

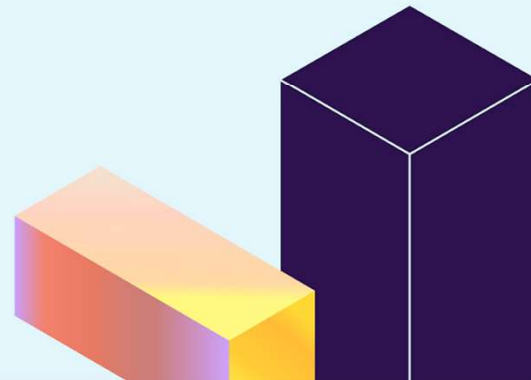
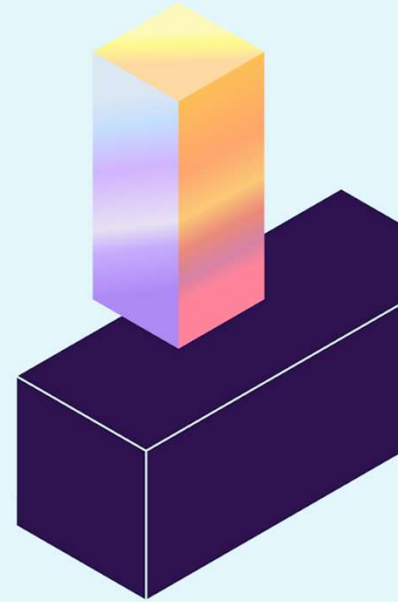
— IRI 2025 —

INNOVATING THE FUTURE



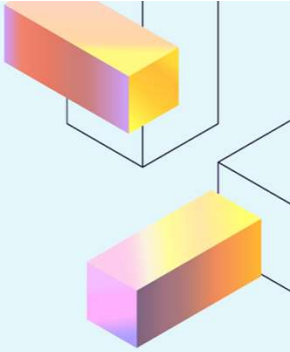
Facilitated Session: How to Build a Workforce of the Future

Seif Hagag, Enterprise Accounts Leader
Uncountable Inc.



Session Outline

- Introduction to Uncountable: 3min
- Introducing the topic - Trends in workforce: 5min
- Uncountable experience in R&D AI-enablement: 10min
- Breakout Discussions: 20min
- Bring back & share: 5min



About Uncountable

We are built for the enterprise environment and global teams.
Our mission is to accelerate R&D and to do that we need to help flatten the adoption curve.

With Uncountable



Collaborative Innovation

Develop the future of
lab software together



Smarter Data Management

Organize, connect, and
future-proof your R&D data



Scalable AI Solutions

Start small, scale fast pilot,
integrate, and grow AI-driven
workflows today

CLARIANT

Mondelēz
International
SNACKING MADE RIGHT

CABOT

Beiersdorf

BEHR

AGC



syngenta.

Lubrizol

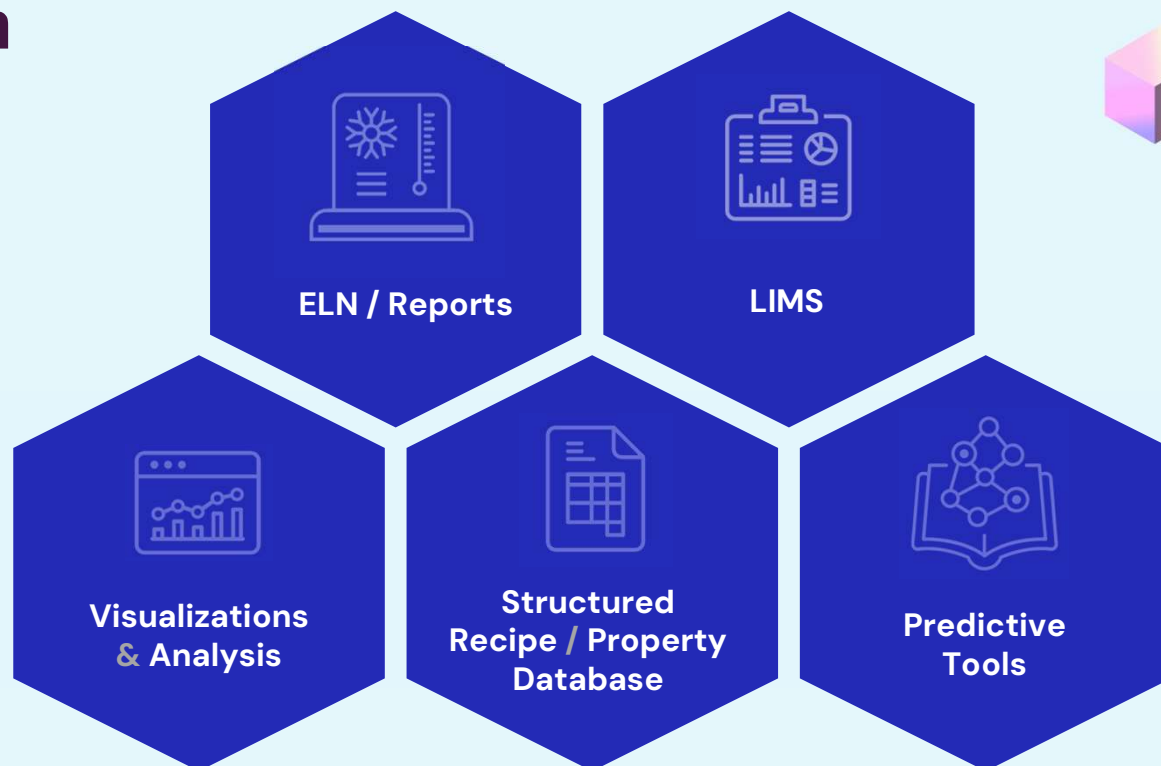


SunChemical
a member of the DIC group
Color & Comfort



We created the Uncountable platform

to centralize,
connect, and
structure all types
of R&D data





Centralize, Connect, and
Structure All Your Formulation &
Measurement Data





Our Expertise in R&D Digitalization


Uncountable's team brings scientific, technical, and digital transformation experience across industries


 **65+ delivery professionals** across **4 global offices**, combining deep R&D and digital transformation experience.

 **90% of our team holds advanced degrees (Masters or PhD)** in scientific or engineering disciplines.

 **Average 5+ years of experience** spanning laboratory research, process development, and software implementation.

 Expertise across **Chemical Engineering, Materials Science, Bioengineering, Chemistry and Computer Science** (among others).

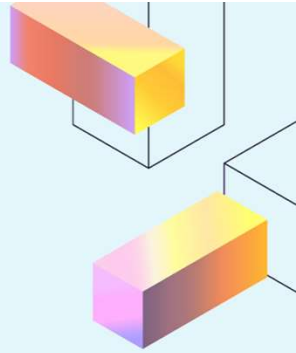
 **30+ Scientific Implementation experts** supported by **dedicated Account Management and Implementations Engineering teams** ensure continuity from rollout to adoption.

 Proven record leading **enterprise-scale LIMS and ELN transformations** across global R&D organizations.



Trends in Creating a “Workforce of the Future”

- *Upskilling teams to make better use of AI?*
 - *Ongoing Six-Sigma training initiatives or one-time course?*
- *Wider skills to look for during hiring process?*
 - *Scientists with a data background?*
- *Use of VR/AR tools in the workplace*
- *Digital twins and remote collaboration*



How can you prepare for AI enabled labs?



Accelerate Adoption cycles

Cloud

Retire legacy desktop tools (e.g. Excel), move from site-specific to global systems

Mobile

Enable last-mile data capture with tablets and phones



Democratize Access

- › Make LLM tools available to all scientists and technicians, not just admins or data teams
- › Keep experiment context stored with results



Centralize & Standardize Data

- › Adopt a connected ELN, LIMS, and analytics platform
- › Break down silos so AI can see the full picture

What is a scientist's role going to be?

Today

Scientists execute workflows

- Reconciling notes and transcribing data
- Searching across systems to find past work
- Managing compliance paperwork
- Repeating analysis routines
- Writing reports

Tomorrow

Scientists orchestrate and direct

- Pointing LLMs to content to synthesize & structure
- Ordering reports to be auto-generated & validated
- Overseeing compliance logs and audit trails
- Designing experiment strategy & innovation at scale
- Approving and managing experiment plans

Driving Successful Change Together

Digitizing Across All Levels of Your Organization

End-Users

Embrace new tools and data-driven ways of working.

Managers

Reinforce best practices and support their teams through transition.

IT & Digitalization Teams

Enable integrations, data migration, and system readiness.

Senior Leadership

Provide visible sponsorship and link change to strategic goals.

Change happens at every level — from scientists adopting new workflows to executives reinforcing the strategic vision.

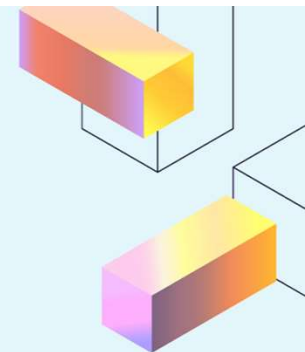
Each stakeholder group plays a critical role

Partner's Role: Guide, train, and support your teams through each stage of change — from design to full adoption.

Your Role: Champion the transformation internally — aligning people, processes, and priorities for long-term success.



People: Driving Adoption and Mindset Shift



Build champions

Identify internal technical and business advocates to lead the change.

Tailored training

Deliver role-specific onboarding for scientists, formulators, technicians and managers.

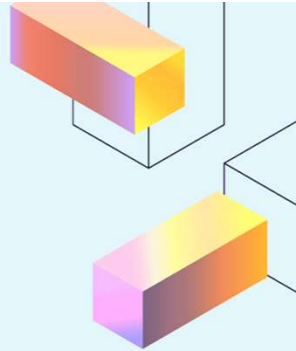
Encourage adoption

Address skepticism around replacing Excel, legacy LIMS/ELN, or custom tools.

Empower teams

Reinforce how Uncountable enables faster experimentation and smarter collaboration.

EXAMPLE IMPLEMENTATION PROJECT ORGANIZATION



Executive Project sponsor

Data Stewards

**Data Stewards – defining and creating
80% best practice templates**

BU 1

BU 2

BU 3

BU 4

BU 5

**Power Users – take on last
20% of implementation**

Power Users by Lab

Lab

Lab

Lab

Lab

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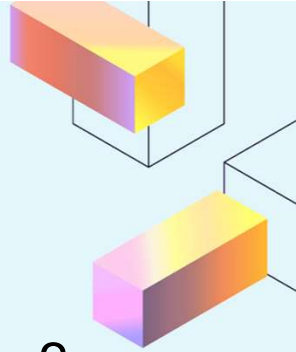
Lab

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Lab

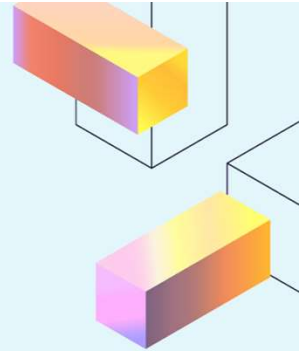


Breakout Discussion 20min



- How have you tried upskilling teams to prepare them for AI adoption?
 - *Data science courses*
 - *Enforcing data standardization/best practices*
 - *Reducing organizational silos/encouraging collaboration*
- What changes have you made to hiring strategies?
 - *Data-driven backgrounds*
 - *Requiring a pro AI adoption mentality*
 - *Proactive approach during onboarding*
- How have you leveraged AI, to not just improve existing workflows but to generally transform how your teams work in their day-to-day?

Breakout Session Takeaways



- Let's have a few tables share the important points discussed amongst each other
- What were a few challenges/barriers to enabling a workforce of the future?
- What are some foreseeable and actionable changes to be made in the next 3 years?
- Workbook assignment:
 - **What will I do the day after I get back?**
 - **What initiative will I start in the first month of next year?**
 - **What do I want to have accomplished by this event next year?**