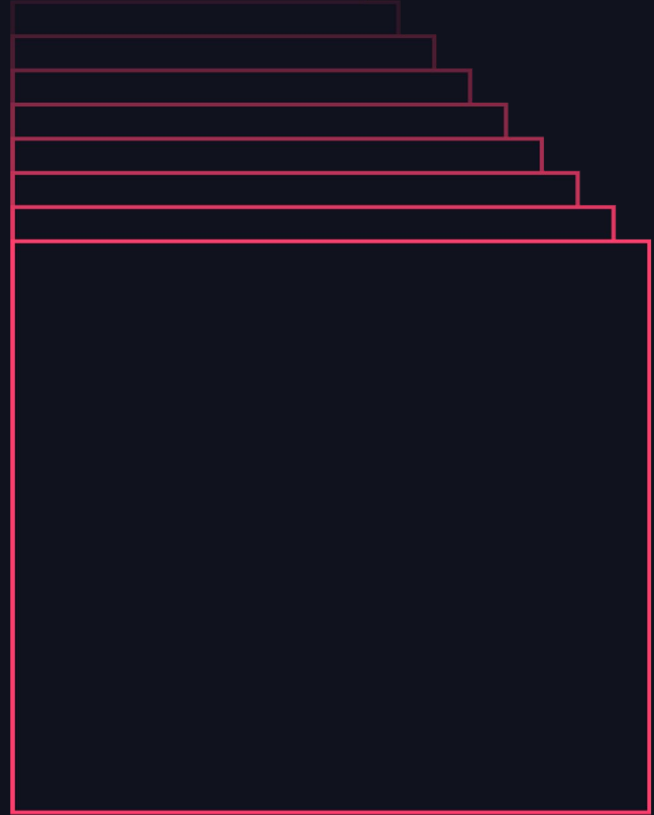


IMPLEMENTING LAKEHOUSE: FROM BI TO AI

Stefan Groot & Joey Radstaat





**WE ENABLE DATA &
ANALYTICS TEAMS
IN A HIGHLY
REGULATED INDUSTRY
TO CREATE VALUE
OUT OF DATA**



we enable

20+ domains globally
700+ data developers
80+ data applications

with

1 architecture
2 distinctive platforms
a central platform team



THE SCALABILITY CHALLENGE

AND THE CURSE OF A CENTRAL PLATFORM TEAM

“We have tools but no data”

”We need it tomorrow!”

“Let us do it ourselves”

”You have to solve this security issue”

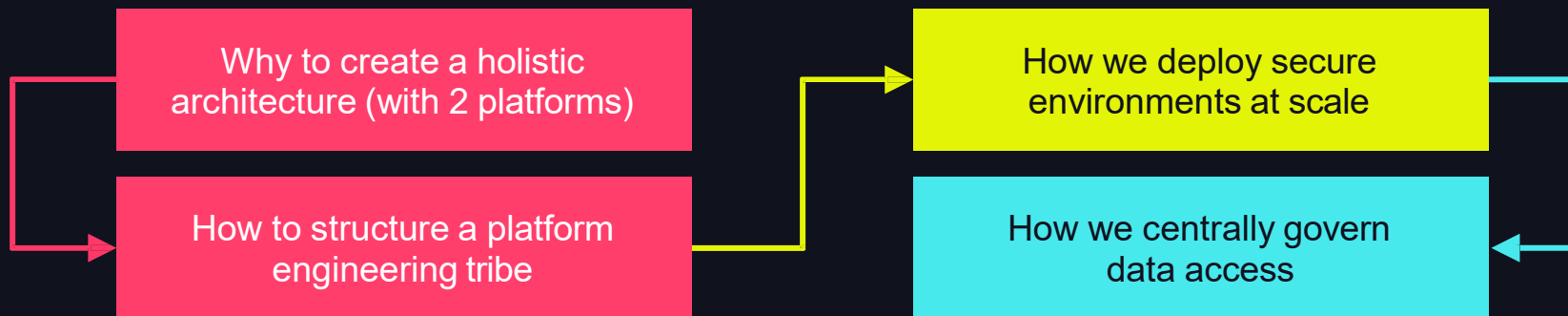
“It’s a data mess”

“Why is it so expensive?”



HOW WE ORGANIZE FOR SCALE

TOPICS OF TODAY



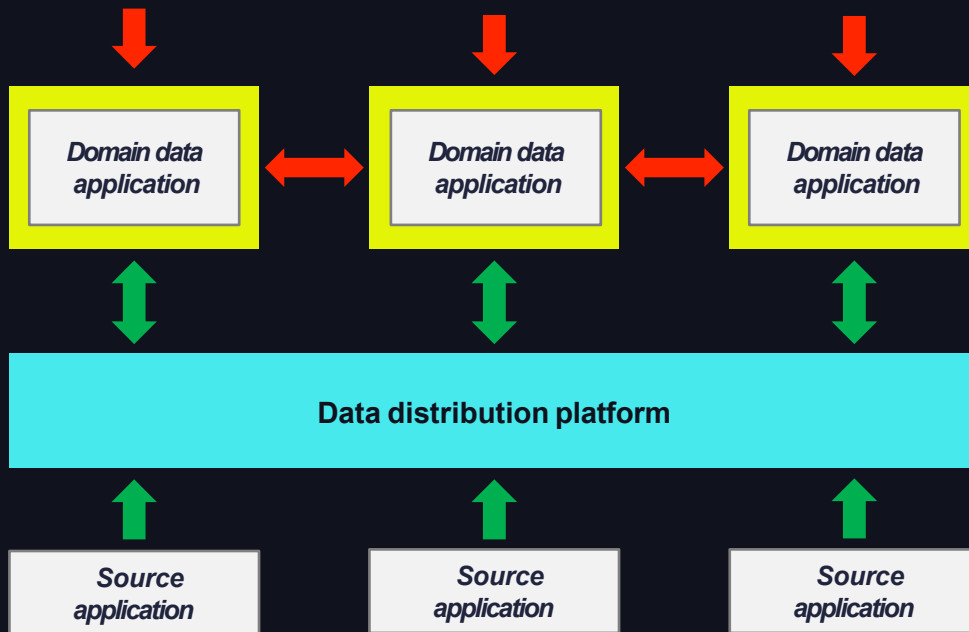
FROM DATA MESS TO DATA MESH!

and still having a central data lake :)



IT CAN BECOME MESSY

VERY QUICKLY



BACK TO THE BASICS

WHAT DO OUR USERS NEED TO CREATE VALUE?

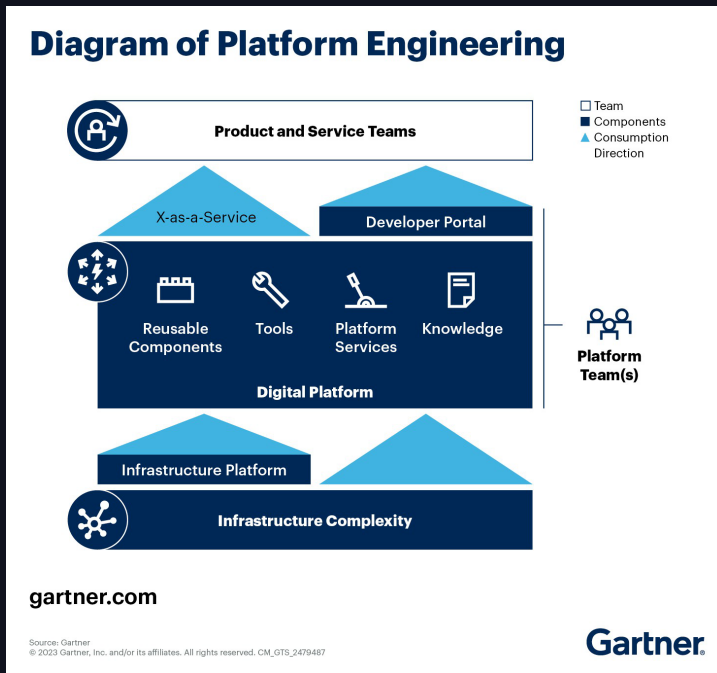
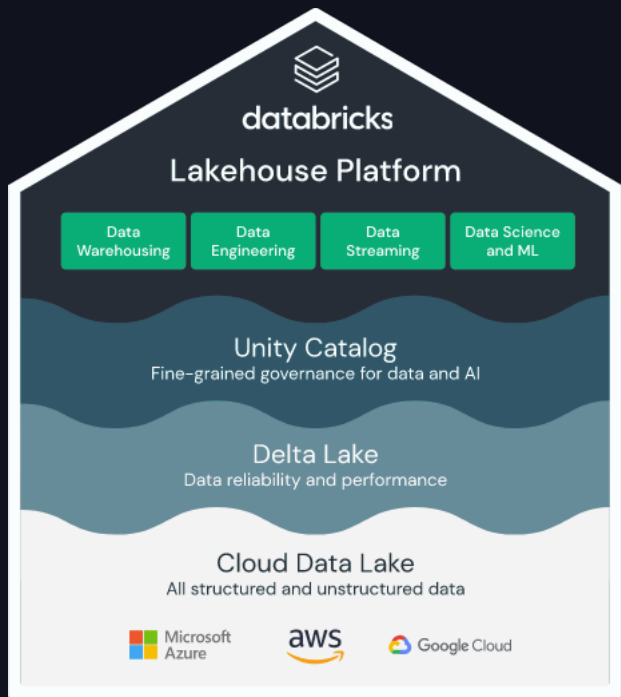
access to tools

access to data



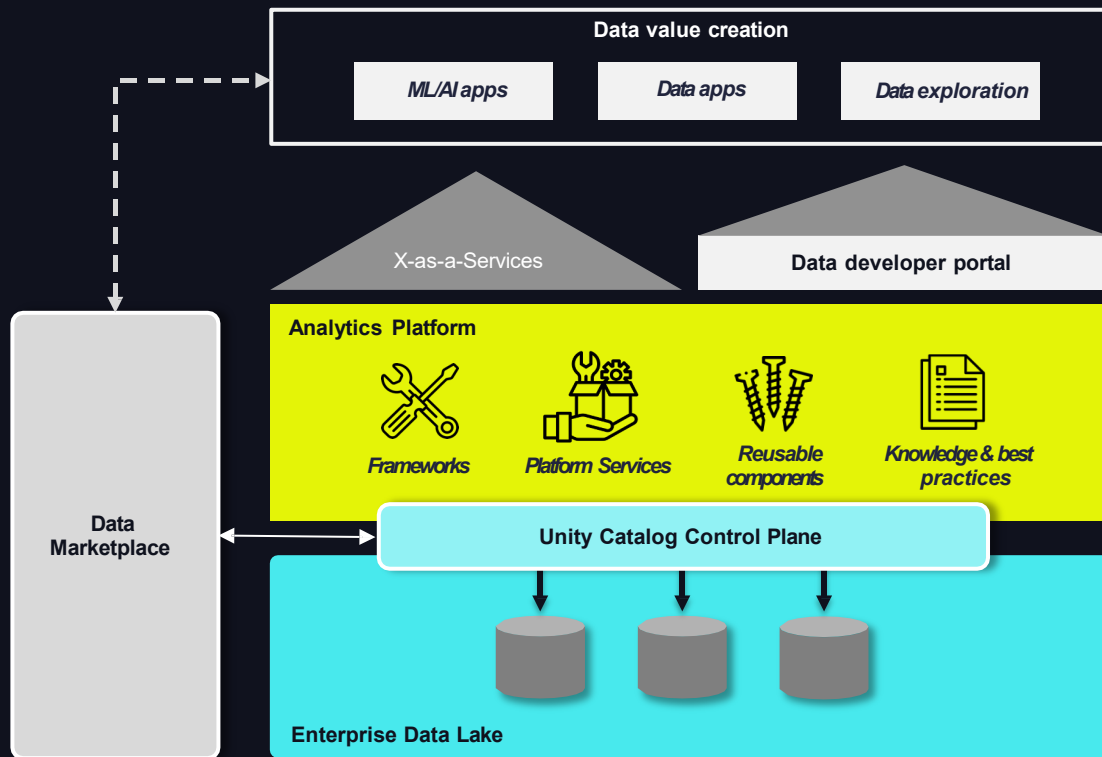
WE COMBINE 2 TRENDS IN IT

DATA LAKEHOUSE + PLATFORM ENGINEERING



ONE ARCHITECTURE

TO PROVIDE TOOLS + DATA

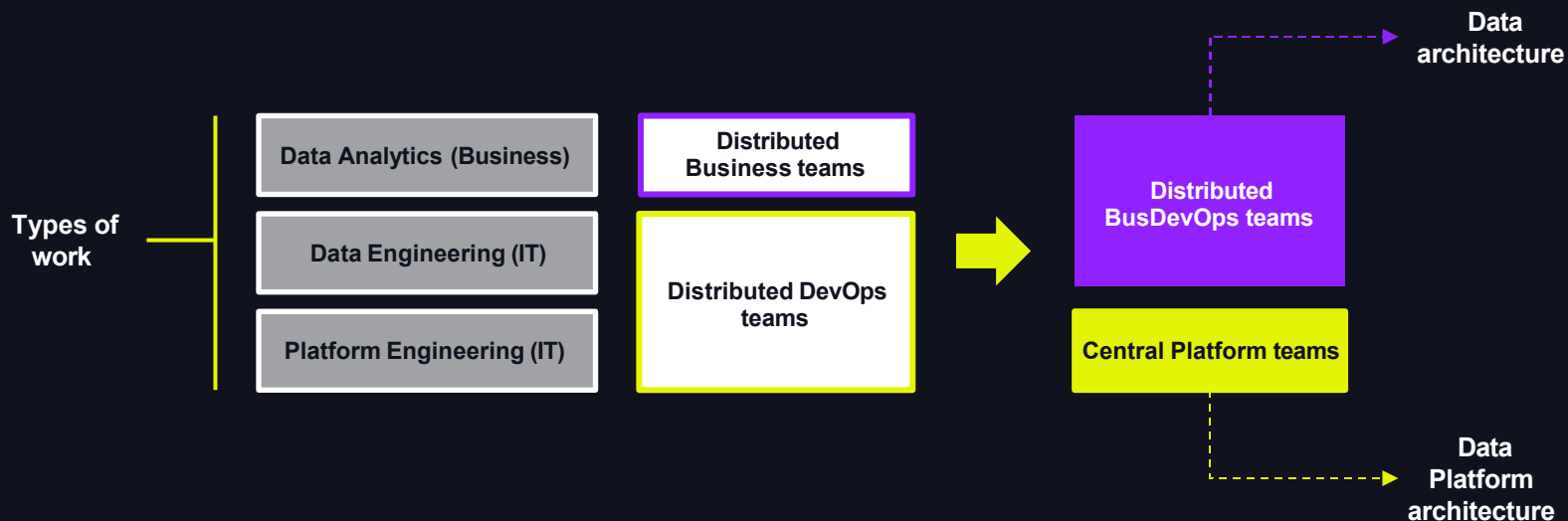


TEAM STRUCTURE FOLLOWS ARCHITECTURE!



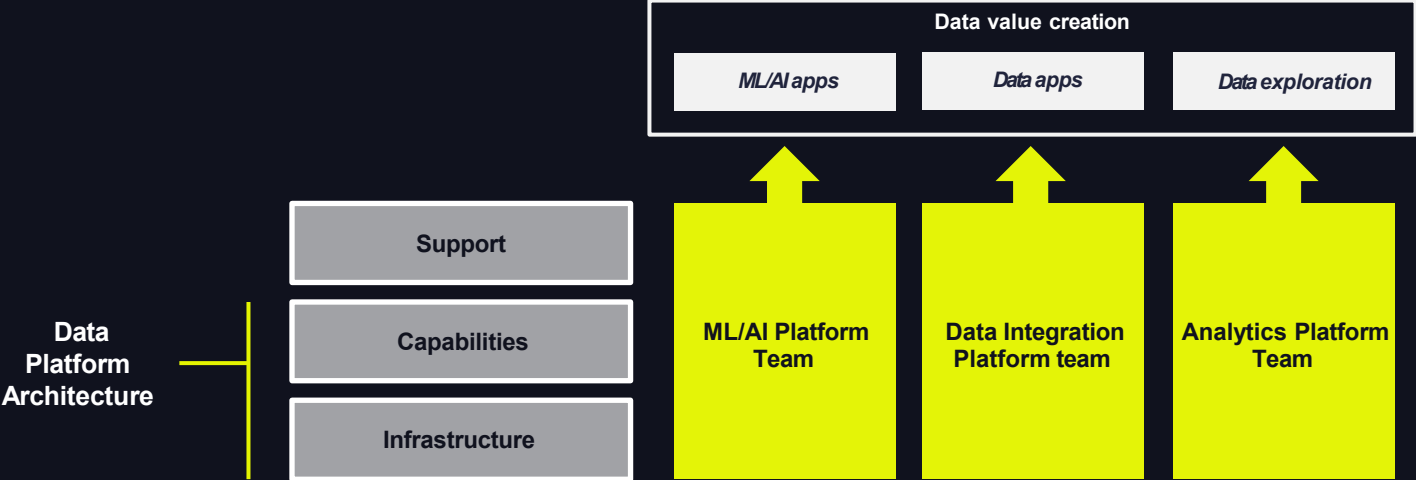
CREATE A SCALABLE OPERATING MODEL

FIRST DECOUPLE DATA VS PLATFORM ENGINEERING



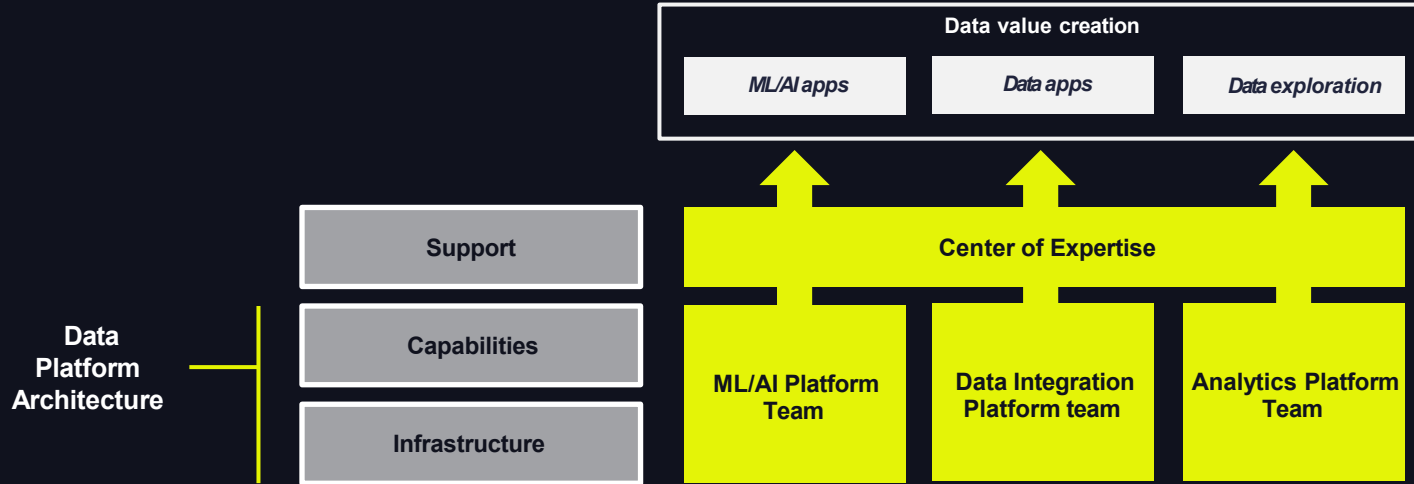
ADAPT YOUR TRIBE TYPOLOGY

CENTRALIZED, SPECIALIZED PLATFORM TEAMS



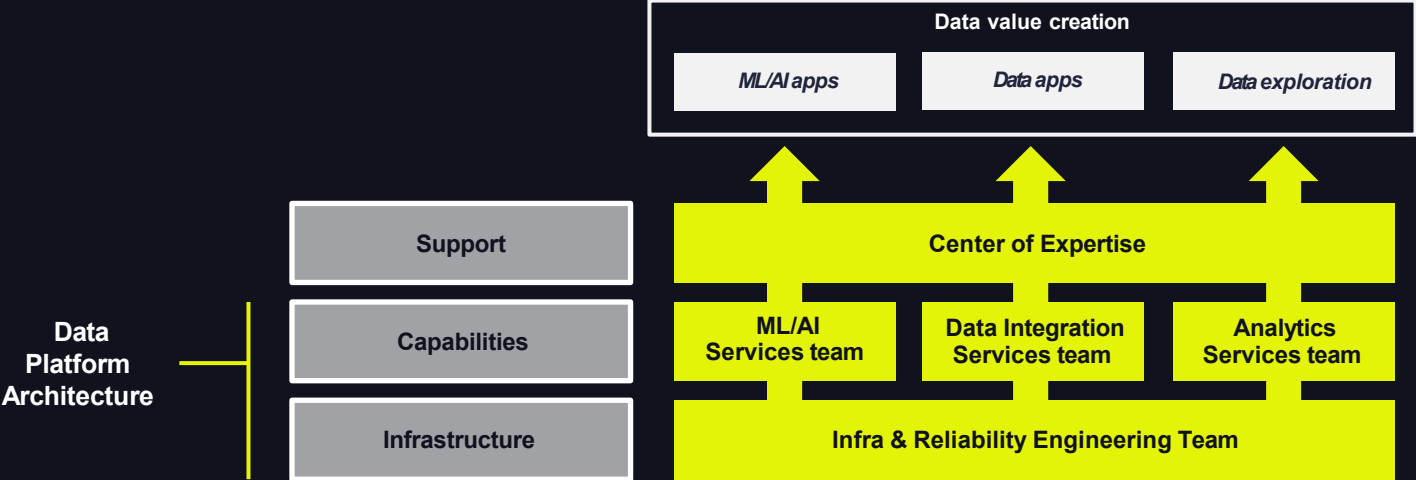
ADAPT YOUR TRIBE TYPOLOGY

ESTABLISH A CENTER OF EXPERTISE



ADAPT YOUR TRIBE TYPOLOGY

CREATE SPECIALIZED SERVICE TEAMS



How might we...?

- reduce the cognitive load of data teams
- increase data developer productivity?
- provide rapid access to authorized data?
- improve security and control?
- optimize for cost?
- deploy faster?



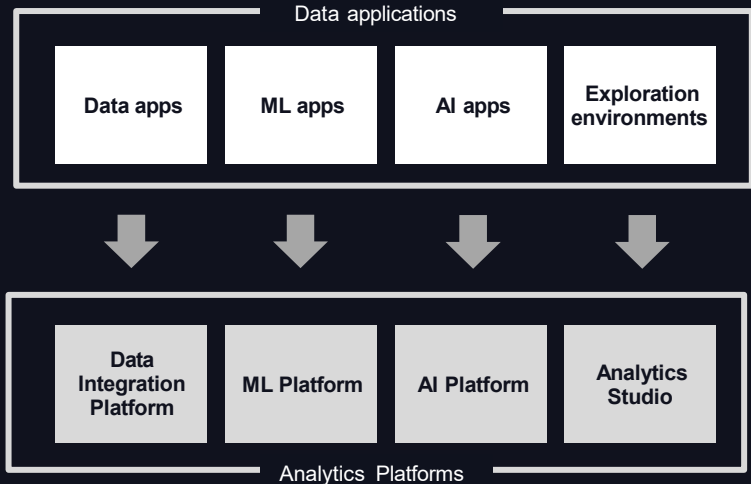
ATLAS: OUR UNIFIED, DOMAIN-DRIVEN DATA + AI PLATFORM



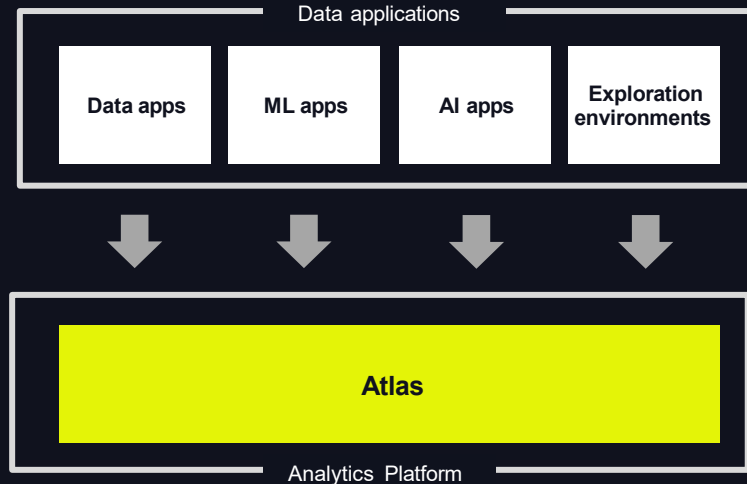
ATLAS

A UNIFIED INFRASTRUCTURE

From different platform types...

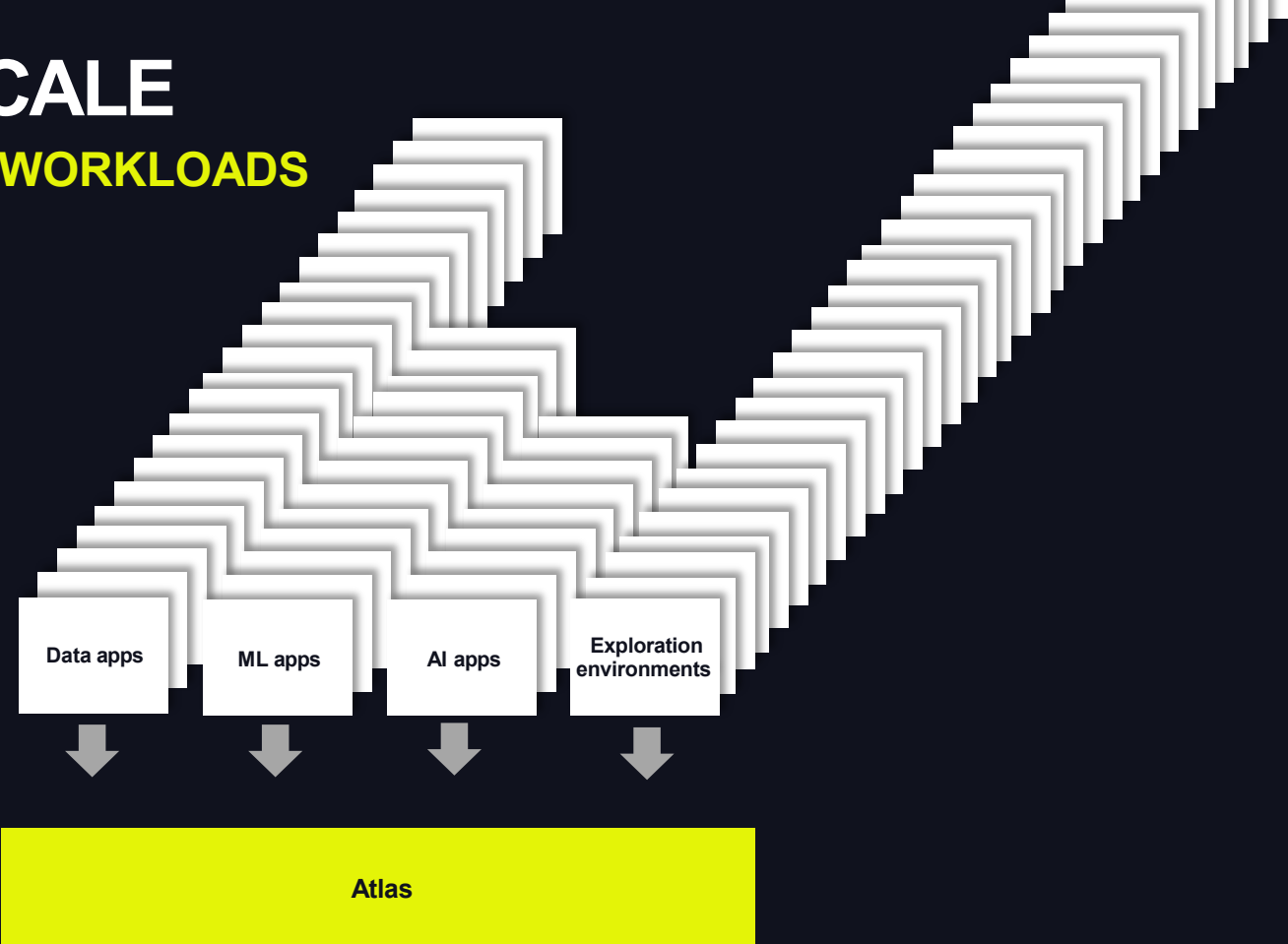


...to a single unified platform!



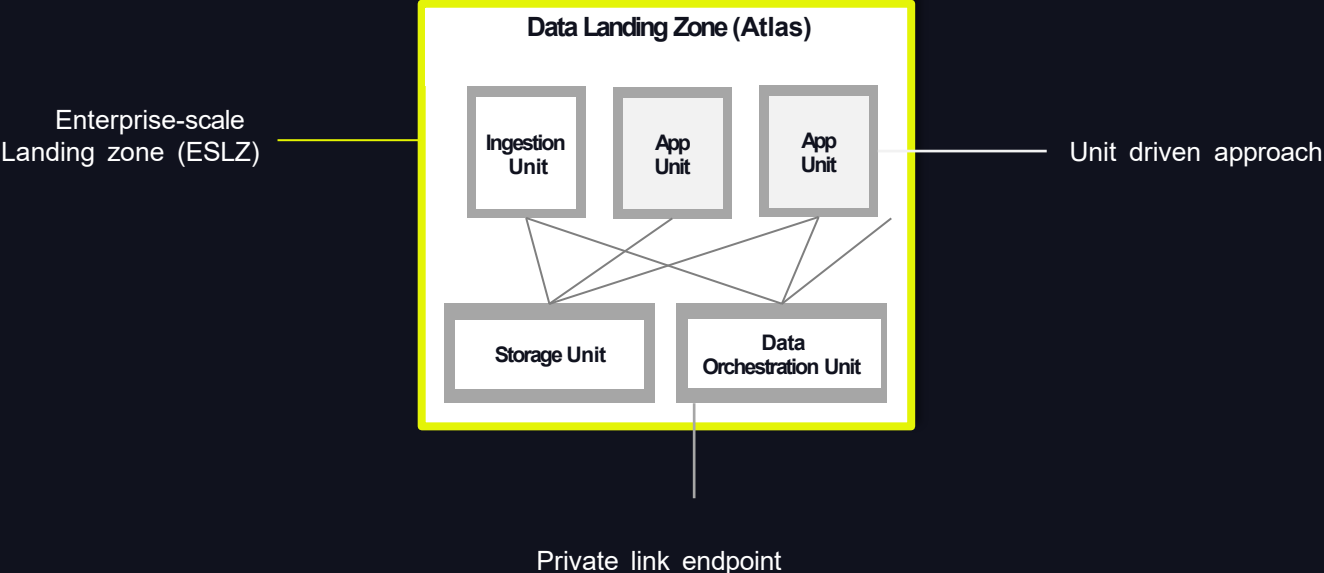
ATLAS AT SCALE

CARRYING ALL DATA WORKLOADS



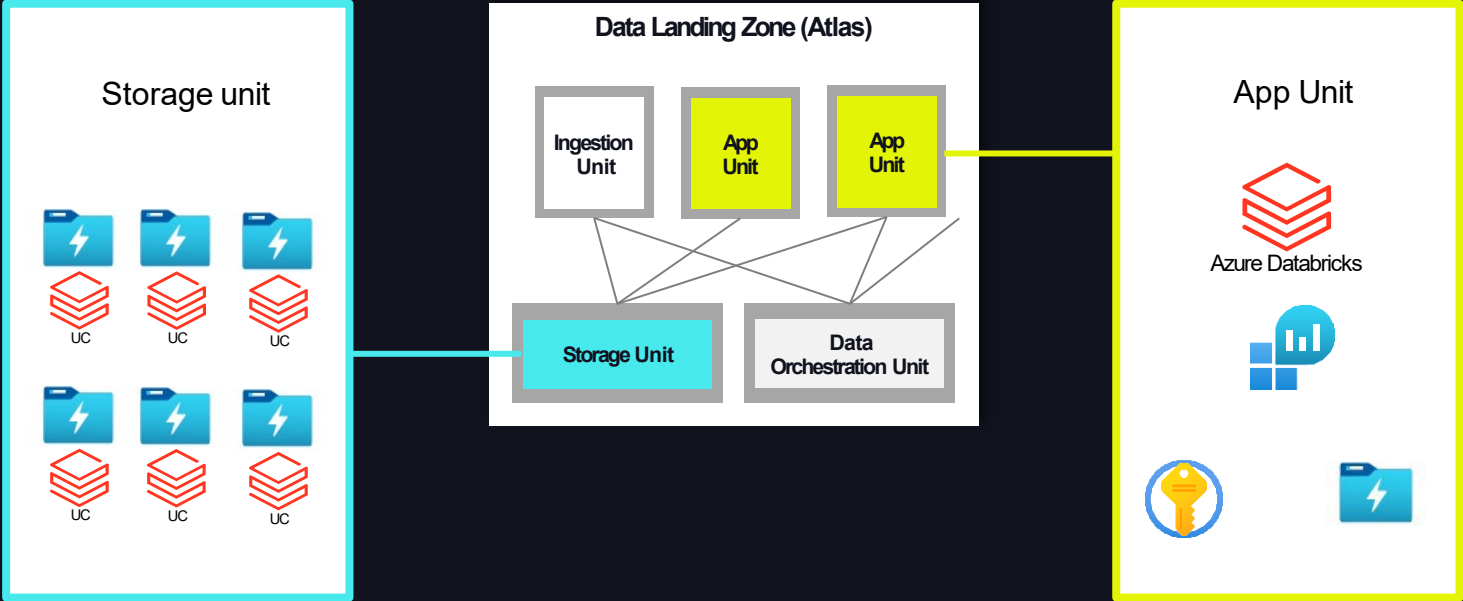
THE ANATOMY OF A DATA LANDING ZONE

THE FOUNDATION OF ATLAS



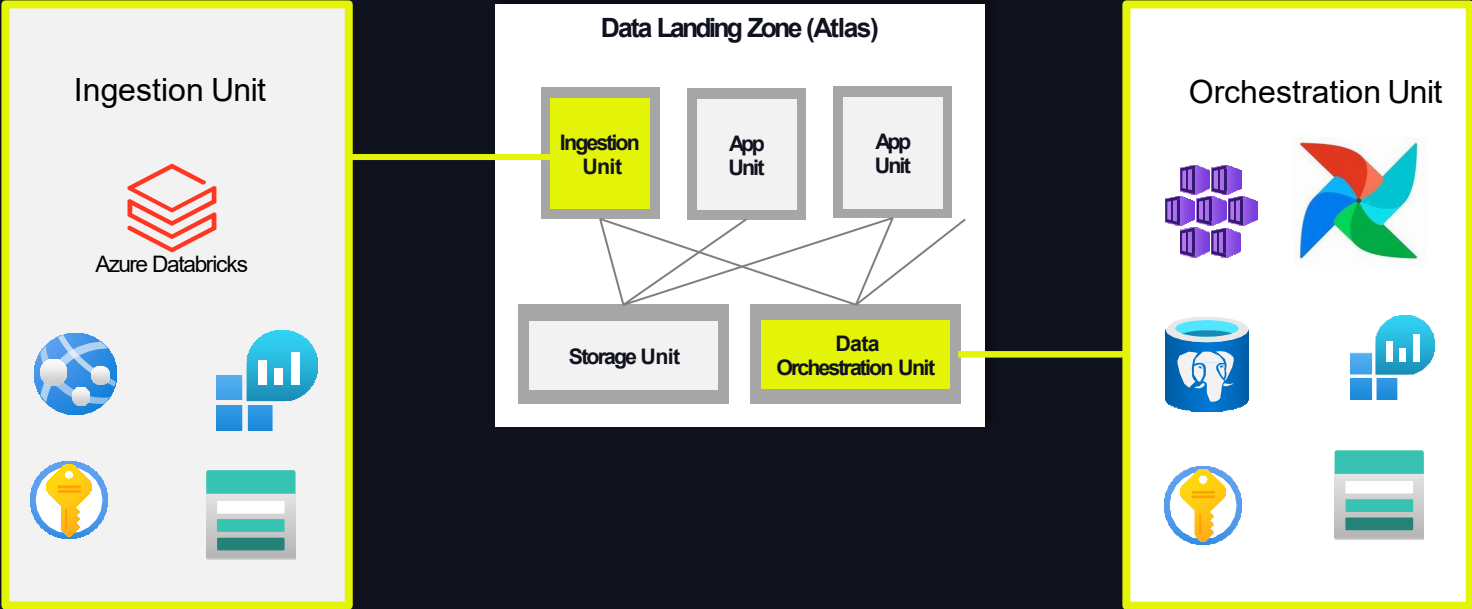
THE ANATOMY OF A DATA LANDING ZONE

THE FOUNDATION OF ATLAS



THE ANATOMY OF A DATA LANDING ZONE

THE FOUNDATION OF ATLAS



THE ANATOMY OF A DATA LANDING ZONE

THE FOUNDATION OF ATLAS

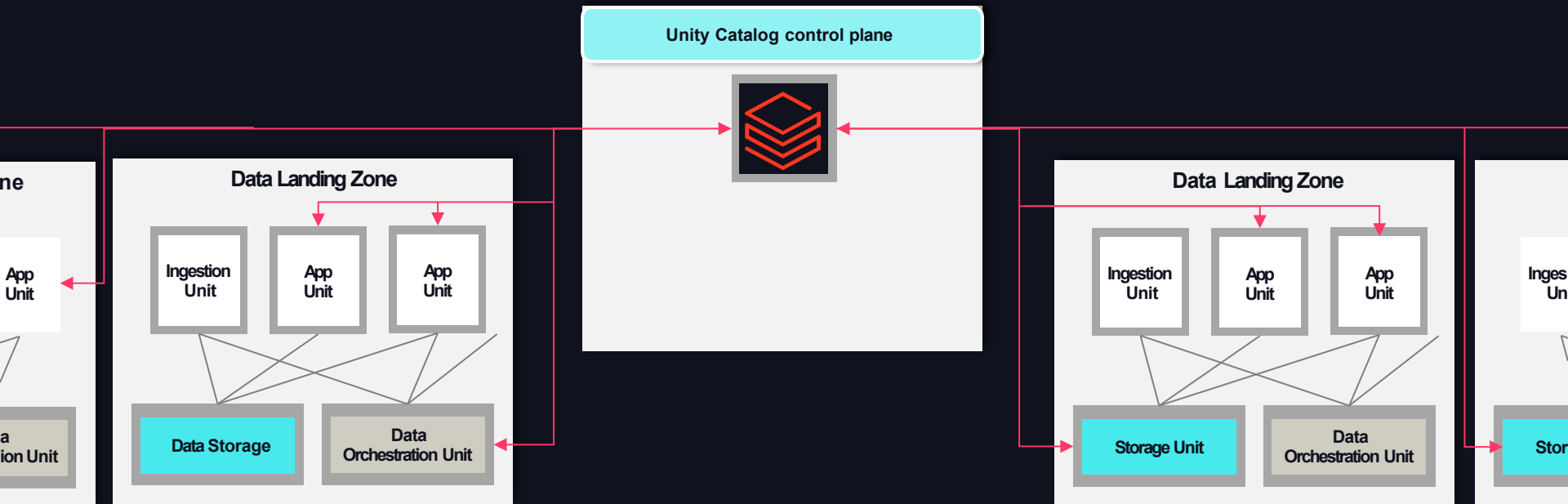


20x



THE ANATOMY OF A DATA LANDING ZONE

DATA SHARING BETWEEN APPLICATIONS USING UNITY CATALOG



CONCLUDING

WITH OUR BEST PRACTICES

