TV-Service – Seeing is believing

BASF in motion

tvservice.basf.com

Digitalization in production

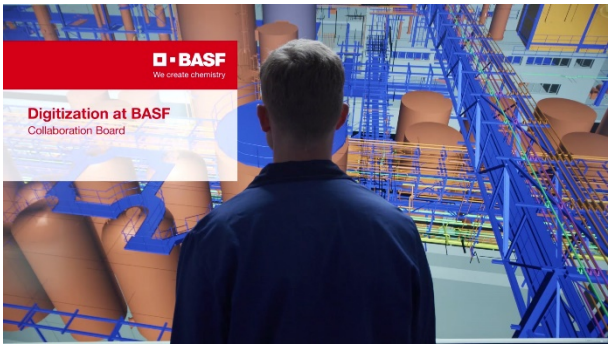
Footage material

Higher efficiency through digitally connected manufacturing processes

Digital applications including augmented and mixed reality are helping BASF to make maintenance and production processes more efficient. Interactive 3D projections of objects such as system parts and plant components provide location-independent access to key information, facilitating better decision-making and optimizing knowledge transfer.

(02) Collaboration Board

Video series
(11-29-2019 / 0‘59 / MIX / Report)



#BASFgoesDigital #Collaboration #BASFinnovation

The Collaboration Board is a tool that makes it easier for teams to work together on the basis of digital data. Whether for concrete briefings or training sessions, the "digital board" can be used in a variety of ways.

TC: 00:06:00

Speaker

Digitalization is making its way into almost every area of BASF.
For instance, one of the new tools simplifies collaboration between teams on the basis of digital data: The Collaboration Board.

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TC: 00:21:00

Felix Volkmann, Asset Manager Intermediates

It is up to the Collaboration Board user to decide what he wishes to display. In principle one can imagine the whole thing as a large digital display and, as a user, I can display my content there and link it in ways I consider most appropriate: I am individualizing my work process to make it best suit my needs.

TC: 00:42:00

Speaker

The benefit of the Collaboration Boards lies in its versatility.
It is utilized both for specific work briefings and also for training purposes.

(03) HoloLens

Video series
(11-28-2019 / 1‘18 / MIX / Report)

#BASFgoesDigital #HoloLens #BASFinnovation

HoloLens, which make planning more efficient in our plant for intermediates, reduce the error rate and save time and costs.

TC: 00:06:00

Speaker

In the intermediate product plant a true future technology is already being used in daily working practice: the HoloLens.

TC: 00:17:00

Andreas Ernst, Assistant Asset Manager Intermediates

We use the HoloLens directly at the plant, among other places. We are able to transfer projected pipework and assemblies to the HoloLens, go out into the field and then view this assembly in-situ, even though it doesn't yet exist. This allows us to determine whether everything is in order on the spot, or whether we need to make modifications at a specific point in the project.

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It's not as if you are placed in a virtual environment, as in a video game. I can see quite normally, like looking through sunglasses. It's just that the parts that I also want to see – those that I've transferred to the HoloLens – are visible at the same time.

TC: 00:59:00

Speaker

The HoloLens makes planning more efficient and reduces the failure rate, thereby achieving time and cost savings. This is one example that highlights the potential of digitalized processes at BASF.

(04) 5G Network

Video series

(11-27-2019 / 1‘27 / MIX / Report)

#BASFgoesDigital #5G #BASFinnovation

Whether for autonomous vehicles, HoloLens or the Collaboration Board - a fast 5G data connection is key to the industrial production of the future. In the video Martin Schwibach reveals more about the 5th generation of broadband technology.

TC: 00:06:00

Speaker

Digitalization is in full swing. This is evidenced by various examples at BASF: Autonomous vehicles transport products on the plant premises. The HoloLens helps plan construction works more efficiently and the Collaboration Board supports whole teams in their day-to-day work.
But these examples highlight a bottleneck common to all of the digitalization projects: A fast 5G data connection that is capable of transmitting large volumes of information simultaneously is the key to future industrial production.

TC: 00:45:00

Martin Schwibach, Director Connectivity

5G stands for the fifth generation of mobile broadband technology. 5G will be a hundred times faster than 4G and offer a transmission rate of up to 20 gigabits per second. This will also facilitate the use of real-time digitalized applications in the industrial sector.
At large-scale production sites such as Ludwigshafen, BASF must be capable of operating its own 5G networks. It is therefore essential that we have our own networks under our own control,

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independently of the large mobile network operators. Because this is the only way we can ensure the confidentiality, availability and integrity of our data.

(05) Automated Guided Vehicles (AGV)

Video series
(11-26-2019 / 1‘03 / MIX / Report)

#BASFgoesDigital #AGV #BASFinnovation

Automated Guided Vehicles (AGV) will replace a large number of the rail tank wagons currently used in internal plant traffic. The advantage: up to 4 days transport time can be saved compared to transport with tank wagons.

TC: 00:06:00
Speaker
One application of modern digital technology at BASF is the use of automated guided vehicles – or AGVs for short. As part of the internal plant traffic, the AGVs will in future replace many of the current railway tank cars. In conjunction with the BASF Class tank containers that were newly developed by BASF, together with the new container storage facility, these autonomous vehicles form part of an integrated warehousing and transportation concept that is delivering significant logistics cost savings at the site. An excellent result, considering the volume of goods transported here in Ludwigshafen amounts to some 20 million tons per annum.
Furthermore, using AGVs means that transportation time savings of up to four days can be realized for a shipment – in comparison with transportation in rail tankers.

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