Our joint
value story

Partnership with

T Systems

🟢 nVIDIA

Industry challenges and needs

Challenges

In the current landscape, metaverse platforms have failed to meet the requirements for a realistic and sophisticated replication of reality, mainly due to a lack of user experience (UX). With the rise of hybrid work environments, enterprises are seeking an omniverse technology solution that is not only capable of delivering authentic experiences but is also future-proof and capable of running simulations seamlessly in the virtual world, while tackling complex challenges in the physical realm.

Needs

To fully leverage the potential of metaverse for businesses, there is a need to safeguard the existing investments and systems. The ability to repurpose and reuse the valuable data "treasury" as a fundamental foundation for adopting metaverse technology is required. Organizations across various sectors recognize the significance of the omniverse as a rapidly evolving topic. They are eager to delve into and capitalize on the prospects of what a user-centric virtual experience, that is photo realistic, can offer to business processes. Their primary objectives encompass unlocking cost-saving measures, reducing carbon footprint, driving revenue growth, and enhancing operational efficiency. Additionally, they seek to establish a new and innovative customer/user experience, aligning with evolving expectations in the modern business landscape.

Global market landscape

Enterprise spending on AR & VR will outpace the consumer segment by 2030

Global total metaverse estimated market size as per different analysts

PwC:
- 2020A*---€49 bn
- 2028E*---€855 bn

Statista:
- 2021A---€40 bn
- 2022E---€50 bn
- 2030E---€700 bn

McKinsey:
- By 2030, TAM will be €5 trillion

Global automotive metaverse market size
- 2022E---€2 bn
- 2030E---€17 bn
(Source: Markets & Markets)

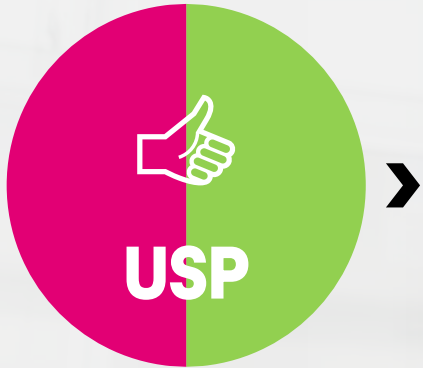- A*= Actuals
- E*= Estimated

Our value proposition

By leveraging Omniverse platform, a new level of customer experience is delivered through, significant cost savings, fast time to market, increased quality and enhanced operational efficiency. The combination of the market-leading, high-performance platform with our expert consulting, implementation, and operation services, ensures that each specific customer case is addressed effectively. Additionally, we offer industry-specific modules tailored use cases, further enhancing the uniqueness and value of our offering and partnership.

NVIDIA's Omniverse introduces a groundbreaking era of digital twin and simulation capabilities. Powered by multi-GPU technology, this platform enables the creation and operation of real-time applications, delivering an exceptional user experience that includes advanced AI features.

T-Systems, as a trusted partner, provides a comprehensive range of managed services, including seamless integration to existing data sources and systems, to help fully unlock the potential of the Omniverse platform for businesses while ensuring sovereignty and security.

USP

> Uniting to deliver unique end–to–end services for the industrial metaverse covering expertise and competence around Seamless 3D Visualization, Simulation, and AI Applications ensuring digital sovereignty and security. This leads to state-of-the-art Omniverse solutions to set up future-proof factories faster and produce more efficiently than ever, resulting in significant savings!

Proof points

- NVIDIA hardware used for ChatGPT
- Implementing Europe's largest omniverse project in automotive
- Highly qualified domain and omniverse experts

Our promise

- Make the industrial metaverse real
- Embrace the industrial metaverse for limitless possibilities
- Lead the digital frontier with NVIDIA Omniverse solutions

Our offering overview

1. Consulting, infrastructure, and integration

2. 3D design

3. Simulation and AI applications

4. End-to-end responsibilities, including legacy system integration, and simplifying industrial Omniverse technology

5. Ready-to-use modules - automotive use cases

6. Connectors for heterogeneous systems and data landscapes

7. Fully managed NVIDIA Omniverse Cloud PaaS: Managed Omniverse application stack

8. Design, implementation, and operational excellence

9. Integration of existing customer digital assets

10. Enterprise-grade security

11. Optimized, customer-specific service design

12. Data integration of different data sources

NVIDIA

NVIDIA Omniverse as scalable platform by the leading GPU innovator, available on demand including 3D, AI, and open animation software with the Universal Scene Description (USD).

T··Systems

Trusted partner with industry and process know-how. Comprehensive range of managed services, including seamless integration to existing data sources and systems, ensuring sovereignty and security.

Our use cases

Virtual factory production, e.g., real automotive OEM example shows a 30% cost savings compared to traditional factory planning processes

Virtual online showroom Sales/Aftersales

Live monitoring and simulation ADAS/AD testing

Aircraft /ship digital twin with focus on lifecycle operations

Digital twin for crew training purposes

Smart hospital

AI personal nurse

Healthcare insurance

Cabin/interior digital twin For presales purposes

With its industrial Omniverse NVIDIA is providing the functionality to make perfect images from complex physical objects in real time.

T Systems helps to unlock this potential for specific use cases with its outstanding Omniverse and industry expertise.

Use case example
Automotive - Virtual factory production

Challenge

- Complex planning efforts for new plants
- Change of planning creates adaptions that eventually lead to misconfigured plants
- More efficient planning to avoid delays, costs and corrections
- Demand for a collaborative environment: involvement of various stakeholders and partners with high degree of reality

Solution

- Next-generation factory planning based on digital twin of plant in NVIDIA Omniverse
- Digital twin as a close-to-reality image of physical site
- Preparation and provision of data from different sources in real time
- End-to-end support by T-Systems experts including consulting, infrastructure and integration

Customer benefit

- Planning changes can be simulated throughout the entire planning process of factory
- Creation of photorealistic real-time 3D simulations
- Complete Omniverse service from consulting via building to Omniverse platform management
- Access to Omniverse expertise

Your advantage

With the industrial metaverse...

- Unlock cost savings
- Reduce carbon footprint
- Drive revenue growth
- Enhance operational efficiency
- Create innovative customer/user experience

Discover the industrial metaverse

Realistic real-time simulation with T-Systems and NVIDIA

Book your workshop