

# PRESS RELEASE

**Digitaltag 2020**

## Keeping track in hospitals with digital tools

(Rostock) In this exceptional situation caused by the Corona pandemic, medical and nursing staff in hospitals are facing the challenge of keeping track of rapidly changing events throughout the ward and making the right decisions. With the large and widespread number of admissions combined with a decreasing number of staff in diagnostics, treatment, and care, it has become difficult to maintain the optimal level of care. Accordingly, treatment times need to be spread out as evenly as possible according to severity, progression, and the current status of patients in relation to the overall picture. This demands keeping close track of as much as possible.

As part of the BDI Web-Summit for the Digital Day 2020 on the topic "COVID-19: Ejection seat into the digital future?" Fraunhofer IGD presents a compact information center for use in hospitals or nursing facilities. Health@Hand is a visual control center for visualizing health and administrative data on a virtual representation of an actual ward or hospital and clearly displaying all relevant data for staff. This allows necessary information to be comprehended considerably more quickly. Health@Hand can interact with all facility data thanks to its HL7/FHIR standard while also meeting all strict security standards for this kind of sensitive information. Whether on a PC or tablet, doctors and nurses can look at a virtual twin of the ward and know immediately where, e.g., a mobile respirator currently is and have access to all digitally available data on a patient, including live vital signs.

At its current stage of development, a series of functions is being added to help in times of heavy workloads. Users will also be able to monitor areas outside the building, such as a temporary treatment area. Additionally, a traffic light system for a patient's infection status as well as an overview of staff on hand are being incorporated, allowing Health@Hand to be used in emergency and crisis situations as the central control station to aid in decision-making and analyze data. Here, all information needed to assess the situation and make a decision come together in one spot, allowing

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**PRESS RELEASE**Date || Page 1 | 4

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**Fraunhofer IGD on  
the Digital Day**  
19 June 2020**BDI Web-Summit**  
[bdi.eu/digitaltag](https://bdi.eu/digitaltag)**12.30 p.m.:** Online  
demo and video chat  
on Health@Hand

# PRESS RELEASE

critical situations to be resolved sooner and tasks to be completed more smoothly. The time saved can be spent on the treatment of patients.

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**PRESS RELEASE**Date || Page 2 | 4

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**June 19, 2020: Fraunhofer IGD at the Digital Day 2020**

BDI Web-Summit on the Digital Day "COVID-19: Ejection seat into the digital future?"

**12.30 and 13.00:** Online demonstration Health@Hand and Videochat with our experts

Registration at: <https://bdi.expo-ip.com> (German only)

**More about the BDI Web-Summit on Digital Day 2020:**

<https://bdi.eu/digitaltag> (German only)

**More on Health@Hand, Fraunhofer IGD's visual control center:**

<https://www.igd.fraunhofer.de/en/projects/healthhand>

**More about Fraunhofer IGD's developments relating to COVID-19:**

<https://www.igd.fraunhofer.de/en/press/news/covid-19-rd-fraunhofer-igd>

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FRAUNHOFER INSTITUTE FOR COMPUTER GRAPHICS RESEARCH IGD

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Image: Keeping track in hospitals: all health and administrative data at a glance in Health@Hand by Fraunhofer IGD (© Fraunhofer IGD).

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**PRESS RELEASE**

Date || Page 3 | 4  
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## About Fraunhofer IGD

The Fraunhofer Institute for Computer Graphics Research IGD was founded in 1987. It is the internationally leading organisation for applied research in visual computing. We convert information into graphics and graphics into information. We focus on human-machine interaction, virtual and augmented reality, artificial intelligence, interactive simulation, modelling, 3D printing and 3D acquisition. Approximately 220 researchers at the five sites in Darmstadt, Rostock, Kiel, Graz and Singapore are developing new technological solutions and prototypes for industry 4.0, digital healthcare and the "Smart City Experience". With our annual research volume of EUR 21 million, we offer applied research to support the strategic development of the industry and economy.

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**PRESS RELEASE**Date || Page 4 | 4

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