

We are a trusted advisor to healthcare and life sciences clients, bringing global best practices and innovative solutions worldwide

Global network of ~6,400

healthcare and life sciences professionals offering diverse skills and talents

30

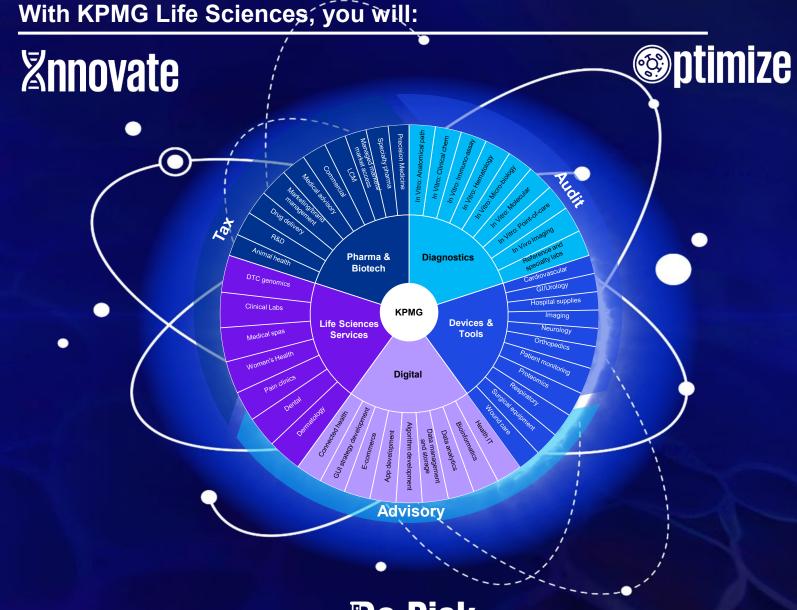
Countries within the global network offering key geographic-specific insights

Transaction to Transformation

Diagnostics and Life Sciences Tools and Services

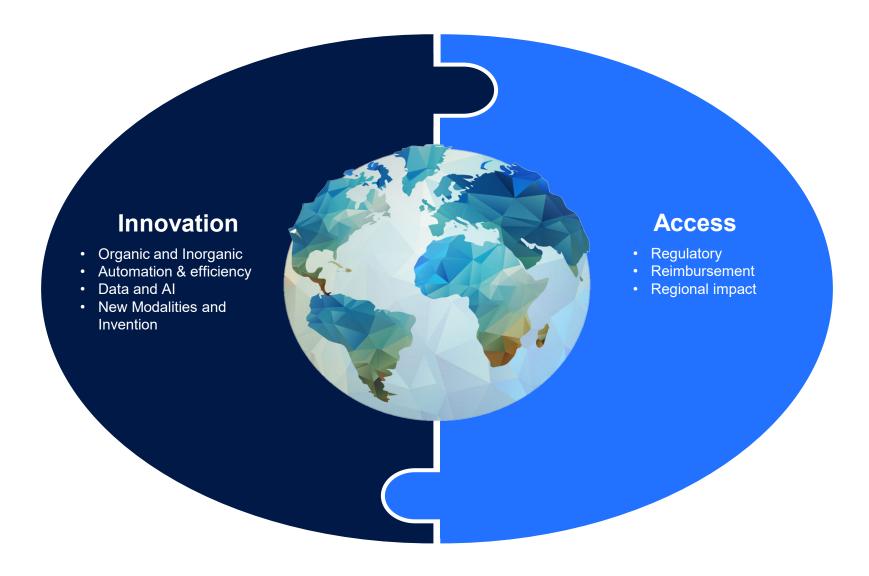
Our experience, our thought partnership, and our proprietary methodologies will take life sciences into the next frontier

Let us be your answer.





The diagnostic laboratory medicine community is vital in providing innovation and access to patient populations throughout the globe





Inorganic deals flourished throughout diverse sub-segments of the diagnostic landscape

>100

2023-2024 LS Dx Tools & Services Deals



>60 **Diagnostic Product Deals**

Peptides Spatial omics Neuro IVDs platforms Sample Consumables & Lab automation **POC** testing loaistics reagents platforms **Cytometry platforms** Liquid biopsy **Antibodies** Home self-test Radioscopic kits **IVDs** AI/ML cancer **Assays** Al-protein design detection Nano-based Spectroscopy enrichment Diagnostic hardware **Next-gen sequencing** software

Diagnostic Lab **Service** Deals

Genetic & genomic testing **Target analysis** Cold-chain storage

Lab hardware Regulatory maintenance audit services **Prenatal Pharmacogenomics** testing testing Clinical pathology **Oncology testing** Clinical **Treatment** immunochemistry monitoring

Source: KPMG Deal Advisory Analysis June 2024

From 2023-2024, innovation ranged from traditional cell biology applications to emerging molecular based tools



Anatomical

Molecular

Cytology



Printed and coated slide technology



Fully automated, flow-based live cell imaging





Single-cell phenome analysis

Immunohistochemistry



ELIspot cytokine detection technology







Fully automated spatial omics and IF

*****carterra



High throughput antibody characterization

PCR



Low-cost POC rapid molecular testing



3EO



"Walk-away" automated digital PCR

CRISPR-based





Single cell pooled CRISPR screen kit



Rapid, ambient temp. detection kits

Sequencing





High throughput, short-read sequencing with novel clustering





Scalable, mobile, variable length nanopore sequencing



Automated and digital technologies are continuing to increase efficiencies in the lab



while allowing patients to track themselves resulting in an increase

High-throughput automation

Rapid PCR-based Dx & next-generation sequencing

Digital pre-analytics and logistics

Mobile self-tracking









- High-throughput robotics and modular automation
- Critical "work horses" in today's labs
- Systems becoming more sophisticated and connected
- Perform advanced protocols while providing real-time feedback and data

- Molecular based rapid detection for high specificity and accuracy
- Expanding disease menus
- Sample-to-result within minutes
- Next-gen long read sequencing for instant sample identification for labs of all sizes and those onthe-go
- Error free digital sample accessioning at the site of collection in the lab or in the field
- Real-time courier sample tracking
- Sample environment and time sensitivity monitoring all the way to site of testing
- Patients can get real time diagnostics 24/7
- Devices are connected and data is tracked on smartphone devices
- Can measure biometric markers like pulse, temperature, oxygen, metabolic, and now even blood proteins

More diagnostic data is being produced in real time, faster, and in higher volume than ever before



Inorganic moves in AI have begun making an impact. AI is expanding not only in diagnoses but also throughout applications in discovery and development







Artificial intelligence and machine learning Diagnosis

Discovery & Characterization

Drug Development



Acquired in 2023 by: Renovaro



- Al technology and algorithm combines multi-omic and multimodal data
- Has already been validated for early diagnosis of lung cancer in addition to 12 other cancers including pancreatic and breast



Acquired in 2024 by: Johnson Johnson

- **Utilizes computational** machine learning, high-throughput cellular assays, and nextgeneration sequencing to design proteins
- Serotiny's therapeutic multi-domain proteins utilized by Tessera and Janssen pharmaceuticals



Merged in 2024 with: Linceis Capital

- Uses generative AI in developing drugs and to design new molecules and innovate drug discovery
- Selected by over 12 pipeline partners including Adaptv Biosystems, Diag-Nose medica, Signalchem Biotech, and others



clinical lab flows but requires addressing the need for an easy-to-use, fully automated platform

Applications of mass spectrometry

Clinical diagnostics

Proteomics

Metabolomics

Pharmaceutical

Forensic analysis

Environmental analysis

MS services market

- OEM technical expertise
- Maintenance and repair









MS instrumentation product market



- High throughput
- √ Compact, benchtop
- **✓** Digital interface



"integration of automation into the proteomics field will continue to become indispensable, providing scientists with a means to explore further" -GM of robotics company

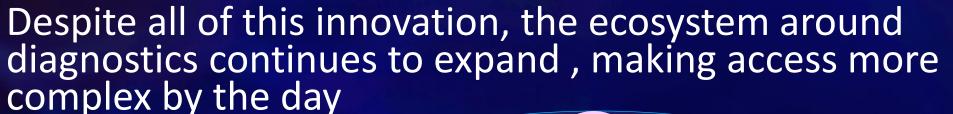
2024-2025

Fully automated platforms?

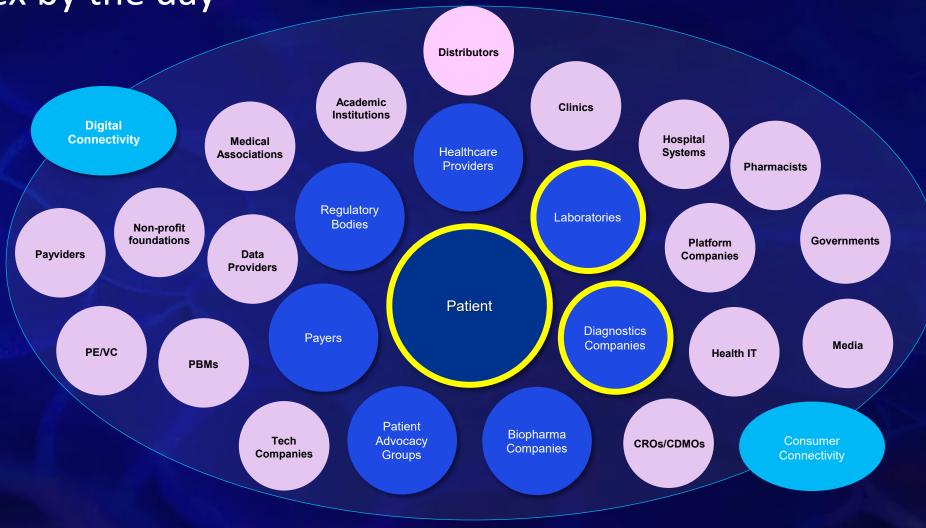
"Becoming more user-friendly, standardized, and accessible, a significant challenge for the industry remains the upstream bottleneck of sample preparation"
-Professor and co-director of

proteomics, Academia











Communities worldwide have faced challenges in gaining market access for diagnostic products and services



NIH collaborates with diagnostics manufacturers on obtaining authorization of multiplex tests

Illumina completes the divestiture of GRAIL
June 2024

June 2024

FDA Takes Action Aimed at Helping to Ensure the Safety and Effectiveness of Laboratory Developed Tests April 2024

Everyone agrees
South Korea needs
more doctors—
except the 9,000
doctors on strike
July 2024

European Commission welcomes adoption by EU Parliament of measures to improve the availability of in vitro diagnostics April 2024

The Clinical and Laboratory Standards Institute Announces the Publication of New Antimicrobial Susceptibility Testing Documents

March 2024



Regulation and policies within the diagnostic landscape impacts

major global regions
"The FDA's lab developed test rule (21 CF809) could be first check on agency's power post-Chevron"

"The implementation of EDUAMED has made the end of 2024 a year pivotal for regulatory publications affecting the IVD space"

"Mexico's COFEPRIS
2024 plans seek promote
regulatory certainty, improve
confidence in its processes,
and expand digitalization
as a strategy to speed
approvals"

"ANVISA's 3-year plan for Brazil seeks to adopt the Identification of Medicinal Products (IDMP) standard, to continue its efforts for medical device Unique Device Identification (UDI); and modernize its data platforms"

"EU Artificial Intelligence Act (AIA), establishes a legal framework to promote the uptake of "human centric and trustworthy" AI for medical devices, IVDs and other products"

> "China's NHSA moves to standardize medical consumable reimbursements is a significant step toward more equitable healthcare access."

> > "India's National Medical Device Policy 2023 growth strategy ensures access to patient-centric and affordable healthcare products and targets a \$50B market in the next 5 years"



....and affects the overall patient experience, as seen in our precision medicine documentary



Connections in Precision Medicine
A Documentary by KPMG

Starring:

Patients, Providers, Laboratorians, Payers, and Industry Executives

Executive Producers:Kristin Pothier and Alasdair Milton





























Agenda today















Mark Girardi Principal, Head of IVD, Diagnostic Consulting, IQVIA Kaitlin Vautour Consultant, IQVIA





Data Analytics at Work in the Clinical Lab

Dr. Gabriel M. Garcia Clinical Innovations Specialist, TriCore Reference Laboratories

Marci Dop Vice President of Enterprise Lab Operations, ELLKAY

Connections in Precision Medicine Documentary Break/Networking Time



Agenda today





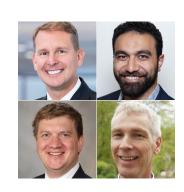


Deal Making in Global Life Sciences

Jessica Lin Partner, Life Sciences Strategy, KPMG LLP



FluidAl



Perspectives on the International Fundraising Environment for Tools and Diagnostics Companies

Christoph Brandonbarger Managing Director, BCL & Company

Christoph Brandenberger Managing Director, BGL & Company Tony Ebert Laboratory Services & Partnership Director, Mayo Clinic Martin Verhoef Chief Business Officer, OMAPix Youssef Helwa CEO, FluidAl Medical





Wrap-up/closing remarks

Kristin Pothier Global & National Healthcare & Life Sciences Strategy Leader, Deal Advisory and Strategy, KPMG LLP



As we kick off ADLM 2024, how are each of us contributing to both sides of this equation in a positive way?

