

## Hospitals / Forensic Institutions

### ARTIFICIAL INTELLIGENCE FOR THE OPTIMIZATION OF HYGIENE PROCEDURES IN HOSPITALS AND FORENSIC INSTITUTIONS

#### THE SITUATION

Due to the current pandemic, hygiene measures are being increased.

Furthermore, in facilities where the spread of contamination by external personnel must be avoided, such as prisons, psychiatric institutions and similar, compliance with protective clothing guidelines is becoming an essential safety factor.

Carelessness or non-compliance with the protective measures should be made impossible and any damage to health should be avoided at all costs.

#### THE REQUIREMENT

Hospitals, especially intensive care units, laboratories etc. may currently only be entered whilst a face mask. In addition, external personnel in closed facilities, such as canteen staff in prisons, must absolutely comply with appropriate safety regulations.

In order to assist untrained visitors and especially the staff, who checks that those measures are being observed, an additional technical solution is available.

If a person with insufficient protective clothing tries to enter a check-in point, an individual, predefined process can be triggered, e.g. denial of access, activation of an alarm, etc.

According to the DSGVO, the personal rights of individuals must be protected.



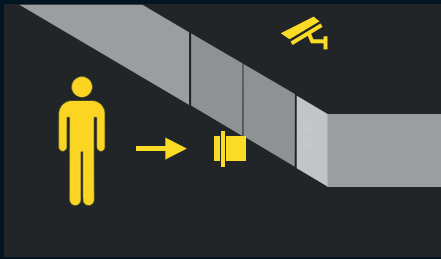
Detection of protective clothing  
(masks, gloves, aprons,  
full body suits)



Minimize the risk  
of infection



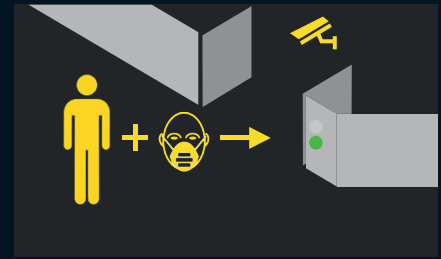
Interface to the access  
control system



Person at the access control system.



Scan of the person according to previously defined protective clothing characteristics (mask, gloves, suits etc.).



Granting access if the result is positive, triggering the defined reactions if the result is negative (refusal of access, alarm activation, etc.).

### THE GEUTEBRÜCK INDIVIDUAL SOLUTION

The artificial intelligence (AI)-based solution for detecting protective clothing helps to significantly improve hygiene. In an urgent case, it can set off an alarm which the responsible person receives for verification.

An interface of the Geutebrück system to the automatic door locking system with traffic lights guarantees an automatic procedure.

When the AI detects the required protective clothing, the safety area door is automatically unlocked. If the AI detects incomplete protective clothing, the entrance remains locked.

Geutebrück systems have all functions to protect data and personal rights.

### SERVICE AND SUPPORT

- In the machine learning process, our experts train the algorithm according to your specific requirements. Virtually all combinations and special requirements are possible.
- The basic classifier recognizes a standard set of face masks. Further objects can be trained if required, e.g. protective suit, gloves or protective eyewear.
- Additional services: patch management, warranty and maintenance.
- Personal: Permanent Geutebrück contact person.

### THE BENEFIT

- Optimization of the necessary preventative measures.
- Sensitization of employees to comply with safety regulations at the start of work or after breaks.
- Visual documentation as a proof of compliance with all legally prescribed protective measures.
- Interface to other systems, e.g. time and attendance, is possible.
- Conform to the European Data protection regulation the personal rights of employees are protected.

SOFTWARE

HARDWARE

SERVICE

Geutebrück offers everything from one single source.