



Where research happens.

# ChemAxon user meeting 2019

Budapest, 22<sup>nd</sup> May, 2019

Matjaž Hren, PhD, Head R&D

# Greetings from Slovenia



# Science has a data problem



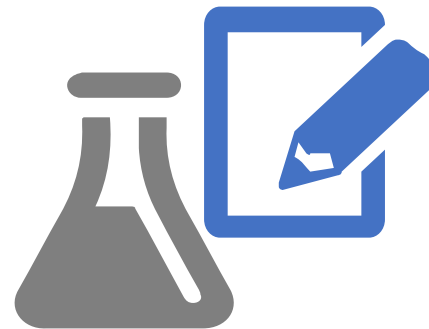
3 years

Scientific data output  
doubles

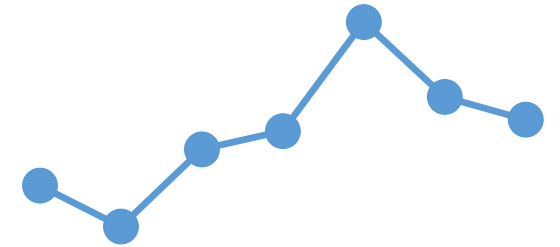
ISBN: 978-1-85604-756-2

54%

Of studies cannot be verified



PMID: 24032093



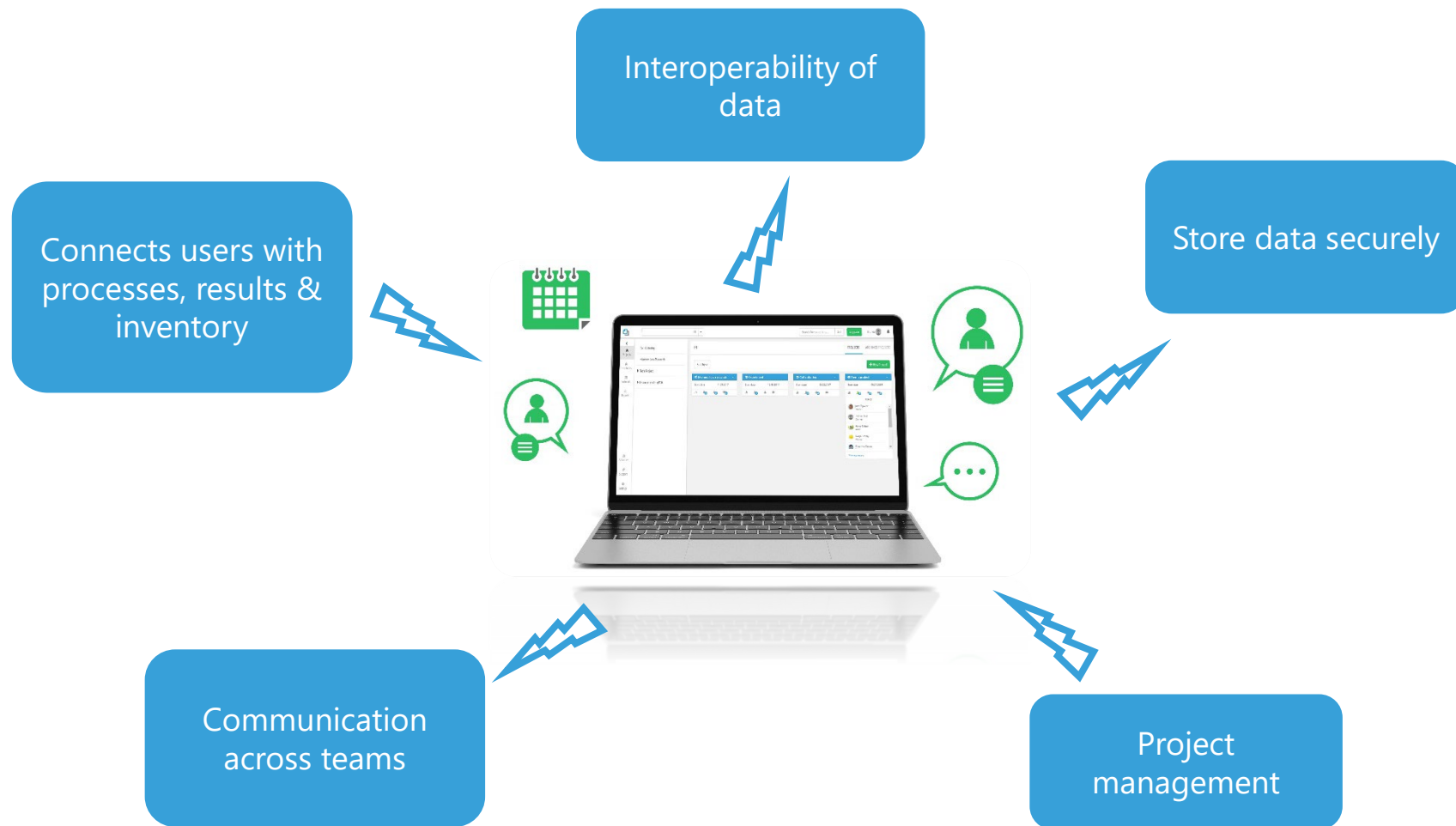
17%

Of scientific data is lost  
each year

PMID: 24361065

 SCINOTE



# ELN is the Answer



Central role in reproducibility and making science more efficient. 

# Design by understanding

## Electronic lab notebooks: can they replace paper?

[Samantha Kanza](#)  , [Cerys Willoughby](#), [Nicholas Gibbins](#), [Richard Whitby](#), [Jeremy Graham Frey](#), [Jana Erjavec](#), [Klemen Zupančič](#), [Matjaž Hren](#) and [Katarina Kovač](#)

*Journal of Cheminformatics* 2017 9:31

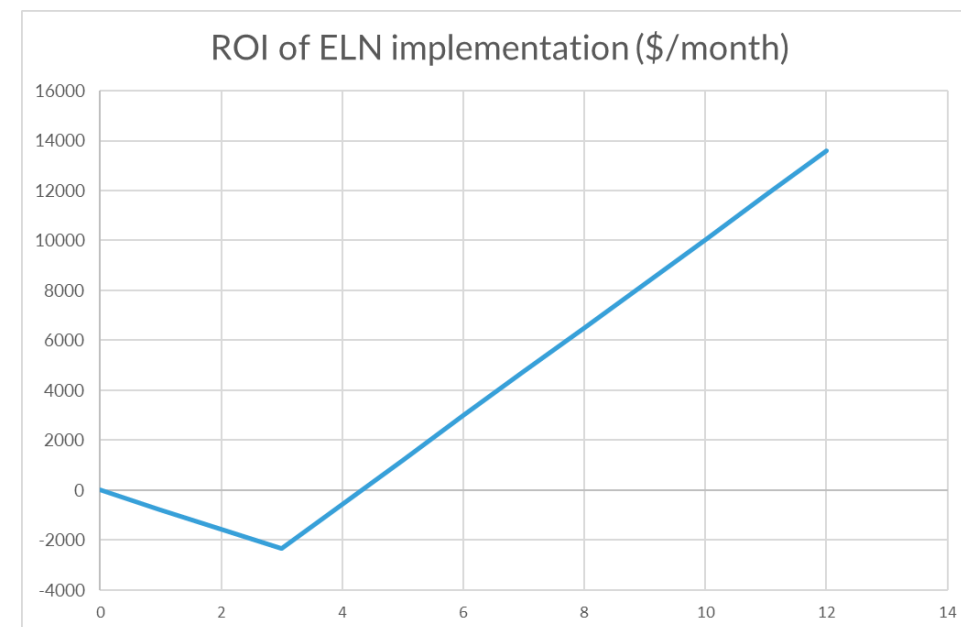
<https://doi.org/10.1186/s13321-017-0221-3> | © The Author(s) 2017

Received: 7 April 2017 | Accepted: 18 May 2017 | Published: 24 May 2017

<https://jcheminf.springeropen.com/articles/10.1186/s13321-017-0221-3>

 SCINOTE

# ROI of using SciNote – It's worth it!



- On average SciNote users saved 9 hours per week due to increased efficiency
- On average, they spent 40 hours spread over 3 months to become proficient
- Taking average US researcher salary into account, breakeven point is only 1.5 months after becoming proficient, saving \$14.000 per user per year.

ELN Plays a Central Role in  
**Reproducibility** & Making Science  
More **Cost/Time-Effective**.

# Vision for SciNote

- SciNote will become the most used, **top rated** scientific platform.
- It will be the central piece of software for any scientist and researcher.
- It will benefit the user by making them more cost- and time-efficient and making their research count.

*SciNote will be the scientist's Ultimate AI Scientific Companion like **Jarvis** from **Iron Man** or **Atlassian** for science.*

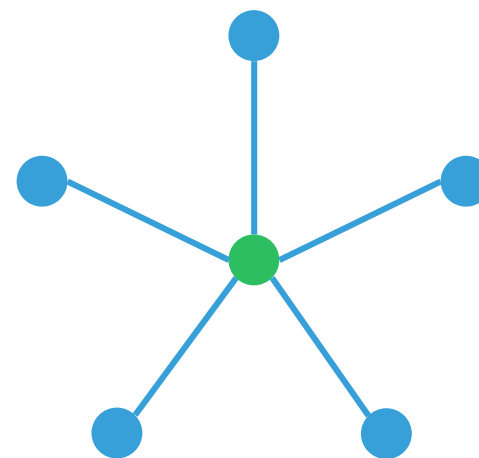
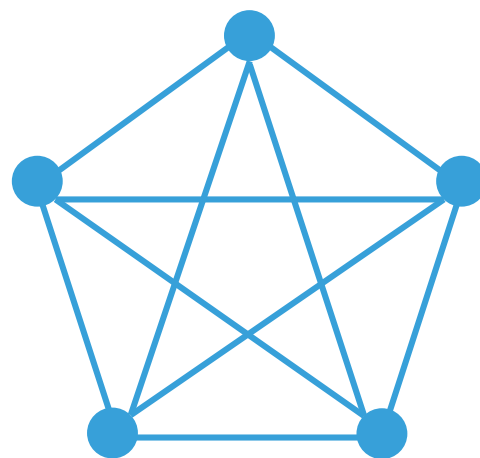


# Vision for SciNote (5-10 years)

- Electronic lab notebook
- Inventory manager
- Experiment/Protocol manager
- Publishing tools
- Data integration
- Automation
- AI, BI, AR



ChemAxon



 SCINOTE

# Integration with ChemAxon – step 1





# Integration with ChemAxon – NEXT STEPS

Expand integration with Marvin JS throughout SciNote:

- Inventories
- Annotations throughout SciNote

Integrate other ChemAxon tools for advanced SciNote customers (structure search, text-to-structure, cartridges)

POSLOVNA STAVBA KOPRSKA UL. 98

2.8	VISION	Vizija računovodstvo d.d.
2.8	OPTIMOTIVE	Optimotive d.o.o.
2.8	EUROPLAKAT	Europlakat d.o.o.
2.8	IDENTIKS	IDentiks kartični sistemi d.o.o.
2.8	ALSO	ALSO družba za distribucijo rešitev s področja informacijskih tehnologij d.o.o.
	ADVICO	poslovno svetovanje, d.o.o.
	TT & F	družba za licenciranje, d.o.o.
		plan   arhitekturno projektiranje
		sistemika   Software for life sciences
		služba za poslovno asistenco
		z.o.o.
		terfa
		šport Slovenije
		z.o.o.
		d.o.o.
		SA-I





Where research happens.

Thank You

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:-: meet, chat & demo in the lobby :-:





- Projects
- Inventories
- Protocols
- Reports
  
- Activities
- Support
- Settings
- <

- John's project
- Microbiome-host...
- Zika virus transmission
- ▶ Demo project - qPCR

sciNote team PROJECTS ARCHIVED PROJECTS

Sort by ▾

[+ New Project](#)

**John's project** ▾

Start date 25.05.2018

**Microbiome-host interactions** ▾

Start date 22.05.2018

**Zika virus transmission** ▾

Start date 22.05.2018

**Demo project - qPCR** ▾

Start date 19.05.2018





- Projects
- Inventories
- Protocols
- Reports
- Activities
- Support
- Settings

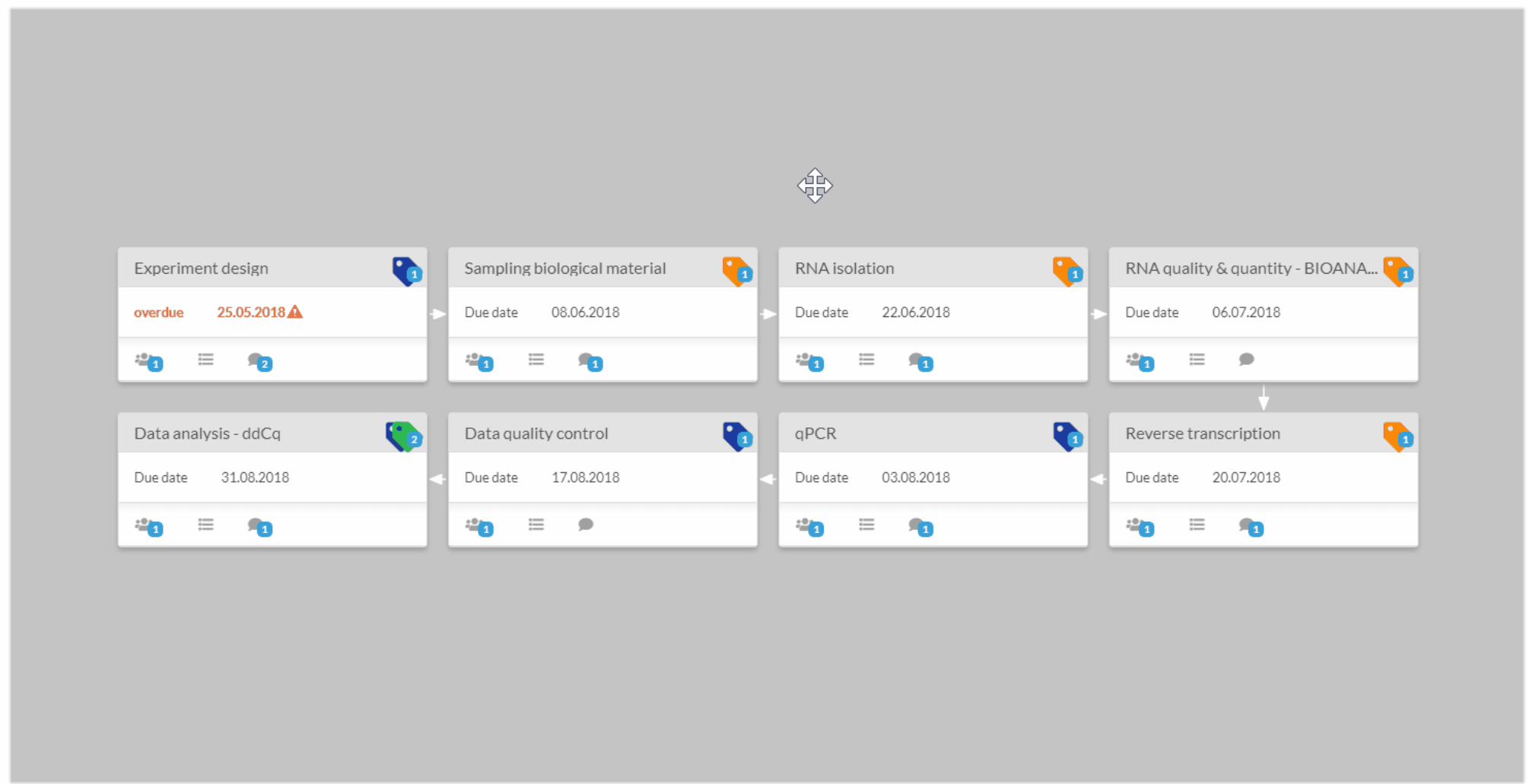
- ▼ Demo project - qPCR
  - ▼ My first experiment
    - Experiment design
    - Sampling biological...
    - RNA isolation
    - RNA quality & quantity ...
    - Reverse transcription
    - qPCR
    - Data quality control
    - Data analysis - ddCq

### My first experiment

TASKS ARCHIVED TASKS

Zoom:

+ New Experiment





- Projects
- Inventories
- Protocols
- Reports
- Activities
- Support
- Settings

▼ Demo project - qPCR

▶ My first experiment

### sciNote team

Sort by ▾

Demo project - qPCR	
Start date	18.05.2018

PROJECTS ARCHIVED PROJECTS

+ New Project

Sort by ▾

Create manuscript

+ New project



## sciNote Team

Cell culturing ▾

Start date 06.11.2017



Memory Loss Research ▾

Start date 15.07.2016













Demo project - qPCR ▾

Start date 07.04.2016



# Competition

KEY FEATURES	 sciNOTE	 Benchling	 labfolder	 docollab	 labguru	 labarchives <small>Chance Favors the Organized Lab</small>	 hivebench	 eLABJOURNAL® <small>A BIO-ITECH PRODUCT</small>	 RSpace <small>COMMUNITY</small>	 LabCollector
Well-designed GUI	✓	✓	✓	✓	✗	✗	✓	✓	✗	✓
Modular workflow	✓	✗	✓	✗	✗	✗	✗	✓	✓	✓
Adding tags	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓
Setting due dates	✓	✓	✗	✓	✓	✗	✓	/	✗	✓
Writing comments	✓	✓	✓	✗	✓	✓	✗	/	✓	/
Collaboration tools	✓	✓	✓	✓	✓	✓	✓	✓	✓	/
Data traceability	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Flexible document exporting	✓	✓	✓	✓	✓	✗	✗	✓	✓	✓
Experiment templates	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
All operating systems*	✓	✗	✓	✓	✓	✓	✗	✓	✓	✓
Cloud**	✓	✓	✓	✓	?	✓	✓	✓	✓	✓
Local installation***	✓	✗	✓	✗	✓	✓	✓	✓	✓	✓ private vps?
Mobile device compatibility	✓	✓	✓	✓	✓	✓	✓	✓	✗	✗
Open source	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗
Free account	✓	✓	✓	✓	✗	✓	✓	✗	✓	✓