



# Future Stewardship of OpenLMIS and Collaboration with IQVIA

6 November 2019

Concept Note by IQVIA

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# OpenLMIS is an open source, web-based system which manages supply chain processes across 12,000+ facilities in 10 geographies

Our understanding of the current context of OpenLMIS



### **OpenLMIS Overview**

• The OpenLMIS community is a consortium of over 20 leading global health implementation and technology partners

#### Unique selling points: supply chain visibility designed for LMICs context

Empower countries to own, customize, extend and manage the system as an open source resource Designed for lowinfrastructure environment in lowmiddle income countries (LMICs) Interoperable across various health information systems

Flexibility to be tailored for country-specific needs

Availability of support community to allow knowledge exchange

#### Features: ordering, reporting and inventory management services



Modular Architecture for Extensibility



Requisitions (Ordering)



Stock Management and Local Fulfillment (Inventory Management)



Reporting and Analytics



Vaccine Management



Standards

**Current Status** 

Today, OpenLMIS is focused on public sector supply chains in Sub-Saharan Africa with a donor-driven approach. One new nation-wide roll-out is funded roughly every 12 months.



# The OpenLMIS community is looking at potential partners to provide stewardship and support a pathway to sustainability and broader use

# Concept Note Overview

### **Overall Objective**

 The OpenLMIS community is evaluating potential partnership and stewardship models to broaden implementation of OpenLMIS and determine the appropriate business model for sustained use, keeping the principles of financial sustainability and open-source public good in-mind

### **Today's Discussion**

- Discuss the opportunity and risks associated for IQVIA to steward the OpenLMIS community and technology to explore its commercial product potential
- Discuss options for financing and governing the transition process, and associated timelines

### **Key Considerations**

- Organizational capacity: Does this partner have a proven track record of managing grant and investment funds and successfully running a businesses in the tech/software arena in LMIC country settings?
- Sales force and channel partner strategy: Do they already have a sales force or channel partner relationships to sell in our target markets?
- Product Synergy: Do they have other product offerings for private health clinics, hospitals, pharmacies, or government health ministries? Or anything similar/adjacent/synergistic?
- Open Source Compatibility: Do they have experience working with open source software? Do they commit to keep OpenLMIS open, including with dual-licensing, compatible with our values?
- Community Partnership: Will they be able to work with the existing OpenLMIS community and implementations to support and involve them?



# IQVIA envisions a future freemium OpenLMIS+ which retains the existing product as a free to use public good alongside other fee-based offerings

OpenLMIS+ Vision

	Core Product: OpenLMIS  Maintain as open-source and free to use	Premium Product: OpenLMIS+ Develop as commercial software
Product	Existing clients will continue to have access to the OpenLMIS product developed to date	Existing and new clients will have access to the same core OpenLMIS product for free, with option to access OpenLMIS+ features for a fee
Maintenance and support	Basic maintenance will be provided	IQVIA service team will arrange service level agreements with clients and troubleshoot accordingly
Enhancements	Further enhancements to the open-source version of the product subject to available funding	IQVIA and OpenLMIS development team will maintain a user group to review product change requests and develop new functionalities
Implementation	Support for new implementations subject to available funding; open for use by other OpenLMIS partners	IQVIA will be responsible to support and service new implementations; open for use by other OpenLMIS partners
Value-add services	Value-add services like analytics, insights & reporting can be provided as part of data sharing arrangements	IQVIA will explore opportunities to develop data offerings and support services (e.g. advisory, analytics)

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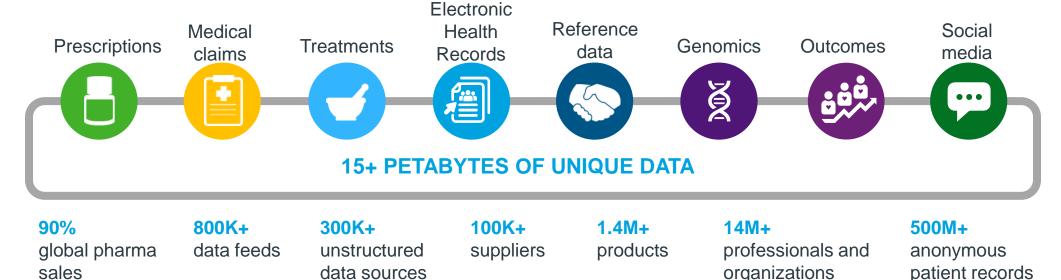


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# IQVIA is home to the world's largest healthcare data set, which is used to support our solutions



#### Interoperable technology driving

- Data visualization
- · Advanced analytics
- Actionable insights
- Commercial success

#### Deep healthcare and technology domain expertise

55,000+ Experts serving clients in 100+ countries

2,500+ Advanced analytics / data scientists / statisticians

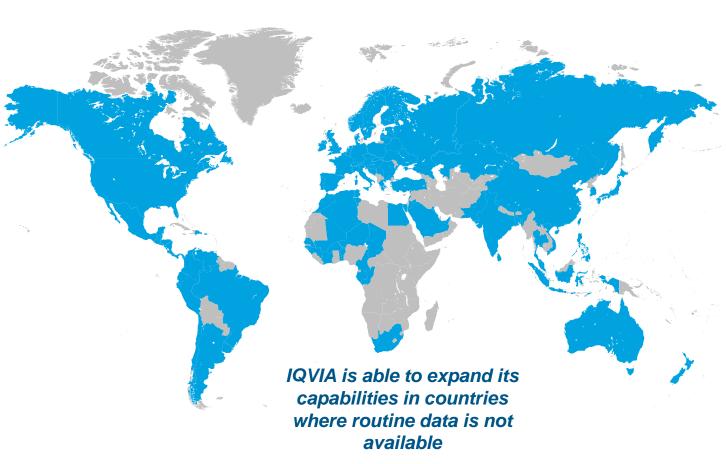
850+ Epidemiologists / RWI experts 4,500+ Technology experts 1,400+ PhDs 6,000+ Service experts

1,100+ Medical doctors



# IQVIA's data analytics provide clinical and pharmaceutical market insights in over 100 countries

IQVIA global market data



#### Countries/regions covered through local audits

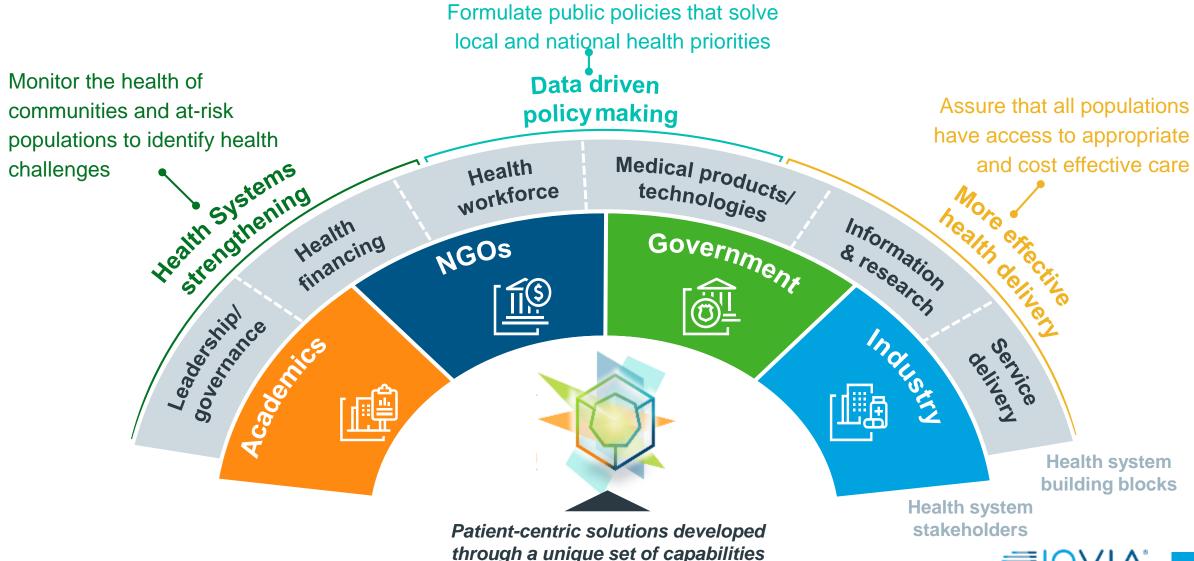
- Algeria Argentina
- Australia
- Austria
- Bangladesh
- Belarus
- Belgium
- Bosnia
- Brazil
- Bulgaria
- Canada
- Central America<sup>1</sup>
- Chile
- China
- Colombia
- Croatia
- Czech Republic Denmark
- Dominican Republic •
- Ecuador
- Egypt
- Estonia
- Finland
- France
- French West Africa<sup>2</sup>
- Germany

- Greece
- Hong Kong
- Hungary
- India
- Indonesia
- Ireland
- Italy
- Japan
- Jordan
- Kazakhstan
- Korea
- Kuwait
- Latvia
- Lebanon
- Lithuania
- Luxembourg
- Malaysia
- Mexico
- Morocco
- Netherlands
- New Zealand
- Norway
- Pakistan
- Peru
- **Philippines**
- Poland

- Portugal
- Puerto Rico
- Romania
- Russia
- Saudi Arabia
- Serbia
- Singapore
- Slovakia
- Slovenia
- South Africa
- Spain
- Sri Lanka
- Sweden
- Switzerland
- Taiwan
- Thailand
- Tunisia
- Turkey
- Ukraine
- UAE
- UK USA
- Uruguay
- Venezuela
- Vietnam



# IQVIA works across public and private institutions in the health system to address key barriers to high-quality, cost-effective care



# To strengthen health systems, we need to develop innovative data solutions and strong data governance models

IQVIA's flow of medicines data framework



#### **Health Outcomes**

Epidemiological data including incidence & distribution of diseases and other factors relating to health

# **Market Dynamics**

Economics of supply and demand of medicines, measures of market health



### **Product Availability**

Measures of on-shelf availability, inventory management & service delivery



#### **Medicines Use**

Assessment of whether patients receive clinically appropriate medication





- IQVIA's vision is to develop data assets and capabilities which capture the end-to-end flow of medicines and health commodities
- Market dynamics, product availability and medicines use are the core underlying pillars
- There is an opportunity to integrate OpenLMIS into IQVIA's solutions and offerings to improve insight into on-shelf product availability



# **Healthcare Financing**

Methods of securing and deploying funds to cover population health needs



# IQVIA's product availability offerings measures on-shelf availability, inventory management & service delivery



Product Availability Offerings

IQVIA Data Offerings Use Cases



### **Drug Distribution Data (DDD)**

Monthly reporting of all registered pharmaceutical drugs in retail and non-retail drug sale



 Monitor sub-national sales trends to understand access and channel availability



#### **mClinica**

Pharmacy survey platform with the largest community of pharmacy professionals in Asia



 Leverage SwipeRx platform to collect information on stock-outs & on-shelf availability from pharmacists



#### **Order Genie**

Pharmaceutical e-Commerce platform for health facilities to order from stockist and wholesalers



 Develop regional, provincial and district-level estimates of drug availability and sales using real time transaction and sales data



#### **Barcoding Technology**

Provides security for over 1.2 billion packages around the world by using barcoding technology to track drug movement and distribution



- Verify authenticity of medicines quality, explore trends in counterfeit medicines through the distribution system
- Inform policy decisions on drug quality monitoring



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# Healthcare industry is facing many forces of disruption which affect increasingly complex operational models

Forces of Change	Stakeholders	Disruption	
Regulatory push for innovation and patient centricity	> Pharma	Need for more patients, faster, more specific populations	
\$ Shifting reimbursement models		Need for more patient information and data outside of clinic visits	
Push for innovation and lower costs	——→ Payers ———	→ Better understanding of the patient holisitically	
Personalization of healthcare	——→ Big Tech ———	→ Broader touchpoints with patients on health	
Rising costs and high expectations for care	——→ Patients ———	→ Personal data and understanding of own health	

# IQVIA is a global technology partner for healthcare companies from concept to launch in the era of orchestration



### **Clinical**

Modernizing clinical development for efficiency

# Real-world evidence

Increasing the ability to learn from clinically rich data, quickly

# Compliance

Simplify regulatory, compliance & quality complexities

# **Commercial**

Delivering more valuable customer experiences and better ROI

# IQVIA's organizational infrastructure supports a suite of IQVIA technologies for healthcare clients

SaaS solutions and applications transform the way you can make decisions

Best-in-class platforms configured to maximize value for life sciences and healthcare

IQVIA infrastructure curates, platforms and transforms data to make it fit-for-purpose

Foundation of unparalleled data from 900k+ sources



- Our healthcare experts design technology for other healthcare experts
- We configure leading platforms to unleash new healthcare functionality
- Embedded machine learning "trained" by industry's leading data and experts
- Our technologies are interoperable to create seamless workflow

# **Lexi**Seamless connectivity

APIs from IQVIA and ecosystem partners have created the standard for frictionless integration of applications and data sources

# Ada Embedded intelligence

Intuitive, consumer-grade user experience to drive adoption and enable transformation

# Apollo Intelligent design

Roadmap with a new stream of innovations to address your challenges today and tomorrow



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# As part of IQVIA Technologies, IQVIA would improve the OpenLMIS offering, support data management and coordinate go-to-market

# What value IQVIA can bring to OpenLMIS



IQVIA is a global health data science company founded in 1954 and is a leading global provider of healthcare information, clinical research, advisory & consulting and innovative health technologies – with a focus on using analytics and science to improve health outcomes.

With six decades of experience, IQVIA operates in over 100 countries and serves more than 5,000 organizations and decision makers around the world including government agencies, donors, policymakers, researchers, life science and healthcare companies, consumer health and medical device manufacturers, distributors, providers and payers

- Integrate
  OpenLMIS into
  IQVIA
  solutions suite
- Under the IQVIA umbrella, OpenLMIS would be able to leverage an existing global organizational backbone: HR, finance, legal, salesforce, product development and technology teams
- IQVIA can support the management of vendors and partners, and bring stability to OpenLMIS development process
- Improve the core product and data standards
- IQVIA would support OpenLMIS in adopting a **master data management** system to ensure that data is standardized and internationally comparable, and **establish data use agreements**
- **Develop freemium product offering** which reflects localized needs of various customer segments
- Build business model for technology & services
- IQVIA can support OpenLMIS to commercialize and **achieve financial sustainability** through a go-to-market strategy which taps into new customer segments in existing markets with OpenLMIS and new markets where IQVIA has in-country salesforce

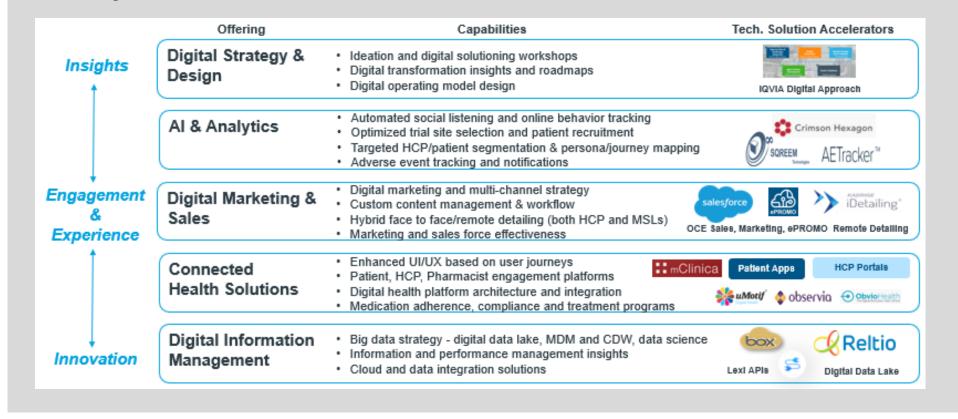
# IQVIA would bring OpenLMIS under the umbrella of IQVIA Technologies, which range from digital strategy & design, to information management

Synergy between IQVIA and OpenLMIS



#### **Examples of IQVIA Technology offerings**

IQVIA has a family of best-in-class technologies, exclusive partnerships, and advanced analytics capabilities to serve a range of clients



# IQVIA will also bring OpenLMIS into a family of technology partners and products, which operate in similar LMIC supply chain contexts



# hello HEALTH



# ALLIED WORLD

#### **mClinica**

**OrderGenie** 

 mClinica provides a multipurpose mobile platform for pharmacy professionals, currently being used by 65,000 pharmacists across Southeast Asia

#### **Hello Health**

 Hello Health provides the technology-enabled platform and services that allow practitioners to enhance patient engagement, all while automating their processes, increasing their revenue and taking control of their practice

#### **Pavilion Health**

 Pavilion Health is a specialist software provider of clinical coding workflow, classification and analytics products and services, focusing on the quality and integrity of activity and costing data within the healthcare industry.

#### **Allied World Healthcare**

 AWH is an innovative social. enterprise using a new service model, technology platform and financing mechanism to deliver basic, free healthcare services to LMICs, with a current focus on rural areas in Southeast Asia



# systemone



· SystemOne gathers and digitizes data from diagnostics devices to serve the health system.



#### **Pharmasecure**

 Pharmasecure uniquely code each unit at the primary, secondary and tertiary levels, using diverse methods as applicable for particular environment: text, 2-D GS1 barcodes, QR codes or labels



#### **AccuHealthcare**

 AccuHealthcare uses of imaging analysis, photonic spectroscopy, and other technologies, to address falsified & substandard drugs, improved dispensing accuracy, improve medication adherence.

platform enabling health facilities to order from the stockist/wholesalers would

OrderGenie is an e-Commerce

allow real transaction data to be captured.

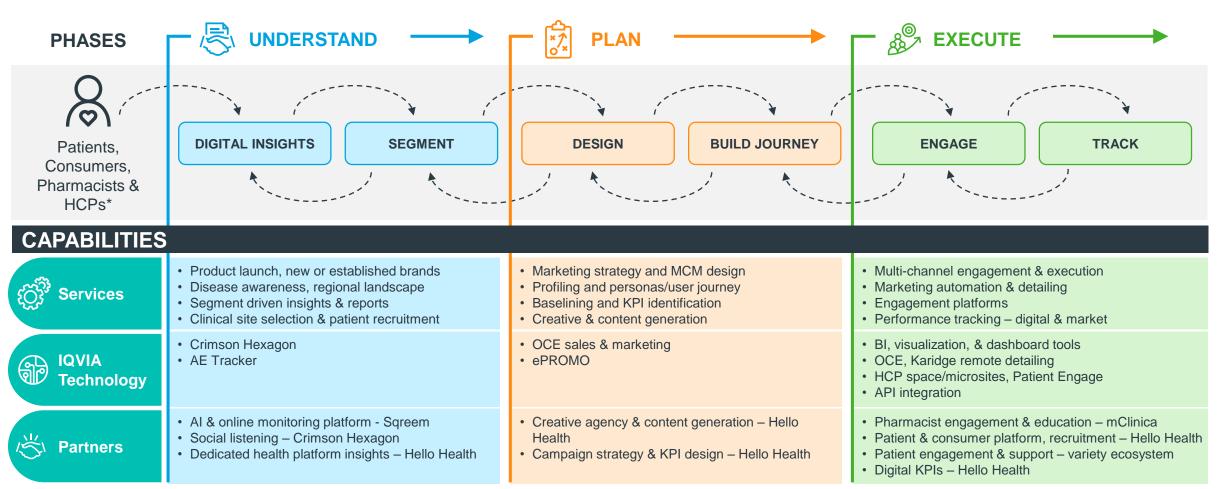
IQVIA ownership stake

IQVIA technology partners



# IQVIA will integrate OpenLMIS into its existing digital capability and offerings, which combine analytics, automation and technology

IQVIA Digital Capabilities



<sup>\*</sup>Iterative approach across user journey

# IQVIA would support OpenLMIS in implementing a data backbone standard, based on our expertise in developing commercial datasets

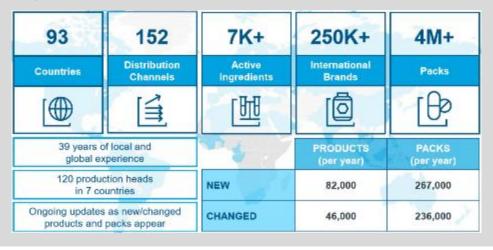
Synergy between IQVIA and OpenLMIS



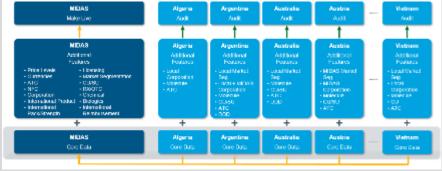
#### Adopting a master data management system and product upgrades

- Master data management and the foundation for serialization begins with having a standardized nomenclature and approach to organizing pharmaceutical data. The implementation of a data backbone standard can be adapted from the private sector.
- IQVIA captures total manufacturer sales by therapy area and channel of distribution from over 100 countries
  in a standardized way on a quarterly basis. Before establishing collaborations and data sharing agreements
  with distributors, IQVIA first works to develop and maintain a National Drug File (NDF) which is the master list
  of drugs that have been approved for use.

#### **IQVIA MIDAS Pharma Data**



#### **IQVIA Data Production Process**



# IQVIA has a world-class data management process to integrate data sources, and drive insights for improved decision making in healthcare



- Leverage IQVIA's <u>current</u> network of Distributor/Wholesaler data sources and direct drugstore/hospital panels
- Develop collection system for <u>additional</u> sources (i.e., MTaPS- endorsed government and funding agencies)
- Data will be collected electronically through .ftp systems or email (.dbf or.xls files)



- "Coding" performed at the product level (EphMRA ATC and IQVIA NFC coding systems) and transaction level (input and normalization of Counting Units data)
- "Bridging": Consolidation of data from various "sources" and "period"



 Checks for accuracy and completeness of data. Trend breaks are validated directly by IQVIA from data sources



· Raw data processed via the processing systems of IQVIA based in Pune, India



 Data storage systems can be located in several countries and global database/clearinghouses based on client needs



 Data preparation, charting, analysis, and dashboard reporting shall be performed by local Primary Intelligence and Client Support teams



IQVIA will dedicate a resource to manage the integration of OpenLMIS with IQVIA solutions and the master data management process



# IQVIA will also support OpenLMIS in exploring data use agreements and business models to achieve financial sustainability

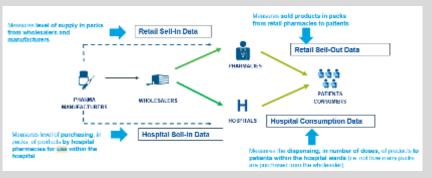
# Synergy between IQVIA and OpenLMIS



#### Data use agreements with governments and other stakeholders

- Strong data governance models ensure that data can be accessed to drive insights and improve decision making, while also protecting patient privacy. Data use agreements can be powerful mechanisms to develop a health data sharing ecosystem
- IQVIA's operational model is founded on the ability to collaborate with diverse stakeholders involved in the flow of medicines to ensure that data use agreements are robust and mutually beneficial

#### **IQVIA Partners and Contributors**



#### **IQVIA Sample Panel Types**



#### **Achieving financial sustainability**

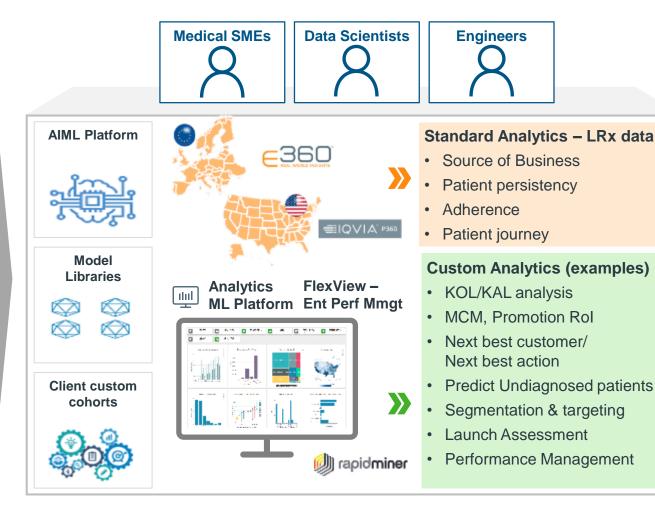
• IQVIA has internal expertise and on the ground salesforce to support the development of business models across channels and customer segments to achieve financial sustainability (e.g. building value-add services or generating market insights)

# IQVIA owns global data lakes and use integrated advanced analytics platforms to create commercial offerings for healthcare clients

Modern Data Science Platform, Global Data Lakes, Machine Learning Cluster & SMEs

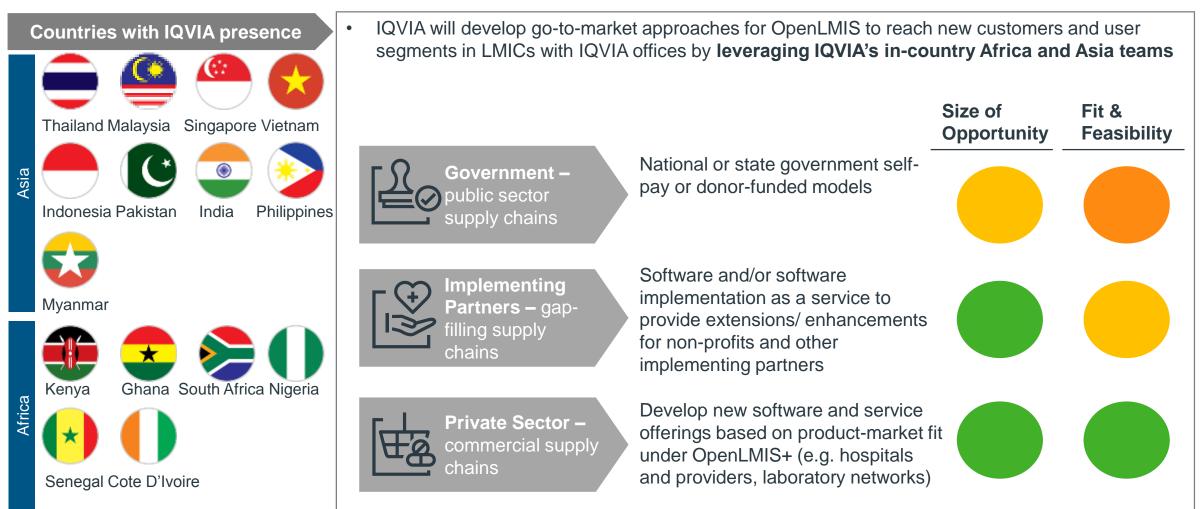






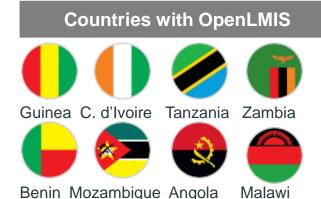
# IQVIA will market OpenLMIS in 15 new countries to public and private sector clients by leveraging existing in-country sales teams

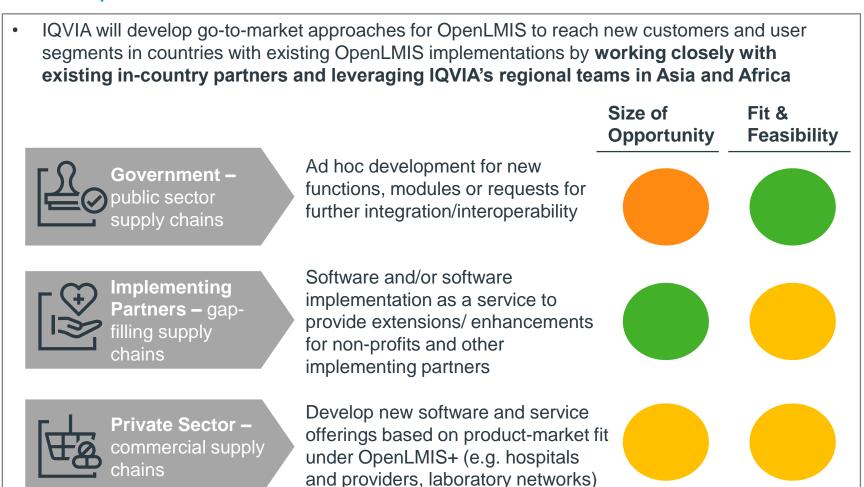
IQVIA's go-to-market approach to OpenLMIS+



# In countries with existing OpenLMIS implementations, IQVIA will collaborate with in-country partners to reach new clients

IQVIA's go-to-market approach to OpenLMIS+





# IQVIA believes OpenLMIS has an important role in the rapidly changing landscape of technology-enabled health product distribution

# Impact for Health Market Update 2019



- This report looks at three emerging types of innovations in product distribution in Ghana, Nigeria, Kenya and South Africa citing lack of end-to-end visibility as a key challenge
- Technology-enabled distribution to providers is likely to grow, though most of these innovators (with few exceptions) are nascent and very small



QVIA is a key discussion partner for many of the emerging innovators in health product distribution and information systems to develop relevant data insights



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# IQVIA's in-kind resource commitment to OpenLMIS represents an annual commercial value of ~\$900K, requiring significantly less donor funding

OpenLMIS+ Contribution

	Core Product: OpenLMIS  Maintain as open-source and free to use	Premium Product: OpenLMIS+ Develop as commercial product for new segments	IQVIA Contribution (USD)
Product	Existing clients will continue to have access to the OpenLMIS product developed to date	<ul> <li>Existing and new clients will have access to the same core OpenLMIS product for free, with option to access OpenLMIS+ features for a fee</li> </ul>	~\$900k
Maintenance and support	Basic maintenance will be provided	IQVIA service team will arrange service level agreements with clients and troubleshoot accordingly	IQVIA will commit support from 15 in-
Enhancements	Further enhancements to the open-source version of the product subject to available funding	<ul> <li>IQVIA and OpenLMIS development team will maintain a user group to review product change requests and develop new functionalities</li> </ul>	<ul> <li>country teams and 2 regional teams;</li> <li>Technology</li> <li>Public health</li> <li>Go-to-market / client services</li> </ul>
Implementation	Support for new implementations subject to available funding; open for use by other OpenLMIS partners	IQVIA will be responsible to support and service new implementations; open for use by other OpenLMIS partners	
Value-add services	<ul> <li>Value-add services like analytics, insights &amp; reporting can be provided as part of data sharing arrangements</li> </ul>	<ul> <li>IQVIA will explore opportunities to develop data offerings and support services (e.g. advisory, analytics)</li> </ul>	<ul> <li>Legal, HR, finance</li> </ul>

# We have considered potential risks and mitigating actions related to this transition period

# Risks and mitigating actions

Risk	Potential causes Solutions	
Lack of clarity on governance structure and contracting	Insufficient detail on contractual obligations regarding liability, data or IP	IQVIA will work closely with OpenLMIS Core Stakeholders to ensure specific service level agreement
Break-even for open- source version is not achieved by the end of the transition period	<ul> <li>Lack of product-market fit</li> <li>Insufficient product development to create a competitive product in the market</li> </ul>	<ul> <li>IQVIA will provide regular updates on go-to-market efforts to OpenLMIS Core Stakeholders</li> <li>IQVIA and OpenLMIS Core Stakeholders will jointly review any required additional investments to maintain public good objective</li> </ul>
Turnover of key project staff	Resignation/reassignment of key OpenLMIS staff or community	IQVIA will engage VR and OpenLMIS software developers early in knowledge transfer and capacity development
Poor integration with IQVIA Technologies	Integration is delayed, coordination is time- consuming due to geographical base	Leverage existing experience of integrating newly acquired technologies and collaborating with technology partners

# IQVIA is well-positioned as a partner to steward the future of OpenLMIS and navigating the path to sustainability

Concept Note Summary

### **Key Considerations**

- Organizational capacity: Does this partner have a proven track record of managing grant and investment funds and successfully running a businesses in the tech/software arena in LMIC country settings?
- Sales force and channel partner strategy: Do they already have a sales force or channel partner relationships to sell in our target markets?
- Product Synergy: Do they have other product offerings for private health clinics, hospitals, pharmacies, or government health ministries? Or anything similar/adjacent/synergistic?
- Open Source Compatibility: Do they have experience working with open source software? Do they commit to keep OpenLMIS open, including with dual-licensing, compatible with our values?
- Community Partnership: Will they be able to work with the existing OpenLMIS community and implementations to support and involve them?

# Why IQVIA

- IQVIA is a global health data science company with six decades of experience and operations in over 100 countries
- IQVIA has in-country sales force in key emerging markets across Africa and Asia
- IQVIA serves 5,000+ organizations and decision makers including government agencies, donors, policymakers, researchers, life science and healthcare companies, providers and payers
- IQVIA Technologies includes a suite of solutions that operate across the healthcare system, and includes technology partners operating in similar emerging market contexts
- IQVIA's internal strategic Big Data Factory (BDF) is built heavily using open-source technologies and we're comfortable working with open-source technologies





# **Appendix**

# A well-performing healthcare system must ensure high-quality medicines are properly procured, distributed and prescribed

Distributed to different healthcare facilities

properly

trained professionals

# Data ecosystem for flow of medicines

How do we assess the national budgetary impact of medicines and diseases?

How do we promote appropriate use of generics and monitor impacts of drug pricing policies?

How do we compile input and feedback from providers & pharmacists on the patient journey?

How do we track on-shelf product availability from service delivery points?

How do we develop a transparent and accountable procurement system? How do we monitor the quality of Prescribed by Procurement of medicines, minimizing counterfeit

high quality

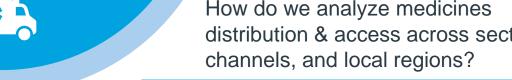
medicines

How can we evaluate market

& substandard products?

health and overall supply chain market dynamics?

How do we analyze medicines distribution & access across sectors,





# Healthcare stakeholders often make decisions based on fragmented and/or incomplete data that is often collected ad hoc

Potential Implications

Existing data sources for flow of medicine

Existing Elimitations			i oteritiai impilications	Examples	
	1	Data sources are fragmented		Limited collaboration and intersectoral discourse on data partnerships Data governance models are lacking to incentivize & support healthcare stakeholders to share data	Medicines dispensing data from private and public pharmacies are not integrated
	2	Data sources are not standardized	·	Medicines data is often not standardized and coding & bridging is required for databases to be interoperable	Medicines data does not always follow standardized WHO ATC coding
	3	Data is often incomplete		Data cleaning & processing is required to resolve data quality & completeness issues from across the healthcare delivery spectrum Insights to measure trends over time is difficult to generate	Facilities rely on paper based reporting forms, which are not always digitized

Primary data is collected ad hoc

**Existing Limitations** 

- Recruiting, training & deployment of large ad hoc field teams is expensive and time consuming; data collect can often take months to complete
- Limited use of digital healthcare data

Donors issue RFPs given limitations of routine data collection

**Examples** 

Improving the current data ecosystem & governance for medicines data in LMICs will lead to more evidence-based decision making, greater transparency and minimize overall waste



# IQVIA's market dynamics data informs economics of supply and demand of medicines, measures of market health



Market Dynamics Offerings

**IQVIA Data Offerings** 

**Use Cases** 



#### **National Drug File (NDF)**

Master list of national drugs sold in 100+ countries



- Baseline analysis for understanding access to novel medicines and drug regulatory process
- Master data management including organization of pharmaceutical data.



#### **MIDAS**

Total manufacturer sales by therapy area and channel of distribution from over 90 countries, captured in a standardized way on a quarterly basis



 Conduct sales analysis to understand private and public sector case load and indications of consumption



#### **National Sales Audits**

Information from more than 550 suppliers including nearly 100 pharmaceutical manufacturers on national sales activities



 Understand the supply, demand, and price of specific drugs to project disease trends and market dynamics



# IQVIA's medicines use data and offerings can assess whether patients received clinically appropriate medication



Medicines Use Offerings

IQVIA Data Offerings

Use Cases



#### OneKey

Comprehensive database of over 9 million healthcare providers and 680,000 healthcare organizations



 Study of density & distribution of HCPs in a country or region to assess medicines & services access



### **Drug Distribution Data (DDD)**

Monthly reporting of all registered pharmaceutical drugs in retail and non-retail drug sale



 Measure the impact of public health interventions on rational medicines use at a service delivery level



### **Prescription Audit**

Patient demographics, product name, diagnoses, treatment recommendations



- Evaluate the adoption of new medicines and prescription patterns of existing medicines
- Compare prescription audit to overall disease burden & treatment rates to understand gaps in the patient journey



#### **Hospital Databases**

Real world data including clinical records and treatment outcomes



- Assess clinical practices, product usage patterns, and impact of specific interventions
- Opportunity to conduct additional observational studies on medicines use and specific therapy areas



# IQVIA has worked with a diverse group of public health stakeholders



MINISTRY OF HEALTH

Affordable Medicines for All

# Patient understanding and market analysis of anti-TB drugs in private sector channels in Indonesia for global health donor



Case study

Background Approach Takeaway

USAID engaged IQVIA to understand the landscape of TB treatment in both public and private channels, and quantitatively validate the role of private channels in Indonesia

- Patient journey from initiation, diagnosis, treatment, and control
- · Pain points for patients
- Understand provider (HCPs, pharmacist, and labs) awareness, behavior, and preference
- Identify opportunities to improve TB interventions
- Analyze total market for anti-TB drugs

### TB patient and market understanding:

- Qualitative research:
  - 10 In-depth interviews with providers (HCPs, pharmacists, and lab directors)
  - 8 Focus Group Discussion with patients and HCPs
- Quantitative research:
  - Face to face interviews using structured questionnaire with 200 patients and 240 providers
  - Coverage: 4 cities in Indonesia

#### Market analysis of anti-TB drugs in private channels in Indonesia:

- Data extraction and analysis from existing IQVIA data assets
- Quantitative: additional sales audit and face to face interviews with 120 channels
- Geographical coverage: Jakarta and Surabaya

- Developed actionable insights on how to improve TB intervention design
- Engaged with key stakeholders working on TB programs in Indonesia to better leverage data
- Identify the gap between prevalence and diagnosis at national and city level
- Map the type and size of private channels that currently covers TB treatment
- Understanding product preferences i.e. originator vs generics, combined vs single molecule



# Workforce Effectiveness in Public Health Supply Chain in Pakistan



Case study

### Background Approach Takeaway

- National governments and international NGOs face complex challenges in managing health supply chains, drugs and other health supplies
- Many fail to optimize delivery to the targeted patient population – health supplies in the form of drugs and vaccines do not reach patients who need them
- This project is focused on quantifying the resources and resource constraints in public health supply chain

 Conduct country-level, structured quantitative analysis for workforce development in the public health supply chain sector, using Pakistan as a pilot country to develop the framework and tools to replicate analysis to other developing countries

#### **Approach**

Population vaccination level

and gaps of each district within

**Objective** 

#### Phase 3 Phase 1 Resourcing Advocacy and Capacity Model Development Optimization Development Where are the vaccinations What are the validated drivers · How can PtD utilize project gaps in Sindh province? gaps and respective drivers of vaccination gaps? findings to build advocacy across all of Pakistan? efforts for implementation? · How can PtD address drivers · What are the key supply chain and optimize resource · Which stakeholders do we roles that should be optimized? deployment and potentially need to engage and convince to implement the changes? help improve vaccination · What are the benchmarks for identified roles and activities?

Validated hypotheses for

vaccination gap drivers

roadmap to improve human

· Deployment model and

resource allocation to

potentially drive better

vaccination coverage

· Vaccination level and gaps of

each district across Pakistan

Hypotheses for vaccination gap

drivers across the vaccine

· Key SC roles / benchmarks for

resource optimization for Sindh

journey framework

- White paper to support advocacy efforts for change implementation.
- Stakeholder engagement plan for advocacy

- Conducted analysis to pinpoint optimal distribution of human resources for health supply chains in selected country or region, and potentially replicate analysis for other developing countries
- Developed a replicable methodology for the quantitative analysis of the public health supply chain workforce – involving a structured approach to baseline data collection, segmentation, management and analysis
- Created a customized Excel tool to present results of the analysis and simulate different workforce scenarios that can be applied to different countries

# 10-year roadmap development on improving medicine quality in the Southeast Asia region



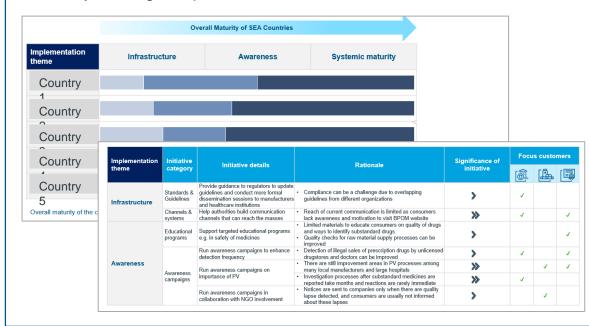
Case study

#### **Background**

- US Pharmacopeia, a nonprofit institution sought to look for opportunities to support the improvement of medicine quality in the Southeast Asia region
- A roadmap is needed to tackle the right issues with the right approach with the right counterparts

#### **Approach**

- IQVIA assessed pharmaceutical market in terms of geography, Rx vs OTC, manufacturer type, originator vs generic
- Unmet needs in terms of pre-marketing control, post-marketing control, safety surveillance, advocacy, capacity building
- Identify strategic implications of unmet needs above for the client



### Takeaway

- Unmet needs in terms of drivers to improved medicine quality are identified across the target countries
- Initiatives over the next 10 years are identified
- Priority initiatives are identified to ensure least effort with highest impact