

EFFICIENTLY SCALING YOUR DATA TEAM



Mike Xu 10 June 2024

Data Teams

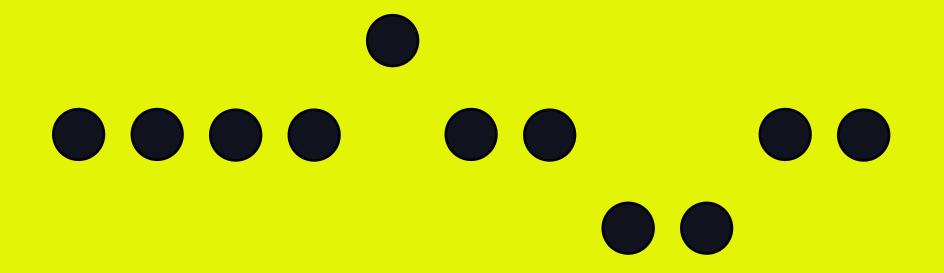


Scaling, Not Growing

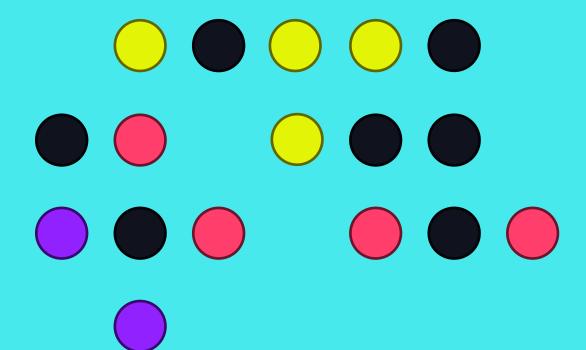
A Modern Data Community

Data Mesh, The Pragmatist Way

GROWING A TEAM

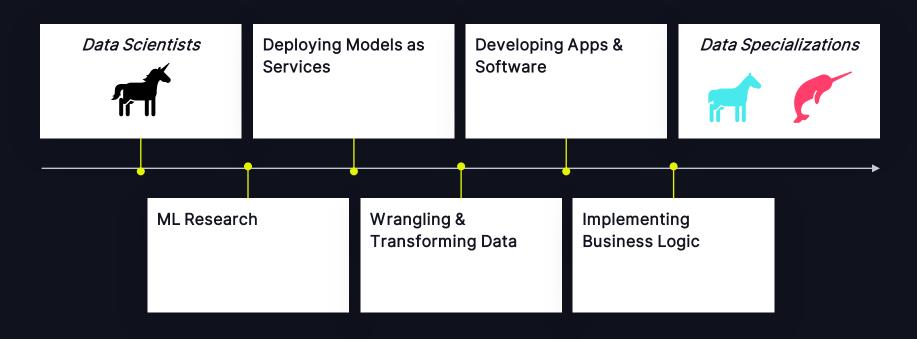


SCALING A TEAM



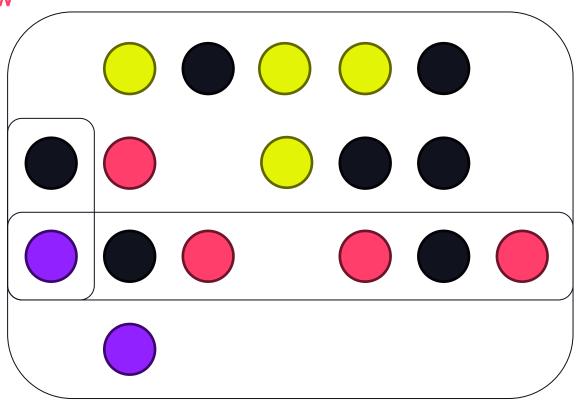
THE DATA SCIENCE UNICORN

Evolving data specializations



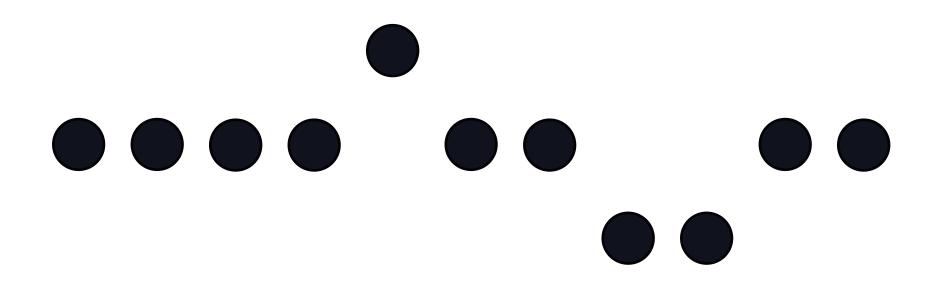
ORGANIZATION → COMMUNICATION

Conway's Law



COMMUNICATION WITHOUT DIVERSITY

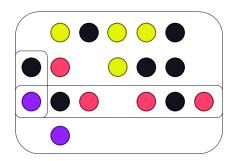
What communication will we get here?



COMMUNICATING WITH NON-DATA TEAMS

They may not even care about data





A MODERN DATA COMMUNITY







A MODERN DATA COMMUNITY

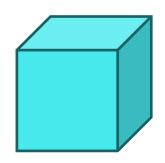
Data Producers

Generate and/or share data



Data Technology

Enables the sharing and consumption of data



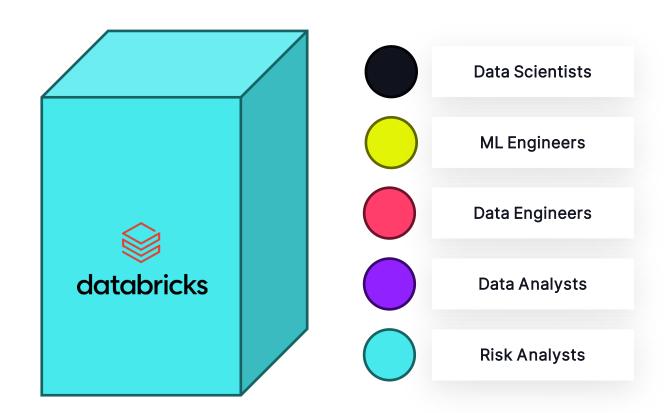
Data Consumers

Leverage data to produce insights driven by business demands

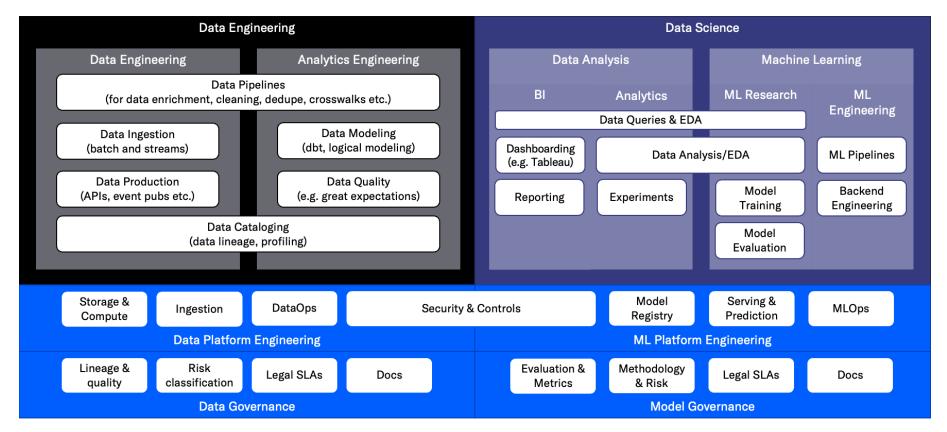


OUR DATA COMMUNITY @ MOODY'S KYC



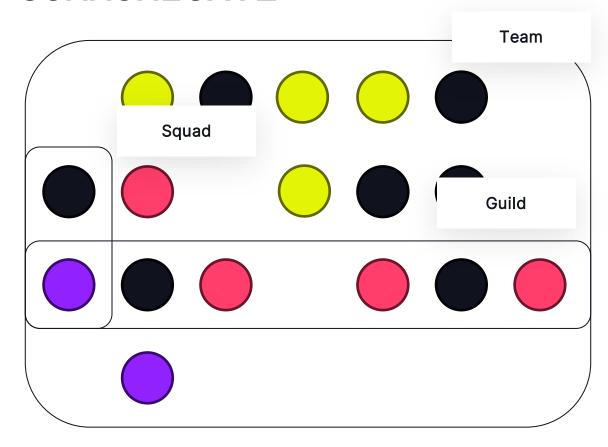


FUNCTIONAL ROLES & SPECIALIZATIONS

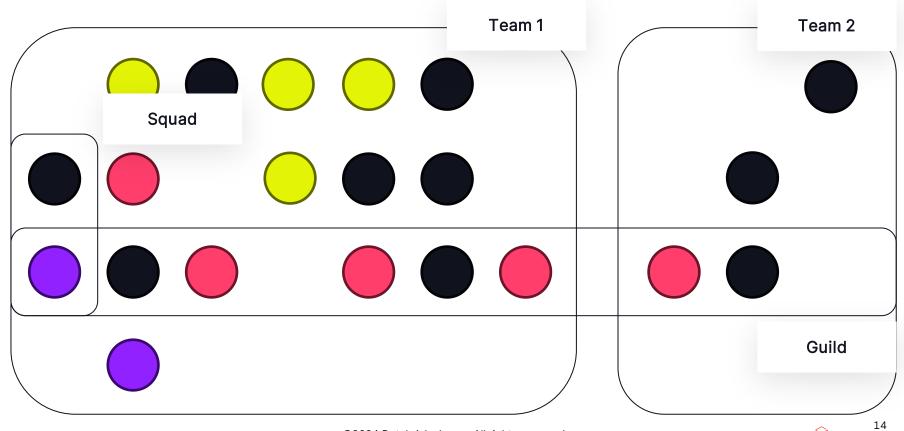


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HOW WE COMMUNICATE



SCALING COMMUNICATION



EMPOWER THE RIGHT COMMUNICATION

Having all of these makes a community

Teams

- Centralized to have an opinion on how things should be done
- Shares a reporting line into a leader

Squads

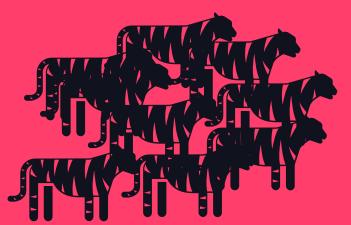
- Federated to operate with guidance from the Functional Guild as well as Data Team
- Shares a project focus, and is cross-functional

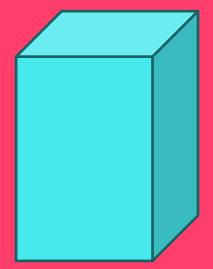
Guilds

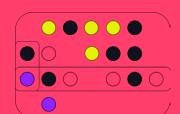
- Decentralized for individuals to share opinions, tech stack, and best practices
- Shares a technical depth and domain knowledge of a data specialization

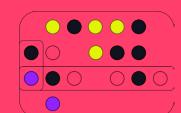
DATA MESH, THE PRAGMATIST

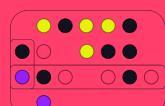
WAY

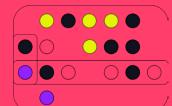






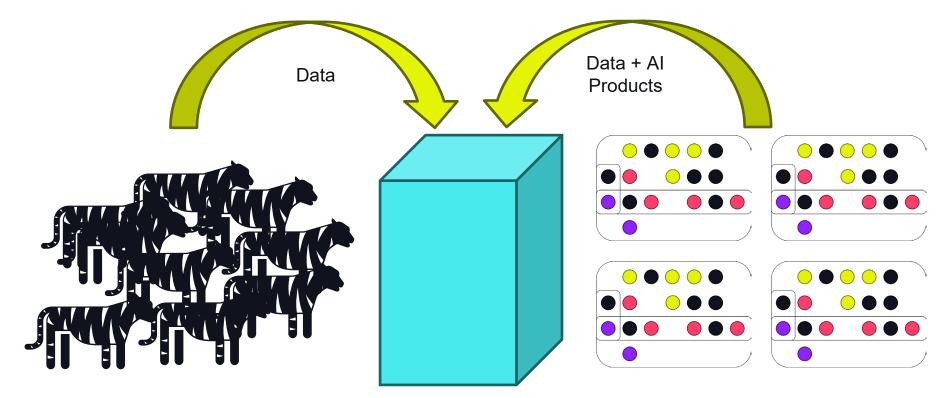






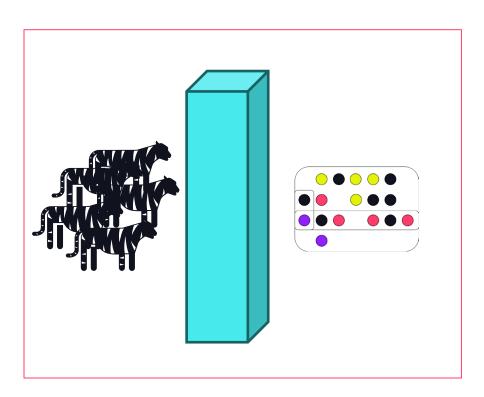
DATA PRODUCTION & CONSUMPTION

After Democratization



SOLUTION 1

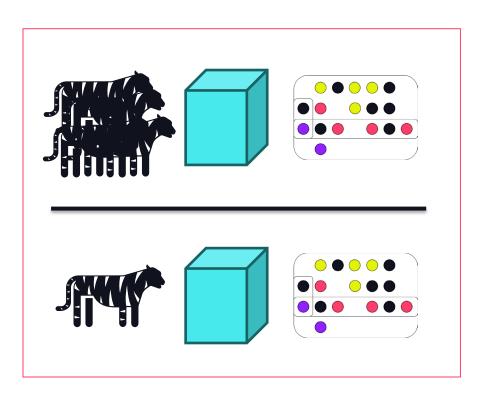
Centralized



- One data team and tech stack
- High trust, low friction in data production & consumption
- Everyone has access to everything

SOLUTION 2

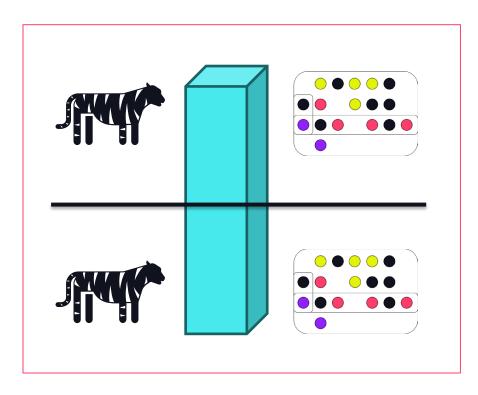
Decentralized



- Individually, all the benefits of centralization
- Overall, fragmented & redundant tech stack/costs across teams
- Data sharing & production across teams is difficult or simply not permitted
- Low trust across boundaries

SOLUTION 3

Data Mesh built on Databricks



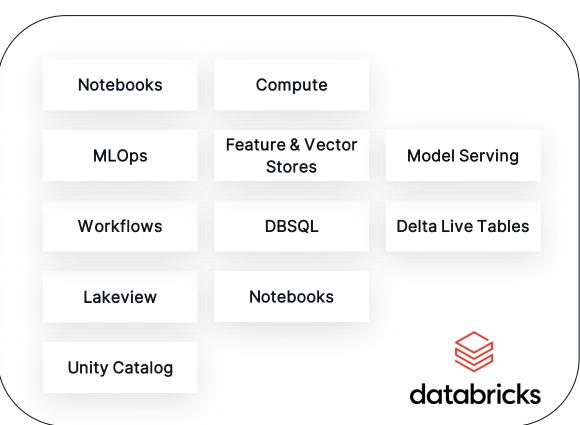
- Centralized technology with federated ownership
- Decentralized access and permissions
- Medium trust, some light friction sharing data
- All-in-one platform with minimal contracts and solution-stitching

ROLE CLARITY IN DATABRICKS



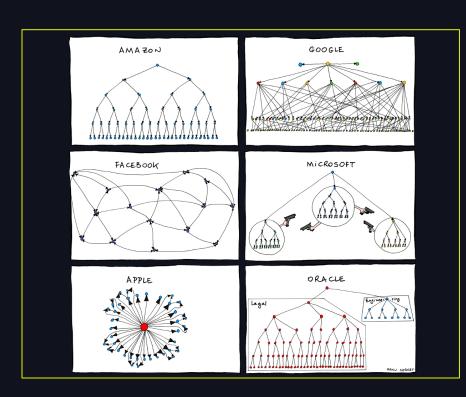


Risk Analysts



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WHAT'S PRAGMATIC HERE?



- No idealistic right or wrong towards centralization, federation & decentralization
- Scale efficient collaboration & communication, not grow empires
- Go with how the business is divided, don't fight the business. (De-)centralization is always relative to something

DATA+AI SUMMIT

Scale, not grow

Don't hunt for unicorns

Databricks has mostly everything

Data role clarity

Squads, Guilds, Teams Communicate above all else

Centralize tech

Federate content

Decentralize ownership