



Hitma **Single-use**

*Flexibilization of multi-product  
biotech production plants*



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- COVID-19
- Successful implementation of single-use production process



Hitma





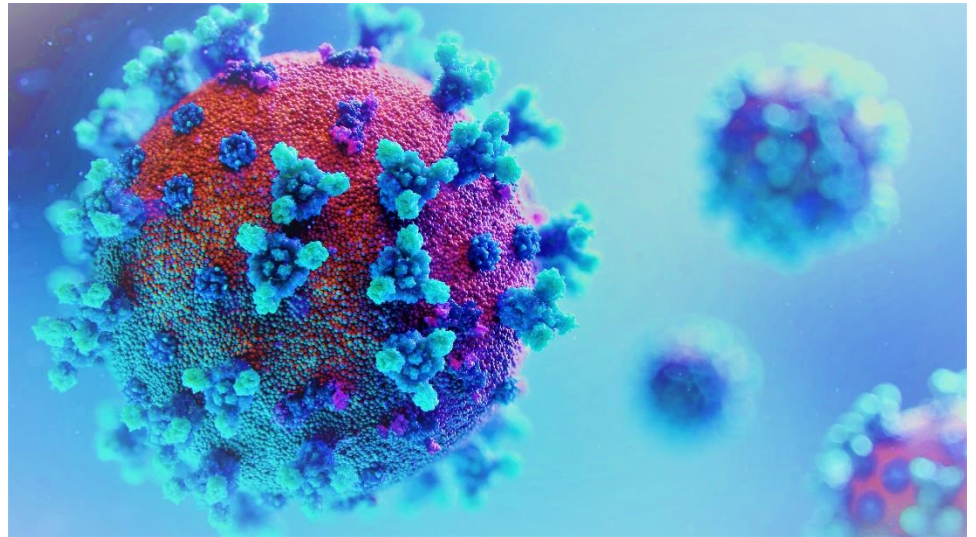
# Single-use products



- Benefits of single use products
  - No cleaning procedures
  - Reduced risk of cross contamination
  - Quicker turn around of production processes
- So, more flexibility



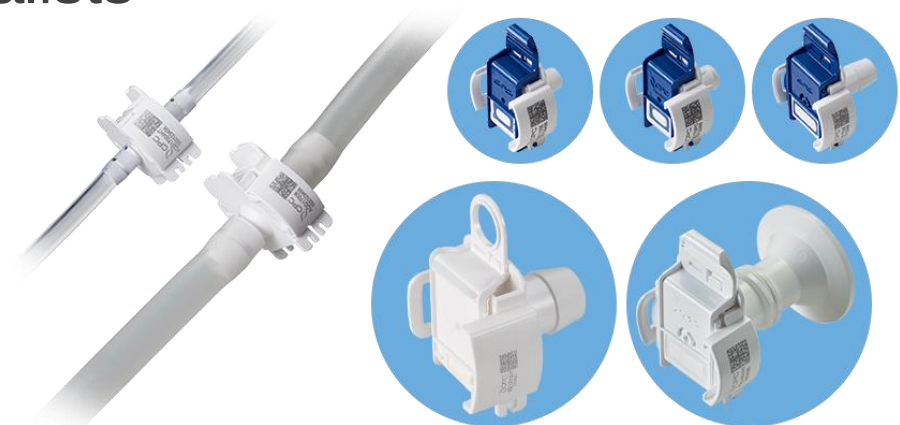
- COVID-19 vaccine production
- A supply chain under stress



The successful implementation of a single-use production process starts with thinking ahead



- Use scalable products in R&D
  - Available and affordable
  - Understand and experiment
  - Use Plug & Play
  - Talk with product specialists



1. Picture from CPC

- Standardization

- Unique processes, common components
- Modular production process



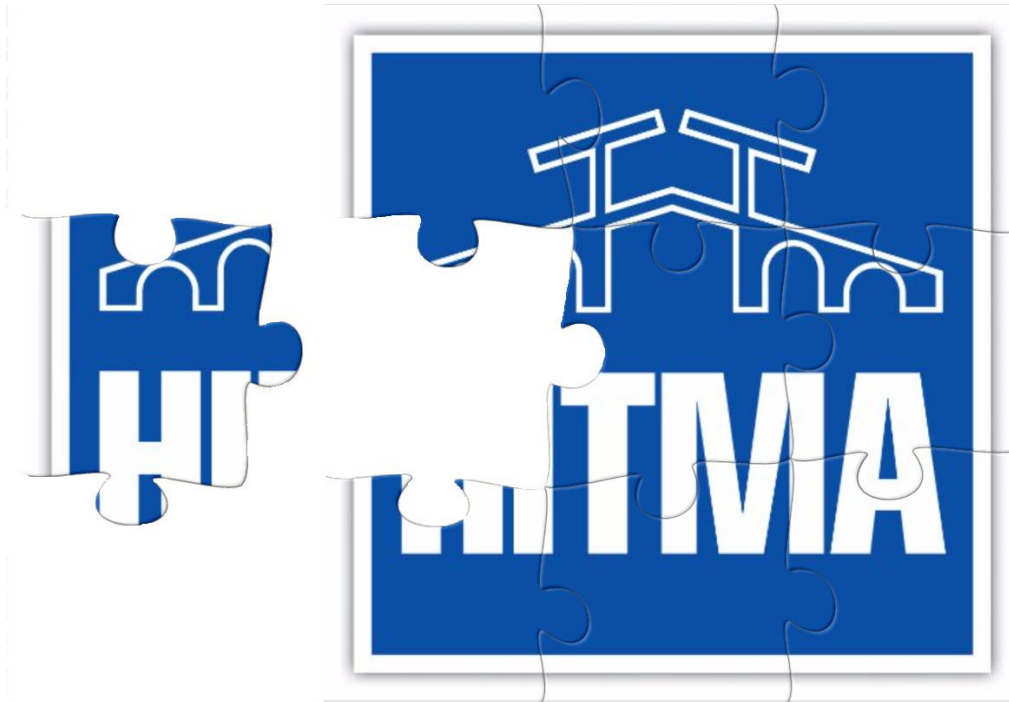
## Successful implementation

- Dual Sourcing is essential for continuity
  - Have the flexibility to switch suppliers
  - Global vs Local suppliers
  - Stock





## Successful implementation





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# Thank you



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