

Clinical material production in Leiden pilot plant

PDMS API LM - Leiden

Sr. Associate Scientist | Pilar Ramirez | FEB18

Pictured above: The structure of HIV.



Background



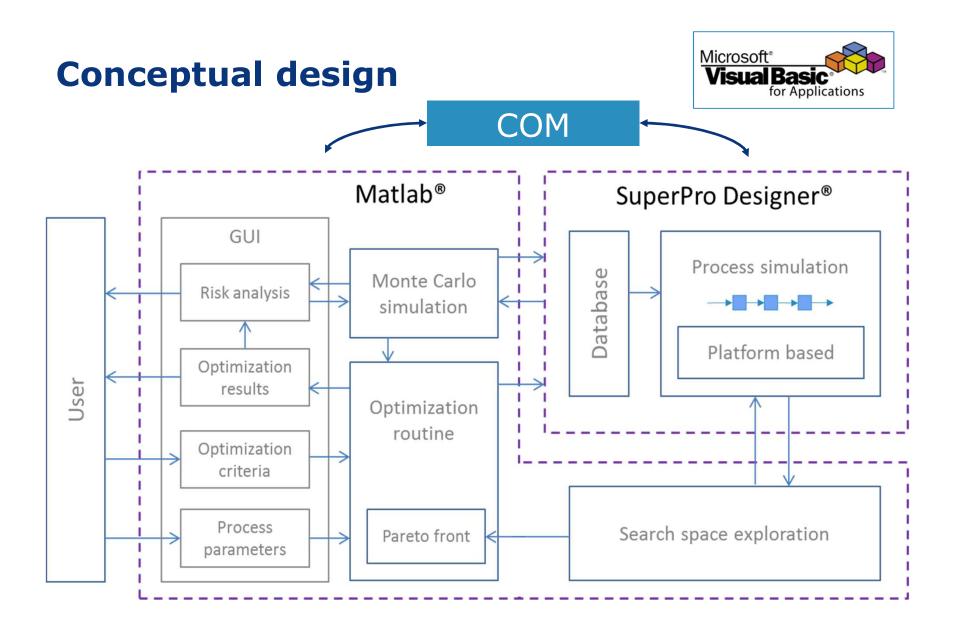
OF Johnson Johnson

Model features

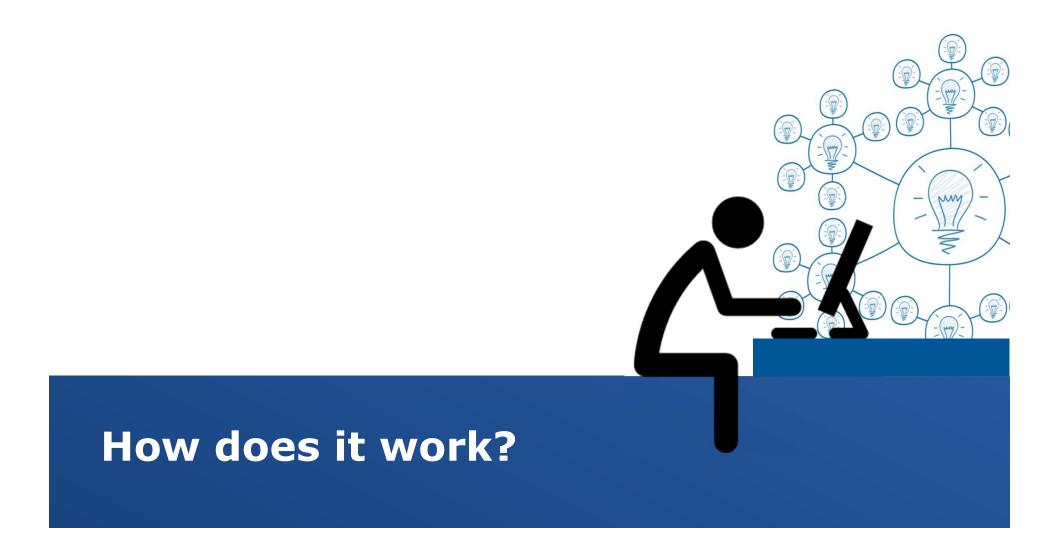




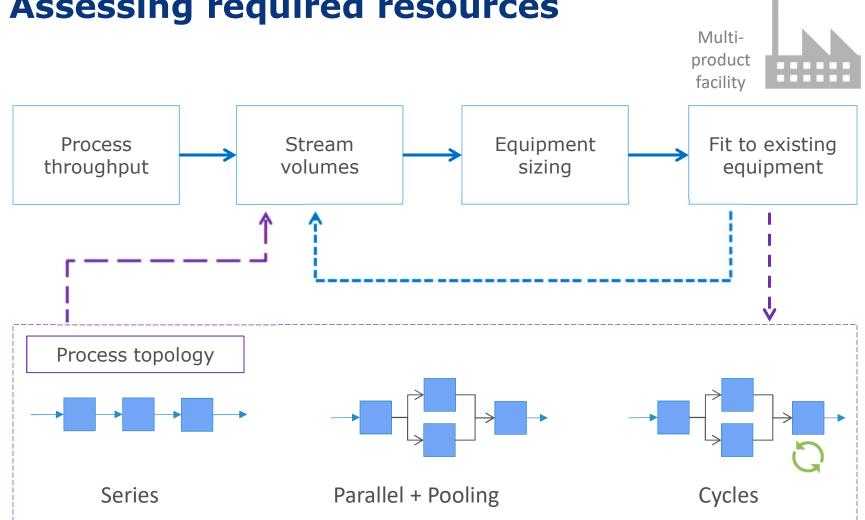
3





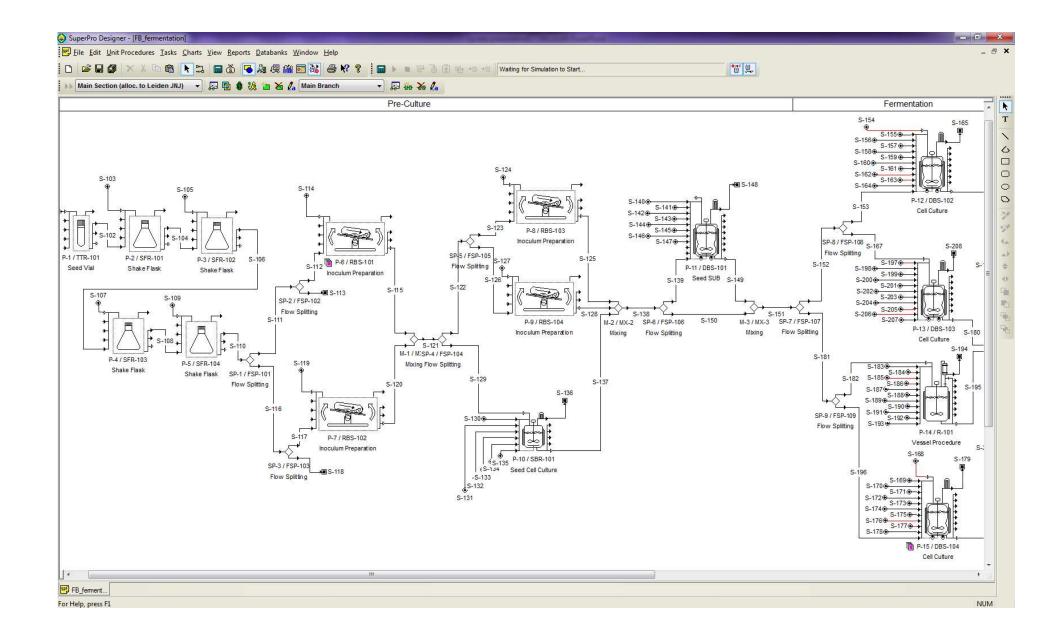






Assessing required resources





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PHARMACEUTICAL COMPANIES OF Johnson-Johnson

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Scenario Evaluation

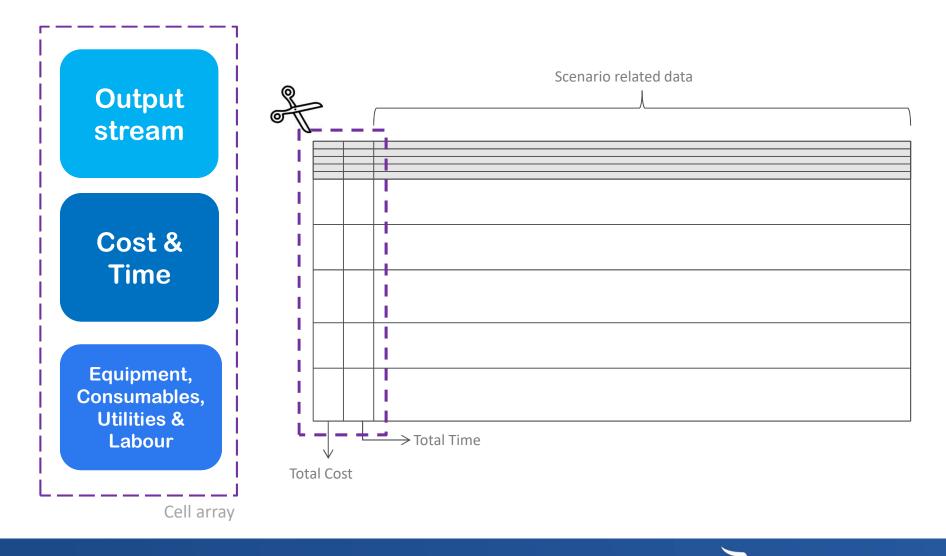
for i=1:6	[1 1 1 1 1 1 1 1 1 0 1 1 1 1 0 1 1 1 1 1 0 1 1 1 1 0 1 1 1 0 0 1 1 1 0 1] Scenario matrix	20L Wave Brx 50L Wave Brx 50L Wave Brx 50L STR
USP: 30/60 scenarios	Scena	ario identifiers

'Strings' & Doubles

USP: 30/60 scenarios DSP: 25 scenarios



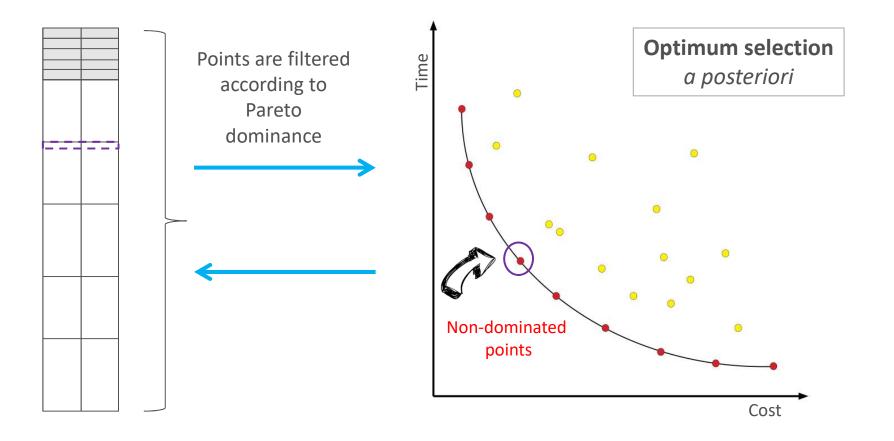
Data processing



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Determination of Pareto Front



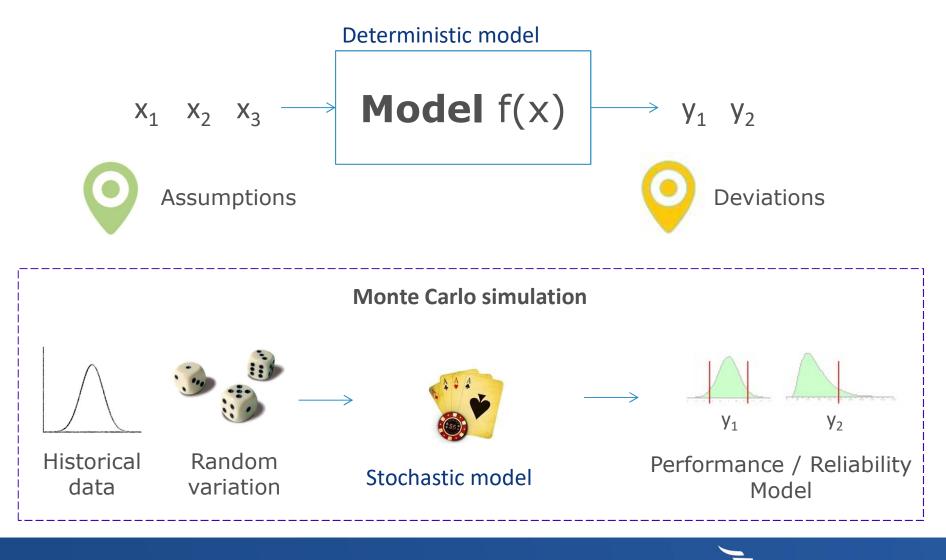








Quantitative risk analysis



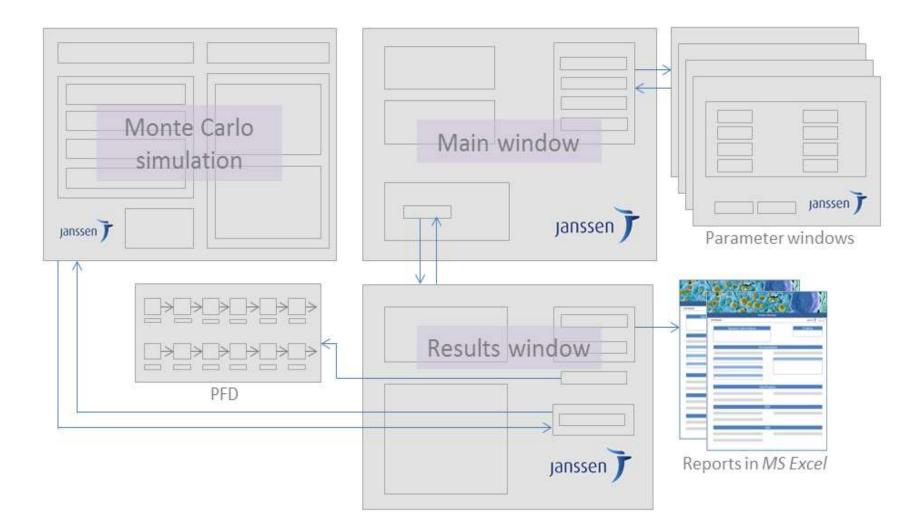
Janssen | PHARMACEUTIC

pharmaceutical companies 12

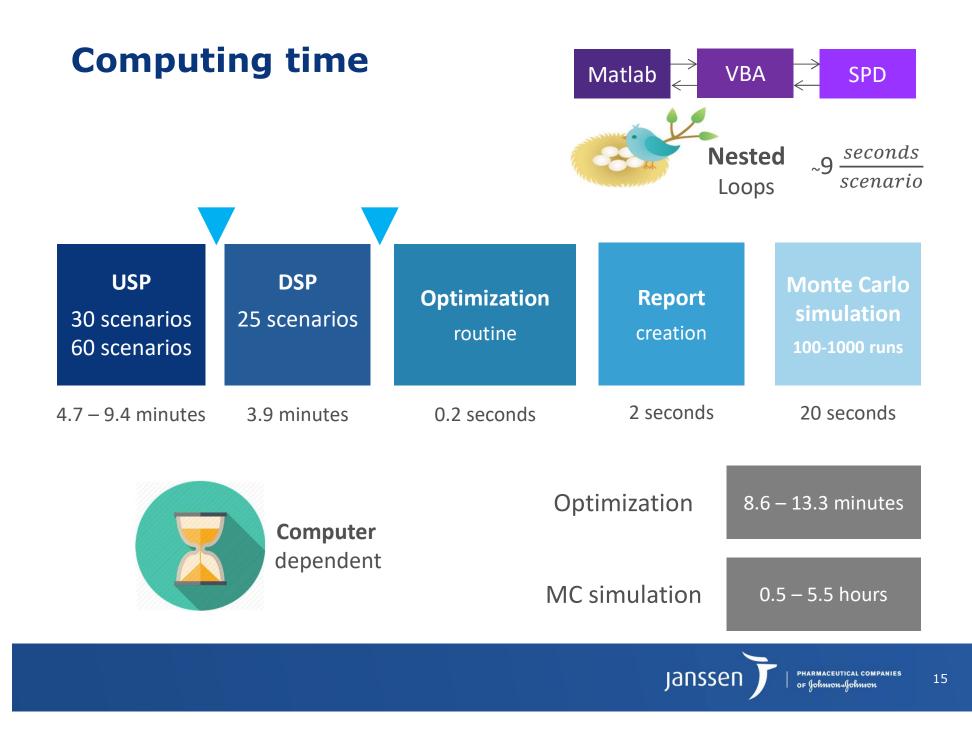
Graphic user interface



GUI structure

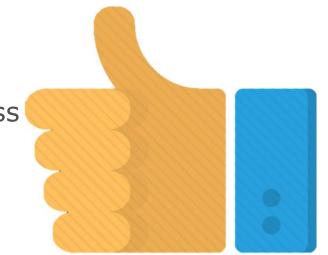


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Conclusions

- Matlab® + SuperPro Designer® efficient approach
- Enhances capabilities of both specialized softwares
- Multiple applications
- VBA is the bottleneck
- Iterative process to prove robustness
- Continuous improvements



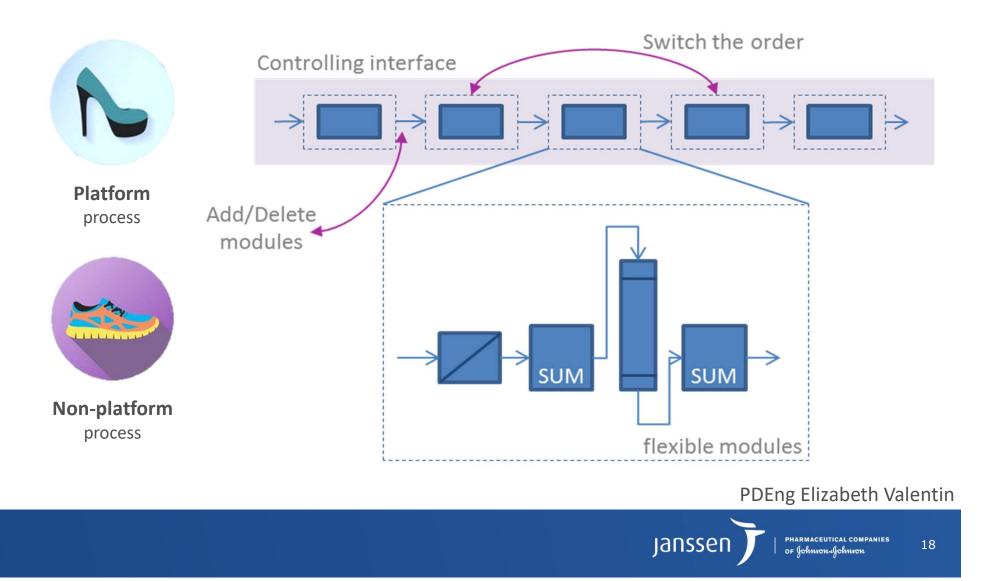


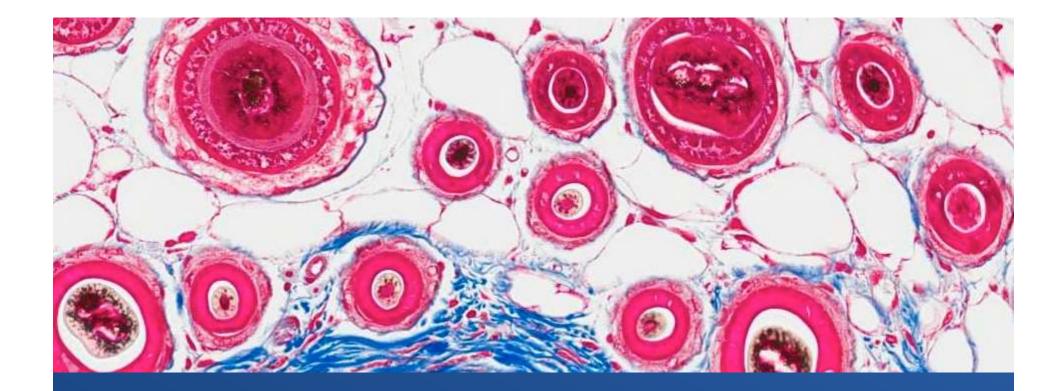
What happened next?



Continuous improvements

Non-platform processes





Questions?

Thank you!

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Pictured above: Skin cells at 20x magnification

