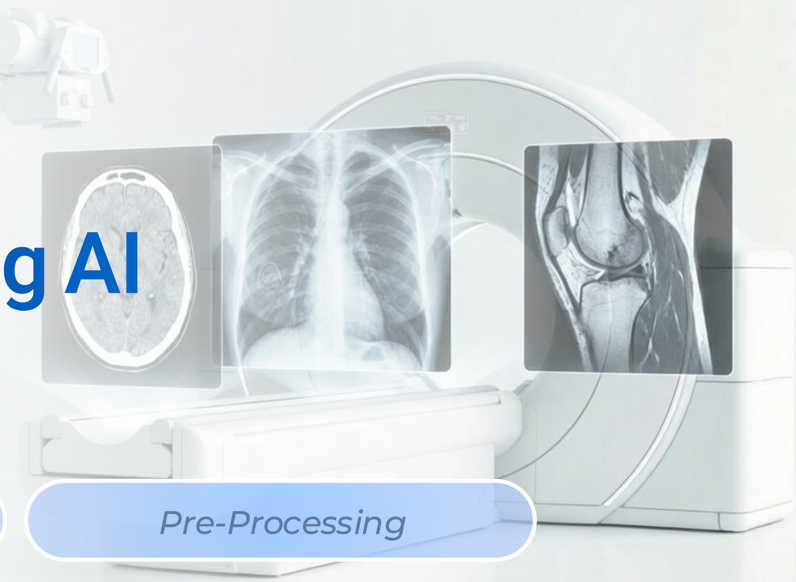
StockFolio

Qlro

DataOps for Medical Imaging AI

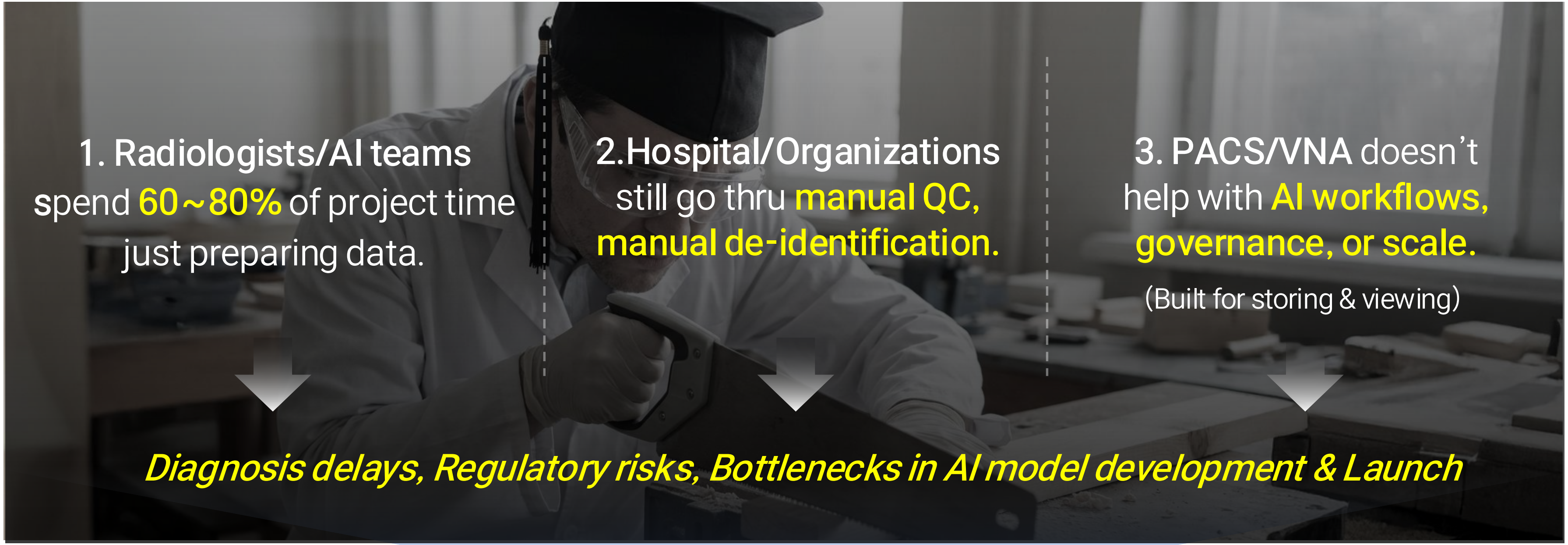
We Automate Medical Data Pre-Processing



- *De-Identification*
- *Quality Control*
- *Pre-Processing*
- *Export Automation*
- *Retry/Edit*
- *Standardization*

Update Date : 2025.12.24

Why Your Ph.D Engineers Are Still Manual Data Janitors



1. Radiologists/AI teams spend 60~80% of project time just preparing data.

2.Hospital/Organizations still go thru manual QC, manual de-identification.

3. PACS/VNA doesn't help with AI workflows, governance, or scale.

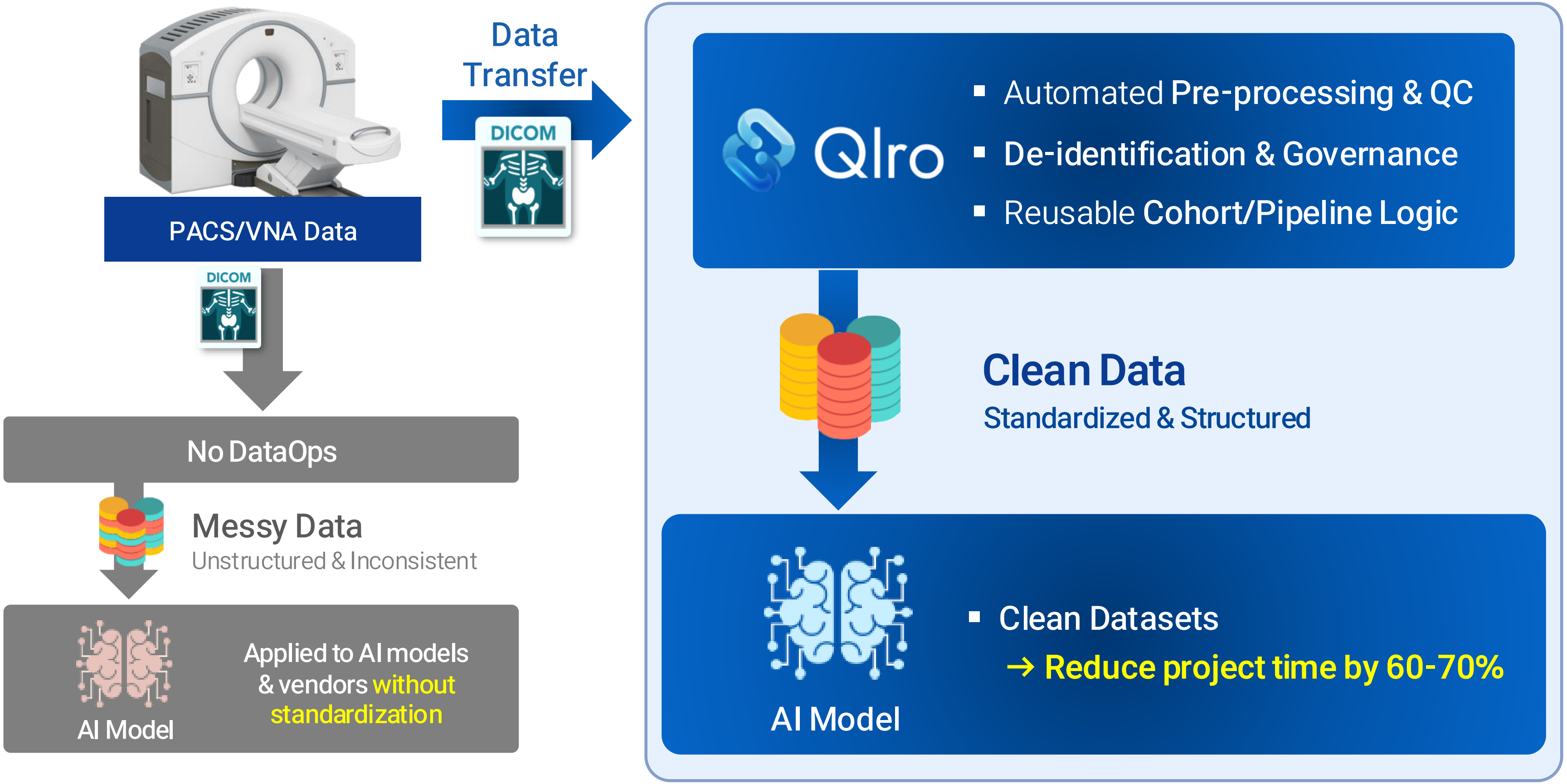
(Built for storing & viewing)

Diagnosis delays, Regulatory risks, Bottlenecks in AI model development & Launch

All of these symptoms come from one root cause:

There is no DataOps for medical imaging.

QIro Turns Raw DICOM Chaos into Clean, AI-Ready Datasets Automatically



PACS/VNA Data

Data Transfer

No DataOps

Messy Data
Unstructured & Inconsistent

AI Model

Applied to AI models & vendors without standardization

QIro

- Automated **Pre-processing & QC**
- **De-identification & Governance**
- Reusable **Cohort/Pipeline Logic**

Clean Data
Standardized & Structured

AI Model

- Clean Datasets
  → **Reduce project time by 60-70%**

Land with Open-Source, Expand with Enterprise-Grade Ops

Developers Community

AI Researcher Community & Library

Free Demo & Open SDK

✓ **Free Parser & Uploader**

Read local DICOM, extract tags and upload to S3/MinIO

✓ **Free 10-line code**

Pip install Qlro-core → Read → QC → Upload in ~10 lines

✓ **Free QC Script**

Detect corrupted files and missing required tags, (Patient ID Modality, etc.)

Need large volume of DICOM QC/Standardization?

Qlro

Purchase Enterprise Plan

Open-source covers scripts and basic QC → Customized Plan for Higher Volume

From 5 Years of Visual AI Expertise to 'Medical Imaging AI'

Unstructured Data Analysis

Advanced image/video interpretation(CLIP, ASL integration).

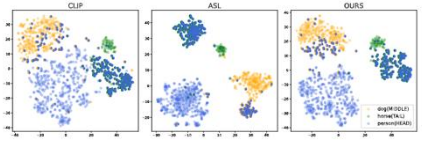


Figure 5: **Visualized embedding space for 'dog', 'horse', and 'person' on VOC-MLT**. Each point is one image sample. In the case of multi-label images, we divided the point in half to express the corresponding class. Our method integrates the advantages of CLIP and ASL, demonstrating effective clustering of multi-label samples and extensive separation between negative samples as seen in CLIP, with closely classified positive samples characteristic of ASL.

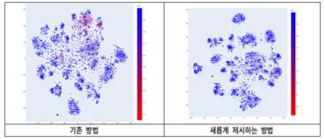
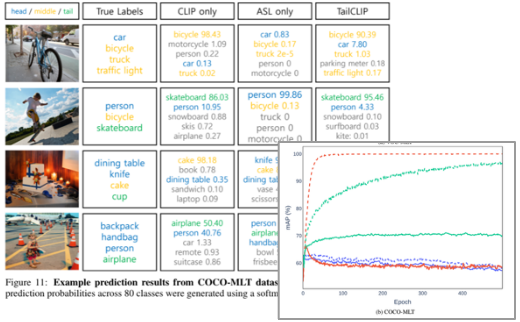


표3. 실제 데이터 예비 실험결과(우측- 라벨 정보에 따라 분포를 더 잘 학습함)

SCIE Publication - AI-driven analysis

- Solved Long-tail data problems using "TailCLIP"



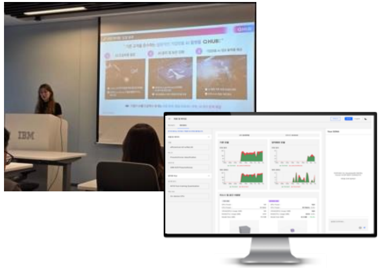
head / middle / tail	True Labels	CLIP only	ASL only	TailCLIP
	car bicycle truck traffic light	bicycle 98.43 motorcycle 1.09 person 0.22 car 0.13 truck 0.02	car 0.83 bicycle 0.17 truck 2e-5 person 0 motorcycle 0	bicycle 90.39 car 7.80 truck 1.03 parking meter 0.18 traffic light 0.17
	person bicycle skateboard	skateboard 86.03 person 10.95 snowboard 0.88 skis 0.72 airplane 0.27	person 99.86 bicycle 0.13 truck 0 person 0 motorcycle 0	skateboard 95.46 person 4.33 snowboard 0.10 surfboard 0.03 kite: 0.01
	dining table knife cake cup	cake 98.18 book 0.78 dining table 0.35 sandwich 0.10 laptop 0.09	knife cake dining tal vase scissors	
	backpack handbag person airplane	airplane 50.40 person 40.76 car 1.33 remote 0.93 suitcase 0.86	person airplan handba bowl frisbee	

Figure 11: **Example prediction results from COCO-MLT datas**
prediction probabilities across 80 classes were generated using a softm

TailCLIP: Long-Tailed Multi-Label Image Classification through Balanced Representation Learning

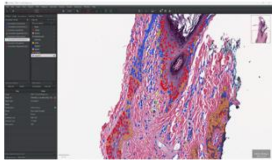
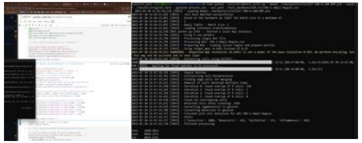
'Medical Imaging AI' Traction

IBM Quantum



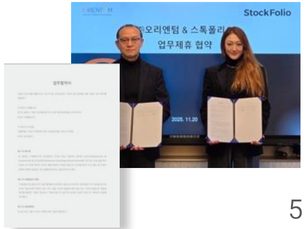
- ○ **25/04/23** Signed Global Partnership Program.
- ○ **25/08/25** Developing Governance Model with watsonx.
- ○ **25/12/09** Qlro v1.0 Development & Demo completion.

Centro Bio Inc. 센트로바이오(주)

- ○ **25/07/31** QuPath-based pathology test integration

ORIENTOM Quantum Software & Consulting



- ○ **25/10/09** Discussion on testbed for unstructured clinical data.
- ○ **25/11/19** MOU for Quantum Hybrid Framework development.
- ○ **25/11/20** Discussion on QPU-QsLM Hybrid Modeling & Empirical Studies (Medical, Finance, Manufacturing)

Qlro

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Want a Full Intro?

→ Scan QR to See Full Pitch Deck

Contact

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