



Jheronimus
Academy
of Data Science



Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

Crises initiative

PDEng data science: <https://www.jads.nl/pdeng-post-master-data-science.html>

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PDEng Team



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Zeynab



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Simay



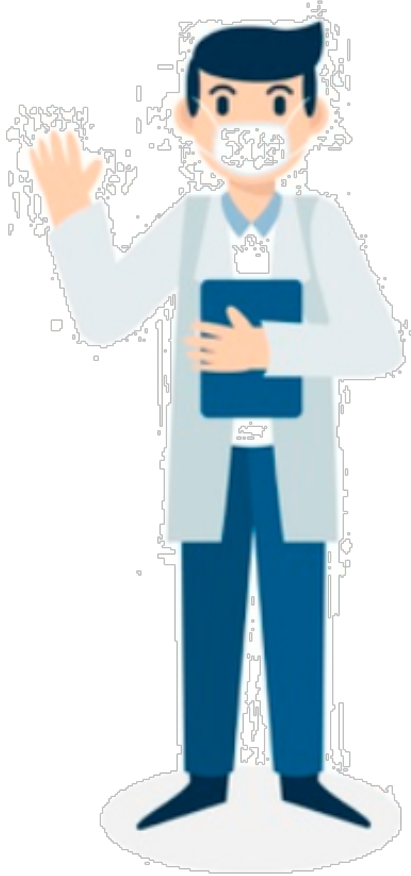
Angeliki



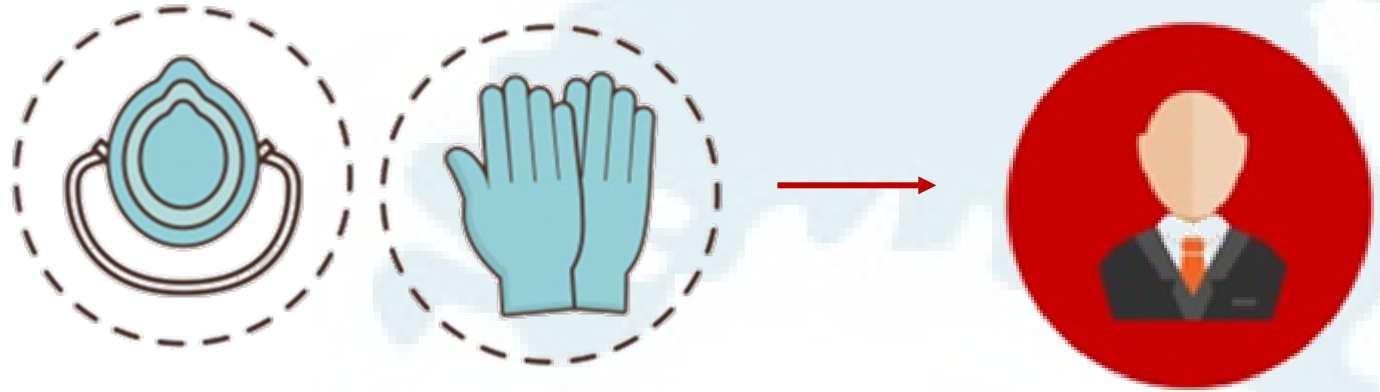
1. Question

How can the medical equipment manufacturers use the data regarding the number and distribution of patients in different countries in order to adapt their supply chains and government connect to them in time?

2. Problem



1.36 Million



LCH

I can help!



SOTI








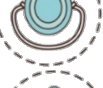


LCH

3. Current Solution

- ④ Email tenders on middelencorona@nfu.nl.
- ④ Inspection prior to procurement.
- ④ Fully legible (uncensored) illustrations.
- ④ Fully legible (uncensored) certificates.
- ④ The quantities and physical location of the goods.



4. Demand

-  FFP1, FFP2, FFP3 masks
-  Protective coats
-  Splash resistant safety spectacles
-  Aprons
-  Surgical masks (type IIR)
-  Examination gloves
-  Diagnostic tests materials
-  Ventilation equipment.



LCH



[https://www.rivm.nl/en/contact/d
oing-business-with-rivm/offers-for-
equipment-to-fight-corona-crisis](https://www.rivm.nl/en/contact/d
oing-business-with-rivm/offers-for-
equipment-to-fight-corona-crisis)



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5. Our Solution



DEMAND



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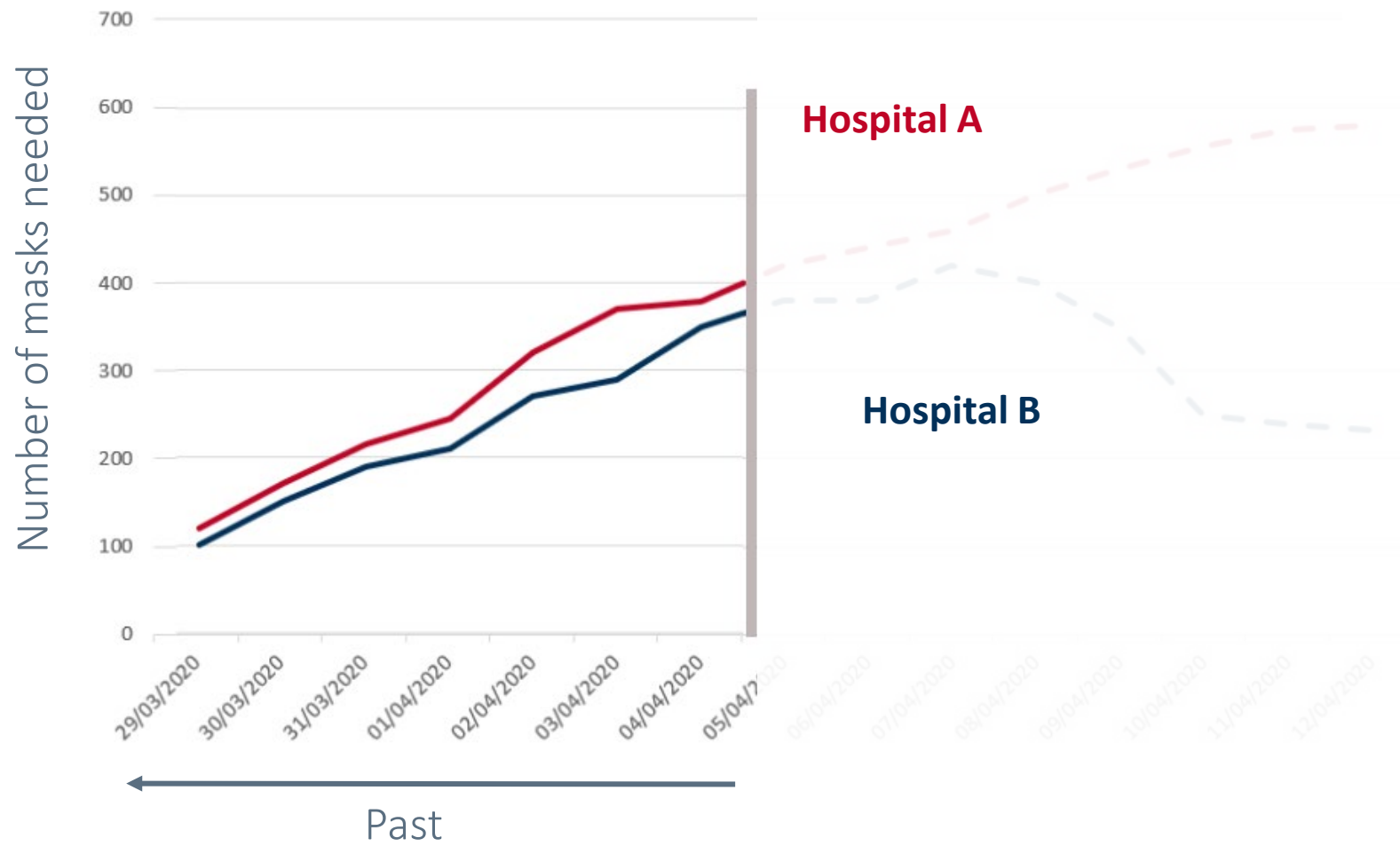
OFFERS



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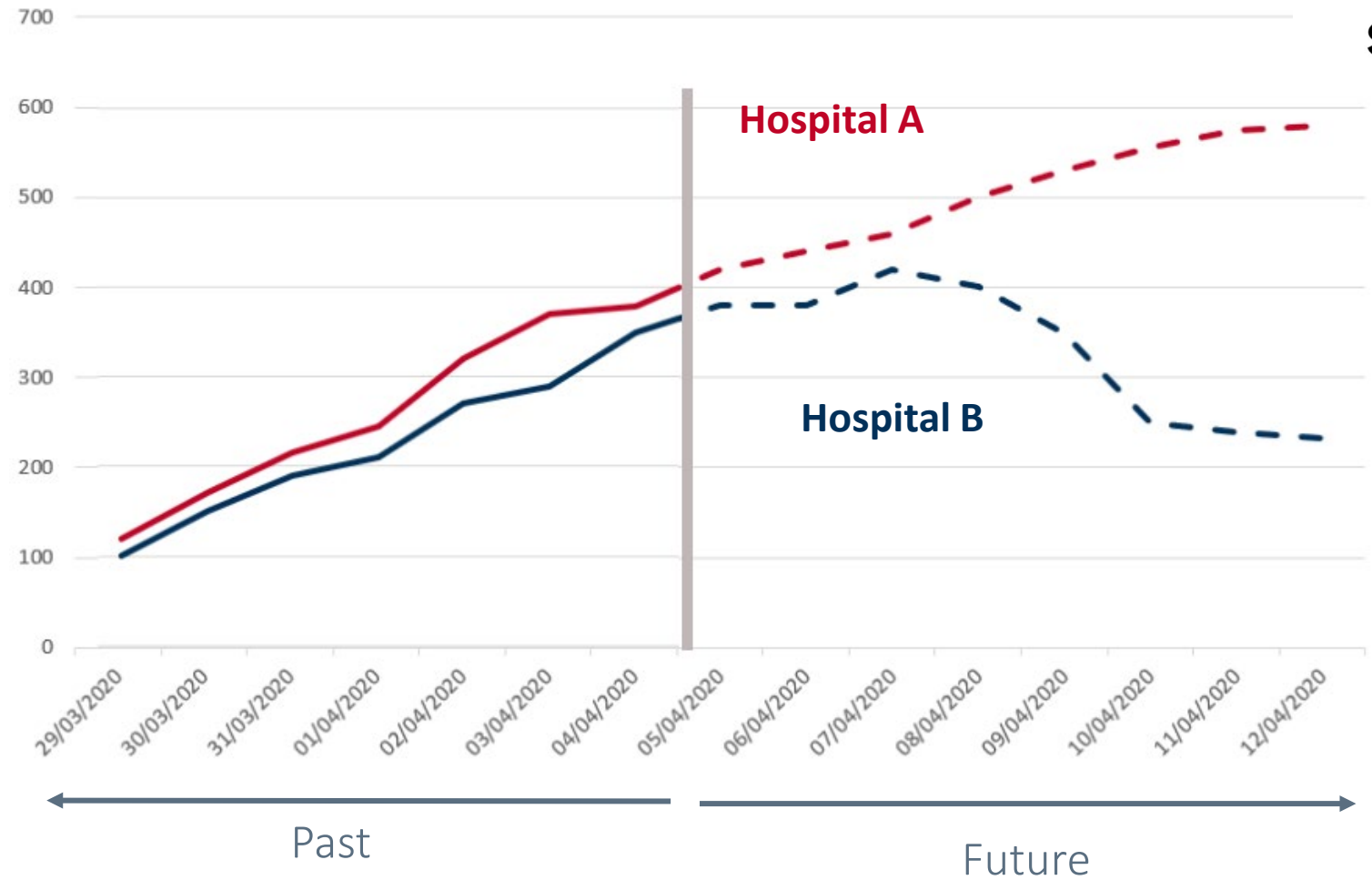
DEMAND





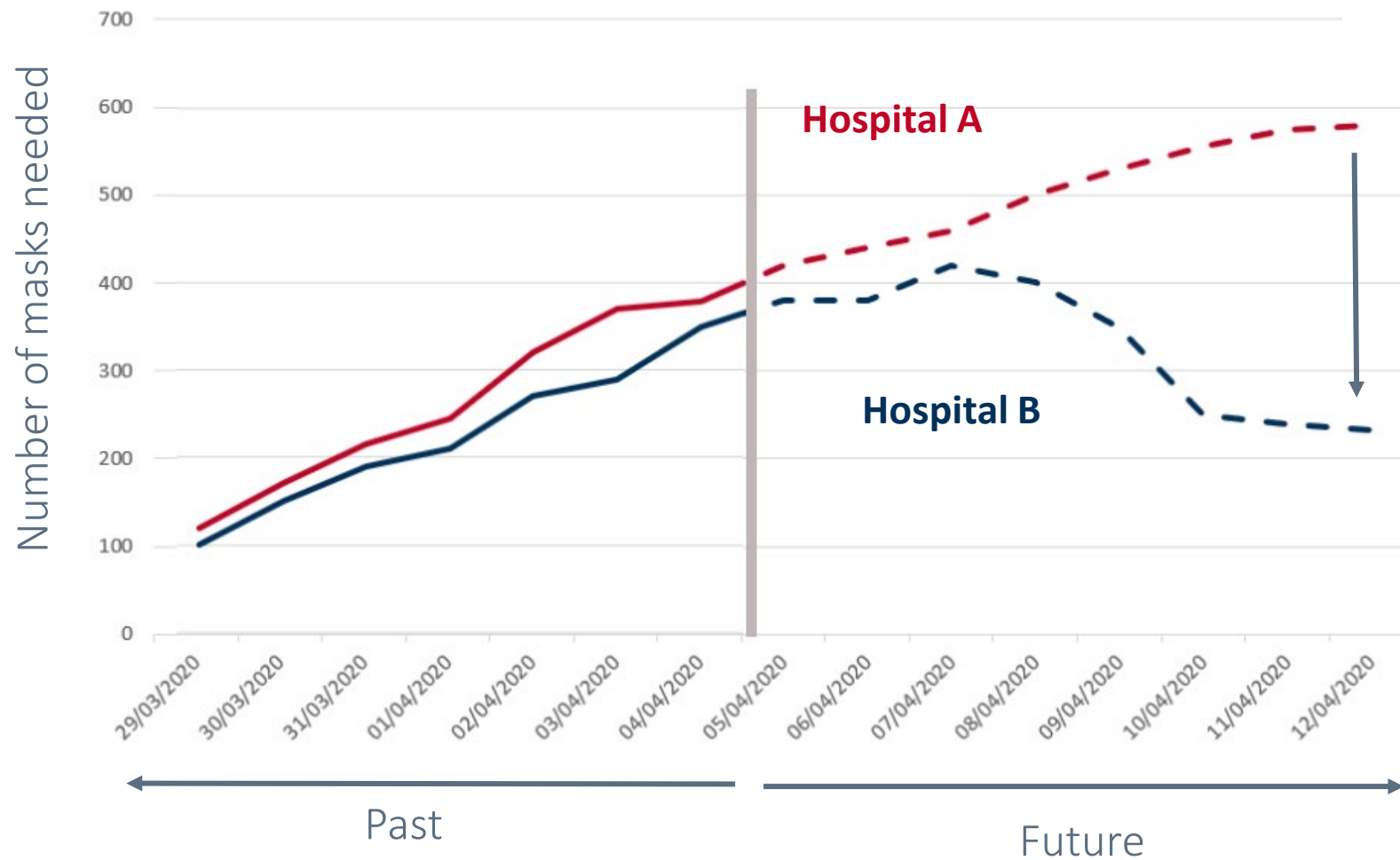
DEMAND

Number of masks needed



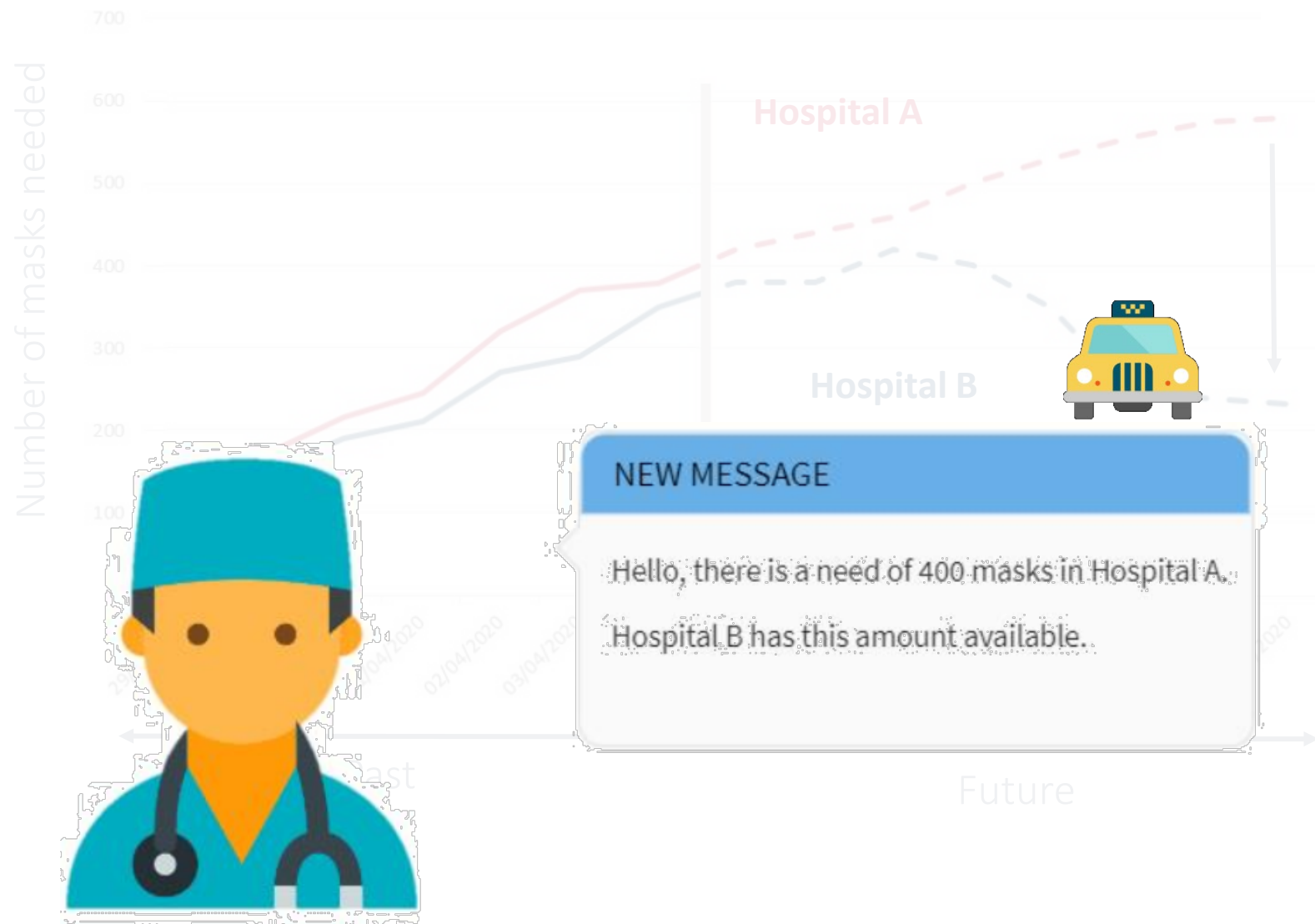


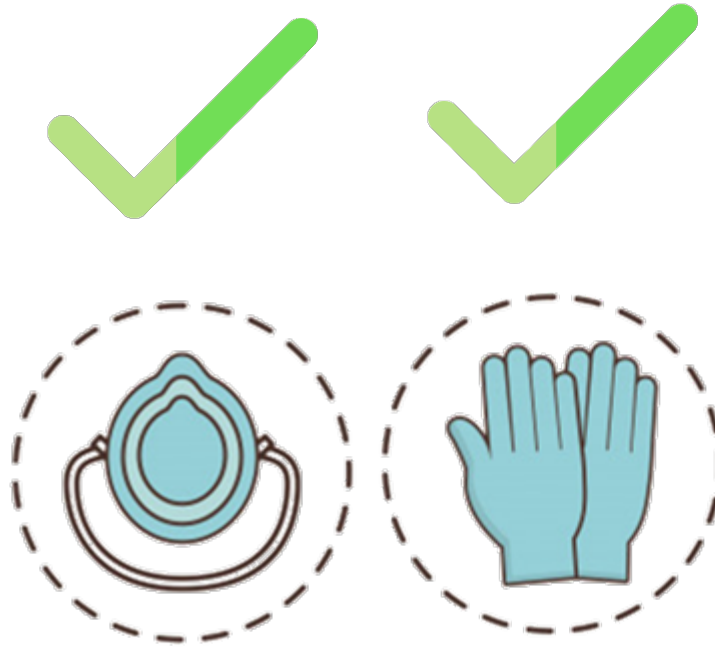
DEMAND





DEMAND





OFFERS



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E- Tender

E- Tender

E- Tender



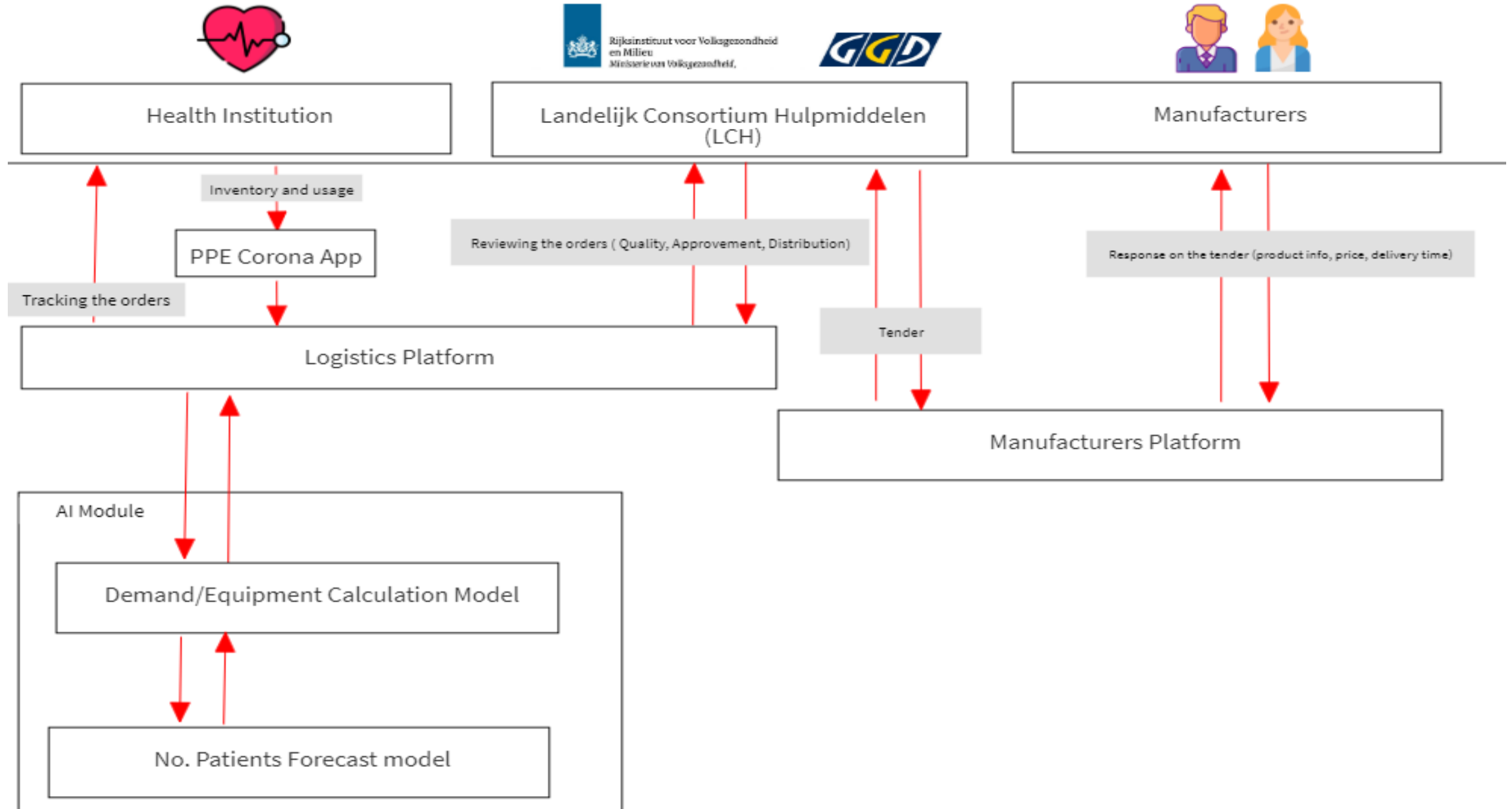
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6. Architecture



7. Conclusion



Early intervention through predictive model



Involves small businesses



Integrates three main parties and thousands of people



LCH








SOTI connects them all



SOTI

7. Limitations

-  Predictive model based on number of cases
-  Data of shortage material not available
-  Doesn't takes into account the profitability
-  opportunities for manufactures
-  Model results still updating



Thankyou!

Questions

SOTI video pitch: <https://www.youtube.com/watch?v=W3ZyjMwOD1A>

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