

The background of the entire slide is a dark purple color. It is decorated with numerous concentric circles in various shades of purple and blue, creating a ripple effect across the entire surface.

| CIO 100

Symposium & Awards

Produced by CIO |  IDC

Centralized Data Platform: Using Data To Uplift Science

CIO 100 Award Winner for 2024

Introduction

Personal

Name: Hussain Tameem

Title: Associate Director, Solution Partner

Group: Research Informatics

Experience: Regeneron (8 Years) and Amgen (7 years)

Education: Biomedical Engineering (Ph.D.) @ UCLA

Side Hustle: Online influencer operating a drone YouTube channel

Regeneron

35+
years of scientific leadership

13.4K+
employees worldwide

12
FDA-approved or authorized medicines

~35
product candidates across therapeutic areas

~100%
of drugs invented in-house

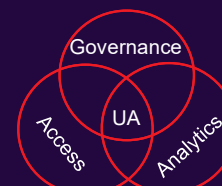
1.5K+
employees with a Ph.D. and/or M.D

Top 5
Ranking in Science magazine for 13 consecutive years as a global top employer

Centralized Data Platform



Cloud Solution



Unified Approach



Harmonized Data

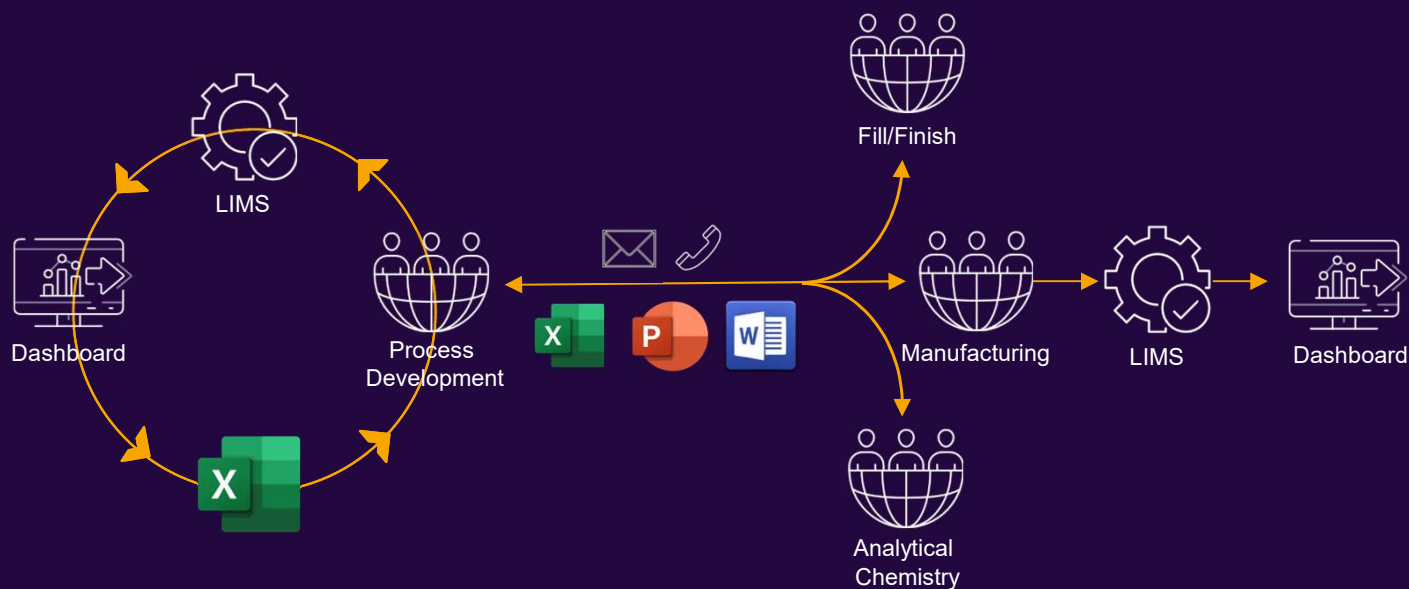


Automate



Insights

Business Need

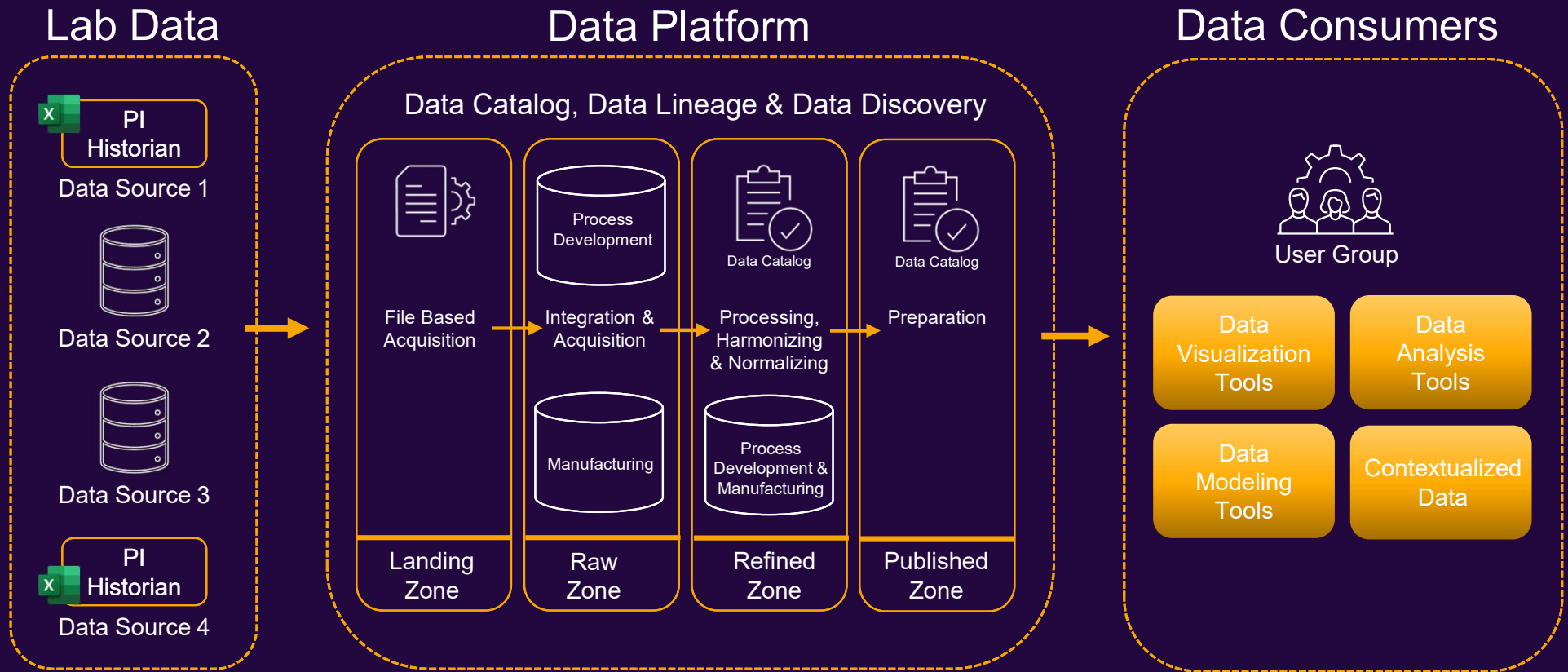


Key Issues

- Inefficient ways to access data
- Data exchange on ad hoc basis
- Data sharing a manual and inefficient process
- Data shared in files (excel, word, power point)
- Data not FAIR
- Data not in a format to support data science and machine learning projects

LIMS: Laboratory Information Management System
FAIR: Findable Accessible Interoperable Reusable

The Solution



Business Value

Impact

12+

data products
delivered

7

options to
connect to data

7

custom apps
using data

~20

projects using
data

>\$M

Potential \$\$
savings

Insights & Knowledge

- Predictive model to simulate performance at manufacturing scale.
- Expected titer ranges for processes transferred from Process Development to Manufacturing.
- Predict 2L model conditions to match pilot scale batches.
- Classifying performance of new cell lines based on historical development data.

Lessons Learned



Data Mindset



Data Quality



Data Access



Data Context



Data Dependency

Team



Bob McCowan
SVP IT & CIO



Quan Yang
VP Research IT



Hanne Bak
SVP PMPD R&D



Michelle LaFond
VP PMPD R&D



Abdelqader Zamamiri
Exec. Dir. IOPS



Tamara Byrne
Dir. IOPS



Trilokee Gupta
Sr. Dir. IT Architect



Jay Katira
Assoc. Dir. System Devel.



Victor Shashilov
Assoc. Dir. IOPS



Matthew Conway
Staff Engineer, PMPD



Hussain Tameem
Assoc. Dir. Solution Partner, IT

Thank you!