



# AI @ Solvay

## AFIA FIIA 2021

Crédo PANIAH

Lab AI - Connected Research  
Solvay R&I

# Our vision

Revolutionize the way we do R&I



## Today



- Lab handwritten notebooks & scanned documents
- Disconnected lab equipments



## Tomorrow



- Lab 4.0: Automation, Robotics, High throughput
- ELN, Products' digital id card ⇒ R&I Data platform
- Production/Marketing data

- Data acquisition at its most
- Democratize data analytics
- AI + Internal/Public data

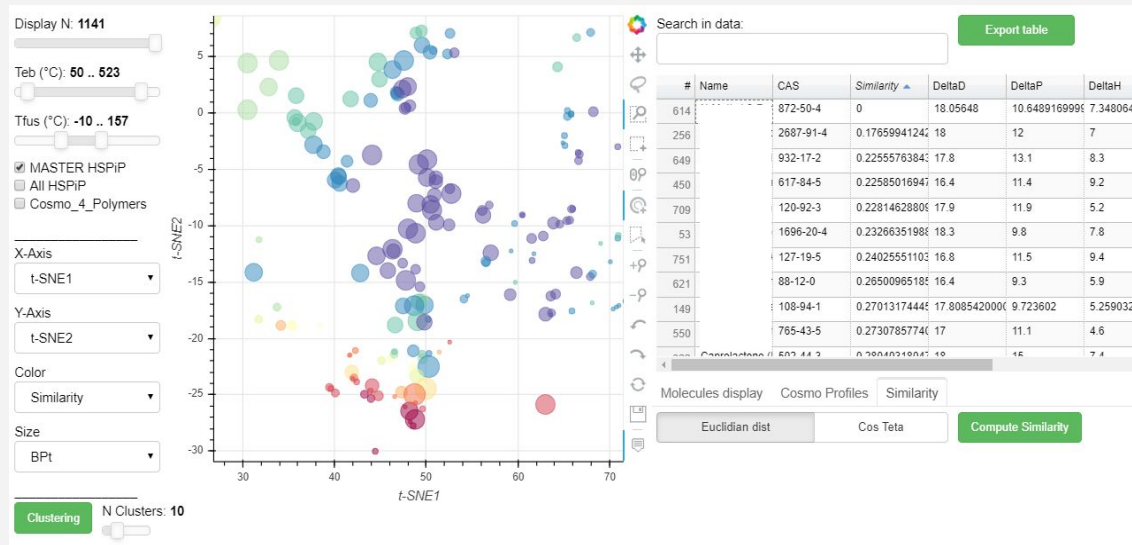
# What we do

## AI & Data Analytics



### In-house Tools Example

- Data Visualization & Statistics
- Automated text processing  
⇒ Speak Chemistry & Materials  
⇒ Manage the evergrowing flow of information
- AI based development  
⇒ More in silico, faster and cheaper Innovation  
⇒ New uses, Sustainability, Time to market Acceleration

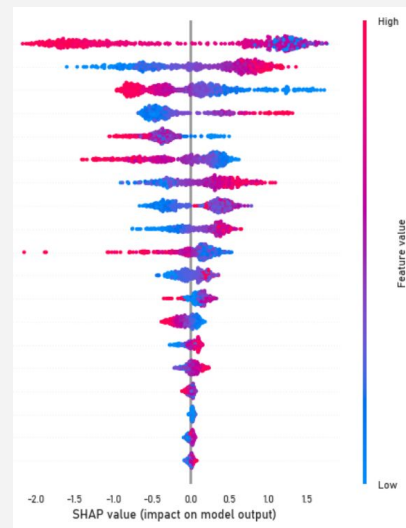


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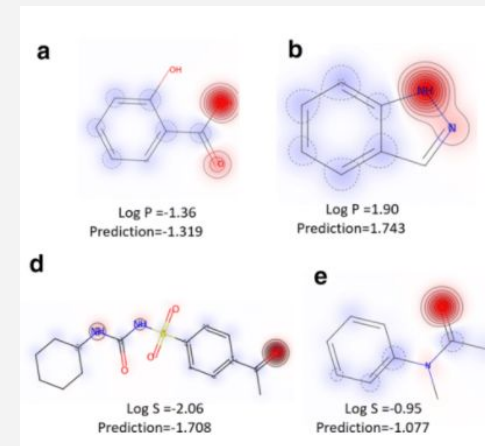
How we work on building Trust



- **Dashboarding**: Data, Scores & Metrics Visualization  
⇒ Trust building
- Models selection: **Interpretability** over Performance  
⇒ Transparency
- **Bias** identification (human biases in historical data, models biases)
- Rely on Subject Matter Experts knowledge  
⇒ **Augmented Researcher** (rather than researchers replacement)



## Examples



# Merci.



Progress beyond

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