
Vriti Magee



**Embedding
security into the
AI/ML lifecycle
— without
slowing down
innovation.**

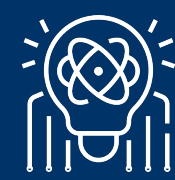
Demystifying MLSecOps

Presented at AppSec & DevSecOps
Melbourne July 2025

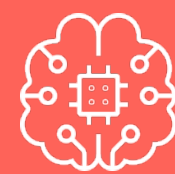
Layers of the Generative AI Stack



The Experience: Applications that use LLMs and other FMs to help users write, generate, analyse, and act – (hopefully) with trust built in.



The Platform: a secure way to access all the models along with tools needed to build and scale generative AI applications



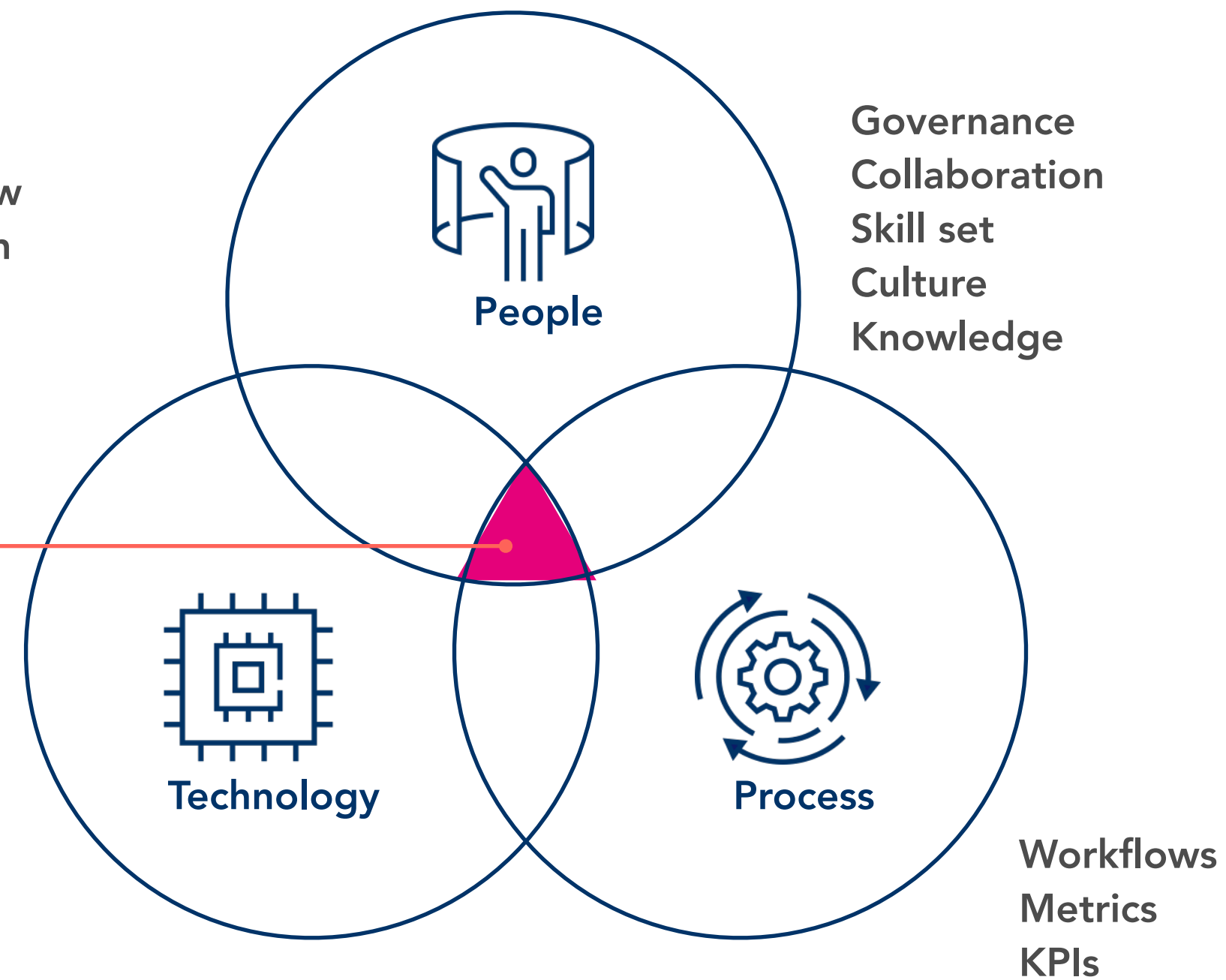
The Foundation: Tools to build and train large Language models and foundation models.

From DevOps to MLOps to MLSecOps

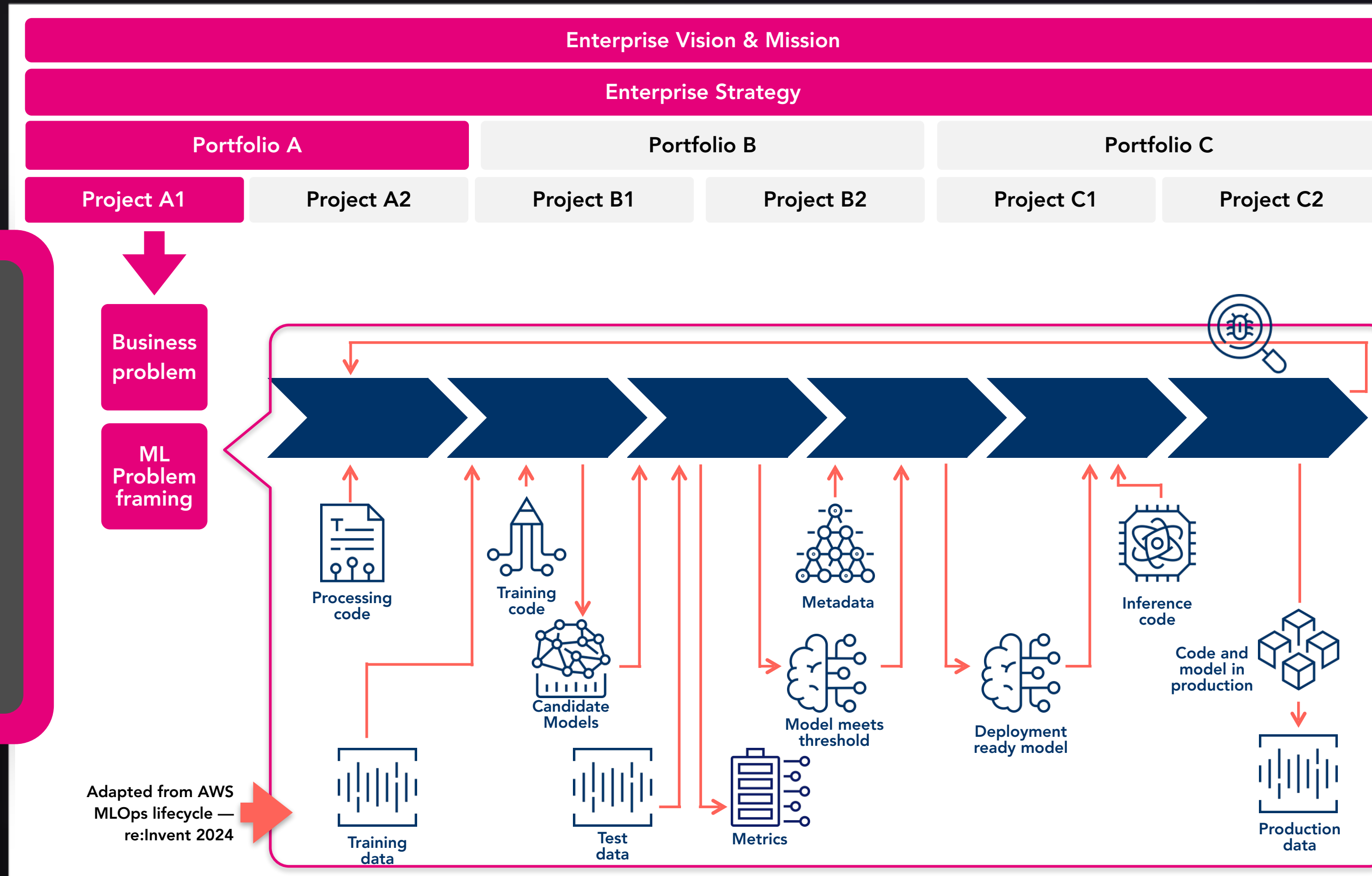
MLSecOps is
how you build
trust in machine
learning

MLOps is how
you approach
machine
learning

ML
infrastructure
ML tooling
Orchestration



An adaptive approach to ML security might serve not just the engineers... but the entire business.

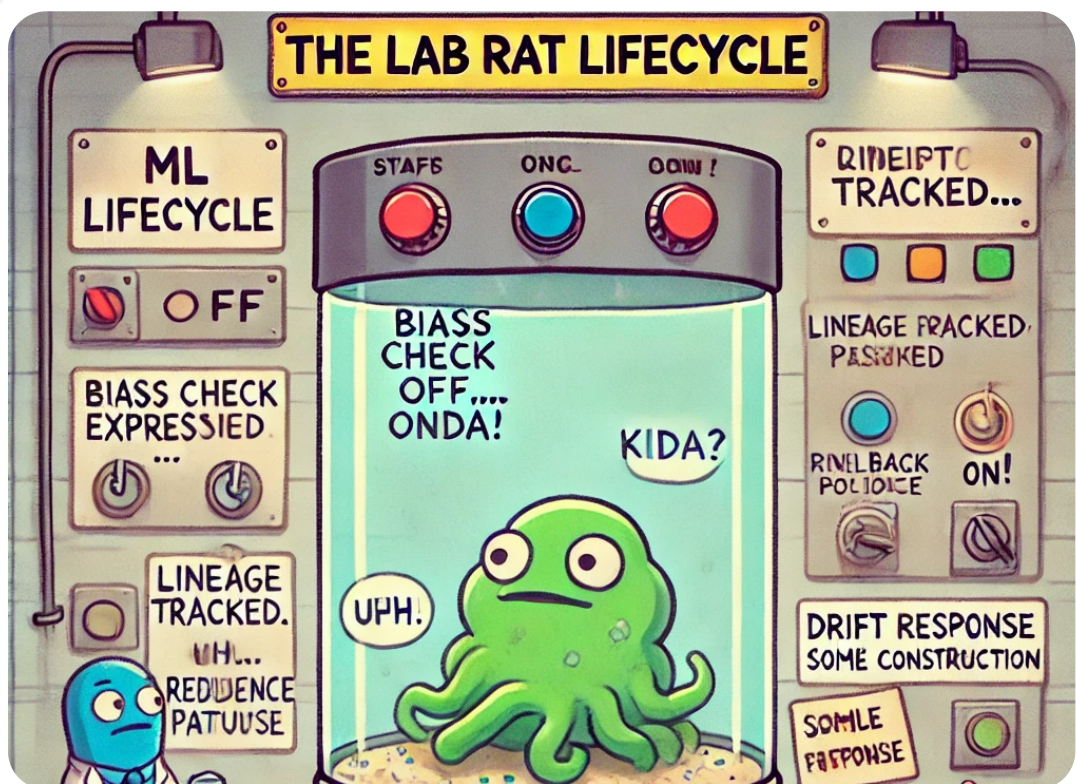




Why Boards Care (Even If They Don't Say 'MLSecOps')



The ML Lifecycle, Revisited



Designing Resilience In (Not Bolting It On)

Why Boards
Care
(Even If They
Don't Say
'MLSecOps')

AI strategy is no longer just about models. It's about governance, readiness, and trust.

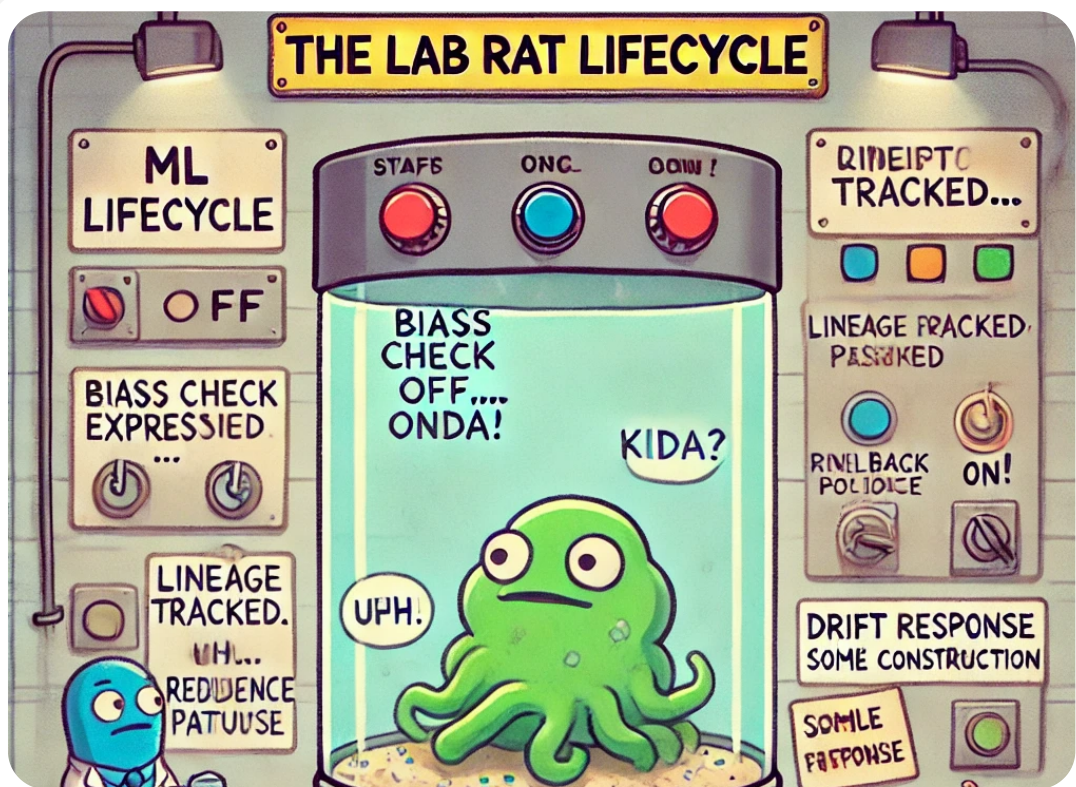




Why Boards Care (Even If They Don't Say 'MLSecOps')



The ML Lifecycle, Revisited



Designing Resilience In (Not Bolting It On)

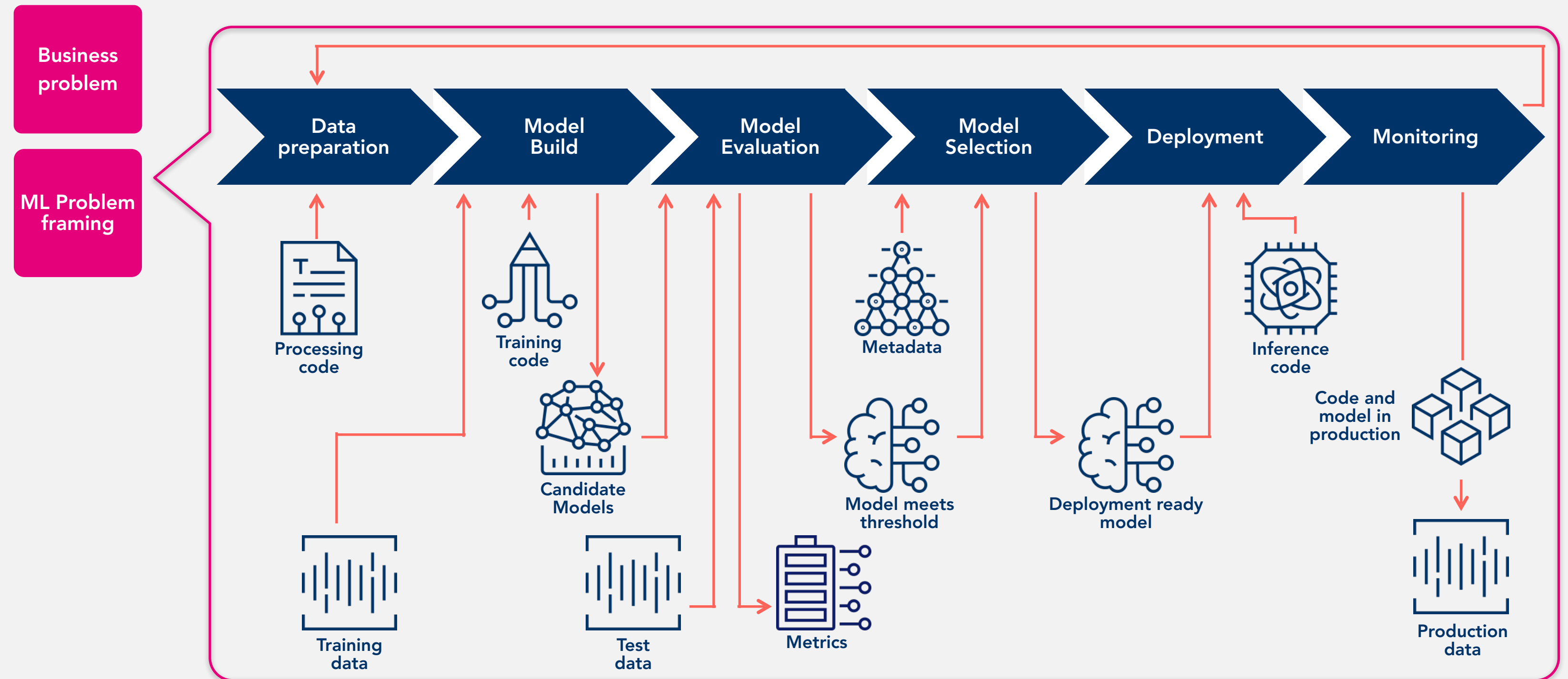
The ML Lifecycle

Every model follows a lifecycle. But not every lifecycle is visible.



The ML Lifecycle

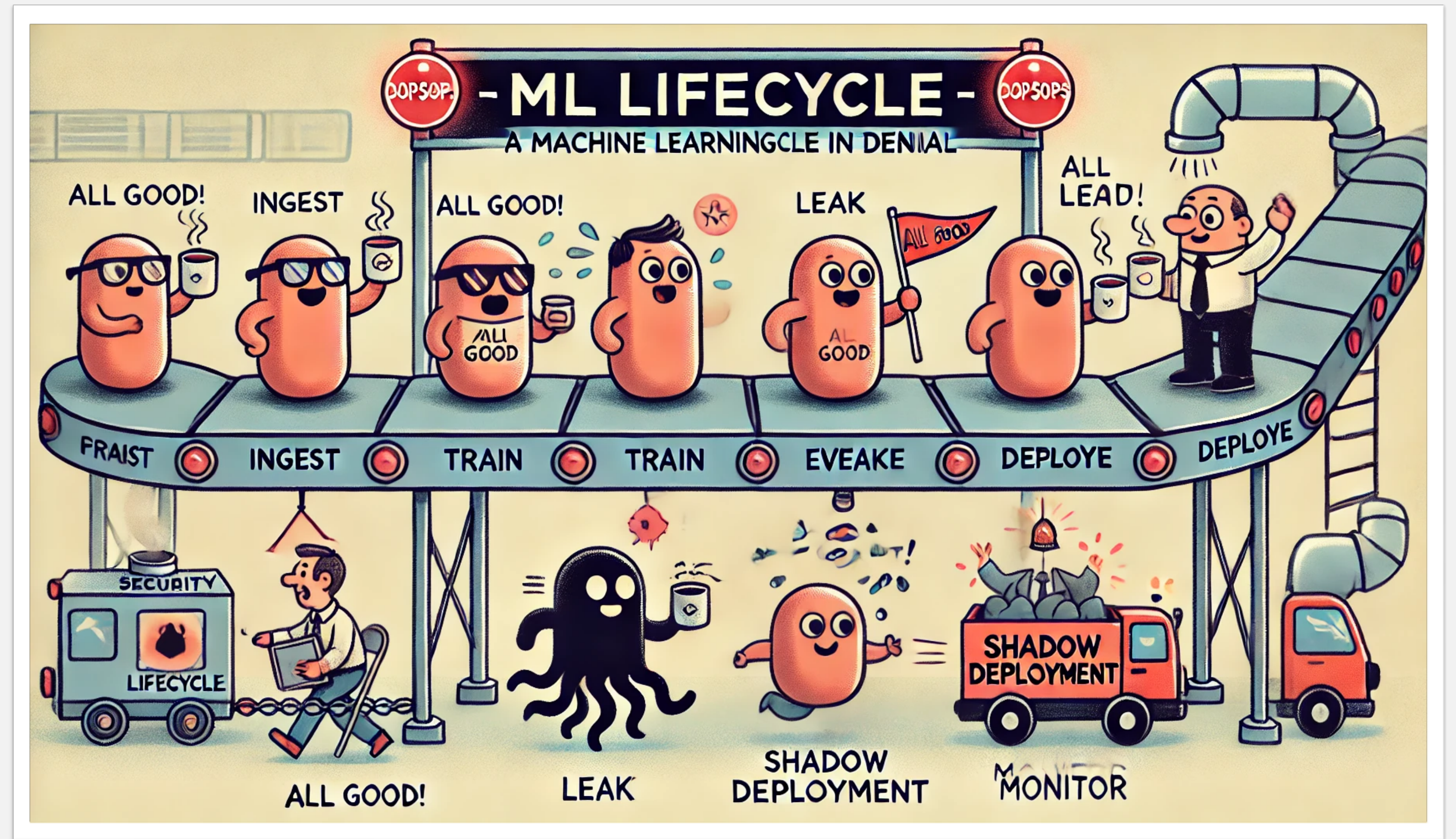
Every model follows a lifecycle. But not every lifecycle is visible.



Adapted from AWS MLOps lifecycle — re:Invent 2024

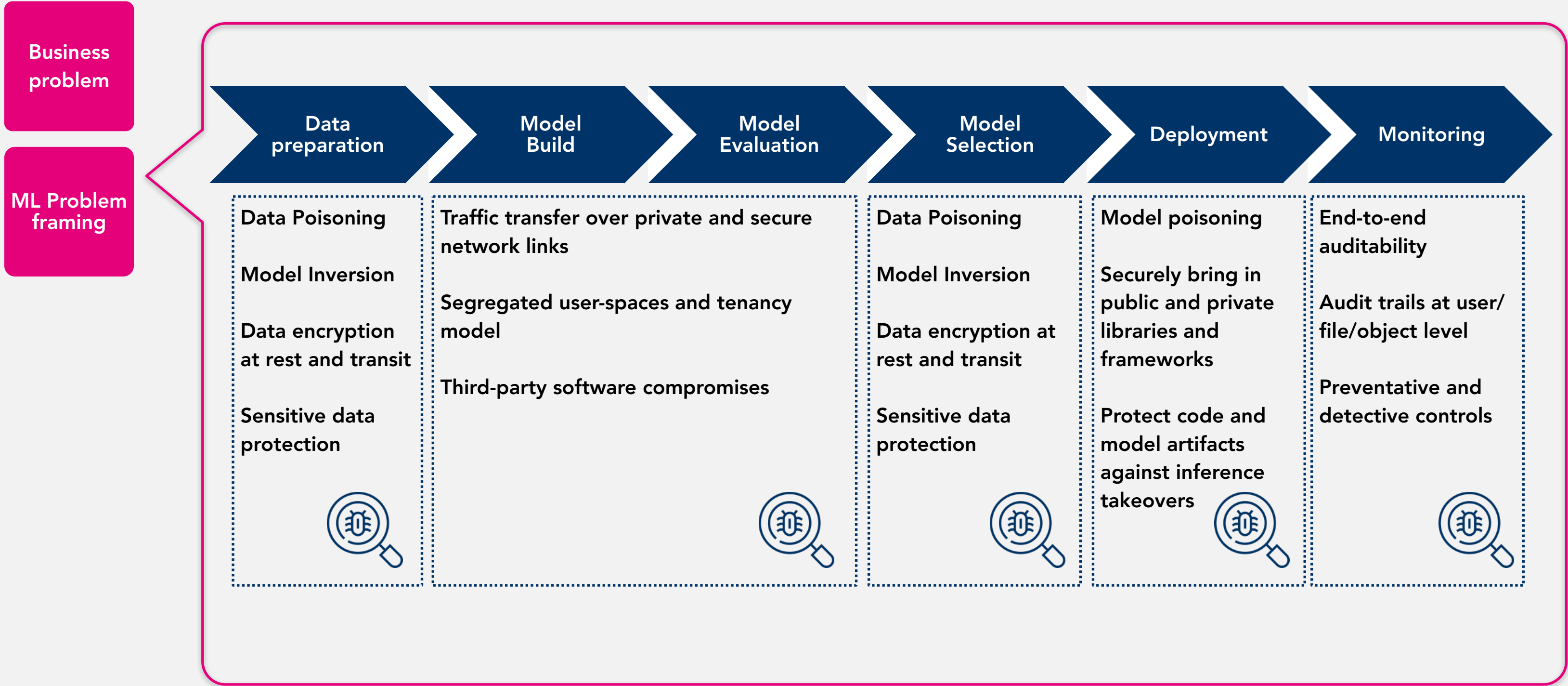
The ML Lifecycle,
Where the Gaps Usually Start

Security often enters late. Risk doesn't wait.



Security often enters late. Risk doesn't wait.

The ML Lifecycle, Where the Gaps Usually Start



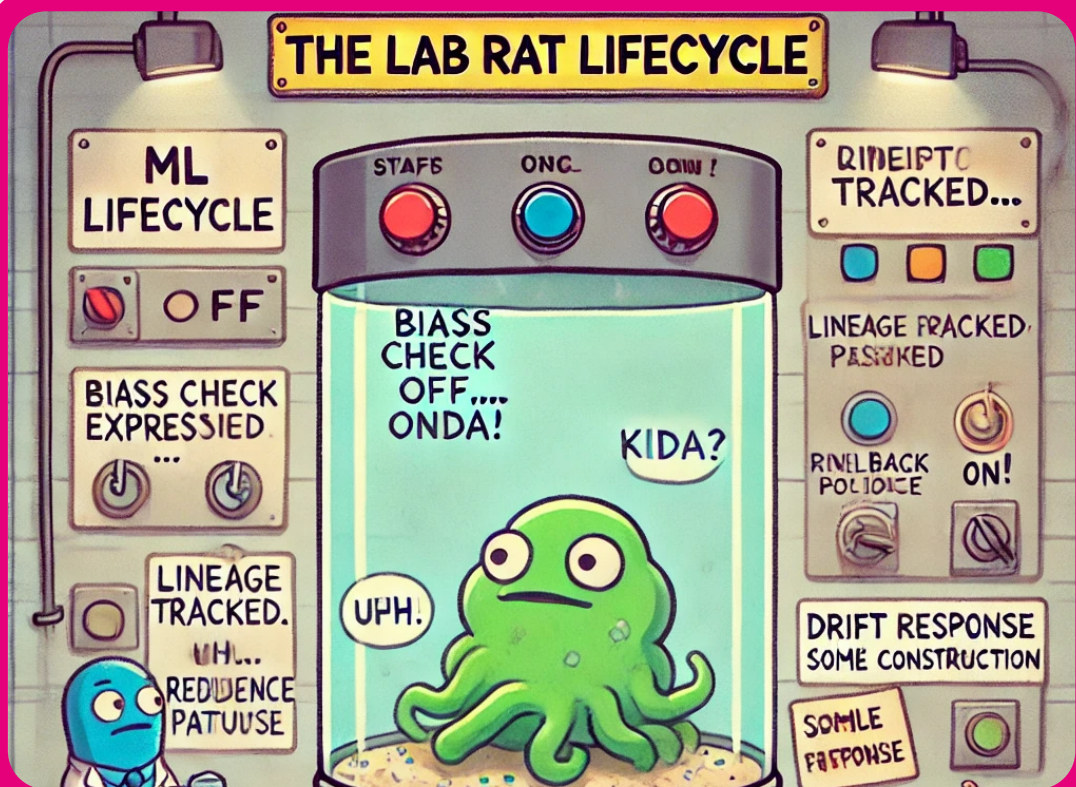
Adapted from AWS MLOps lifecycle — re:Invent 2024



Why Boards Care (Even If They Don't Say 'MLSecOps')



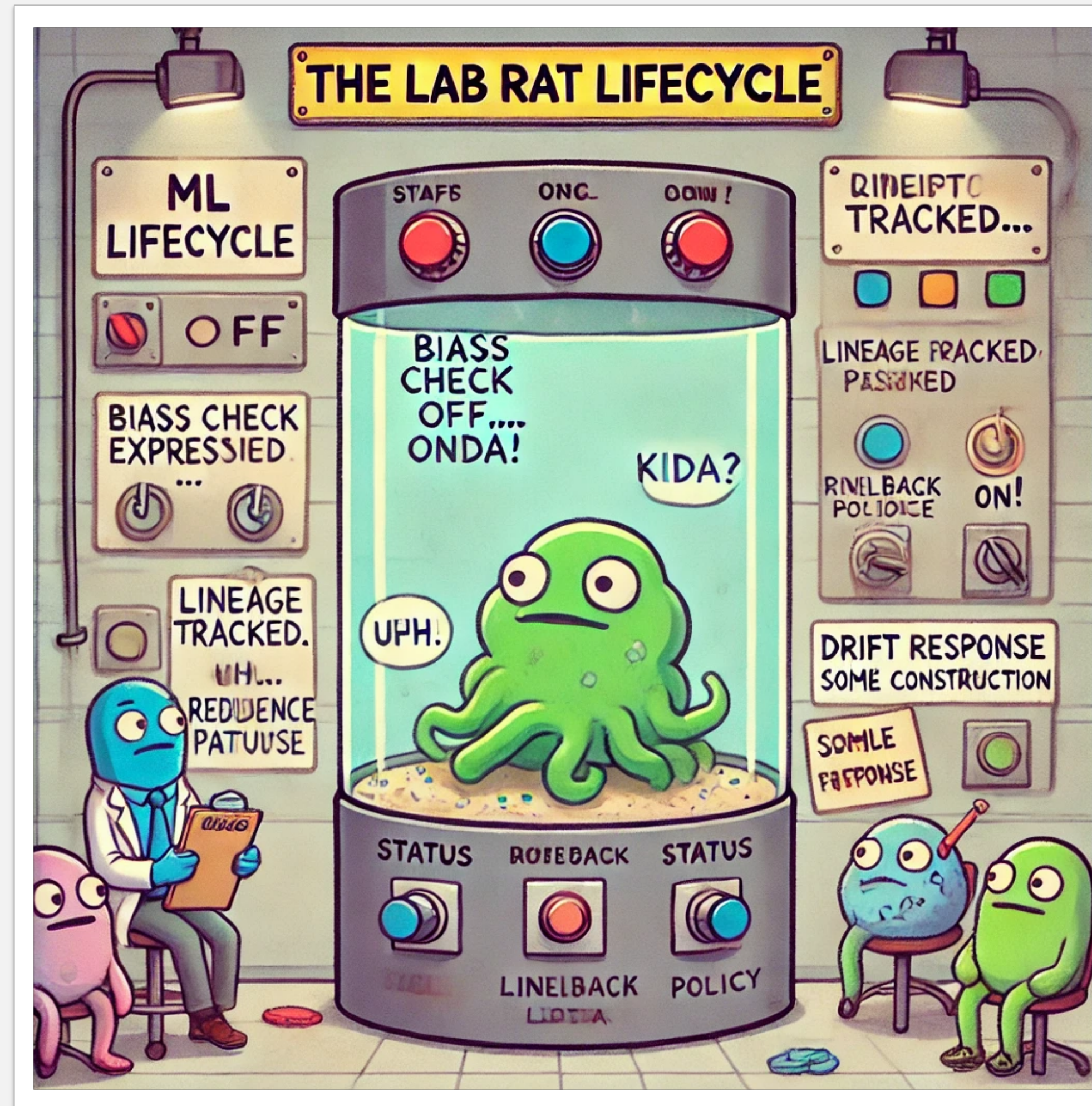
The ML Lifecycle, Revisited



Designing Resilience In (Not Bolting It On)

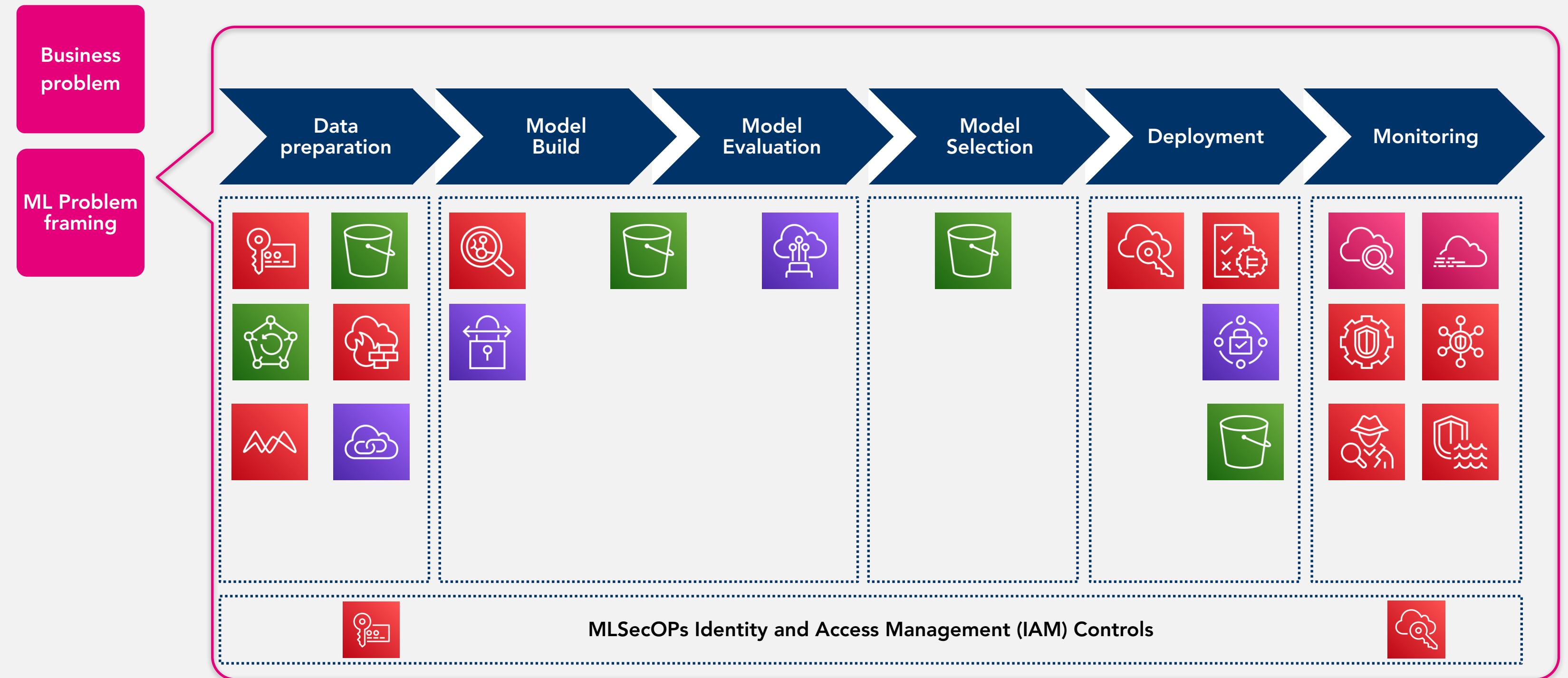
Designing Resilience In, Not Bolting It On

MLSecOps is how we express trust across the lifecycle — not once, but continuously.



Designing Resilience In, Not Bolting It On

MLSecOps is how we express trust across the lifecycle — not once, but continuously.



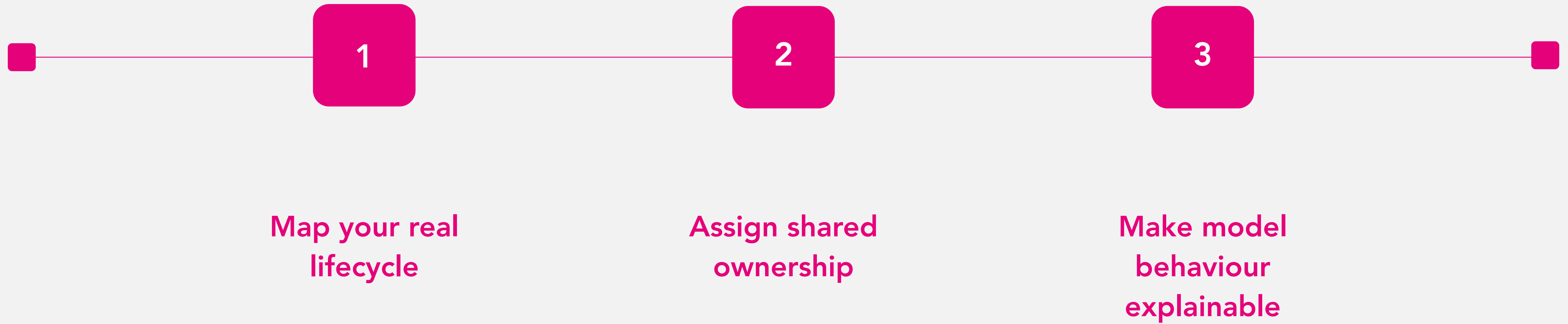
Adapted from AWS MLOps lifecycle — re:Invent 2024

Designing
Resilience In,
Where the
Friction Really
Lives

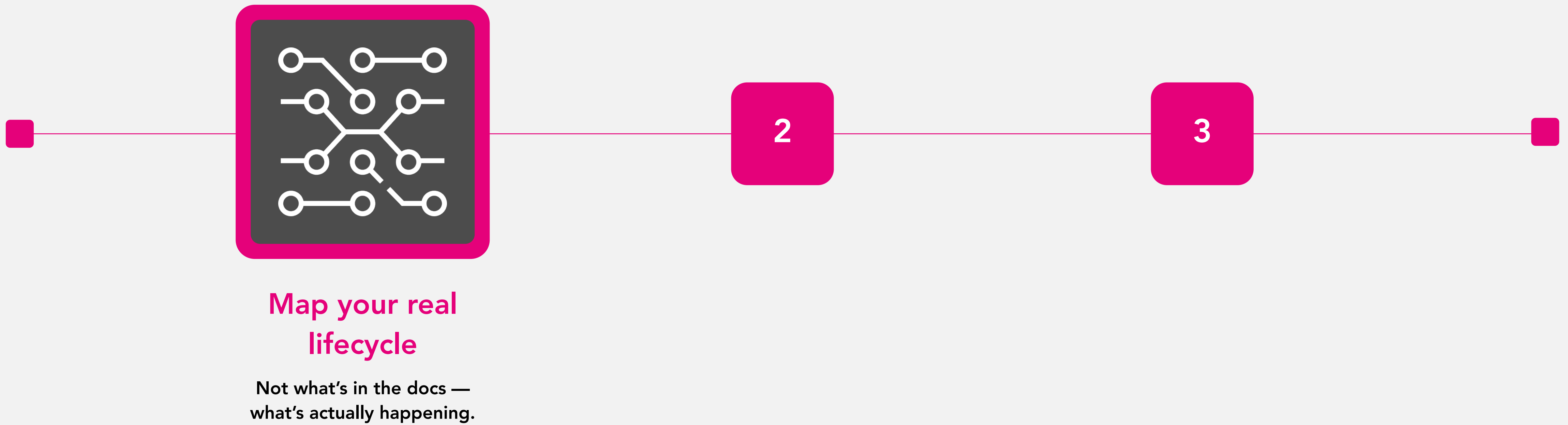
It's not a tooling problem. It's a coordination problem.



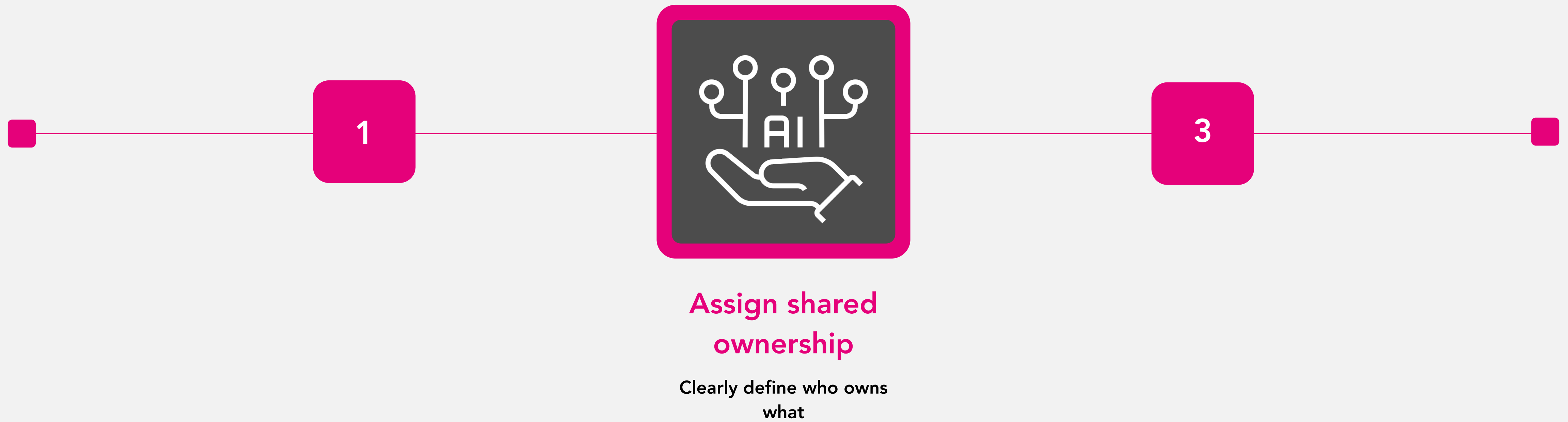
Ideas To Get You Started



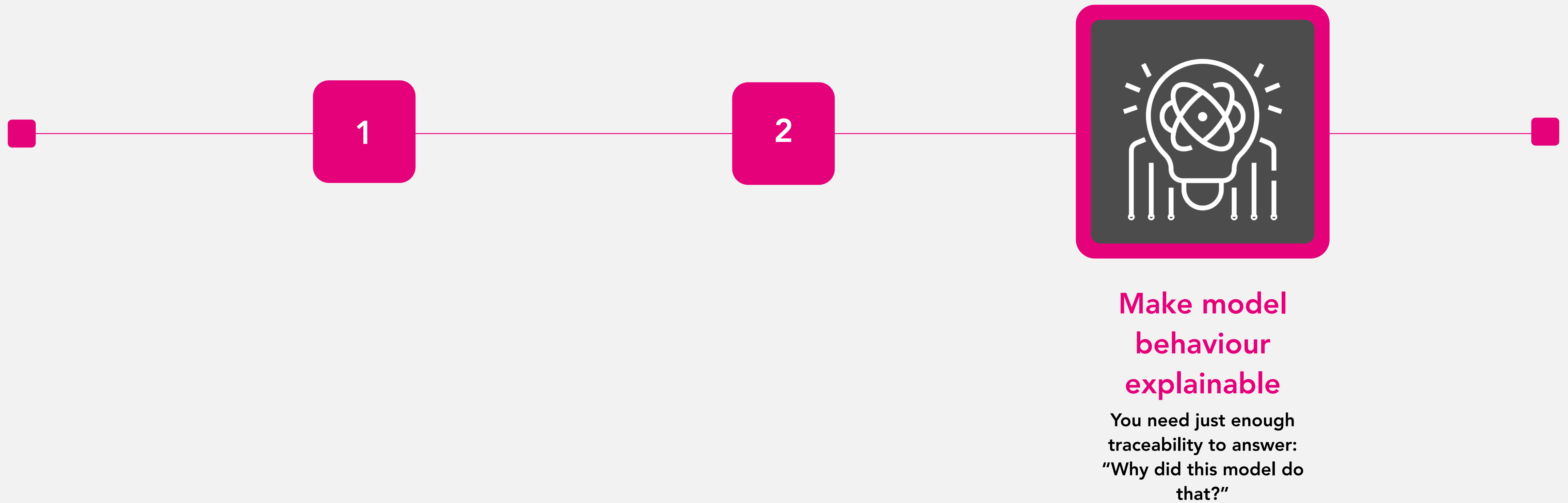
Ideas To Get You Started



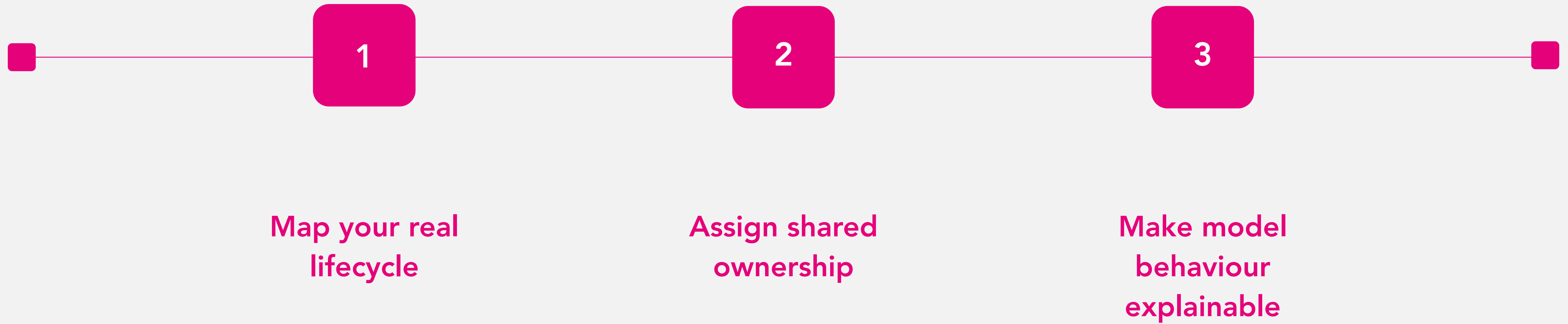
Ideas To Get You Started

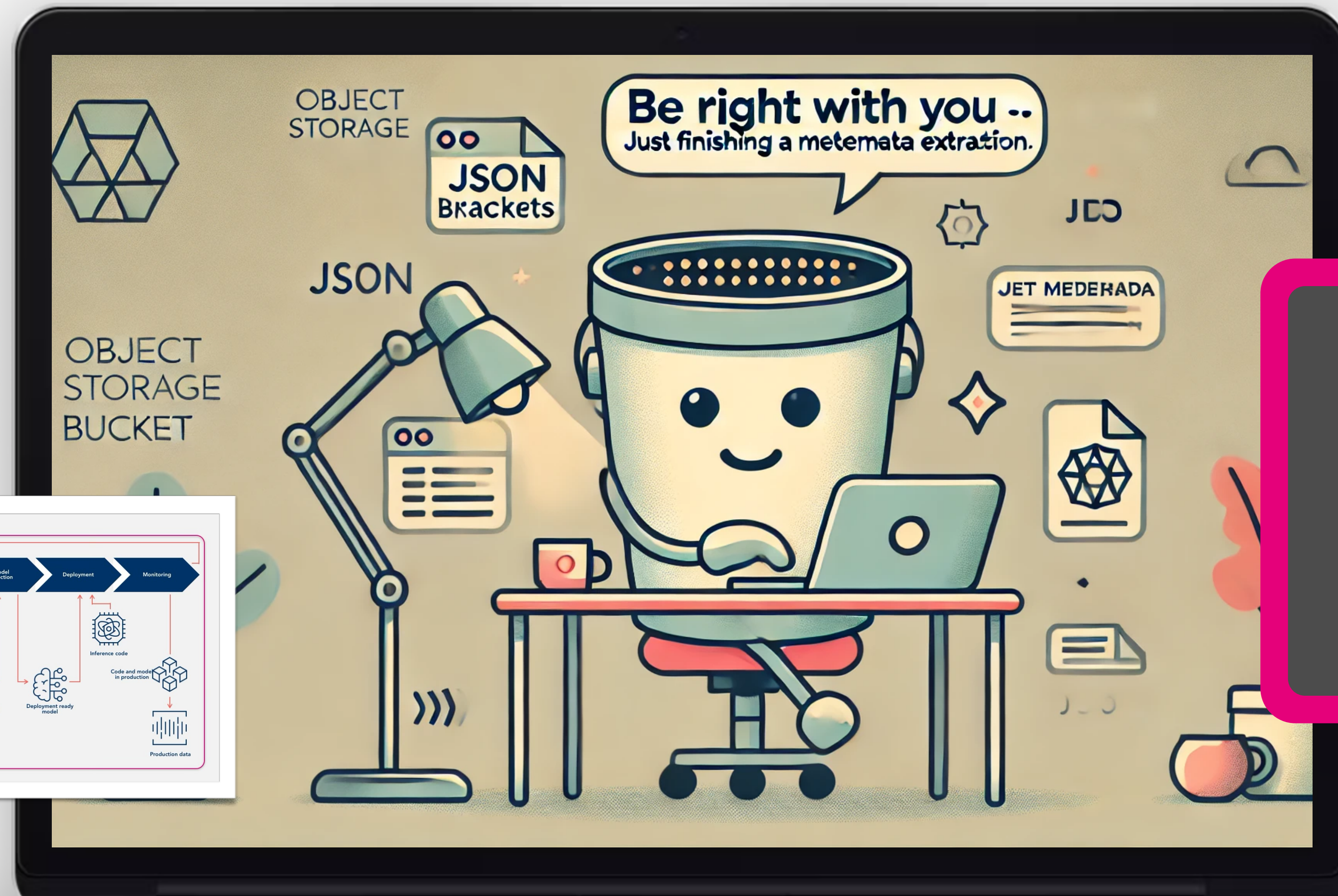
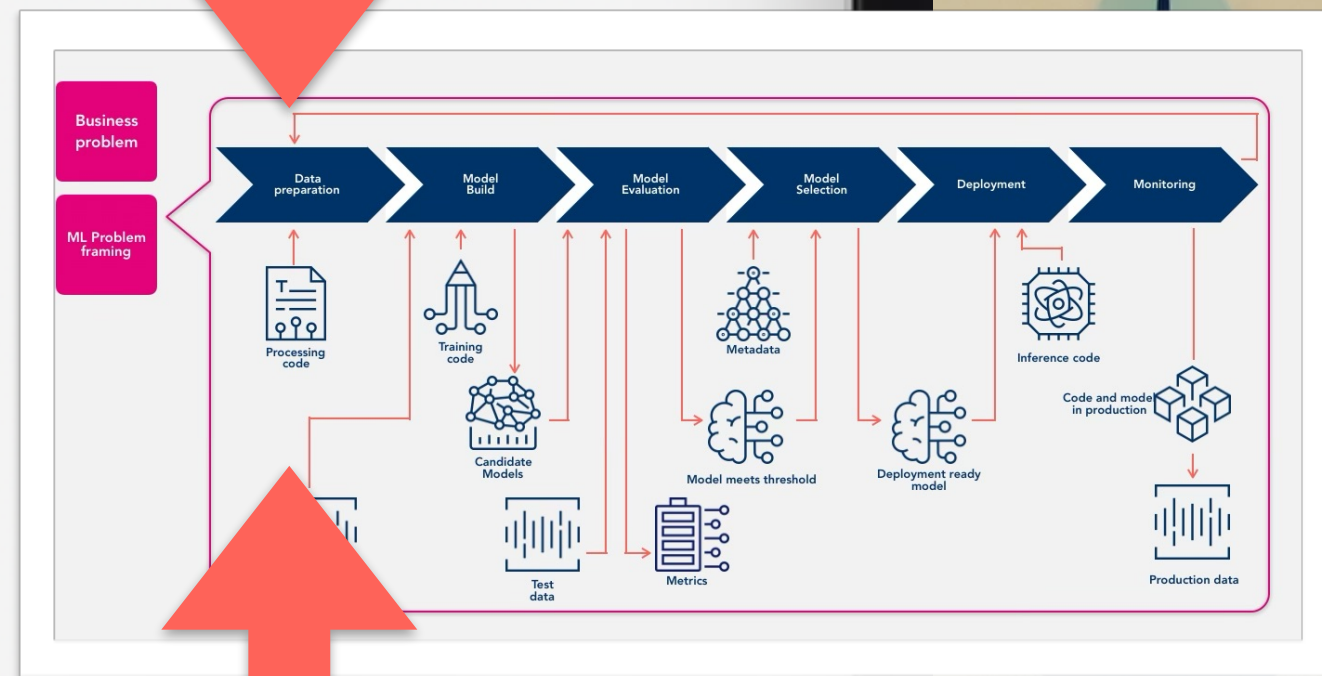


Ideas To Get You Started



Ideas To Get You Started





What Storage
Knows
(That You
Might Not)

Vriti Magee

www.linkedin.com/in/vriti



Thank you