# What is TELLUS?

**Tellus**

**gaia-x**
Hub Germany

**TELLUS – Optimized Network Transmission & Infrastructure for individual Requirements**

**Goal:** Critical business processes with special requirements for latency, bandwidth, or resilience can be realised through the technical connection and integration of heterogeneous network structures with optimal performance.

**Innovation:** Development of a Network-as-a-Service where performance and security features are guaranteed end-to-end across the entire network transmission path.

To implement the optimised network transmission, Tellus analyses the requirements profile of three critical applications to develop a **flexible "one-fits-all" solution**:
a) Equipment-as-a-Service (TRUMPF)
b) Intelligent Glove (Mimetik)
c) Digital twin (IONOS)

tellus-project.de

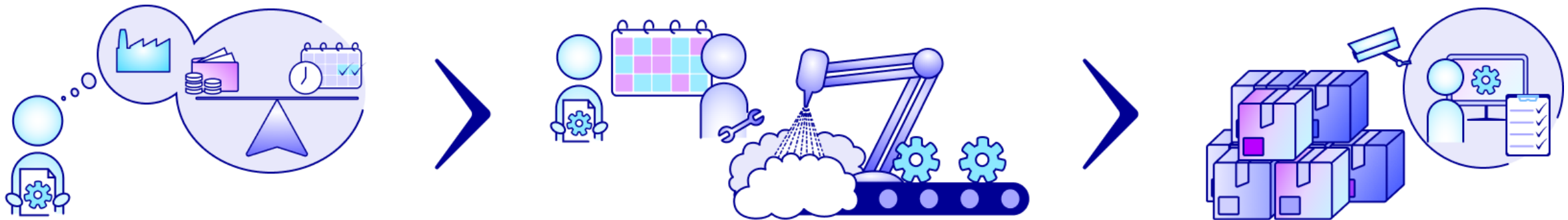# Use Case: Equipment-as-a-Service (EaaS)

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Sheet metal processing companies need to make high investments in industrial goods (e.g. machine tools) to be able to produce, even when utilisation is low.

The EaaS model offers the option to pay only for the actual machine usage or per unit. This way, the customer can adjust their production as needed and adapt to market changes.

In addition, AI-driven services are being developed, which allow among other things, a video-based quality assessment of material processing.

## Further Use Cases

**Digital Twin (IONOS)** enables the optimisation of manufacturing processes in decentralised production facilities.

**Intelligent Glove (Mimetik)** for the remote control of machines across large distances.
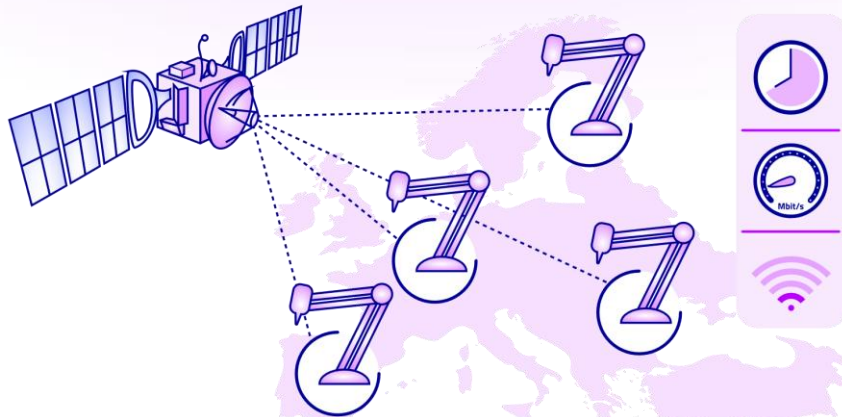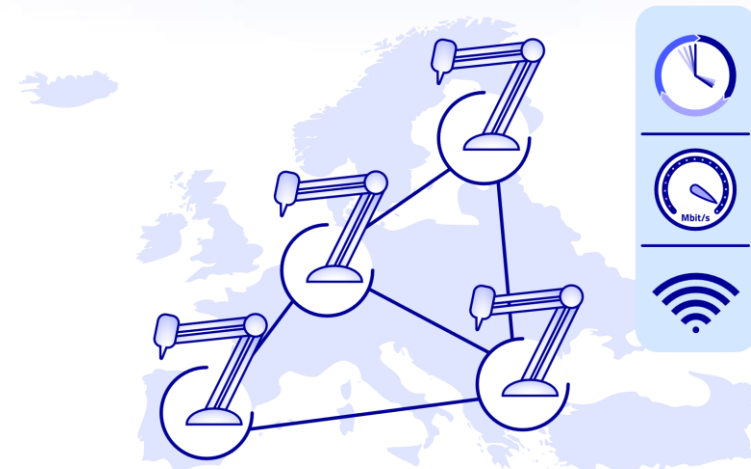
# Gaia-X makes Tellus possible

## Situation without Gaia-X

- Business processes that are distributed across multiple locations or require specific performance characteristics are transmitted insecurely and opaquely over the internet.

- As a result, many (critical) applications cannot be represented reliably and legally.

## Solution with Gaia-X

- The Gaia-X framework enables the project's participants to interact with one another in a trustworthy multilateral network.

- Gaia-X guarantees a certain service level and defines a standard for so-called Interconnection Point Identifiers (IPIs), which identify potential network connections.

**Tellus – Optimal, secure data transmission with guaranteed performance characteristics**