



**REOPENING PUBLIC LIFE**





## INCONTROL supports infrastructures to be compliant with physical distance regulations for safe reopening

**We are all longing for public life to reopen, to travel, and to enjoy time with friends and family. Unfortunately, coronavirus, lock down, reopening and specific protocols are still headlining these days. In order to slow down and control COVID-19, several measures were implemented all over the world; public areas, schools, cafés and restaurants are closed or partly re-opened. The possibilities to meet people are limited and physical distance is mandatory. These measures have a severe impact on our public, working and private life.**

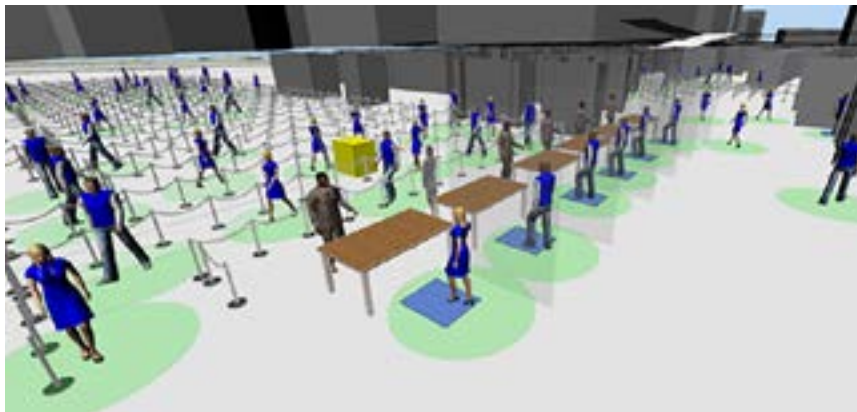
Optimistic plans are being hoped for that between April and June a big share of the population will be vaccinated, while other more conservative plans set this date to the end of summer. More certain is that stadiums, schools, restaurants and other venues will reopen in a hybrid way, before the end of the pandemic. Organizations are now discussing how this transition phase will look. Main discussion topic is around limited entry of vaccinated people as well as the success rate of rapid test implementations. All these areas arise challenging planning and operation questions such as the space, staff needed, and time to execute all those

changing rules and extra checks. Aside the above, other regular aspects which must be addressed are meeting the overtime, changing physical distancing rules and protocols (safety) rerouting the flows (guidance), expected capacity (utilization), minimal staff required (cost control), specific instructions and signing (communication), then finally the experience.

Physical distance raises a lot of questions and challenges for your position, whether you are representing the local government, or a factory manager, individual shop/ restaurant owner or a (sport/ entertainment) facility/event manager.

How can we guarantee and facilitate a safe environment? What is the safe capacity of a restaurant, shopping area, transportation hub, public park or city square and meeting physical distance rules? From a utilization point of view, how can you maximize these capacities? What will be the effect of these rules on the user experience and required staff levels? Bottomline - Is reopening under these conditions economically viable?

# Simulation supports attendees, employees, management and other stakeholders to test and validate their plans



## HOW OUR SOFTWARE CAN HELP

Officials and citizens are asking for guidelines to (re)organize inside and outdoor areas and facilities to remain safe and reduce the impact of infection by COVID-19 or any communicable disease.

Simulation adds value to (re)design, optimize operations, monitor and control these areas and facilities by:

- Contributing to understand the impact of physical distancing.
- Give insight and guidance of the impacts in public areas and facilities.
- Helps to analyze and compare scenarios to get insights into the proximity of the number of allowable people as well as lengths numbers of the queues. For example, scenarios can require different crowd management techniques be implemented such as (one-way) routing, seating or different logistic planning, capacities or a different layout.
- Helping to design instructions for citizens/attendees and officials to avoid or limit queues.
- Get approval by (local) authorities to re-open facilities at maximum allowed capacities.

**Our crowd modeling software is a simulation digital twin that allows you to simulate all kind of operational scenarios ('what-if' and impact) to find the most optimal scenario for both safety and economic profit.**

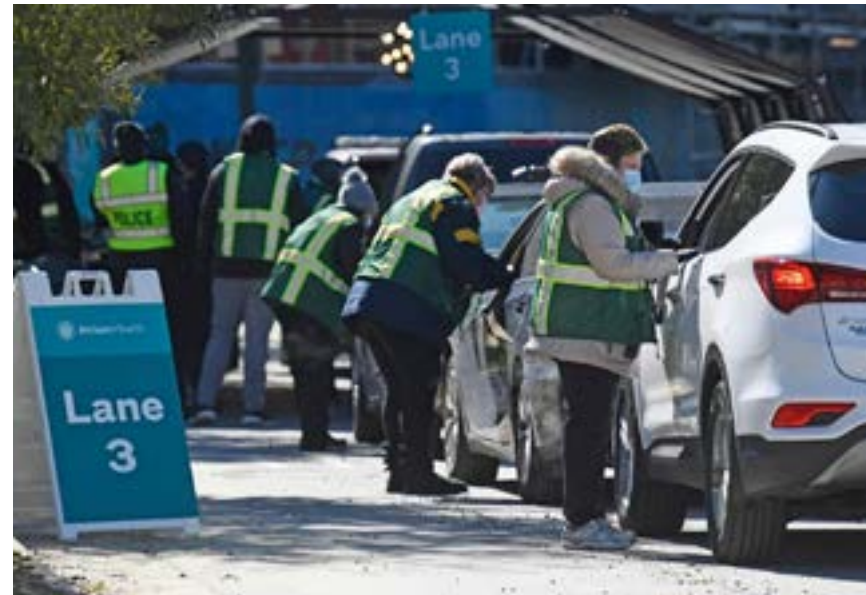
Our software incorporates advanced algorithms to simulate pedestrians' behavior (all demographics) including physical distancing. Simulation supports effective accurate decision making, by stakeholders to test and validate their plans. Thanks to its 2D- and 3D-visualization, all stakeholders will get insights as to the setting, how all new measures will look and act, how to plan and implement the plan.

INCONTROL and client partners collection of relevant input data, including generic and specific (local) rulings, statistics, layouts of metropolitan and city areas, and specific (public) areas and facilities will drive the analysis. Our advanced simulation models cover aspects of human behavior including related to COVID-19. INCONTROL also has experience with simulating test and vaccination-centers to ensure a more efficient process for the right number of safe throughputs, physical distancing for queue lines that maximize safety and ensure more access.

### **INCONTROL SIMULATION SOFTWARE**

INCONTROL is a leading manufacturer of simulation solutions. Our software platform is intensively used for analyses and optimization of pedestrians using critical infrastructures and manufacturing logistic processes. We create the ability for our clients to virtually design, test and analyze the behavior of large infrastructures and their cascading effects under all sorts of – hazardous – conditions. Such as evacuations, sheltering, bomb threats, active shooter,

adverse weather, traffic congestions, and queuing. This gives you the ability to experience the future before it happens! Our crowd simulation software today is also heavily used to implement physical distance and other Covid-19 pandemic rules and regulations. Our simulation solutions are implemented at leading companies worldwide, such as: sport venues, theme parks, museums transportation hubs; airports, harbors, warehouses and train stations. Including COVID-19 test and vaccinate locations, see [our recent article](#).



**Would you like to know what INCONTROL can do for you and your organization? Please do not hesitate to [contact us](#). We are happy to tell you about our experiences and expertise.**

