# MASC

Management of Acute Supply during Crises

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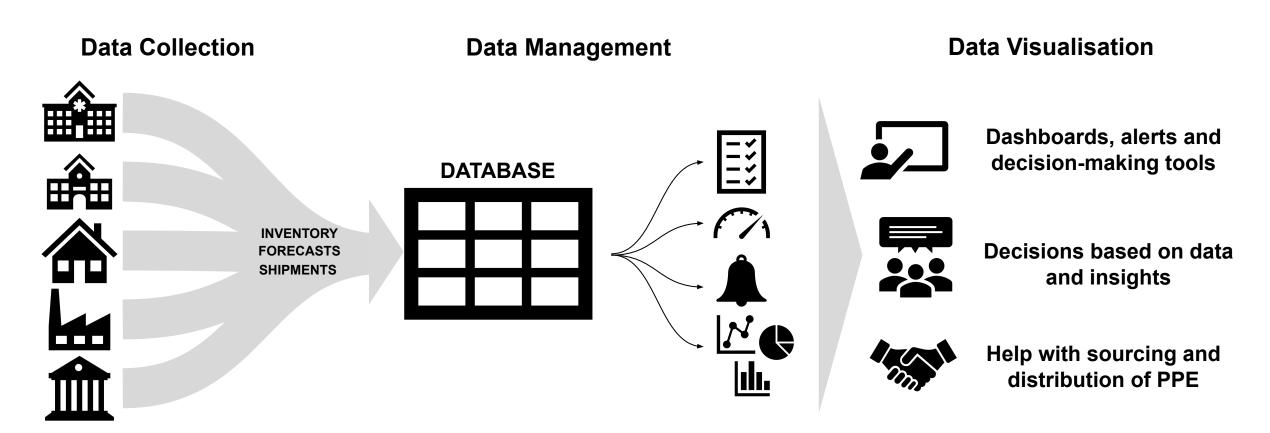
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# Challenge

- 1. During COVID-19 crisis, making informed decisions on procurement and distribution of personal protective equipment (PPE) has been challenging
- 2. The difficulty in decision-making is mainly caused by the lack of data on PPE inventory, forecasts and usage across institutions in both public and private sector
- 3. Without the necessary tools, unforeseen crises such as COVID-19, can lead to unstructured data collection and analysis
- 4. Various needs at different levels can cause overwhelming reporting demands, confusion in reporting, and fragmented data management
- 5. Inefficient and overloaded processes contribute to increased error rates on all levels, from frontline reporting to strategic decision-making

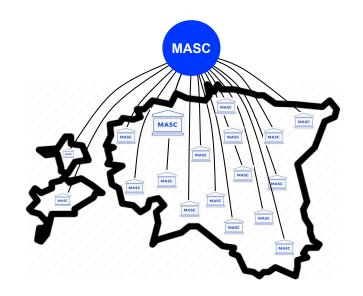
## Vision

Seamless data flow from institutions to the central database for effective decision-making



No central, automated platform across hundreds/thousands of organizations exists today

## **Solution & Key Benefits**



MASC Gov solution went live in Estonia on 21 April 2020, and is today used by over 300 institutions (including all hospitals)

MASC Gov is a PPE inventory and demand monitoring platform for governments and crisis response teams.

The purpose of MASC GOV is to help ensure the people in need of PPE receive the needed equipment.

The solution frees up time, saves money on procurement, and helps save lives by:

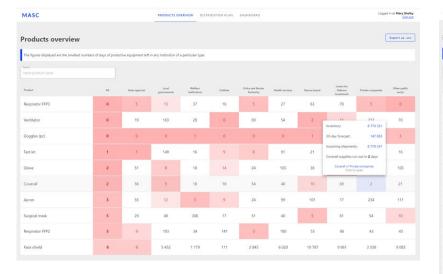
standardising how institutions report their needs <u>Website</u>

presenting that data in a comprehensible way <u>Introductory video</u>

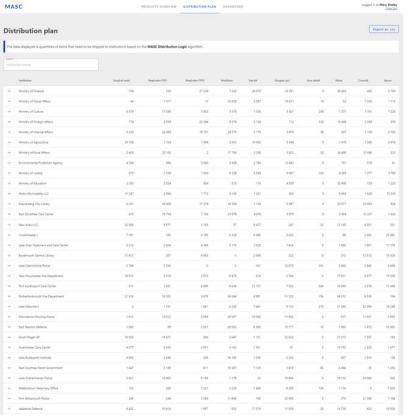
distributing the equipment optimally to ensure sufficient inventories of PPE <u>Try our demo</u>

## **Government Views**

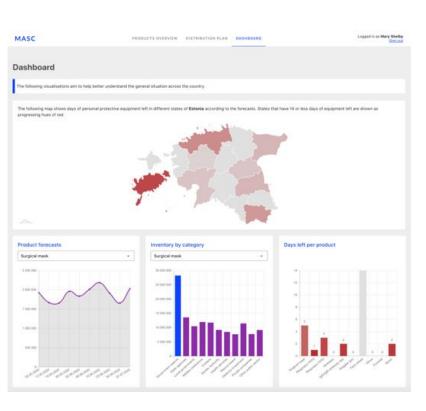
#### **Control Center**



#### Distribution Plan

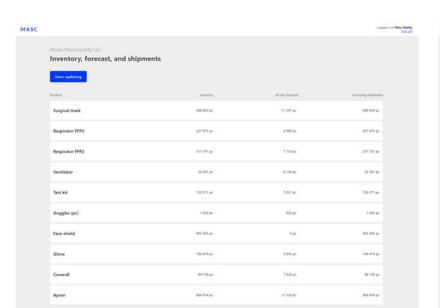


#### Dashboards

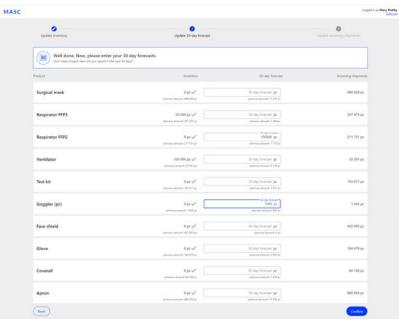


## **Institution Views**

#### Overview of Data



#### Simple Data Updates



#### **Sending Comments**



Built on powerful front-end design based on user feedback

# Designed with Security and Scalability in Mind





End-to-end encryption used



**User verification** 

#### **Global Readiness**

MASC is **flexible** and **easily scalable**, able to fulfil a nation's different requirements for processes, application hosting, and APIs.

Integration and launch can be executed in a matter of weeks.



## Value After the Crisis

MASC provides immediate relief to the COVID-19 crisis and will help to make sure that we are better prepared for the next crisis

Routine data reporting and analysis allows early intervention, helping to avoid the next global outbreak

MASC can be adapted to any crisis situation, enabling to track relevant items beyond PPE



## Other MASC Solutions

#### **MASC Supply**

B2B marketplace for PPE (trustworthy supply)

- Connecting trustworthy PPE suppliers with demand
- → Focus on B2B and B2Gov partnerships
- → All product certificates verified by consumer protection and technical regulation authority

#### Link:

https://supply.masc-global.com/

#### **MASC Vacc**

Equitable COVID-19 vaccine distribution tool

- → Equitably distributing vaccines across countries
- → Created MASC Equitable Distribution algorithm
- → Generates a proposal for vaccines distribution based on various key considerations

#### Link:

https://distribution.masc-global.com/

## **MASC Team**

Team who helped their native country **Estonia** through participation at The Global Hack\*



**Sten-Erik Mägus** 

**Partnerships** 

Governmental Affairs Shangri-La Group, Beijing University of Amsterdam



**Kert Pütsepp** 

**Product** 

Healthcare and Pharma
AstraZeneca, Washington DC
University of Cambridge



Oliver Viljamaa

Software

Full Stack Developer TransferWise, London University of Tartu

<sup>\*</sup>Brought together volunteers across the world to find solutions to help with management of the COVID-19 crisis, endorsed by the President of Estonia, Kersti Kaljulaid

## **Contact us**

Have any questions? Want to work together?

<u>info@masc-global.com</u> <u>masc-global.com</u>





