DATA SPACES_NOW!
INDUSTRIAL DATA SPACE ASSOCIATION MAGAZINE

INDUSTRIAL DATA SPACE HAS ENTERED SECOND ROUND

PWC STUDY: COMPANIES SEE GREAT POTENTIAL IN INDUSTRIAL DATA SPACE

FEEDBACK FROM ALL OVER THE WORLD ON INDUSTRIAL DATA SPACE

POINT OF VIEW: MASS RAW DATA AVAILABLE ALWAYS AND INSTANTLY - (NOT) A PROBLEM?!
Dear Reader,

since its beginnings, the Industrial Data Space Association has grown continuously – and with that the idea of secure and particularly self-determined, sovereign data exchange beyond company and country borders. In the meantime, 78 companies are involved in our user association and our work together over the last few years is definitely paying off: the reference architecture and a common standard are taking shape, course is being set for certification and Industrial Data Space is being applied in practical, relevant use cases in renowned companies. Member companies regularly present the idea and progress of Industrial Data Space at congresses and fairs and cooperation with similar initiatives in other countries is increasing and constantly creating new opportunities and perspectives.

On a regular basis we report about these developments in our newsletter. However, a lot is being reported about us and our research project as well. Many new articles and interviews are turning up and we would like to share them with you – in our new IDSA magazine. Every three months you will find the most important news about Industrial Data Space summarised in "DATA SPACES_NOW!" – clear, informative and well-worth reading.

This is the first edition. It gives you an insight into developments over the last few months and a forecast of the future objectives and projects and lets you know about Industrial Data Space Association events and activities. I hope you enjoy looking through this informative magazine.

Best regards
Lars Nagel
Managing Director
Industrial Data Space Association

Anke Nienhoff is the new member in the team of the Industrial Data Space Association. Since the middle of August, the 37-year old economist is supporting the work of the user association as new Head of Marketing & Communication.

After her studies with focus on marketing, Anke Nienhoff worked for four years in the executive department Marketing & Product Management of TÜV NORD Systems in Hamburg. Her activities focused on setting up market research, competitive intelligence, both product and portfolio management and the development of marketing strategies.

Afterwards, Anke Nienhoff worked for three years in the Innovations Department as representative of the management board for ideas management and took care of the strategic development and both marketing and communication of ideas management.

At last, she worked as Product Manager Global Solutions at CRIFBURGEL in Hamburg and was responsible for launching the Skyminer product line, a service for worldwide company information.
Twelve Fraunhofer institutes spent the past two years working on a research project funded by the German Federal Ministry of Education and Research (BMBF) and dealing with the latest topic of data sovereignty. They recently completed the first phase of the project that defined a reference architecture model for a secure data space basing on the latest IT technologies. The first cross-sector use cases were implemented. This pre-competitive research project funded by the German Federal Ministry of Education and Research (BMBF) with five million euros is now ready to move on to the second phase.

The next project goal is to carve out a position for the Industrial Data Space in relation to and in interaction with other reference architectures like those developed by the Industrial Internet Consortium in the United States or the Japanese Industrial Value Chain Initiative – because, in today’s global supply chains, the flow of data is not restricted to a single country and companies therefore need integrated, cross-border solutions.

“Data sovereignty made in Germany is a popular concept,” comments Prof Dr Boris Otto, Director of the Industrial Data Space project, member of the Industrial Data Space Association’s board and Director of the Fraunhofer Institute for Software and Systems Engineering ISST. “We are currently in discussions with partners in many countries including Argentina, China, India, Japan, Mexico and the United States aiming at establishing the Industrial Data Space architecture on an international basis.”

To ensure interoperability with the many different digital standards used around the world, the project teams are developing technological blueprints for data sovereignty solutions. Fraunhofer researchers are working closely together with the Industrial Data Space Association to apply their results in form of use cases for partner companies.

“Internationalisation” is one of Industrial Data Space Association’s big goals for the year 2017. A global standard is to enable companies in the whole world to exchange data to a completely new extent with the highest claim on trust and safety. “In order to guarantee that, we need non-linear growth of participants in Industrial Data Space”, explains Lars Nagel, Managing Director Industrial Data Space Association. “Insofar we have to grow internationally in particular, develop new networks and ecosystems and raise the requirements of all markets with their regional features.”

In a first phase the idea of Industrial Data Space was brought to the European lead markets and more countries. At first, hubs, coordinators and multipliers were the national research organisations that then informed and inspired their respective networks: companies from the particular networks joined the association and participated in its work. “Beside the growing membership figures, repeatedly granted EU research projects, in which Industrial Data Space is participating, prove the success of these measures”, says Thorsten Hülsmann who is responsible for the internationalisation of the association.

The Industrial Data Space Association was also internationally present, i.e. in Japan, China, India, the United States and particularly at the G20 summit in Hamburg (Germany). In addition, there are cooperations with global initiatives like OPC foundation, Industrial Internet Consortium, FIWARE Foundation, Big Data Value Association and other multipliers. “These are significant part of our internationalisation strategy”, emphasises Thorsten Hülsmann. That is why the cooperation with strategic partners is supposed to be constantly intensified, for example with respect to the functional, technical mapping and the referential implementation of joint use cases. Currently, joint position papers are being developed. New alliances in particular towards Asia and America are set up and the hub strategy is implemented outside of Europe. “To do so we are planning roadshows and, in addition, global events to which in particular the organisations in the association and the strategic partners make a valuable contribution in terms of organisation and dissemination”, says Hülsmann.

You can read more about Data Space international on page 12
NEWS

PWC STUDY: COMPANIES SEE GREAT POTENTIAL IN INDUSTRIAL DATA SPACE

74 percent of all medium-sized and large companies in Germany share data with customers and business partners. Three out of four companies assume that the necessity to provide their own data will continue to increase over the years. And 57 percent are concerned about exposing business secrets. These results of the recent study “Data exchange as a significant element of digitalisation” by founding member PwC reveal the dilemma that many companies are facing: They recognise the necessity of exchanging data and at the same time are worried about losing their sovereignty over sensitive, company-internal information. Thus, the study substantiates the necessity for the Industrial Data Space initiative that is building up a unique standardised architecture with distinct legal guidelines. According to the assessment of the managers interviewed, the advantages of Industrial Data Space lie in the increase in data security, in a qualitative improvement of data exchange and optimised process and cost structures. “The results of the survey show that Industrial Data Space strikes a chord in plenty of German companies,” says PwC expert Aleksei Resetko. Indeed, the German initiative might only be the beginning: “In the medium term it is all about implementing the data space project at European level and setting European-wide standards.”

The following advantages for Germany are seen by interviewed companies:

46% Increase of data security
35% Qualitative improvement of data interchange
14% Optimisation of process and cost structures

“The results of the survey show that Industrial Data Space strikes a chord in plenty of German companies.”
Aleksei Resetko (PwC)

The study can be downloaded here

Photo: © istock
ABOUT THE ASSOCIATION

MEMBERS FROM ALL OVER THE WORLD COME TO THE 2ND GENERAL MEETING

Exactly at the place where the story of the Industrial Data Space Association began about a year ago the second general assembly took place on 20 February 2017: 42 representatives of 27 companies and organisations met at the Fraunhofer-Forum in Berlin. Participants did not only come from Germany but also from Europe and China – clear evidence for the successful development of the Industrial Data Space towards an international initiative.

The agenda of the meeting run by Dr Reinhold Achatz, Chairman of the Board, included the presentations of both the research project Industrial Data Space and the first comprehensive documentation of the reference architecture model, an overview of the working groups and also elections: As Dr Ralf Brunken (Volkswagen Group) resigned, a new member had to be appointed for the board. The general assembly elected Lars Bäumann (Director IT and Production at Volkswagen Group) to his successor. Dr Norbert Jesse (Quinscape GmbH) became treasurer.

After the official part the participants discussed the central topics of Industrial Data Space: At knowledge stations they could for example exchange views on new business models, current and future use cases, the reference architecture, international hubs or the standardisation.

QUESTIONS FOR...

ULRICH AHLE, CEO
FIWARE FOUNDATION

Why have you got involved in the Industrial Data Space Association?
Right from the beginning, I was excited about the objectives of IDSA. Many Smart Solutions are based on data which come from different sources. These can be data from the Internet of Things or from social media. IDSA focuses on managing these data and enables me as the owner of the data to determine what others can and may do with my data. This is the reason why I was one of the 18 founding members and am still active on the Board of IDSA.

What is special about Industrial Data Space and working together in the user association?
It is special because of the way it bundles the research expertise of the participating institutes like Fraunhofer or TNO in combination with the implementation expertise of the participating partners from industrial and service sectors. This pooled expertise motivates more and more companies and organisations from Germany and abroad to get involved in IDSA.

Industrial Data Space in ten years’ time: What should have been achieved together by then?
In ten years, IDSA will be the global platform for administrating and providing data for smart solutions.

WELCOME OUR NEW MEMBERS

Aalto University
CAICT
CDQ AG
Chalmers University of Technology
DB Schenker
Denodo Technologies GmbH
Deutsche Telekom AG
DXC Technology
eccenca GmbH
Fastems Systems GmbH
FIWARE Foundation
Logata Digital Services
Logenios GmbH
Microshare Inc.
nicos AG
Palbox GmbH
Politecnico di Milano
Prudys AG
Rittal GmbH & Co.KG
SAP SE
Siemens AG
T-Systems
The MTC
UNITY AG
VDMA e.V.
Industrial Data Space has now reached the next level: besides companies from Germany, more and more international companies are contributing to the Data Space.

Industrial Data Space was founded at the beginning of 2016. Renowned companies like SAP, thyssenkrupp and Bosch came together to form an association and have been working in specific projects ever since. Currently, the association has 78 members.

Industrial Data Space has now reached the next level: besides companies from Germany, more and more international companies are contributing to the Data Space. These include Huawei and Microshare Inc.

The advantages of joining an international network of renowned companies that is developing the legal and technological principles for secure data exchange are very convincing for large and small companies alike. Membership figures are currently growing beyond national borders accordingly.

This success is also reflected in the foundation of local hubs. "Industrial Data Space meets Hengelo", is the title for 8 September 2017 when Industry 4.0 and Smart Industry come together at a workshop in the Netherlands to kick off the first cooperation with Dutch companies. Parallel to that, a UK hub is being initiated at MTC (The Manufacturing Technology Centre) in England and in Spain there will be a first kick-off meeting during the IOT Solutions World Congress in Barcelona in October to inspire Spanish companies to join in the project as well.

Events and initiatives like these are important steps to continue successfully implementing Industrial Data Space.
CEBIT: INDUSTRIAL DATA SPACE PROMINENTLY POSITIONED

There were lots of little premieres for Industrial Data Space at the CEBIT IT and digital fair in March. The user association attended CEBIT with series of presentations about “Industrial Data Space – sovereign data exchange between companies” at the Technology Briefings at the Fraunhofer booth. Prof Dr Boris Otto, Head of the Research Project, focused on the value of data in a lecture, while Managing Director Lars Nagel reported on the positive growth of the association. Gerd Brost (Fraunhofer AISEC) and Niklas Petersen (Fraunhofer IAIS) gave a first insight into the Reference Architecture and presented the information model and the Trusted Connector. Member company Advaneo also gave us a first impression of the Data Broker and a presentation on data enhancement while Hans Jürgen Berndt (Audi AG) showcased the company’s use case on supply chain transparency. “With two demonstrators, the Technology Briefing and many discussions with interested visitors, Industrial Data Space was positioned very prominently at this most important IT fair”, Lars Nagel was very satisfied.

CEBIT
20 - 24 MAR 17
HANNOVER
GERMANY

INDUSTRIAL DATA SPACE
ON THE ROAD

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CEBIT
20 - 24 MAR 17
HANNOVER
GERMANY

FIWARE
29 - 31 MAY 17
UTRECHT
NETHERLANDS

FIWARE
CONVINCES AT SECOND FIWARE SUMMIT

After the successful premiere of FIWARE Summit in Malaga, the second event of the international congress took place in Utrecht from 29 to 31 May 2017. Beside a 24-hour hackathon and workshops, there were numerous lectures about IoT, open data and international cooperation on the agenda. Industrial Data Space was also an issue.

Hubert Tardieu (CEO Advisor Atos) explained the significance of the Industrial Data Space architecture for the data exchange at multi-sided market places and emphasised the solution of Multi-Homing-Issues of the IoT platforms. Willem Jonker (CEO EIT Digital) presented the joint European MIDIH project in which EIT Digital, FIWARE and the Industrial Data Space Association also work together.

INDUSTRIAL DATA SPACE
AT FUTURE CONGRESS LOGISTICS

When the “Future Congress Logistics” had sent out its invitations to the “Dortmund Talks” for the 35th time this year, the Industrial Data Space Association was also on board. 12 and 13 September were all about the future-oriented key topic of “Social Networked Industry – Men and Machines as Partners of Logistics 4.0.” In the “Social Networked Industry” men and machines will work together, share information and communicate with each other. The role sovereign and safe data exchange between companies is to play worldwide and how it will work in practice was presented by the Industrial Data Space user association both at their own booth in the exhibition that accompanies the congress and with a programme contribution on the second day of the event.

FUTURE CONGRESS LOGISTICS
12 - 13 SEP 17
DORTMUND
GERMANY

Photo: Future Congress Logistics © IDSA

Lars Nagel was at the podium for the user association itself and explained the current status of the cooperation between FIWARE and the Industrial Data Space Association: “In the area of smart cities but also in the area of smart industry and agrifood FIWARE is represented worldwide and is widespread. After basically and positively matching the architecture blueprints we are looking forward to implementing the first open source of the Industrial Data Space architecture by FIWARE.” At the end of the congress the Managing Director of Industrial Data Space Association draws a positive conclusion: “Industrial Data Space as blueprint for the architecture of the data was well accepted by the more than 300 visitors and demonstrated countless points of reference.”
“Pushing through” significant use cases, the official publication of the reference architecture model and the introduction of a PwC study about the relevance of Industrial Data Space for companies: At its press conference at the Hannover Messe the Industrial Data Space Association was pleased to announce great successes. At the Salzgitter AG booth, an association member from the very beginning, there were about 40 media representatives and interested visitors on 27 April 2017 who followed the media event moderated by Lars Nagel, Managing Director of Industrial Data Space Association. “With the consistent internationalisation of Industrial Data Space and as renowned and dedicated companies continue to join up, we have reached the next step on the way to achieving an internationally valid standard”, Nagel explained the current development of the initiative and the research project. To which extent this standard can and could be successfully integrated in company practice was demonstrated by the member companies themselves: Mona Wappler from thyssenkrupp AG, Heike Niederau-Buck (Board Member of IDSA, CIO Salzgitter AG) and Dr Robert Bauer (Chairman of the Executive Board of SICK AG and Board Member of Industrial Data Space Association) presented their companies’ use cases to the media. The basis for achieving standardised integration for Industrial Data Space in practice is the reference architecture model which was presented for the first time at the Hannover Messe and was elucidated at the press conference by Prof Dr Boris Otto, Manager of the Industrial Data Space research project and Managing Director at the Fraunhofer Institute for Software and Systems Engineering ISST. Markus Vehlow, expert for cloud computing at PwC, then emphasised how important a virtual data space is for sovereign, legally secure and standardised data exchange. He presented the study “Data exchange as a significant element of digitalisation” and the relevance of Industrial Data Space. “About 210 companies took part in the survey. That helped us to identify exciting developments and deduce revealing results”, said Vehlow. It showed that companies expect extensive advantages from sharing their data: 75 per cent of the companies that already engage in “data sharing” expect to improve their customer relationships in this way.

The Industrial Data Space Association itself was a sub-exhibitor at the Fraunhofer-Gesellschaft booth where Prof Dr Boris Otto, Manager of the research project and Managing Director of Fraunhofer ISST, welcomed the Federal Minister for Education and Research, Johanna Wanka, Günther Oettinger (EU Commissioner for Budget and Human Resources), Roberto Viola (Director-General of the Directorate-General for Communications Networks, Content and Technology – DG CONNECT – of the European Commission) and the President of Fraunhofer-Gesellschaft, Prof Dr Reimund Neugebauer.
At its board meeting in June, the IDSA Board took positive stock of the Hannover Messe. Successful talks, a large range of lectures and presentations and first cooperations with strategic initiatives were on the agenda. “We were able to successfully present Industrial Data Space and the aims of our user association and IDSA members’ projects to an interested expert audience”, says Lars Nagel, Managing Director of Head Office. “Next year the Hannover Messe will certainly be a good place for us to showcase the idea of Industrial Data Space and the successes we have achieved once again.”
The first stage of the development of the Trusted Connector was published and can now be tested by member companies. “This version clearly demonstrates what is important for the implementation of the Trusted Connector”, explains Gerd Brost of Fraunhofer AISEC, who is responsible for the security architecture in the Industrial Data Space research project. The first release offers a preview uncoupled from the security platform (trust|me). This is based on Docker and therefore does not require new dependencies. In addition to the insight into the administration overview you also get the possibility to test and assess the technology and to transfer use cases to the Trusted Connector. The first version also offers a significant feature for testing the security of any two connectors that are to be connected up with each other. “These first check which software is used in each case. Only, if these are trustworthy, is the connection permitted”, says Brost. But this is just the beginning, the Trusted Connector will be continuously developed. “There will be new releases coming all the time”, says Brost.

Time management is extremely significant in the logistics sector. Arrival, loading and departure times are all synchronised precisely – and are repeatedly impacted by last minute changes. If a truck’s expected arrival time changes – for example due to a major road closure – the shipper, and in turn the customer, must be informed quickly so that they can change all the subsequent work processes.

The aim of the Reference Use Case Logistics is to implement and provide this information flow quickly, efficiently and reliably for all the stakeholders in the supply chain. The work on this standard, which takes place in the context of the Industrial Data Space research project, reached another important milestone. After successfully implementing Sprint 1 and Sprint 2, the third Sprint was completed in the first months of 2017.

Meanwhile Sprint 6 helped to close another stage in the development process of the reference use case logistics. “Within this context we integrated the IDS information model into our software for the first time”, explained Ralf Nagel, Head of the AP2 software development.

Use cases pave the way to put the Industrial Data Space research project into practice. In order to help the company to set up their use cases, the relevant working group presented a starter package, which includes a standardised process, at the meeting at Fraunhofer IML at the beginning of March. The Representatives from REWE, Salzgitter, DXC Technology and thyssenkrupp also presented the latest status of their use cases in short 10-minute pitches and answered questions afterwards. This exchange will be continued at subsequent meetings. A use case map will give an overview of all the use cases which are already up and running.

When the Certification working group met for its meeting at PwC in Berlin on 14th June there were two new members among the participants: TÜV Süd and T-Systems are now part of the working group that aims at achieving certification for the Industrial Data Space's services. The first participant certification is expected to be possible as from the end of the year. Until then, the members are planning to use examples for testing the certification. Use Cases from thyssenkrupp and Salzgitter AG will be used. The certification team has already achieved an initial victory: the strategy paper for the certification is ready and has been published.

It can be viewed here
When the “Digital Industrial Platforms” working group in Digitizing European Industry (DEI), an initiative of the European Commission, met in Brussels at the beginning of May 2017, Industrial Data Space was positioned as an innovative and sustainable solution for data platforms at EU level. In his lecture “Industrial Data Space: Digital Industrial Platform across value chains in all sectors of the economy” Prof Dr Jan Jürjens, Director Research Projects at Fraunhofer ISST, presented the development of the international network for secure and sovereign data exchange as a solution for the challenges companies are inevitably faced with in the course of digitalization. Currently, sensitive company data must be integrated in already existing ecosystems – for example between car manufacturer, supplier and service provider – and shared amongst themselves.

Exchange between the Industrial Data Space Association and Finnish companies is increasing. Significant proof of this was the Finnish Industrial Internet Forum. The member company vtt invited Managing Director Lars Nagel to give a presentation about the concept of Industrial Data Space and the possibilities of co-designing in the association. More than 50 companies and the Finnish-German Chamber of Foreign Trade, central ministries, universities and research institutions like Aalto University, Tampere University and Nokia Bell Labs were present. This shared exchange showed that in particular in the area of manufacturing, OPC UA and Industry 4.0, there are strong competencies and possibilities for sensible synergy effects. In particular, special endeavours to develop Platform 4.0 and the RAMI model are carefully observed in Finland and seen as benchmark. The question of Finland becoming a possible international Industrial Data Space Hub under the management of vtt was also addressed in a discussion. The objective is to start research projects in Finland and to use the Industrial Data Space technology. “Finland is a very technology-intensive and highly interesting market. Many companies can make a valuable contribution to the professional development and application of Industrial Data Space”, Lars Nagel is convinced. “We are looking forward to welcoming the next Finnish members.”
Digitalisation is changing the working world. Industry 4.0 is on everybody’s lips and many people see the fully-digitised company as the future. Yet, when dealing with the challenges and chances of the fourth industrial revolution, “politics and society have hyped themselves up with a lot of terms from Industry 4.0.” Ulrich Grauvogel is convinced: “Industry and society are well on the way towards a digitised future, but are using a lot of different means to push this.”

Question: What do you think reality is going to be like compared with the vision?
Ulrich Grauvogel: Many companies that have tried, beyond expensively produced prototypes and case studies, to scale solutions have come down to earth with a bump. After all, there is a big difference between a team of developers virtualising a single pump or an assembly line. And now some corporations are beginning to produce, integrated into business processes and being utilized. Mass raw data, too, is expected to be constantly available for companies. To what extent is that feasible?

Question: As an IDSA member, where do you see interfaces and the advantages of Industrial Data Space?
Ulrich Grauvogel: The IDSA has understood, in an exemplary manner, how to virtually connect renowned stakeholders and their respective best-in-class competencies to become effective IIOT value chains. We have noticed a real difference in comparison to other such bodies. There is a desire to quickly implement real use cases, to think them through to the end and to transfer them rapidly into usable and truly scalable architectures. Practical relevance and experience do not guarantee success on their own, but they are necessary prerequisites. Aside from the many theoretical approaches concerning the Industrial Internet of Things (IIOT), success will come to those who are fast enough to set smart de facto standards to provide real benefits in practice.

Question: What flood of data is continuously increasing. More and more data are being produced, integrated into business processes and being utilized. Mass raw data, too, is expected to be constantly available for companies. To what extent is that feasible?
Ulrich Grauvogel: The all-digitised company is being discussed all the time nowadays and being promoted as a vision for the future. But animated pictures of machines on tablet computers with status indicators or carrying out repairs using cyber gloves, which lots of service technicians might well be dreaming of, are not as easy to realise as some system companies’ advertising suggests. Politics and society “have hyped themselves up” with a lot of Industry 4.0 terminology in the past few months.

Question: Where exactly are the difficulties with respect to implementation?
Ulrich Grauvogel: If we continue with this example, access time grows exponentially according to the amount of instances that are involved in a request and which are dynamically connected to each other. If, on top of all that, measurement technology is used to try to keep the size of single samples small, in order to save data volume by using all kinds of allocation tables and dynamic routing, then it gets really interesting. Then, only radical computer technology and, hopefully, a stable network can help. But that can only be illustrated economically up to a certain total amount of data.

Question: What could a realistic approach and successful implementation actually look like then?
Ulrich Grauvogel: Have you ever asked yourself how it is possible for you to get semantically reasonable suggestions which supplement your entry within split seconds when you are entering a search term in the internet? We can learn a lot from this with regard to the mass data in production facilities: the Internet is growing daily, as is the amount of produced data during. New SaaS products are being developed in the Internet all the time, and new processes are being developed in our factories, new facilities are being installed and new products are being launched as well. Analogies are more distinctive and solutions more obvious than many a technocrat may think.

Full indexation, fully semantic and professional message brokering are some of the key terms behind the architecture we developed for this purpose. This can control cumulated data amounts at petabyte level. If you play by a few of the rules when homogenising the participating data suppliers, and, first of all, do without reformating the raw data, they can survive both permanently and resiliently and can also be accessed via standardised web-enabled interfaces.

Question: How is this architecture accepted and implemented in practice?
Ulrich Grauvogel: So far, we have installed this architecture successfully more than 50 times in the DACH region (Germany, Austria and Switzerland). And now some corporations are beginning to include it as a universal tool in their ecosystems. The possibility of getting a spontaneous synopsis of all their raw data gives companies a strategic and economic benefit. And on top of that, employees feel motivated rather than frustrated if they can analyse their processes themselves without having to cope somewhere between their internal IT, proprietary machine controls and system company consultants.

Question: What do you think reality is going to be like compared with the vision?
Ulrich Grauvogel: Many companies have discovered that Industry 4.0 is on everybody’s lips and many people see the fully-digitised company as the future, but are using a lot of different means to push this. We can learn a lot from this with regard to the mass data in production facilities: the Internet is growing daily, as is the amount of produced data during. New SaaS products are being developed in the Internet all the time, and new processes are being developed in our factories, new facilities are being installed and new products are being launched as well. Analogies are more distinctive and solutions more obvious than many a technocrat may think.

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Value creation in the production industry today is characterised by capital-intensive production systems which are highly automated. It is in the nature of things that a large quantity of data arises during production. These data are often only used for their original purpose, controlling and regulating the production processes, and are not archived for other uses. “As long as the machines are running, nobody really looks at this data”, says Jürgen Walter, Managing Director of Datatroniq, member of the Industrial Data Space Association since the summer of 2016.

Located in Stuttgart and Berlin, the company is currently working together with Fraunhofer IOSB on the use case “Forward-looking maintenance and process-related quality assurance with IDS”. They have set themselves the task of using data to generate specific instructions. “Our aim is to improve the overall efficiency of systems by analysing and evaluating the data”, explains Walter. Longer service lives for the machines, fewer interruptions and if possible no downtime, will create competitive advantages for the company. And these improvements in system availability are possible if the large quantity of data is not only generated but is made usable.

Jürgen Walter has found that many companies do understand this new way of dealing with data in production processes. But “it is still often difficult to put this into practice.”

Sometimes the doubts about whether the promised benefits will really emerge are too great. “This is why many companies are waiting to see what happens next”, says the Managing Director of Datatroniq. Many of the machines which are running right now are not completely set up to operate in a digitalised process chain. “Even new machines which have only been in operation for a year or so, may have been put out to tender up to four years ago and digitalisation was seldom part of the specification in those days”, says Walter.

Many companies can’t and don’t want to make the additional effort. This is where external service providers like Datatroniq and the idea of Industrial Data Space come in. “If companies issue large quantities of data they want to be absolutely certain that they are used for specific purposes”, says Walter. Who will get my data? What will they be used for? And for what period of time? And what access rights will they have? All of these questions are answered and regulated by Industrial Data Space. “Setting up and developing an Industrial Data Space is clearly the right step to take”, Walter is convinced. Also where another aspect is concerned: namely when companies collect their data and want to make them accessible to customers in order to improve the performance of their systems and thus to document the quality of their products and the stability of their processes. “That creates a huge competitive advantage”, Walter tells us. “And the Industrial Data Space provides the security we need for this data exchange.”

Photo: Jürgen Walter © Datatroniq

The Industrial Data Space Association website now provides even more information and services for its members, media representatives and all other interested parties. Besides an individual blog, the new range of information includes a function for downloading publications connected with Industrial Data Space: brochures, whitepapers, strategy papers or membership fees and statutes – all the relevant publications are gathered together here and are just a click away. The documentation for the reference architecture and the latest PwC study “Data exchange as a significant element of digitalisation” can also be found here.

Find out more about us and our new services here
**IDSA INTERACTIVE**

**MEDIA COVERAGE**

### Industrial Data Space: “Sicherer Datenraum” soll internationaler Standard werden

Industrial Data Space: “Safe data space” is to become international standard

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### Implementing Industrie 4.0 on an international scale

Implementing Industry 4.0 on an international scale [http://bit.ly/2wd825x](http://bit.ly/2wd825x) #IoT #IIoT #Industry40 #IndustrialDataSpace

Robert van der Veer - @RotDesperados - 30 July

**Read more here**

Industrial Data Space @ids_association deep dive with a senior delegation from Huawei in Shenzhen! Thanks, guys, for the productive meeting!

Boris Otto - @BorisOtto - 14 July 17

**Read more here**

@ids_association joining forces with the @FIWARE Foundation at #FIWARESummit #Community

Harald Sundmaeker - @HSundmaeker - 30 May 17

**Read more here**

SalzgitterAG engagiert sich bei #IndustrialDataSpace und baut eigenen Use Case

www.industrialdataspace.org @Industrie2025 ist auch Mitglied

@SalzgitterAG gets involved in #IndustrialDataSpace and sets up own use case

www.industrialdataspace.org. org @Industrie2025 is also member

Industrie 2025 - @Industrie2025 - 26 Apr 17

**Read more here**

@Telekom tritt #IndustrialDataSpace bei und bringt Expertise für die #Sicherheit im Datenaustausch ein.


#Telekom joins #IndustrialDataSpace and contributes expertise for the #safety in data exchange.

Deutsche Telekom AG - @deutschetelekom - 24 Apr 17

**Read more here**

@SalzgitterAG gets involved in #IndustrialDataSpace and sets up own use case

www.industrialdataspace.org @Industrie2025 is also member

Industrie 2025 - @Industrie2025 - 26 Apr 17

**Read more here**

A lot of new stuff to read about #industrialdataspace. Get your copy at #HM17 Hall 2, Stand C22

IndustrialDataSpace - @ids_association - 23 Apr 17

**Read more here**

**DESIGN PRODUCTS AND APPLICATIONS REPORT**

27 JULY 17

**FRANKFURTER ALLGEMEINE ZEITUNG INTERVIEW**

PROF REIMUND NEUGEBAUER 13 JULY 16

**COMPUTER-WOCHE INTERVIEW**

STEFAN WROBEL 31 MAR 16

### “Wir können dem Silicon Valley Paroli bieten”

“We can stand up to Silicon Valley”

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### Big Data und Analytics brauchen Daten-Ökosysteme

Big data and analytics need data ecosystems

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The IoT Solutions World Congress in Barcelona is one of the leading international events connecting the Internet of Things with industry. The trade fair takes place from 3 to 5 October and, with 172 exhibitors and more than 8,000 participants from 70 countries, it already has twice as many registrations as last year.

The event is designed to drive ahead new technologies in the fields of production, innovation and technology, healthcare, energy and utility industries, construction and structural measures and the networking of means of transport. The Industrial Data Space Association will be there with a 30 m² booth – together with some member companies – and will be presenting the idea and objectives of Industrial Data Space and showcasing the milestones that have already been achieved.

"New thinking - digital living" is the motto of this year’s German Logistics Congress taking place in the InterContinental Hotel in Berlin from 25 to 27 October 2017. With more than 3,000 participants – the Industrial Data Space Association among them - this event is one of the most important congresses for logistics and supply chain management at a European level. This year’s focus of the German Logistics Congress lies on the practical task of how to live up to the principles of the digital economy and to implement what is technically possible.

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