Rebooting operations after crisis

...and preventing future risks with the help of data, foresight and systems thinking

Returning to the new normal requires preparation and coordinated decisions from all actors in society. When successful, decisions are made promptly and support each other, creating a positive cycle in society and the economy – but decisions also involve risks and the potential for harmful side effects.

Due to the complexity of the system, forecasting is difficult but not impossible. VTT CityTune® helps the prevention of risks with data and insight.

How can we help to reboot your operations based on foresight, data and system thinking?

- VTT has long experience in system thinking and advanced data analytics
- We have been working on approaches to tackle effects of corona in different settings for example related to cities, businesses and entire society
- Our science-based measures have helped customers for example to prioritise the key decisions and where to focus to overcome the crisis
- Our approach allows for range of budgets and time frames depending on the level of detail required for the analysis

VTT CityTune® to support decision-making

- A decision-making method that combines data and expert knowledge
- The management flight simulator for decision support is built through modelling
- Fast simulations to support decisions
- Impact assessments
- What if simulations

Identification of complex cause-and-effect relationships
Building and communicating mental models
Understanding the long and short term effects
Anticipating unexpected consequences
Identification of leverage variables to create a positive spiral
Simulation of decisions
The key to making better decisions is VTT’s system dynamic model (VTT CityTune®)

Descriptive analytics: What is the current situation?

Diagnostic analytics: Which factors have contributed to the current situation?

Predictive analytics: What is going to happen to the system?

Prescriptive analytics: What can be done in order to reach the desired impact?

Quantitative data based methods

Qualitative narrative methods

Example of the effects of the coronavirus

“Traditionally city decision-making is focused on short-term, sectorial factors and regulations. System dynamics brings holistic view, defines leverage points for reaching targets and goes beyond traditional silos. Combining data and tacit knowledge is very powerful approach for decision-making.”

Päivi Sutinen
PhD, EMBA
Director for City as a Service Development, City of Espoo, Mayor’s Office

“The transition to an environmentally sustainable new normal requires financing. Implementing sustainable finance – integration of sustainability considerations in the financing of economic activities – opens opportunities for green recovery. This can make a difference in the outcome”

Efrain Tamayo
PhD, researcher
Transportation, Energy and Environment Researcher Laboratory, Hitachi Europe

Contact us for more information:
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