

— IRI 2025 —

INNOVATING THE FUTURE



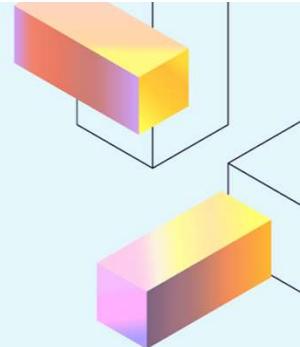
Facilitated Session: How to Build a Workforce of the Future

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 A logo consisting of the word 'CLARIANT' in a bold, black, sans-serif font with a small square icon containing a white 'e' to the right.



Mondelēz
International
SNACKING MADE RIGHT

syngenta.

CABOT A logo with the word 'CABOT' in a bold, black, sans-serif font with a small orange square icon to the right.

Lubrizol

Beiersdorf



BEHR A logo with the word 'BEHR' in a bold, black, sans-serif font with a small brown bear icon to the right.

SunChemical
a member of the DIC group Logos for SunChemical and DIC, with the text 'a member of the DIC group' in between.

AGC

DOW Logos for Dow and M. (Mitsubishi Chemical), with the text 'DOW' in a red diamond and 'M.' in a blue and white monogram.

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.

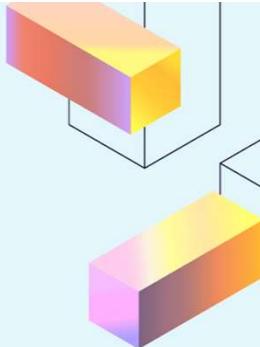
 **90% of our team holds advanced degrees (Masters or PhD)** in scientific or engineering disciplines.

 **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).

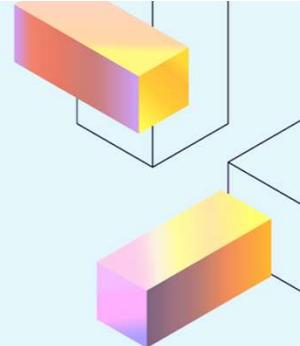
 **30+ Scientific Implementation experts** supported by **dedicated Account Management and Implementations Engineering teams** ensure continuity from rollout to adoption.

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

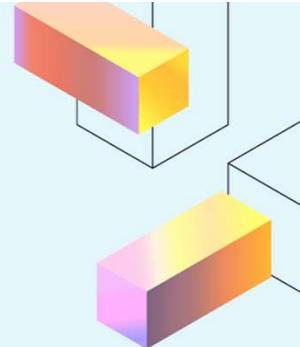


Trends in Creating a “Workforce of the Future”

- *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

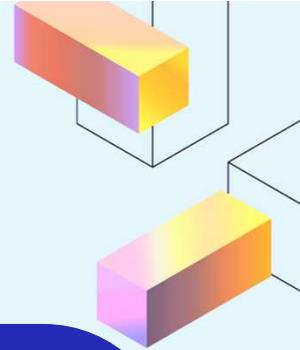
Scientists orchestrate and direct

- 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.

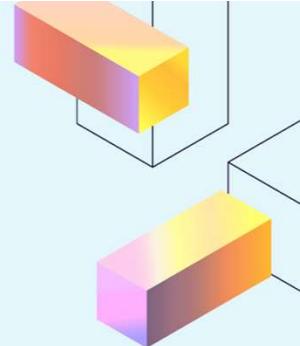
Each stakeholder group plays a critical role

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

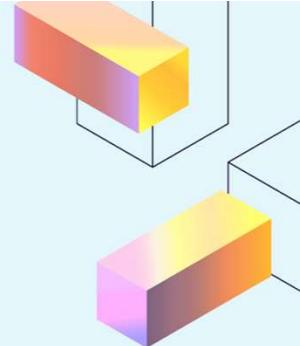
Address skepticism around replacing Excel, legacy LIMS/ELN, or custom tools.

Empower teams

Reinforce how Uncountable enables faster experimentation and smarter collaboration.



EXAMPLE IMPLEMENTATION PROJECT ORGANIZATION



Executive Project sponsor

Data Stewards

BU 1

BU 2

BU 3

BU 4

BU 5

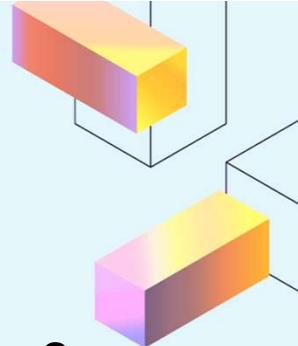
Data Stewards - *defining and creating 80% best practice templates*

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

Power Users by Lab



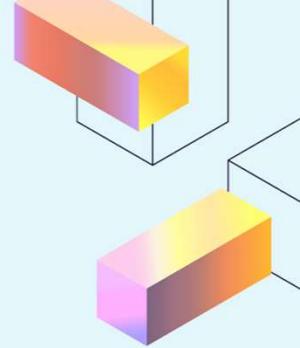
Breakout Discussion 20min



- 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?**