

VIRUS INFECTION PREVENTION SYSTEM ON THE UNIVERSITY CAMPUS

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GOAL

Design a strategy to minimize the spread of viral infections in the campus of Silesian University of Technology.

Strategy will be valid and useful for COVID-19 and other types of future viral diseases, for instance, during flu season at the beginning and end of winter.

The strategy is comprised by the following points:

1. Procedures
2. Education
3. Investments

PROCEDURES

Guidance for Institutes of Higher Education (IHE) on Preparing and Responding to Infectious Diseases.

It focuses on the need to implement different types of procedures in case of different scenarios regarding the level of risk of infection and spreading of diseases.

The Guidance includes Basic Prevention Measures, Procedures for Prompt Identification and Isolation of sick people, Measures for Cleaning and Disinfecting, Workplace Controls, etc.

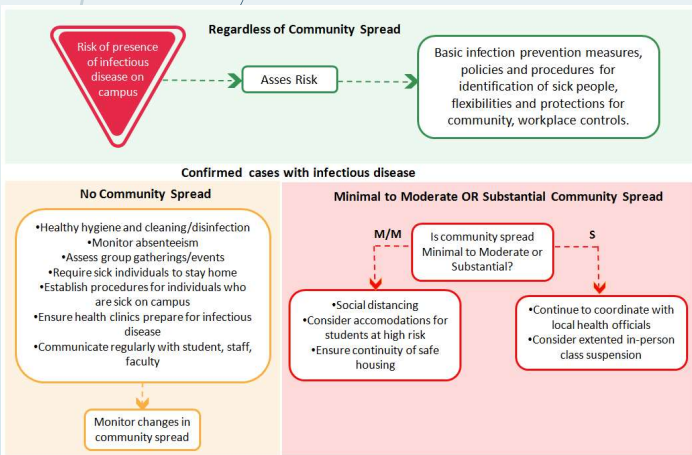


Fig. 1. Decision tree for different risk stages from Guidance for IHE

EDUCATION

1. Audiovisual material containing procedures from Guidance for Institutes of Higher Education.

Diffusion of video is planned to be made through different channels like by posting it on the official SUT website, social media, and some screens within the different faculties.



Fig. 2. Video cover of Guidance for IHE

INVESTMENTS

1. SUT Mobile Application

Why is it necessary?



Creation of the mobile application would also other features such as:

Attractive functionalities:

- schedule of classes with alerts
- news from Silesian University
- marks and final marks
- map of campus with dining and photocopying
- events taking place in university
- air pollution monitoring in the campus
- languages: Polish and English

Communication channel:

- news from Silesian University
- access to university's email and SOTS (student service system)
- contact to dean's office
- information connected with Covid-19 or other viruses and bacteria

Ways of creation:

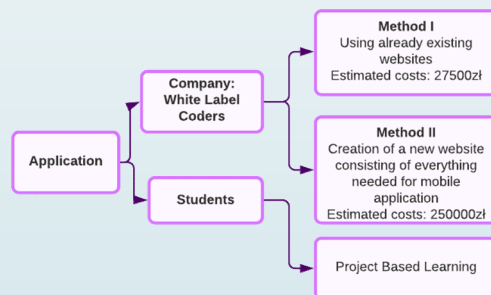


Fig. 3. Methods of creation of SUT mobile application

Business opportunities



Fig. 4. Possibilities of profitability from SUT mobile application

2. Infrastructure

Creation of new infrastructure that can be adapted to any kind of infectious virus, especially respiratory ones, is key in helping to reduce transmission rate among the University community.

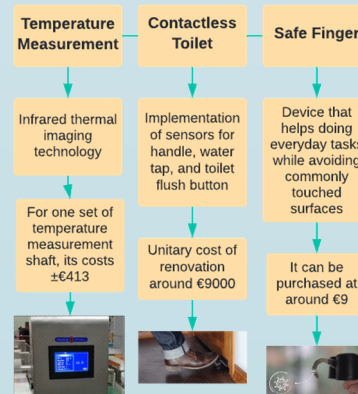


Fig. 5. Proposals for new infrastructure aimed to decrease transmission of viruses