

Hanover, May 30, 2022

Hannover Messe, Hall 9, Stand D49

## We are ready – are you?

- **Industry faces a triple challenge: climate change, pandemic, fragile global supply chains.**
- **Only a fully Digital Enterprise can adapt – Siemens is showing the way at Hannover Messe.**
- **Decarbonization of value chains: Siemens and 14 partners establish an open network (Estainium) for the exchange of climate-relevant data.**

Industry faces a threefold challenge. The war against Ukraine exposed its dependence on fossil fuels. Supply chains are coming under renewed pressure from lockdowns in Asia. All of this happens with the backdrop of climate change: If industrial societies do not change course, climate change will become irreversible.

This triple challenge is a wake-up call: only digitalized companies will survive, grow, and make a positive contribution to society. Cedrik Neike, Member of the Managing Board of Siemens AG and CEO Digital Industries: "We have the right technologies. We need to use and scale them. We as an industry must fundamentally change. We must become more transparent and open to cooperation. Make better use of data. Siemens is ready. And we are ready to accompany our customers on this path."

### **New technologies for digital transformation**

In addition to the societal challenges, there are industry-specific issues: cost pressure, material shortages and a shortage of skilled workers. The ability to flexibly adapt to new challenges will become even more important in the future. The good news is that Siemens offers the right technologies to create customer value - become more profitable and more sustainable, increase transparency, and speed, and ensure availability and scalability.

With its highlight showcase – the SimRod e-car – Siemens shows the breadth and depth of its automation and digitalization portfolio. The SimRod allows visitors at the booth to experience the optimization of product and production over the entire life cycle. Digital Twins, Additive Manufacturing, and the use of Automated Guided Vehicles (AGVs) are revolutionizing planning and manufacturing in the automotive industry. Real and digital worlds, IT (Information Technology) and OT (Operational Technology) are merging and enable endless optimization loops to hit **profitability** and **sustainability** targets.

In addition, Siemens will be presenting innovations at Hanover to ensure **availability** and **scalability**

- [AI-based service edge app for drives](#): Siemens is expanding its predictive services portfolio with an edge application at Hannover Messe. Fewer production downtimes allow for 30% higher plant availability.

Comprehensive solutions for data availability and mobile data access enable large amounts of data to flow from the shop floor to the top floor, connecting IT and OT networks. This allows for greater **transparency** and **speed**.

- [Industrial 5G](#): An industrial 5G router enables applications such as mobile robots in manufacturing. In addition, Siemens – together with Deutsche Messe – provide all companies with access to a private industrial 5G testing field.

### **Siemens establishes network with 14 partners to decarbonize value chains.**

Yet, this Hannover Messe is not about a single innovation. Isolated technological solutions will not solve the challenges of industry. Only ecosystems will: moving away from individual value capture towards joint value creation. Nowhere is this more urgent than in the fight against climate change.

According to the World Economic Forum, industrial value chains account for about 20% of total global carbon emissions. Up to 90% of the CO<sub>2</sub> footprint of a product

stems from the upstream supply chain. Industry will only achieve its decarbonization targets if it reduces its overall footprint.

That is why Siemens – jointly with other members - is initiating the first open, cross-company cooperation network Estainium for the trustworthy exchange of climate-relevant data. Founding members are Merck Group, NTT Data, Weidmüller, WTS Global, ATS Automation Tooling Systems, TÜV SÜD, Bison Forest, CircularTree GmbH, ecobrain AG, Faber-Castell, Ferdinand-Steinbeis-Institut, Friedrich-Alexander-Universität Erlangen-Nürnberg, Sustainaccount and the University of Technology Sydney.

Estainium is the first ecosystem to enable the transfer of actual PCF data on a large scale instead of relying on average data. The decentralized approach with encrypted and verifiable certificates guarantees the trustworthiness of the data and the confidentiality of the supply chain.

In addition, the partners are founding an association of the same name to meet the need for standardization and security in the exchange of CO<sub>2</sub> footprints. The Estainium Association is based on three pillars: "Technology and Infrastructure", "Standards and Norms" and "Carbon Capture, Use, Storage and Compensation". It uses the disruptive possibilities of digitalization to eliminate economic misallocations and the unsatisfactory and incomplete state of information about the quantity and quality of emissions and resources used along the entire supply chain.

Cedrik Neike: "As an industry, we will only become climate-neutral if we know where the emissions come from. With Estainium, we bring transparency to supply chains, we work in an open ecosystem, and we harness the power of data. This is our offer to customers, partners, and competitors. This is our contribution as a company for a better future."



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This press release and a press photo are available at <https://sie.ag/3NyJ1Rx>

Further information on Siemens at Hannover Messe please see [www.siemens.com/press/hm](http://www.siemens.com/press/hm) and [www.siemens.com/hm](http://www.siemens.com/hm)

### **Contact for journalists**

Patrick Lunz

Phone: +49 162-263-8785; Email: [patrick.lunz@siemens.com](mailto:patrick.lunz@siemens.com)

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**Siemens Digital Industries (DI)** is an innovation leader in automation and digitalization. Closely collaborating with partners and customers, DI drives the digital transformation in the process and discrete industries. With its Digital Enterprise portfolio, DI provides companies of all sizes with an end-to-end set of products, solutions and services to integrate and digitalize the entire value chain. Optimized for the specific needs of each industry, DI's unique portfolio supports customers to achieve greater productivity and flexibility. DI is constantly adding innovations to its portfolio to integrate cutting-edge future technologies. Siemens Digital Industries has its global headquarters in Nuremberg, Germany, and has around 72,000 employees internationally.

**Siemens AG** (Berlin and Munich) is a technology company focused on industry, infrastructure, transport, and healthcare. From more resource-efficient factories, resilient supply chains, and smarter buildings and grids, to cleaner and more comfortable transportation as well as advanced healthcare, the company creates technology with purpose adding real value for customers. By combining the real and the digital worlds, Siemens empowers its customers to transform their industries and markets, helping them to transform the everyday for billions of people. Siemens also owns a majority stake in the publicly listed company Siemens Healthineers, a globally leading medical technology provider shaping the future of healthcare. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power. In fiscal 2021, which ended on September 30, 2021, the Siemens Group generated revenue of €62.3 billion and net income of €6.7 billion. As of September 30, 2021, the company had around 303,000 employees worldwide. Further information is available on the Internet at [www.siemens.com](http://www.siemens.com).