



<LAB

FORWARD>

CONNECTING
LABORATORIES

labforward.io

Two decorative red lines are positioned on the left side of the slide. One line is a smooth curve starting from the top left and extending towards the top right. The other line is a straight line starting from the bottom left and extending towards the top right, crossing the curved line.

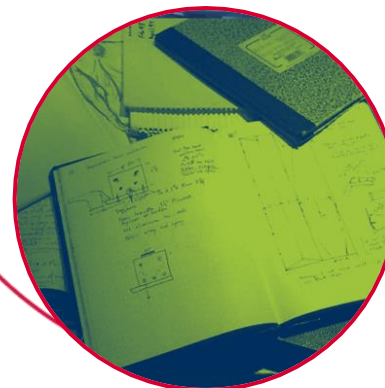
New Work

1. About Labforward
2. New Work
3. New Work in laboratories
4. Constraints

Scientists face extensive documentation efforts, repetitive tasks, errors and data loss.

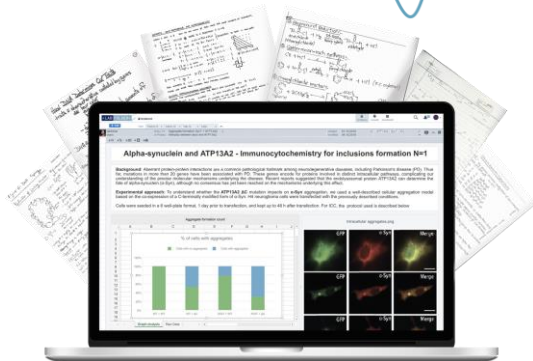


Connect hardware, software, and teams to streamline data acquisition and expedite groundbreaking discoveries.

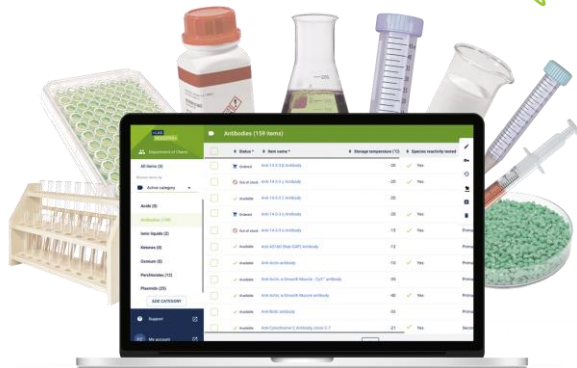


Our solutions enable the laboratory ecosystem to evolve.

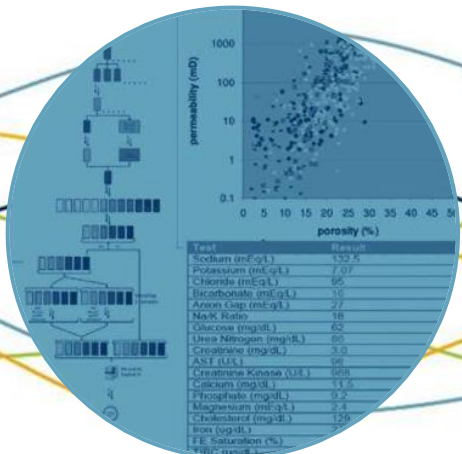
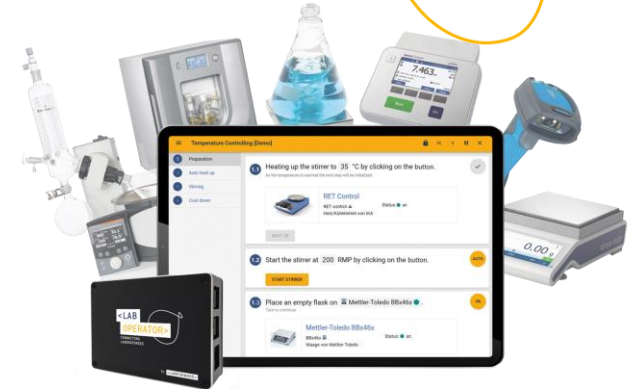
<LAB FOLDER>



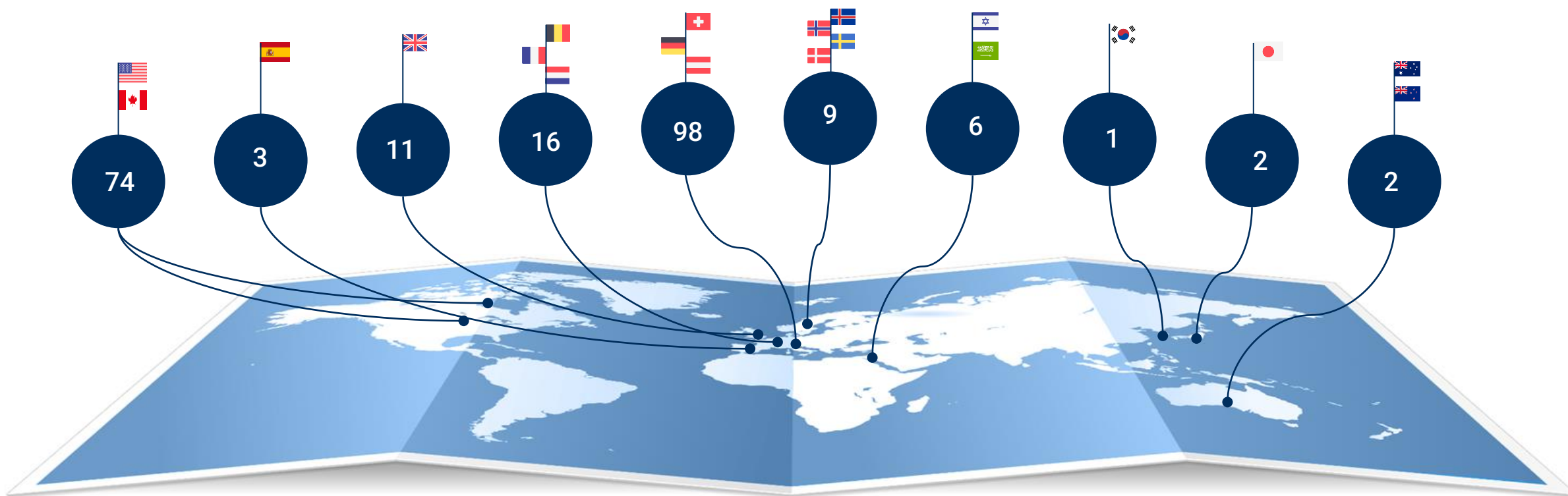
<LAB REGISTER>



<LAB OPERATOR>



50,000 + users, 220+ customers in 23 countries.

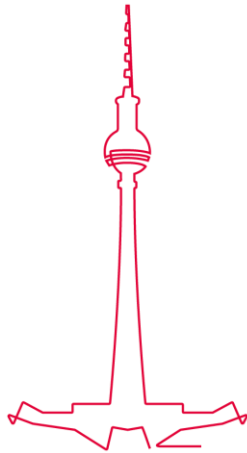


MAX-PLANCK-GESELLSCHAFT



(R)evolution made in Berlin.

- > 72 employees
- > 26 nationalities
- > 1 joint mission - assisting laboratory teams worldwide in their quest to make groundbreaking discoveries and provide high quality products.



BERLIN (HQ)

agile



international



dynamic



Old Work

- > originated in the age of industrialization
- > clear division of labor
- > fixed and clear hierarchies
- > fixed time structures
- > fixed location for work
- > monotonous tasks



New Work

- > originated in the age of digitization
- > interdisciplinary work
- > dynamic work relationships
- > email, mobile phone, etc.
- > remote work, “workation” etc.
- > creative tasks

What is New Work? Let's have a look at a textbook definition.

*"New Work is a collective term for **meaningful** and **forward-looking** work, a concept for a new way of working in the **global** and **digital** age. The demands on the employer, the workplace and the image of the employee are completely new."*

Why is New Work important for laboratories?

- > Generation Z & Y: Very digital affine / digital natives. Purpose-driven & flexible.
- > More creative tasks to solve than ever before: Especially in R&D, all low hanging fruits are long picked.
- > Labor shortage: As many other industries, the laboratory industry suffers from not finding people who want to spent a good amount of time in a difficult (and potentially hazardous) work environment.

What does New Work mean for pharma, chemistry, and other industries as well as laboratory technology providers?



Meaningful
= Purpose

- > Rebuild trust in science and technological progress
- > Enable a focus on creative tasks
- > Increase safety as the most basic purpose for humans



Forward looking
= embrace change

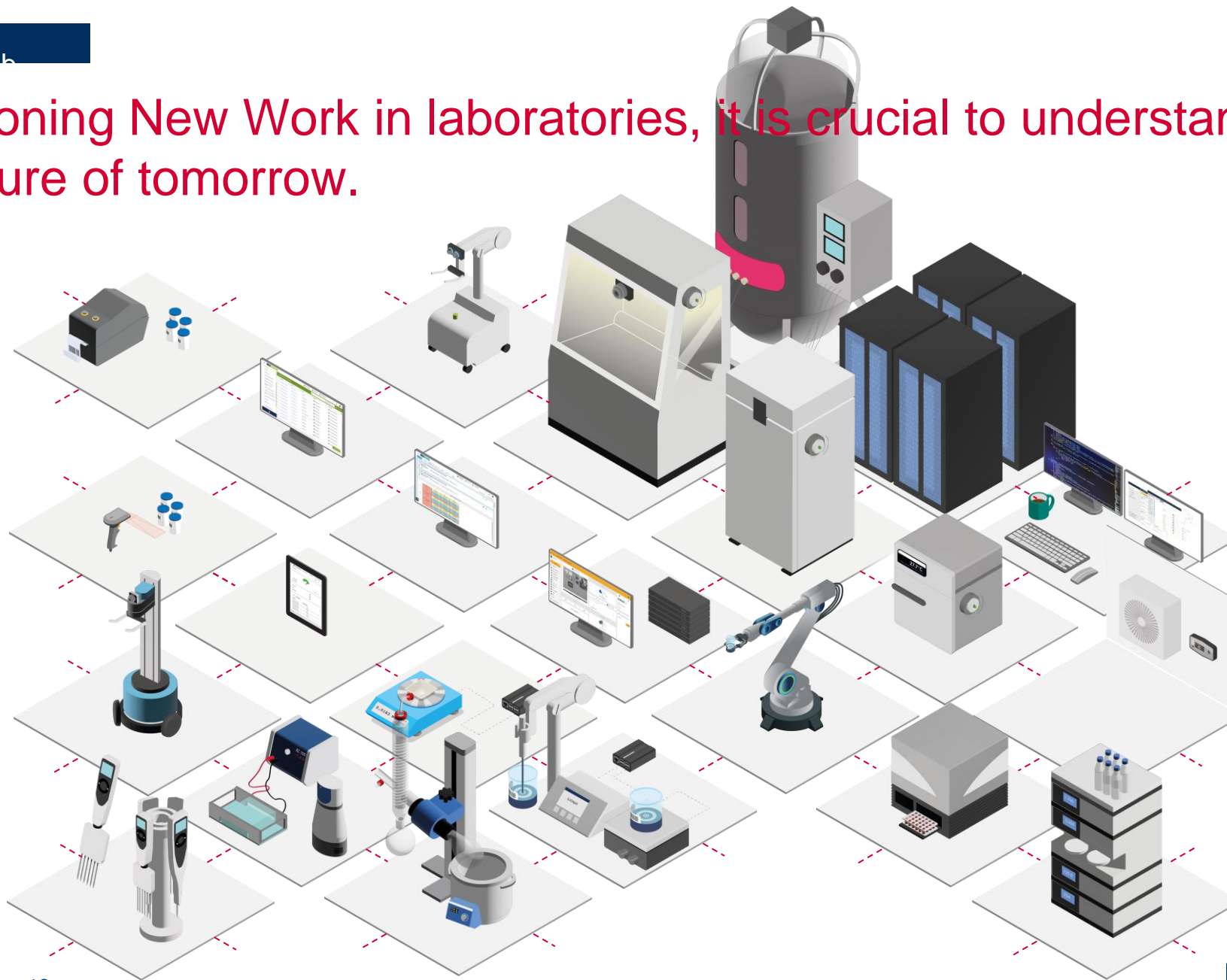
- > Enable digitization and automation
- > Make increasing complexity more manageable
- > Enable creative thinking



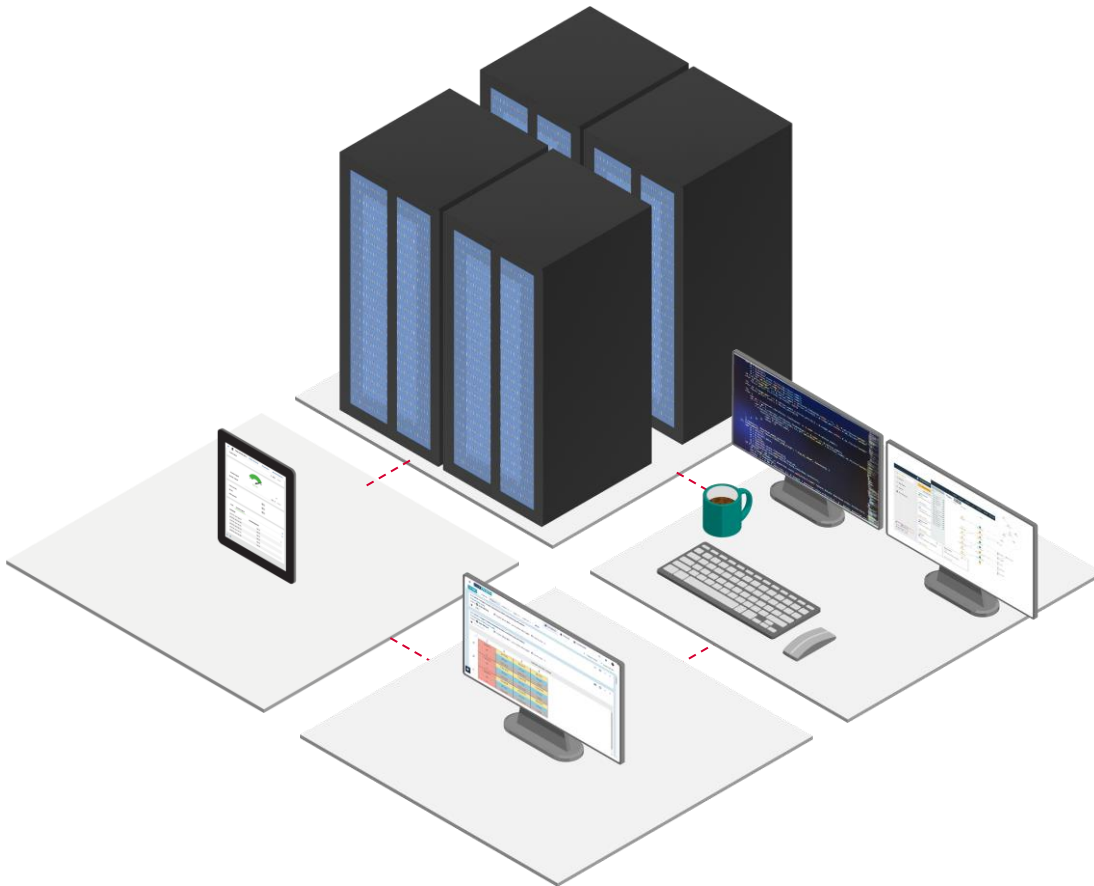
Digital & global
= more flexibility

- > Enable home & remote work
- > Collaboration
- > Share economy

For envisioning New Work in laboratories, it is crucial to understand the lab infrastructure of tomorrow.



More digital processes lead to more digital data which can be mined from home.



<LAB FOLDER>

Projects (1) Authors (0) Tags (0) Dates (0) APPLY

Entry 266/266 in Project: Labforward Demo

No entry title yet

Author: Jan Buch Created: 07.04.2022 Last modified: 27.04.2022 Custom dates

BATCH MANUFACTURING RECORD

Phosphate-buffered saline (PBS Solution)

Prepared by:	Jan Buch
Preparation date:	2021-11-03

Chemicals	Location
PBS(powder)	CS Düperthal-Schrank 1

BufferProperties	Value
AmountofPBS(powder)	2.47 g
pH Value	8

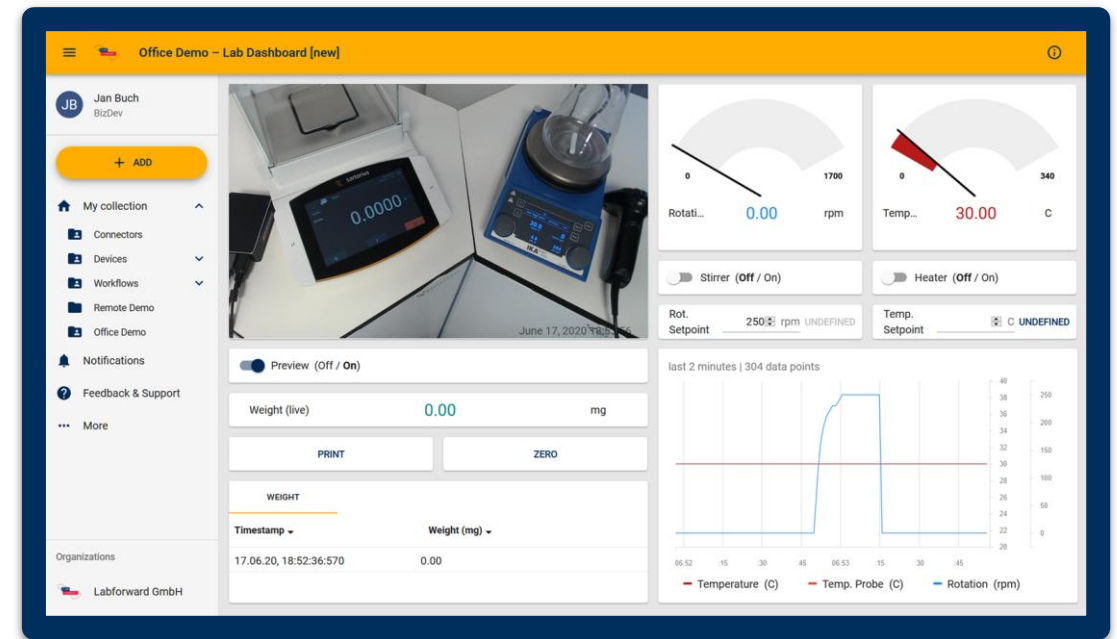
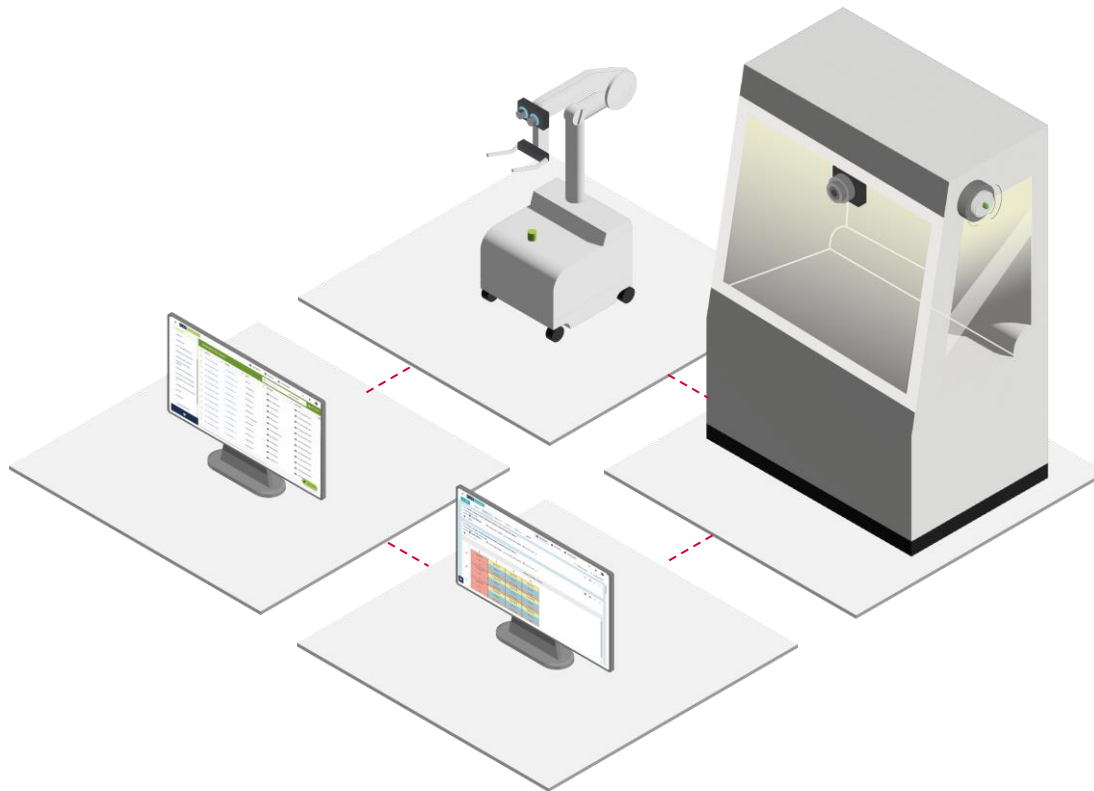
Location & Devices	
Workstation	CSS - Waldner Fumehood
Balance	CSS - Sartorius Cubis MSA
Stirrer	CSS - Mixer- 2mag
pH meter	CSS - Mettler Toledo pH Meter

Room Conditions	
Temperature: 22°C	Humidity: 45%

Cobots are offering flexible automation of routine laboratory tasks.



Workspace monitoring enables use cases for remote laboratory work.



New Work is not digital work! New Work and digital work are mutually dependent on each other.



Old Lab

- > Analog and manual work
- > The lab is the center of work
- > Each lab has its own space and equipment
- > Functional layouts designed for laboratory work only
- > Routine tasks for many, creativity for few

New Lab

- > Digital and automated
- > Flexible time and location structures
- > Shared equipment
- > Shared lab space
- > Layouts which foster collaboration and creativity
- > Less routine, more creativity

Where are the limits of New Lab Work?

- > Routine tasks → Some of them just have to be handled by humans working in a laboratory!
- > Digital → information security is more important than ever, especially in the lab industry
- > Global → recently we are seeing a de-globalization
- > Shared lab equipment → most likely some limitations in the regulated environment
- > ... (tbd)

Thank you for your attention! You're welcome
to connect with us:

simon.bungers@labforward.io

Labforward GmbH
Elsenstr. 106
12435 Berlin
+49 (0) 30 91572642
contact@labforward.io
labforward.io

<LAB

FORWARD>