

Innovation Tour | Smart City | Singapore

23.-27.03.2026



The Market Entry Programme for Small and Medium-sized Enterprises is a funding programme of the:



Federal Ministry
for Economic Affairs
and Energy



MITTELSTAND
GLOBAL
FOREIGN MARKET
ENTRY PROGRAMME

The Market Entry Programme commissioned by the Federal Ministry for Economic Affairs and Energy is implemented by:

GTAI GERMANY
TRADE & INVEST

Imprint

Publisher

SBS systems for business solutions GmbH
Phone: +49 (0)30 586 1994 10
Email: info@sbs-business.com
www.germantech.org

Text and editing

Germany Trade & Invest (GTAI)
SBS systems for business solutions GmbH
Participating German Companies

Current as at

2026

Print

digital

Design

Germany Trade & Invest (GTAI)
SBS systems for business solutions GmbH

Picture Credits

Participating German Companies
Germany Trade & Invest (GTAI)

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Message of greeting



Dr. Josefine Dutschmann

Foreign Market Entry Programme of the Federal Ministry for Economic Affairs and Energy (BMWE) Germany Trade & Invest

The Foreign Market Entry Programme assists German Small and Medium-Sized Businesses during all stages of their export activities. Participating businesses receive widespread support from the initial stages of market exploration up to the making of actual business contacts, e.g., by providing first-hand market information, organizing exploration trips and building networks. Key element of this support is the personal assistance during preparation, implementation and follow-up of these measures to ensure that the business arrangements are of high quality and sustainable.

This visit is part of the Innovation Tour – Smart City module of the Foreign Market Entry Programme and will facilitate business contacts as well as provide important impulses for the further intensification of the fruitful co-operation between Singapore and Germany.

On behalf of the German Federal Ministry for Economic Affairs and Energy, I would like to thank the participants from Germany, all multipliers, and other involved parties in Singapore for their contribution to create a successful measure.

Sincerely Yours,

Dr. Josefine Dutschmann

Foreign Market Entry Programme of the Federal Ministry for Economic Affairs and Energy (BMWE) Germany Trade & Invest

Introduction

Innovation tour Singapore 23rd - 27th March 2026



As part of a bilateral initiative under the German Federal Ministry for Economic Affairs and Energy (BMWE), a business delegation of German companies specialising in Smart City technologies will travel to Singapore for an Innovation Tour from 23 to 27 March 2026. The ‘Smart City’ Innovation Tour Singapore is a guided learning journey that connects German companies with one of the world’s most advanced urban innovation hubs, offering insights into how future-ready solutions are developed, tested and deployed at city scale.

Singapore is recognised globally for its integrated Smart City ecosystem, where government agencies, research institutions and industry work closely together. Against this backdrop, the Innovation Tour provides an opportunity for mutual exchange, allowing Singaporean companies to discover proven German solutions, explore growth opportunities, and share their own innovations to inspire collaborative projects. At the same time, participating German companies will gain first-hand insights into Singapore’s innovation landscape and identify concrete opportunities for knowledge transfer and collaboration.

Join us on 25 March 2026 for the “Smart City” Tech- and Inno-Forum and targeted B2B meetings. We invite Singaporean industry stakeholders like local technology providers, public sector representatives, research institutes and startups to engage an network with 11 German companies to work together for shaping the future of urban development. These exchanges allow companies to present their technologies, understand regional demand and build partnerships that can accelerate their international growth across Singapore and Southeast Asia.

The ‘Smart City’ Innovation Tour is funded by the BMWE within the Market Development Programme and implemented by SBS Systems for Business Solutions GmbH in cooperation with the Singaporean-German Chamber of Industry and Commerce (SGC).

advancis



SUMMARY

Providing vendor-neutral Open Integration Platform for security and building management solutions, to be deployed in environments where the highest levels of security and operational efficiency are indispensable.



MADE IN
Germany

WWW.ADVANCIS.NET

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COMPANY PROFILE

WinGuard from Advancis is an Open Integration platform that converges and manage security, building automation, IT and communication systems. Dynamic workflows (SOPs) support the operator in event processing and incident management. Based on events and response actions by users, reports can be generated and investigations performed with reliability and accuracy.

Advancis is a global leader in vendor-neutral Physical Security Information Management (PSIM) Software with offices and partners around the world. The company was founded in 1994 with the goal of developing a software platform for unified control of disparate technical systems. Advancis is an ISO 9001 certified company headquartered in Langen/Frankfurt, Germany.

PRODUCTS / SERVICES

WinGuard is scalable from a single workstation system to an internationally cross-linked control center and can be expanded anytime by further subsystems, clients, function and interface modules.

Currently, over 550 interface drivers to different technical subsystems are available, and development of new interfaces is also possible. With WinGuard X5 based on the Advancis Open Platform (AOP), partners and customers can develop their own interface and function modules and implement them directly in WinGuard, enabling specific project requirements independently.

Advancis' mission is to drive intelligent growth through innovative software solutions that embrace digitalization, data-driven insights, and platform ecosystems. By integrating technologies such as BIM, Artificial Intelligence, and the Internet of Things, Advancis delivers scalable, adaptable, and future-ready solutions with open architecture, cost efficiency, and strong support throughout the entire project life cycle.

REFERENCES AND EXPORT ACTIVITIES

Exemplary reference projects: Exemplary Area 1: a. Industry, b. Pharma, c. Public Sector: Security Command & Control Center (a. Auchan, Audi, BMW, Henkel, Infineon, ZF, Claas b. Novo Nordisk, Lunkbeck Pharma, c. Hospitals, Prisons)

Exemplary Area 2: Mass Transportation (Airports, Railways, Harbors): Security Command & Control Center (National Railways of Austria "ÖBB", DHL Airport Leipzig)

<https://advancis.net/resources/success>

TARGET GROUP

Our product is deployed at customers in all verticals. It is very customizable and can therefore be easily adopted to specific environments.

Examples of customer verticals the serve: Banking, Production, Petrochemistry, Transport, Hospitals, Datacenters, Public Administration ...

COMPETITIVE ADVANTAGES

Vendor neutral integration of any kind of security & safety subsystem including non-Physical Security systems such as communication-, building automation-, facilities management,- and IOT systems. In addition strong & proven higher-tier level incident management & emergency response integrations with globally leading platforms. NOTE: independent manufacturer (only this one product, no connection to hardware manufacturers).

IDEAL BUSINESS PARTNERS

- Security integrators
- Planers/ Consultants
- End customers: Enterprises, State organizations, Military & Defense, Transport

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Carried out by:



In collaboration with:



Our full security service from a single source



Information Security



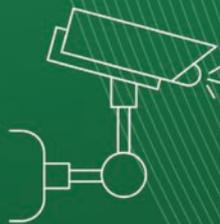
IT security



Business Continuity Management



Data Protection



Security Systems



Audits

DATA
SYSTEMS

SUMMARY

Full-Hand Security Service Provider
– Integrating Governance, Cyber &
Physical Protection.

DS DATA SYSTEMS

WWW.DATASYSTEMS.DE



MADE IN
Germany



DS DATA SYSTEMS GmbH

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38112 Braunschweig
Germany

www.datasystems.de

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Languages: German, English, Arabic, Spanish, French

Security Consulting is our business

COMPANY PROFILE

DS DATA SYSTEMS is a security and compliance consultancy with 30+ years of international experience, operating from Germany and the GCC. We protect organizations against cyber threats, data loss, physical risks, and compliance violations through a holistic approach that unifies cyber, physical, and organizational security.

REFERENCES AND EXPORT ACTIVITIES

With entities in Germany and the UAE, we bridge European governance excellence with GCC security needs, enabling cross-border expertise, international standards compliance, and global operational resilience. We delivered multiple compliance projects worldwide, including defense engagements with the MoD UK and US DoD, and ran security audits across 50+ countries.

PRODUCTS / SERVICES

We provide integrated security, governance, and compliance services that unify cyber, physical, and organizational protection. Our portfolio includes strategic security and governance consulting, the development and integration of management systems such as ISMS, BCMS, and DSMS and full certification readiness, audit support, and independent re-certifications. We conduct compliance, maturity, and risk assessments across international standards and regulatory frameworks. Our technical capabilities include the integration of physical security systems such as access control, CCTV, and alarm technologies. Additionally, we deliver AI Security & Governance frameworks to ensure compliant, transparent, and trustworthy AI deployment. All services combine strategic advisory, auditing, and technical implementation under one roof to strengthen resilience and enable scalable, future-proof security structures.

TARGET GROUP

Our target clients seek Governance, Risk & Compliance, Business Continuity, Data Protection, Physical Security or AI Security solutions. We offer our services to public, private and commercial clients across all sizes.

COMPETITIVE ADVANTAGES

30+ years of deep security expertise across Europe and the GCC. While others treat security as one of many services, we are fully specialized. We bridge governance and security excellence across regions, delivering cross-border insight, proven standards, and a level of specialization few competitors can match.

IDEAL BUSINESS PARTNERS

Ideal partners are business enablers who support national and international growth. We seek alliances for expansion into Asia, as well as partners to grow jointly in Europe and the GCC. We also collaborate directly with customers looking for robust, integrated security, governance, and compliance solutions.

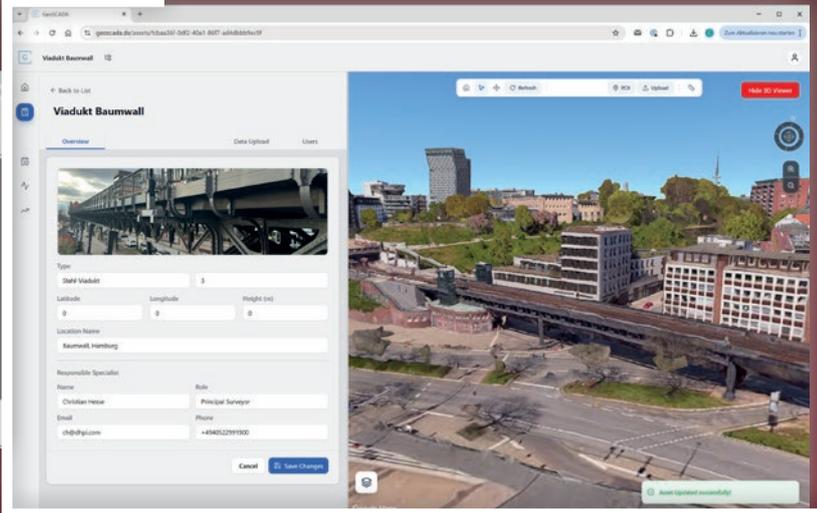
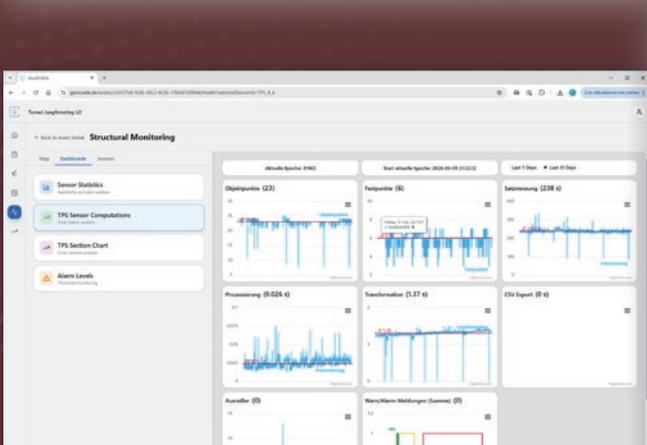
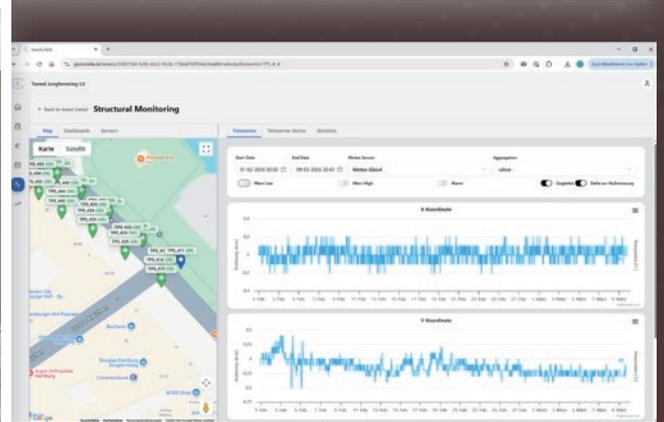
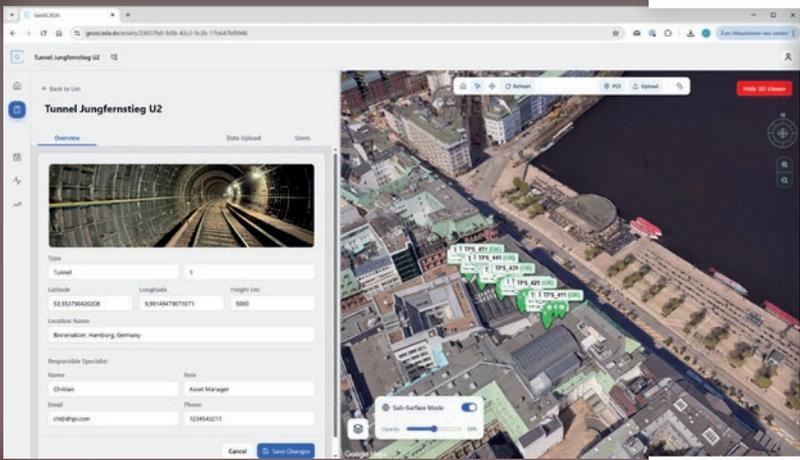
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SUMMARY

dhp:i provides IoT Solutions for 24/7 structural monitoring of infrastructure and buildings.





dhp:i - Dr. Hesse und Partner Ingenieure

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Languages: German, English

COMPANY PROFILE

dhp:i – Dr. Hesse und Partner Ingenieure specialises in continuous structural health monitoring of critical infrastructure. With over 25 years of experience and research partnerships with leading German universities, dhp:i delivers high-accuracy monitoring of bridges, tunnels, quay walls and high-rise buildings.

Using advanced IoT sensor technologies — including fibre optic sensing, acoustic emission monitoring, GNSS, vibration and inclination sensors — dhp:i operates large-scale monitoring systems generating up to 1.6 million measurements per day. This data density enables early detection of structural anomalies with far greater precision than conventional inspections.

Through its digital GeoSCADA platform, dhp:i provides continuous data management and real-time structural assessment via a secure cloud interface with visualised monitoring data accessible anytime.

dhp:i delivers a complete end-to-end solution: from sensor design and installation to live monitoring, anomaly detection and long-term data archiving — keeping critical infrastructure safe, measurable and efficiently managed.

PRODUCTS / SERVICES

dhp:i develops permanent multi-sensor structural monitoring systems for highly stressed infrastructure such as bridges, tunnels, quay walls and high-rise buildings. Continuous monitoring supports early detection of structural changes and reduces costly reactive maintenance.

Sensor technologies include:

Fibre optic sensing – distributed strain and temperature monitoring, acoustic emission – real-time crack detection, GNSS – high-precision deformation tracking, inclination sensors – tilt and rotation monitoring, vibration sensors – dynamic load and resonance analysis.

All systems are designed, installed and operated by dhp:i structural engineers, ensuring full quality control.

REFERENCES AND EXPORT ACTIVITIES

- Autobahn GmbH des Bundes
- Department of Transportation, State of Lower Saxony
- Department of Transportation, State of Schleswig-Holstein
- Department of Transportation, State of Hamburg
- HHLA – Hamburg Port and Logistics AG
- HPA – Hamburg Port Authority AöR
- Federal Waterways Authority (WSV)
- Airbus
- Aurubis
- Deutsche Bahn

TARGET GROUP

Private and public owners and operators of infrastructure such as bridges, tunnels, port infrastructure, construction companies, owners of high rise buildings.

COMPETITIVE ADVANTAGES

- Flexible configuration of a wide range of sensor types — tailored to each structure and monitoring objective
- Very high measurement precision combined with data rates of up to 1.6 million measurements per day
- Wired and wireless sensor options for maximum installation flexibility
- Battery-driven sensors with up to 10 years of autonomous runtime — ideal for remote or access-restricted locations
- USP: GeoSCADA — dhp:i's unique cloud platform for management, visualisation and alarm monitoring of high-density structural health data
- 25+ years of experience in continuous monitoring of highly stressed infrastructure

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Carried out by:



In collaboration with:





elme
sicherheitssysteme &
metallbau GmbH



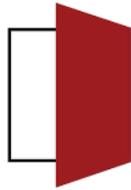
SUMMARY

Manufacturer of security technology in the building sector: windows, doors and facades in steel or aluminum construction.



MADE IN
Germany

WWW.ELME-SICHERHEITSSYSTEME.DE



COMPANY PROFILE

We are a medium-sized metal construction company based in Zossen, south of Berlin.

The world-famous “Made in Germany” quality stands for the highest standards and reliability. That’s why we produce doors, gates, windows, facades and bathroom fittings in our own workshop. In this way, we guarantee our customers the best quality. We offer you the full program – planning, production of the complete construction and, of course, installation.

Our slogan sums it up: The right way for sure!

REFERENCES AND EXPORT ACTIVITIES

Our references speak for themselves – precision, quality, and reliability are a matter of course here!

Our current focus is on the exciting German market. However, thanks to our in-house production, modern processes, and extensive experience, we are also able to implement international projects and export inquiries on a project-specific basis.

TARGET GROUP

Private, commercial and public clients.

PRODUCTS / SERVICES

We offer a wide range of services, including doors, windows and facades in aluminum and steel construction, preventive fire protection, burglar and blast resistance, structural glass construction, mechanical and electrical security technology, general metal construction, monument protection and much more.

Our services are simply unbeatable – we offer advice, planning, installation and maintenance – all from a single source!

COMPETITIVE ADVANTAGES

With our high-quality materials, precise manufacturing, customized solutions, and excellent customer service, we set new standards in every aspect!

IDEAL BUSINESS PARTNERS

We are enthusiastic about reliable companies and institutions that are passionately committed to quality and consistency!

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In collaboration with:





FIRE PROTECTION SYSTEMS

DESIGNED FOR RAIL

SUMMARY

FOGTEC Rail Systems is the world's leading provider of fire detection and fire fighting systems for rolling stock applications.




MADE IN
Germany

WWW.FOGTEC.COM



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Languages: German, English

COMPANY PROFILE

The owner-managed company FOGTEC Fire Protection was founded in 1997 and is headquartered in Cologne, Germany. FOGTEC systems are protecting thousands of fire risks worldwide in the railway sector, as well as in tunnels, buildings and different industries.

FOGTEC Rail Systems is the world's leading provider of fire detection and fire fighting systems for rolling stock applications. The FOGTEC systems are specifically designed for the railway vehicle environment and a dedicated rail team provides technical and commercial support for our customers all over the world.

Effective and reliable fire protection is ensured with a wide range of technically diverse, combinable system solutions, certified up to SIL2 level.

FOGTEC is a single-source service provider and can equally integrate fire protection systems in existing vehicles or supply ready-for-use full solutions as part of a turnkey project.

REFERENCES AND EXPORT ACTIVITIES

Equipping of the R151 Trains and Trains for the Downtown Line of the Land Transport Authority (LTA) Singapur. LTA is widely regarded as one of the most demanding public transport authorities globally. In addition, LTA considers the Downtown Line as one of the most reliable metro lines worldwide.

TARGET GROUP

Rail safety officers and chief technical officers of transit authorities and passenger rail companies.

PRODUCTS / SERVICES

FOGTEC offers complete fire protection system solutions, certified up to SIL2 level, including smoke and heat detection systems as well as fire fighting systems with high pressure water mist, inert gas or aerosol. Areas protected on trains include diesel engines, high voltage converters, electrical cabinets, passenger compartments, WCs and drivers cabs.

Over 25,000 FOGTEC systems have already been installed in all five continents in locomotives, high-speed and intercity trains, commuter trains as well as on metros and trams.

COMPETITIVE ADVANTAGES

Lightweight and space-saving systems with minimal water consumption, fully assessed/certified systems up to SIL 2 acc. EN 50129 as system assessment, the only IRIS rev.04 certified fire protection company in the world, certified welding company for components in rolling stock applications acc. EN 15085.

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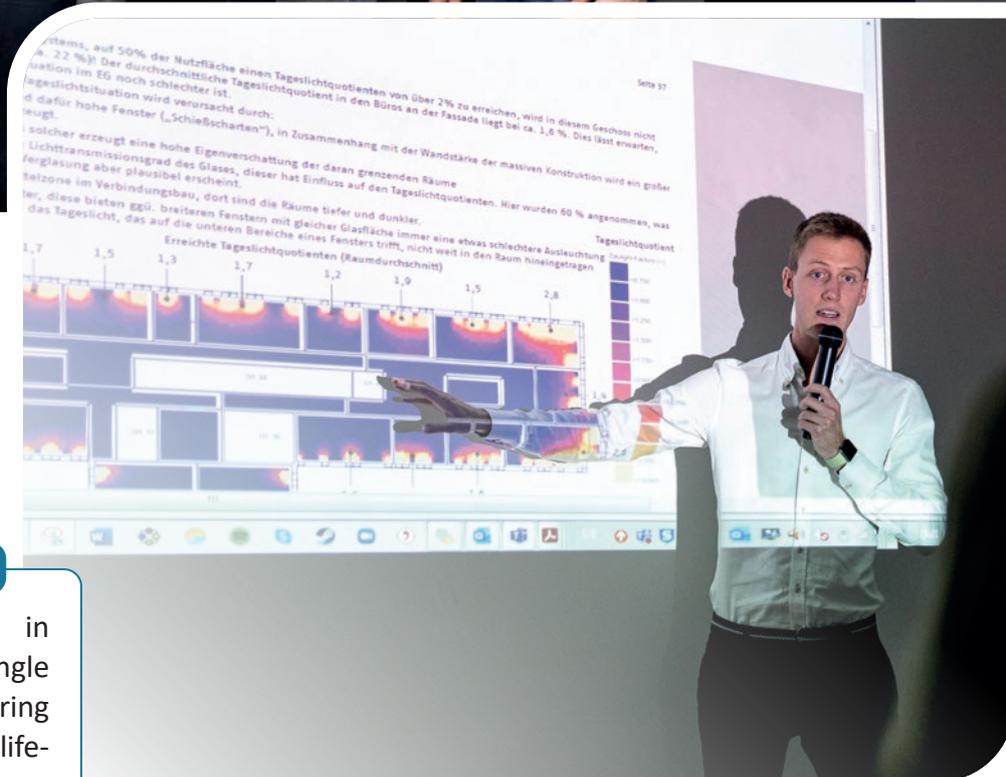
In collaboration with:





GREENENGINEERS

ENGINEERING & CONSULTING



SUMMARY

Greenengineers specializes in sustainable building — from single homes to entire quarters — offering ecological design, energy & life-cycle.



MADE IN
Germany

WWW.GREENENGINEERS.DE



GREENENGINEERS

ENGINEERING & CONSULTING

GREENENGINEERS GMBH

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Phone: +49 151 40754202
Languages: German, English

COMPANY PROFILE

Greeneers GmbH is an innovative engineering firm for sustainable construction based in Munich and Hamburg. As part of Sakosta Holding AG (with over 30 years of experience and 350 employees), we combine the agility of a start-up with the stability of an established corporate group. Our interdisciplinary team of experts in environmental engineering, architecture, civil engineering, and building services engineering pursues the vision of sustainably revolutionizing the construction industry through holistic, future-proof concepts.

PRODUCTS / SERVICES

Our services cover the full life cycle of a property (new and existing buildings):

- Concepts & Planning: Energy, climate resilience and mobility concepts, plus re-use and recycling strategies.
- Consulting & Analysis: Life cycle assessments (LCA), life cycle cost calculations (LCC), climate risk analyses, and EU Taxonomy checks.
- Certification: Support for green building certifications (DGNB, BNK, BNB, NaWoh) and assistance in obtaining the Quality Seal for Sustainable Buildings (QNG) to secure funding.

REFERENCES AND EXPORT ACTIVITIES

Greeneers GmbH has completed over 250 projects and operates in five countries. Our references include:

- Competition successes: 2nd prize in the “Das Denkmal der Zukunft” competition organized by RWTH Aachen (sustainability concept).
- District developments: Sustainable energy and renovation concepts for residential complexes and small-scale neighborhoods (e.g., Stiftung Wohnprojekt Badhaus).
- Large-scale projects: Consulting for renowned developers and investors (e.g., Quantum) on refurbishment concepts and the acquisition of funding for existing properties.

TARGET GROUP

Our services are aimed at professional players in the real estate sector who value future viability and asset preservation:

- Project developers and builders
- Institutional investors and asset managers
- Architects and general planners
- Municipalities and public clients for district developments

COMPETITIVE ADVANTAGES

- Holistic approach: We integrate technology, biology, and building materials into comprehensive concepts rather than isolated partial solutions.
- Funding expertise: By specializing in QNG and LCA, we maximize the economic attractiveness of sustainable projects for our clients.
- Innovative strength: We apply methods such as design thinking and integrate disruptive technologies while ensuring economic feasibility (visionaries & realists).
- Strong network: As part of the Sakosta Group, we have access to extensive laboratory and engineering services across Germany.

IDEAL BUSINESS PARTNERS

We are looking to collaborate with partners who want to “rethink existing real estate”:

- Architectural firms seeking to enhance their designs with solid sustainability expertise and life cycle assessments.
- Investors aiming to structure their portfolios in an ESG-compliant and climate-resilient way.
- Innovative manufacturers & service providers in ecological renovation, green tech, or smart building who want to join our expert network.

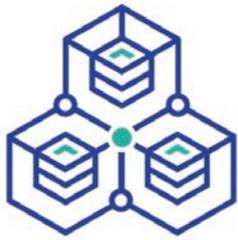
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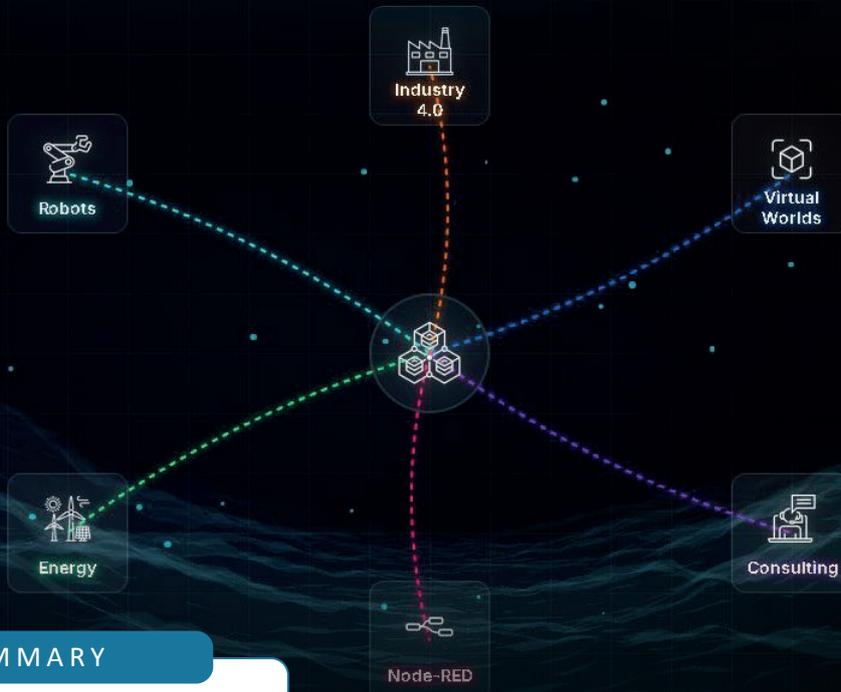




iniationware

OT/IT Hybrid-Integrators

Smart enough to keep it simple



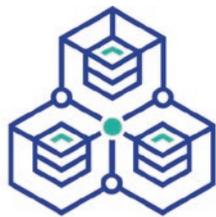
SUMMARY

OT/IT integration for energy, buildings, robots & manufacturing – efficient, secure & future-proof. We offer the OS for AIoT.



MADE IN
Germany

WWW.INIATIONWARE.EU



iniationware

Iniationware GmbH

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49393 Lohne (Oldenburg)
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www.iniationware.eu

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Phone: +49 4442 9559 003
Languages: German, English

COMPANY PROFILE

Iniationware accompanies you on the long-term journey to autonomization – with expertise, commitment, and a clear focus on your success.

REFERENCES AND EXPORT ACTIVITIES

Danfoss, VW Kraftwerke, Bofrost, Wernsing Food, MOBA.

TARGET GROUP

Investors, modernizers and developers of digital infrastructures.

PRODUCTS / SERVICES

- Automation and Autonomy for Energy
- Robots
- Digital Infrastructures

COMPETITIVE ADVANTAGES

We provide AIoT OS solutions for Digital Infrastructures

IDEAL BUSINESS PARTNERS

AIoT solution providers looking for an AIoT OS as a platform.

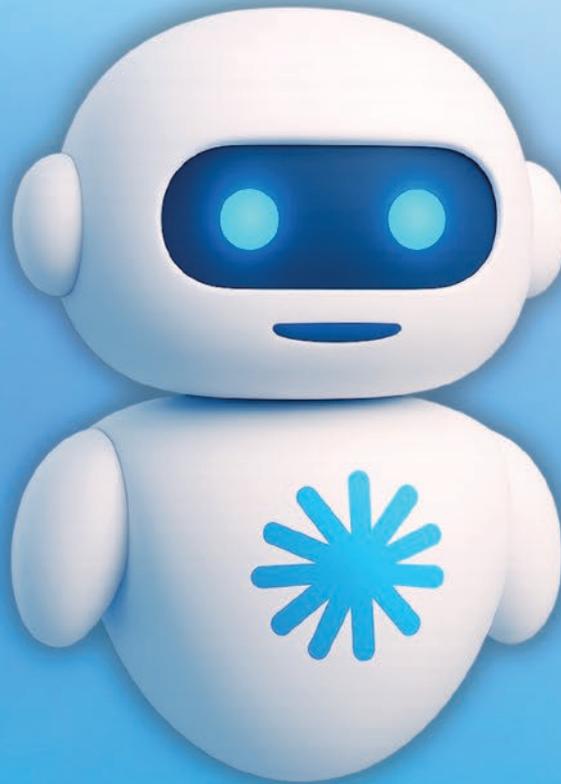
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In collaboration with:





AI FOR BUSINESS

AI-POWERED KNOWLEDGE PLATFORM

SUMMARY

LIKS is an AI-powered knowledge management platform that enables secure and GDPR-compliant use of AI on corporate knowledge.



MADE IN
Germany

WWW.LIKS.GMBH



LIKS GmbH

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Phone: +49 6431 4097908
Languages: German, English, español

COMPANY PROFILE

Founded in 2024, LIKS is a GDPR-compliant, AI-powered knowledge management platform designed to transform internal documentation into operational knowledge for businesses. It addresses the common challenges of fragmented, hard-to-find information and lack of real-time availability during daily operations. Unlike generic AI tools, LIKS works exclusively with a company's own data under full control, ensuring data security and compliance. The platform helps organizations reduce search and inquiry times, supports faster, better-informed decisions, and promotes consistent process execution. LIKS is a scalable and secure solution for companies that view knowledge as a strategic asset and want to leverage it effectively in everyday business operations.

REFERENCES AND EXPORT ACTIVITIES

LIKS currently focuses on the German market, leveraging its expertise in data protection and local requirements. This enables us to offer tailored, secure solutions to our customers. Technologically, we are prepared for future international expansion.

LIKS successfully works with companies of various sizes, especially in the mid-market segment and technology-oriented industries.

TARGET GROUP

LIKS is an AI-powered knowledge management platform for medium-sized B2B companies that transforms internal documentation into operationally usable knowledge – secure, controlled, and GDPR-compliant.

PRODUCTS / SERVICES

- Knowledge platform with AI integration: Automated extraction, structuring, and context-based delivery of proprietary company knowledge, exclusively based on the company's own data.
- Secure and controlled data management: Full control over data and compliance with all data protection and regulatory requirements, especially GDPR.
- Increased efficiency in daily work: Reduction of search and inquiry times through intelligent search and precise answers, enabling faster and better-informed decisions.
- Support for consistent processes: Promotion of uniform process execution through reliable access to up-to-date knowledge.
- Scalable solution: Adaptable to different company sizes and requirements, focusing on the sustainable use of knowledge as a strategic asset.

COMPETITIVE ADVANTAGES

- Use of exclusively company-owned documentation
- AI-powered analysis without data leaving the company's systems
- Architecture with a clear focus on GDPR compliance
- Transformation of documents into a reliable basis for decisions and operational execution
- Reduction of dependency on individual knowledge holders or external consultants

IDEAL BUSINESS PARTNERS

- Companies or investors who have access to the Asian market, particularly Singapore and Southeast Asia, and can help the startup gain customers as well as additional partners.
- Partners who are open to new technologies, promote agile collaboration, and actively support innovation projects.
- Investors or companies that provide not only capital but also strategic advice, mentoring, and additional resources.

INNOVATION TOUR | SMART CITY | SINGAPORE

Carried out by:



In collaboration with:





SUMMARY

SecurePIM enables highly secure mobile work for government & enterprises up to “classified information-official use only”/NATO Restricted.

WWW.VIRTUAL-SOLUTION.COM



MADE IN
Germany

COMPANY PROFILE

Materna Virtual Solution, part of the Materna Group, is a leading software provider for mobile security, with offices in Munich, Berlin, and Dortmund. The company develops secure solutions for ultra-mobile work, most notably the container app SecurePIM, which enables communication at VS-NfD and NATO-RESTRICTED levels.

In its own indigo Competence Center, the company also develops authority-specific applications, custom projects, and mobile specialized procedures based on VS-NfD standards. In addition to product development, Materna Virtual Solution offers comprehensive consulting services along the entire value chain—independent of platform or operating system.

Founded in 1996, the company employs around 100 people, and all products carry the TeleTrusT trust mark “IT-Security made in Germany.”

PRODUCTS / SERVICES

Materna Virtual Solution provides highly secure solutions for mobile work in government and enterprise environments. Its core product, SecurePIM, is a container app for iOS and Android that combines email, messaging, calls, calendar, documents, browser, and camera in an encrypted environment, certified by the BSI for VS-NfD and NATO RESTRICTED. The company also leverages the indigo ecosystem (“iOS Native Devices in Government Operation”) and offers the SecurePIM WorkSPACE, an iPad office suite integrating features like TrustDok, TrustOwl, and TrustCam. Materna operates an indigo Competence Center to support authorities with development, integration, rollout, and management. All solutions are “IT-Security made in Germany,” meet the highest security standards, and ensure GDPR-compliant handling of sensitive data.

REFERENCES AND EXPORT ACTIVITIES

SecurePIM is trusted by governments, public authorities and enterprises in several countries worldwide and has a international footprint with successful deployments and long-term partnerships across Europe and beyond.

The company is actively engaged in international projects and export activities, supporting customers with high security requirements in the public and private sectors.

TARGET GROUP

Public sector, security and defense organizations, critical infrastructure, medium-sized and large companies, and organizations with increased data protection requirements.

COMPETITIVE ADVANTAGES

- Certified by the German Federal Office for Information Security for high security mobile communication up to classified information-official use only” and NATO Restricted
- End-to-end encryption for email, messaging and data
- Trusted by governments and enterprises in security-critical environments
- Secure mobile productivity without compromising usability
- Full data sovereignty and control across deployment models

IDEAL BUSINESS PARTNERS

IT system houses & integrators, cybersecurity and compliance consultancies, MDM/UEM & platform partners, IT distributors.

INNOVATION TOUR | SMART CITY | SINGAPORE

Carried out by:



In collaboration with:





PLANCES

Connecting Plants & Places



SUMMARY

Plances offers off-grid smart irrigation for urban greenery, using environmental simulation for predictive control and reduced maintenance.



MADE IN
Germany

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COMPANY PROFILE

Plances develops off-grid smart irrigation for urban greenery. Our control unit and software use environmental simulation and weather data to predict plant and substrate water demand, avoiding complex sensor setups. The system automates watering, enables remote monitoring, and supports operators and OEM partners in deploying low-maintenance green infrastructure such as planters, parklets and rooftops.

REFERENCES AND EXPORT ACTIVITIES

B2B deployments in the parklet and modular urban greenery segment. Collaboration with Fraunhofer to advance the simulation-based irrigation core. Focus on scaling via OEM partners in Germany/EU, with international rollouts planned through distributors and integrators.

TARGET GROUP

OEMs and providers of urban furniture, modular planters, rooftops/façade greening; landscape operators managing distributed assets; municipalities and smart city programs; hospitality and commercial real estate with large green areas.

PRODUCTS / SERVICES

- Hardware: a weatherproof, solar-powered irrigation control unit with LTE connectivity, pump control and water-level monitoring for modular integration into planters and urban furniture.
- Software: predictive irrigation schedules, alerts and fleet dashboards to cut service visits and prevent plant loss.
- Services: partner onboarding, configuration for different planter systems, APIs/integrations and pilot support.

COMPETITIVE ADVANTAGES

Sensorless, simulation-based control reduces hardware complexity and failures. Off-grid (solar + remote connectivity) enables installations without power/water infrastructure. Predictive automation lowers maintenance costs, improves plant survival and provides fleet-level transparency for operators and OEMs.

IDEAL BUSINESS PARTNERS

Urban furniture/planter OEMs, rooftop & façade greening specialists, landscape operators, smart city stakeholders and local integrators/distributors. We seek pilot sites in dense urban areas and partners for extreme-climate irrigation know-how and data/platform integrations.

INNOVATION TOUR | SMART CITY | SINGAPORE

Carried out by:



In collaboration with:





SUMMARY

Schunk Transit Systems is a world's leading supplier of reliable power transmission technologies – from railways to efficient charging of EVs.



WWW.SCHUNK-GROUP.COM



MADE IN
Germany



Schunk Transit Systems

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COMPANY PROFILE

Schunk Transit Systems is one of the world's leading suppliers of reliable power transmission technologies – from rail transport to the efficient charging of electric buses. Our products and system solutions set new standards internationally and push the boundaries of what is feasible again and again – benefit from our decades of experience and use our know-how as a development partner.

TARGET GROUP

Rail Products: Railway Pantographs for all speed ranges, 3rd rail current collector solutions, grounding contacts, CFG (Carbon Fiber Grounding) systems against vagrant interference currents.

Road Products: Charging Pantographs for eBuses, charging Pantographs for electric commercial vehicles.

PRODUCTS / SERVICES

- On the rails: As a development partner for railway technology, Schunk has been setting technological milestones since the electrification of rail transport. We supply custom products and systems for safe, efficient power transmission worldwide. As a manufacturer of pantographs, 3rd rail solutions, or grounding contacts, we offer comprehensive solutions: technical concepts, accessories, and customer service for maintenance, repair, and catenary measurements.
- On the road: With the Schunk Smart Charging system, we bring economical e-mobility to the road. Our charging devices for e-buses ensure reliable battery charging on the route or in the depot within seconds and handsfree. The short charging times and long range improve efficiency, performance, and flexibility. The system is adaptable and can be integrated with new or existing infrastructure.

COMPETITIVE ADVANTAGES

As a global development partner for railway technology and e-mobility, Schunk Transit Systems delivers customer-specific products and system solutions for safe and efficient power transmission. With long-standing expertise, Schunk combines robustness, functional reliability and cost efficiency across its portfolio. The company offers a complete rail technology range from a single source, including pantographs for all speed ranges, 3rd rail systems, grounding contacts and CFG systems for stray current protection, supported by comprehensive services such as maintenance, repair and catenary measurement. In road transport, Schunk Smart Charging enables fully automatic, conductive fast charging for electric buses and commercial vehicles, both on-route and in depots. Extremely short charging times, long vehicle range and high system flexibility allow seamless integration into new or existing infrastructures, improving efficiency, performance and operational reliability worldwide.

REFERENCES AND EXPORT ACTIVITIES

We have references worldwide in rail systems, as for instance pantographs, 3rd Rail Current Devices and Grounding Systems in major countries in Europe, North and South America, as well in Asia-Pacific. On road and e-mobility we are market leader in the handsfree and automatic charging of more than 10000 systems placed in major cities in Europe and North America. Our customers are mass transit operators as well as Vehicle OEMs.

IDEAL BUSINESS PARTNERS

Schunk partners with rolling stock and bus OEMs, rail operators and vehicle maintainers, as well as mass transit operators of e-buses and commercial EVs. Public authorities, transport planners, consultants and research institutes are key partners. Ports, harbor logistics operators and related OEMs adopting electric vehicles are emerging partners.

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Project executor

SBS systems for business solutions



SBS systems for business solutions is a 1999 established private consulting agency, with two decades of experience in the planning, development and implementation of international projects. Moreover, the company offers services such as workshops, events and individually organized B2B-meetings, as well as individual strategies for market entries and assistance for the coordination of international teams for the German-speaking and Italian market.

Since 2006, SBS has been organizing hundreds of internationalization projects from delegation trips abroad to big virtual conferences on behalf of several German ministries and other foreign governmental institutions. In addition, SBS has been honored by the Italian Ministry of Economic Development with the title of “Temporary Export Manager”. A highly-skilled team of project managers with multinational backgrounds, based in Berlin and Rome, is sensitized for the topic of cultural differences and therefore knows how to approach difficult cultural issues. In fact, SBS applies cross-cultural thinking and designs custom-made solutions that overcome intercultural borders to find the right partners for their clients. Thanks to a strong partner network and more than 600 German and international clients, SBS is able to facilitate a successful market entry in the most emerging and attractive markets worldwide.

Singaporean partner

Singaporean-German Chamber of Industry and Commerce



The Singaporean-German Chamber of Industry and Commerce (SGC), is a non-profit organisation that fosters bilateral trade and investment between Germany and Singapore. Established in 2004, it serves as a central hub for over 500 members from diverse industries in both countries. As part of the global network of German Chambers of Commerce Abroad (AHKs), SGC provides comprehensive services to support businesses in expanding their operations and partnerships in Southeast Asia. SGC plays a vital role in strengthening economic ties between Germany and Singapore, acting as a bridge for companies seeking to enter or expand in the ASEAN market. Its strategic location in Singapore, a leading business hub in Asia, offers German companies a gateway to regional opportunities. The chamber also collaborates with various stakeholders, including government agencies and industry associations, to promote sustainable economic growth and innovation.

In collaboration with



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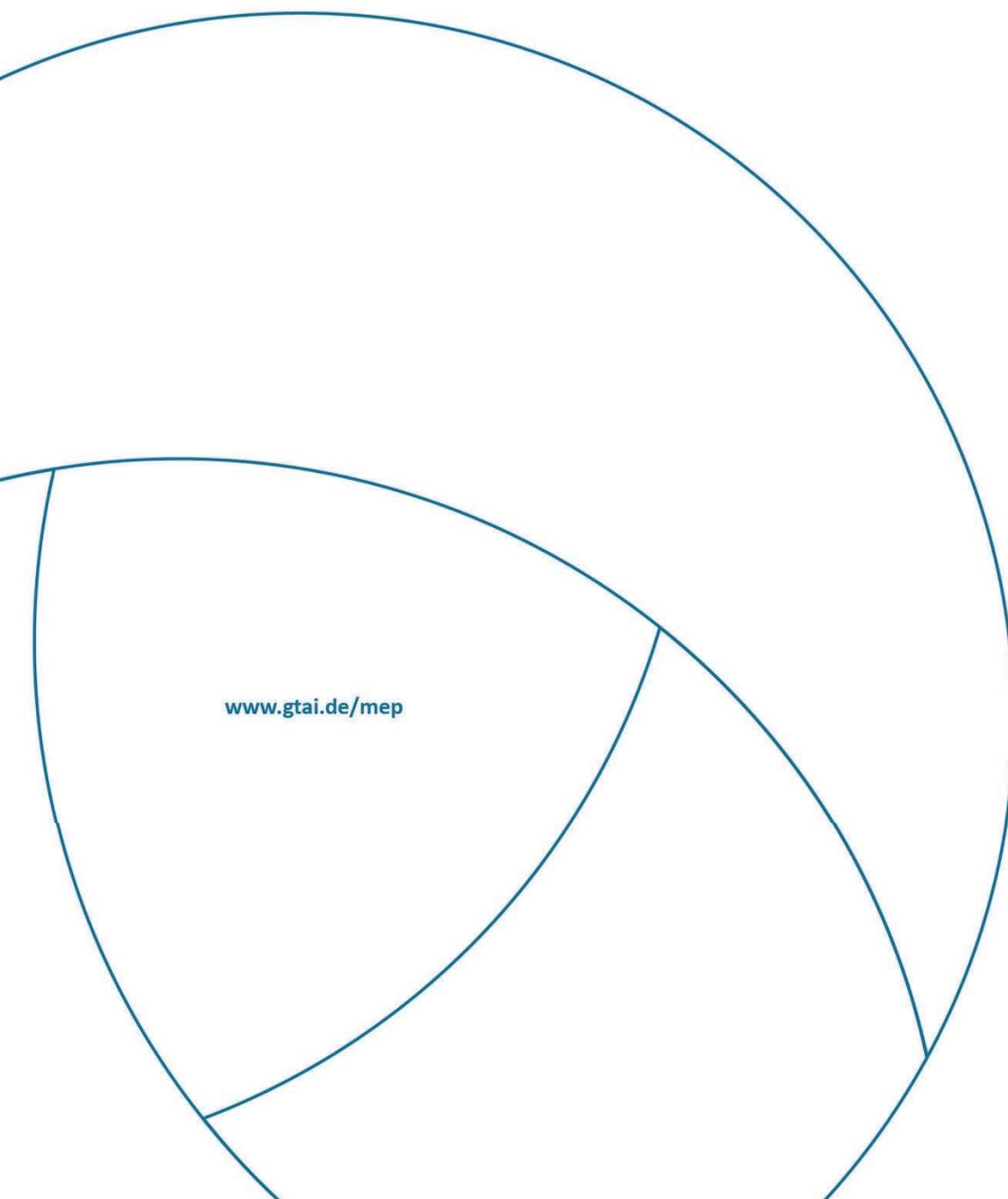
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Business success through cross-culture thinking



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