



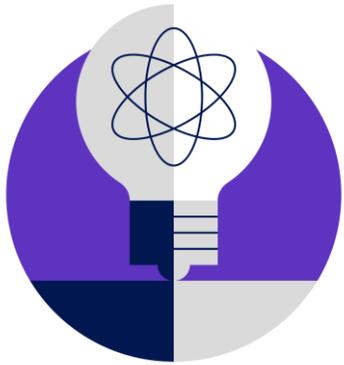
The bio revolution

Using data intelligence to capitalize
on technology convergence

June 28, 2022

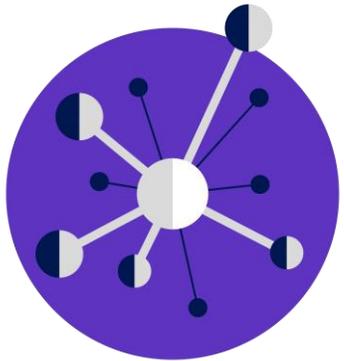
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What is the “bio revolution”?



“A **confluence** of advances in biological science and accelerating development of computing, automation, and artificial intelligence is fueling a new wave of innovation.”

— McKinsey Global Institute, 2020 Report¹



“Against a backdrop of digitalization and hyper-connectivity, disruption creates **convergence** nodes between previously separate industries.”

— Alison Key, EY Global Vice Chair for Industry²

¹ Source: The Bio Revolution: Innovations transforming economies, societies and our lives. McKinsey Global Institute (2020).

² Source: https://www.ey.com/en_gl/digital/what-happens-when-industries-collide

Meet the panel



Host
Vasheharan Kanesarajah
Head of Strategy, Clarivate



Anna Levchuk
VP, CMT Products,
Clarivate



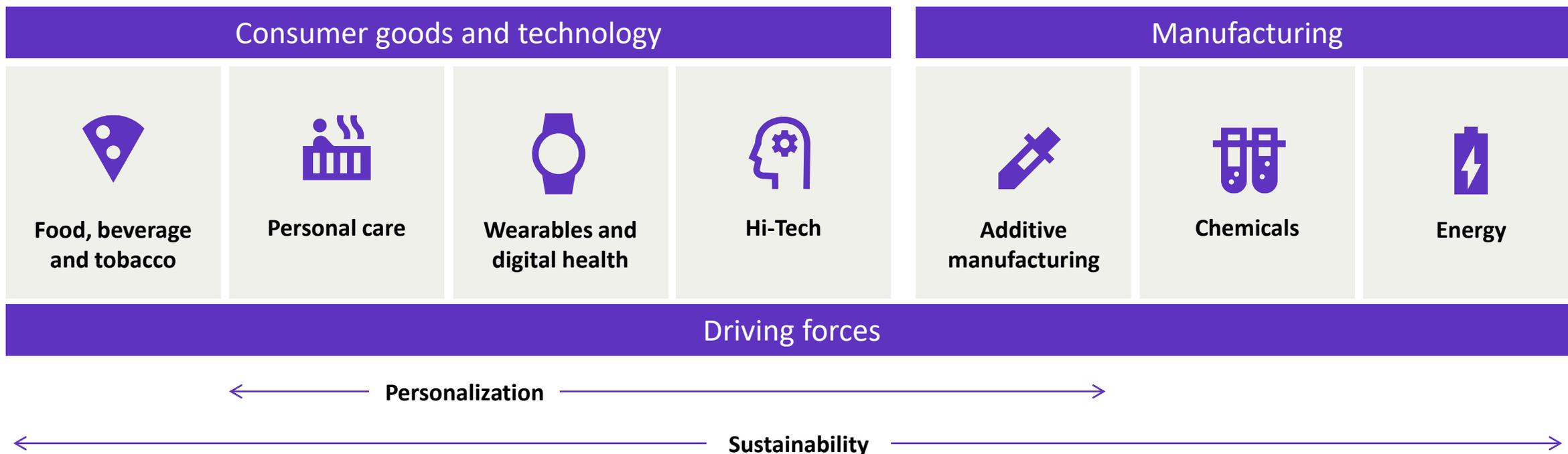
Vicky Zhou, Ph.D.
Partner & Director,
BCG Digital Ventures



Devin Yaung
Group SVP,
Enterprise IoT
Products and Services,
NTT Ltd.

A convergence of biological sciences

Across industries, the bio revolution impacts innovation, collaboration, regulatory issues and sustainability



A revolution with global economic impact

60%

of physical inputs to the global economy could be produced biologically

\$2-\$4T

direct annual economic impact from biological applications 2030-2040



35%

human health and performance



19%

consumer products and services – 2/3 driven by personalization



36%

agriculture, aquaculture and food



8%

materials, chemicals and energy

Source: The Bio Revolution: Innovations transforming economies, societies and our lives. McKinsey Global Institute (2020).

Data plays a central role in the bio revolution

Multiple data types in play across different industry sectors

Consumer Goods

- Clinical trials data
- Epidemiology, genetic data
- Textiles and special coatings data
- Sensor data
- Regulatory data
- Social Intelligence
- Toxicology and safety data

Application examples:

- Cosmetics/personal care
- Nutrition
- Smart textiles

Manufacturing

- Chemical formulation data
- Safety data
- Environmental data
- Regulatory data

Application examples:

- Medical devices/consumables
- HVAC system design
- Water purification

Technology

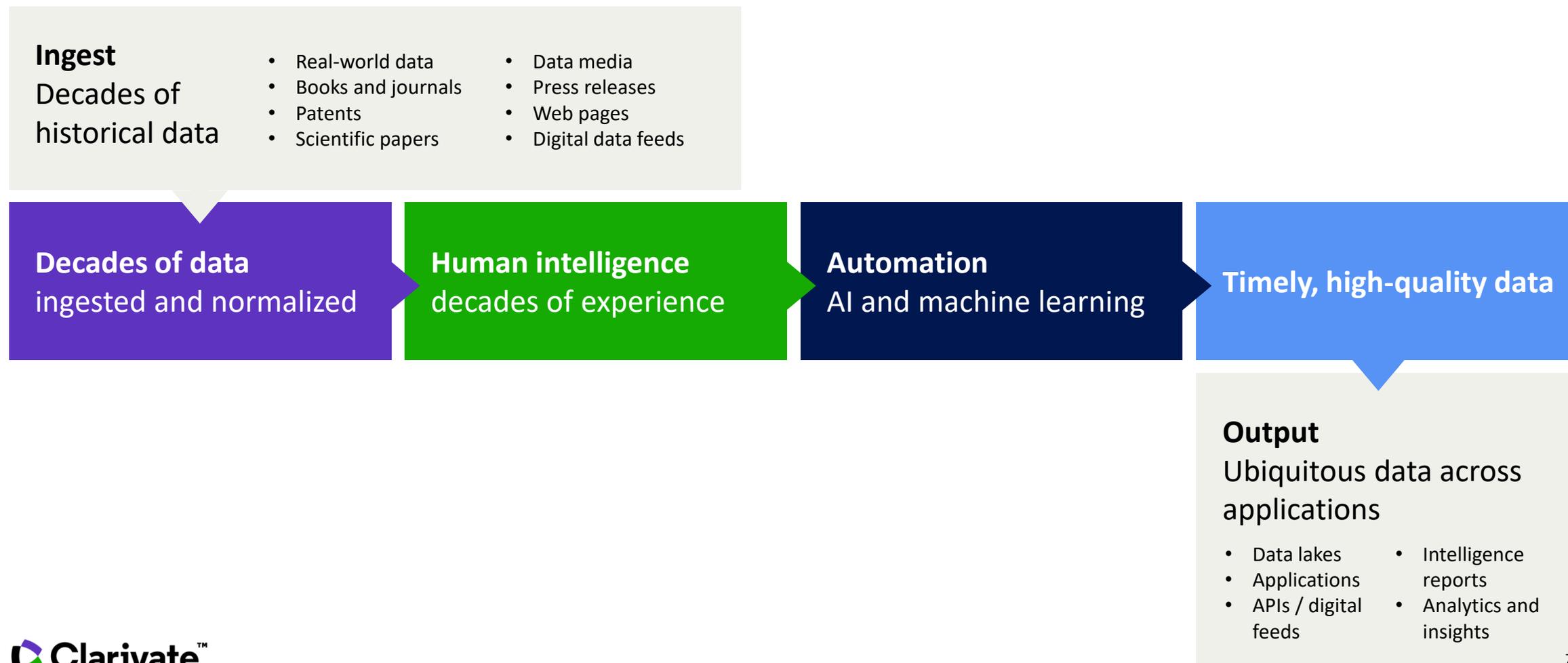
- Clinical/diagnostic data
- Sensor data/wearables
- Disease monitoring data
- Operational data
- Geolocation data
- Genetic data
- Safety data
- Regulatory data

Application examples:

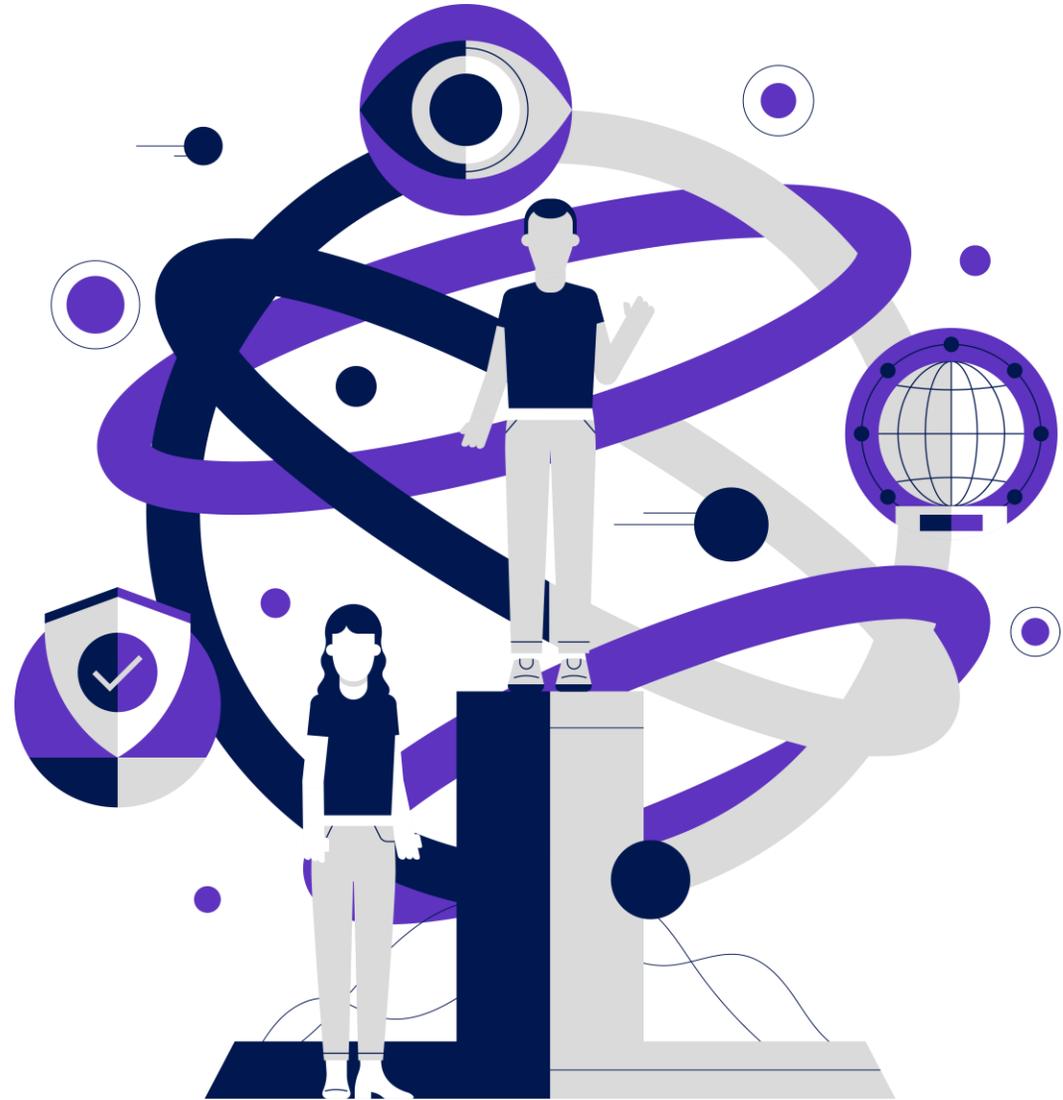
- Care personalization
- Automated diagnostics
- Medical asset monitoring

Challenge: bringing together disparate data

The key to unlocking insights that drive innovation



What's next for the bio revolution?

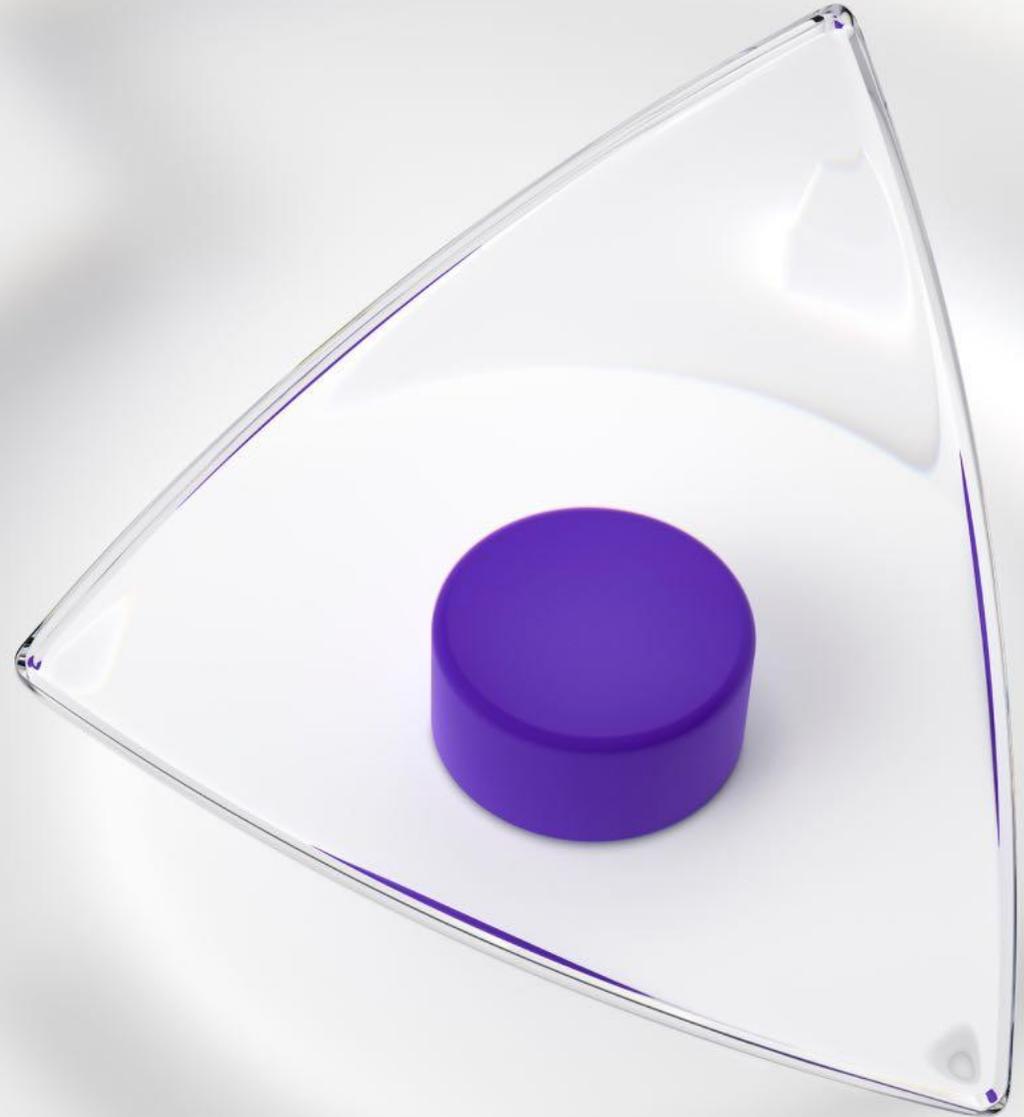


Q&A

Please type your question into the Q&A box on your screen.



Thank you



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