shared and used in a trustworthy way.

They unite an ecosystem of public and private organisations to make this vision a reality and with one first goal: empower people in their learning and career journey.

smartMA-X

Modular Smart Manufacturing Gaia-X Testbed (**smartMA-X**) is a project by the **Technologie-Initiative SmartFactory KL e.V.** . They aim for development of cross-manufacturer concepts, prototype implementations and evaluation results from the practical integration of a production environment in Gaia-X.

The focus is on how companies can realise cross-plant and cross-company production in the sense of shared production thanks to continuous access to data and machines.

TELLUS

TELLUS will develop an overlay across cascades of cloud providers, networking service providers and cloud users to enable end-to-end networking with guarantees for hybrid cloud scenarios, considering critical requirements. Following the Gaia-X idea, integration based on interfaces and systems should bridge domain boundaries, ensure interoperability and portability and thus create dynamic networks with variable bandwidths, lower latencies, increased security and control over the data flow in the network. Learn more about ASTRID iHub at the booths of **Wobcom**.

Gaia-X Hub Austria Management Board

May we introduce ourselves

The Gaia-X Hub Austria will ensure that no time is wasted for Austria as a business location during this essential phase of the digital transformation – rather, that politics, science and education, industry, administration, and civil society organizations participate in the European Gaia-X initiative actively and at the cutting edge wherever possible.

CHAIR
Dipl.-Ing. Helmut Leopold, PhD

VICE-CHAIR
Mag. Georg Hahn

—
Dr. Mario Drobics

—
Michael Fälbl

—
Dr. Tobias Höllwarth

—
Univ.-Prof Dr. Stefanie Lindstaedt

—
Ing.in Brigitte Lutz, MSc

—
Dipl.-Ing Roland Sommer, MBA

—
DI (FH) Gerald Steiner, MBA

—
Dipl.-Ing. Christian Tauber

—
Mag. Annette Trawnicek

Be part of the future and join us!

MISSION

To support the Gaia-X vision effectively, visibly, and sustainably, the Gaia-X Hub Austria will pursue the following four strategic areas of activity for all involved or interested Austrian organizations and individuals until the end of 2023:

Gaia-X Management Board

NO. 1

Provide information to establish trust

NO. 2

Facilitate entry to support development

NO. 3

Concentrate forces to increase effectiveness

NO. 4

International networking to enhance visibility

gaia-x
Hub Austria

About the Gaia-X Hub Austria

The Gaia-X project provides a model that is fair and open to all, on the basis of which any organisation can exchange data or build data business models.

Austria's innovative commercial and industrial enterprises, which today succeed through outstanding technological capabilities, can increasingly create value through data business models.

THE VALUES GAIA-X BUILDS ON

Fairness
Gaia-X promotes the principles of data ethics and freedom of choice, while reducing elements inducing strong dependence on proprietary black-box technologies.

Independence
Gaia-X is a completely independent organization that is funded through the contributions of its members and has no obligations toward any private or state entities.

Inclusivity
Gaia-X is open to all members of any type and from any country within and outside Europe at the national, international, or global level.

Sovereignty
Gaia-X offers a framework for constructing sovereignty from the digital and technical perspective.

Openness
Gaia-X is a new paradigm for cloud and data services that is based on a high level of openness and transparency.

Transparency
Users have the possibility to verify the correctness of the information provided on certain service features with the help of the GXFS.

Federation
Federations create joint data spaces, which facilitate cooperation between different stakeholders and thereby promote innovation and value creation.

Development
Gaia-X follows the principle of continuous improvement and development on the basis of objective validation and feedback loops.

Innovation
Gaia-X is an ecosystem of innovation in which new concepts are ground-breaking in the world of digital trust and data ethics.

No charges
The open-source code and the specifications of Gaia-X are made available free of charge.

21 operational work objectives of the Hub in 2023

More than 50 activities of the Hub per year

Inside Gaia-X #8 I EuProGigant

Since March 2021, experts from science and business have been cooperating on the development of a European, digitally networked production ecosystem in the context of Gaia-X in the Austrian-German lighthouse project EuProGigant.The aim of the project is to enable the smart and sovereign use of data in industry. Participating Austrian partners included: Plasser & Theurer, WFL Millturn Technologies and the Vienna University of Technology.
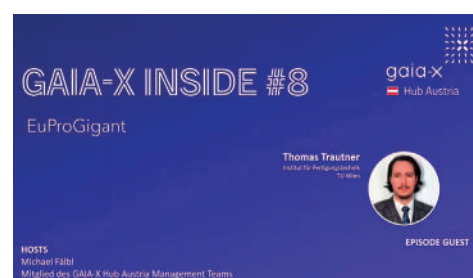
Promoting cooperation across national borders

On 28 July, Gaia-X Austria hosted a stakeholder meeting in Vienna for the IT and Gaia-X community from Slovenia, Slovakia, and Hungary as well as guests from Croatia and Germany. Roland Fadrany (Gaia-X AISBL) joined online for an introduction. The aim of the meeting was to foster cooperation among these countries. Information exchange and collaboration will be an essential prerequisite for driving the regulatory and technical aspects of data-driven value creation for our global next-generation digital markets.

Content Session Forum Alpbach

The Gaia-X Hub AT organised a content session hosted by the BMF, State Secretary for Digitalisation and Telecommunications, on 26.08. (15-ca. 18 h, fire station) in Alpbach.
This workshop discussed the societal and economic aspects of data-driven value creation and the EU key initiative Gaia-X.

Things to do in Vienna

Touristic Sights

Schönbrunn
Oberes Belvedere
Hofburg
Museum Hundertwasser

Kapuzinergruft
Karlskirche
Zentralfriedhof

Museums

Albertina
Kunsthistorisches
Museum
Leopold Museum
MAK

Concerts

Musikverein
Konzerthaus
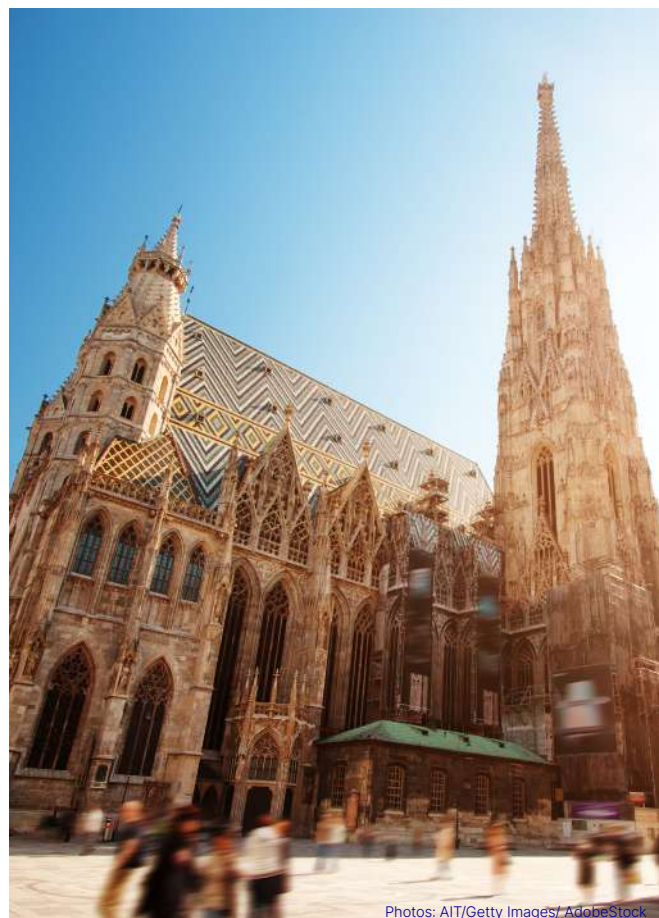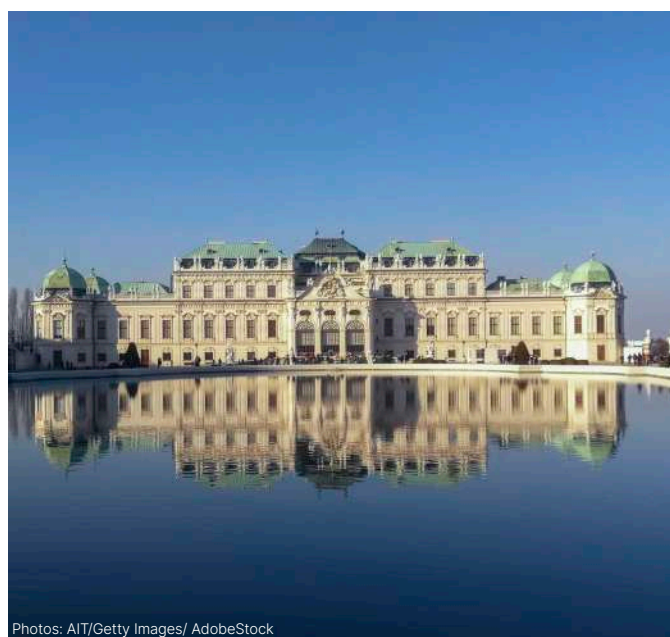
Opera & Theater

Staatsoper
Volksoper
Volkstheater
Burgtheater

Coffee houses

Café Central
Café Sperl
Café Hawelka
Hotel Sacher
Café Mozart

Restaurants

Plachutta
Steirereck
Motto am Fluss
Do&Co Stephansplatz
Schwarzes Kameel
Konstantin Filippou

Bars

Campari Bar
First American Bar
The Bank Bar im Park Hyatt
25 Hours Hotel

Thank you
for being part of
Market-X in Vienna

Something to take away from Market-X and remember Vienna:

The Original Hub Austria Receipe for Viennese Applestrudle

INGREDIENTS

Dough:
300 g plain wheat flour
150 ml water (lukewarm)
2 tablespoons oil
½ tsp salt
oil or liquid butter for coating

Apple filling:
1,5 kg mixed apples
80 g breadcrumbs
50 g butter
raisins
cinnamon
sugar

PREPARATION

Sift the flour onto a work surface and make a well in the middle of the flour heap. Add water, oil and salt to the well, mix and add more and more of the flour. Knead the dough until smooth.

Form dough into a ball, place on a floured plate and brush thinly with oil. Cover dough and refrigerate for about 1 hour.

For filling, peel apples, remove core, slice apples. Mix in granulated sugar, vanilla sugar, lemon juice and zest, ½ tsp cinnamon, rum, raisins and almonds. Let the filling steep for about 15 minutes. Pour off the resulting juice. Toast crumbs in butter and transfer.

Preheat oven to 180°C. Line a baking tray with baking paper. Roll out dough on floured kitchen towel, spread thinly (about 70 × 50 cm) and drizzle with butter. Spread crumbs and apples over two-thirds of dough. Cut away thick edges of dough. Roll up dough with the help of the cloth.

Press off the ends of the dough. Place the strudel on the baking tray with the seam facing downwards, brush with butter and bake in the oven (lower rack) for approx. 50 minutes. Portion the strudel and sprinkle with powdered sugar.

Photo: Pexels

Gaia-X