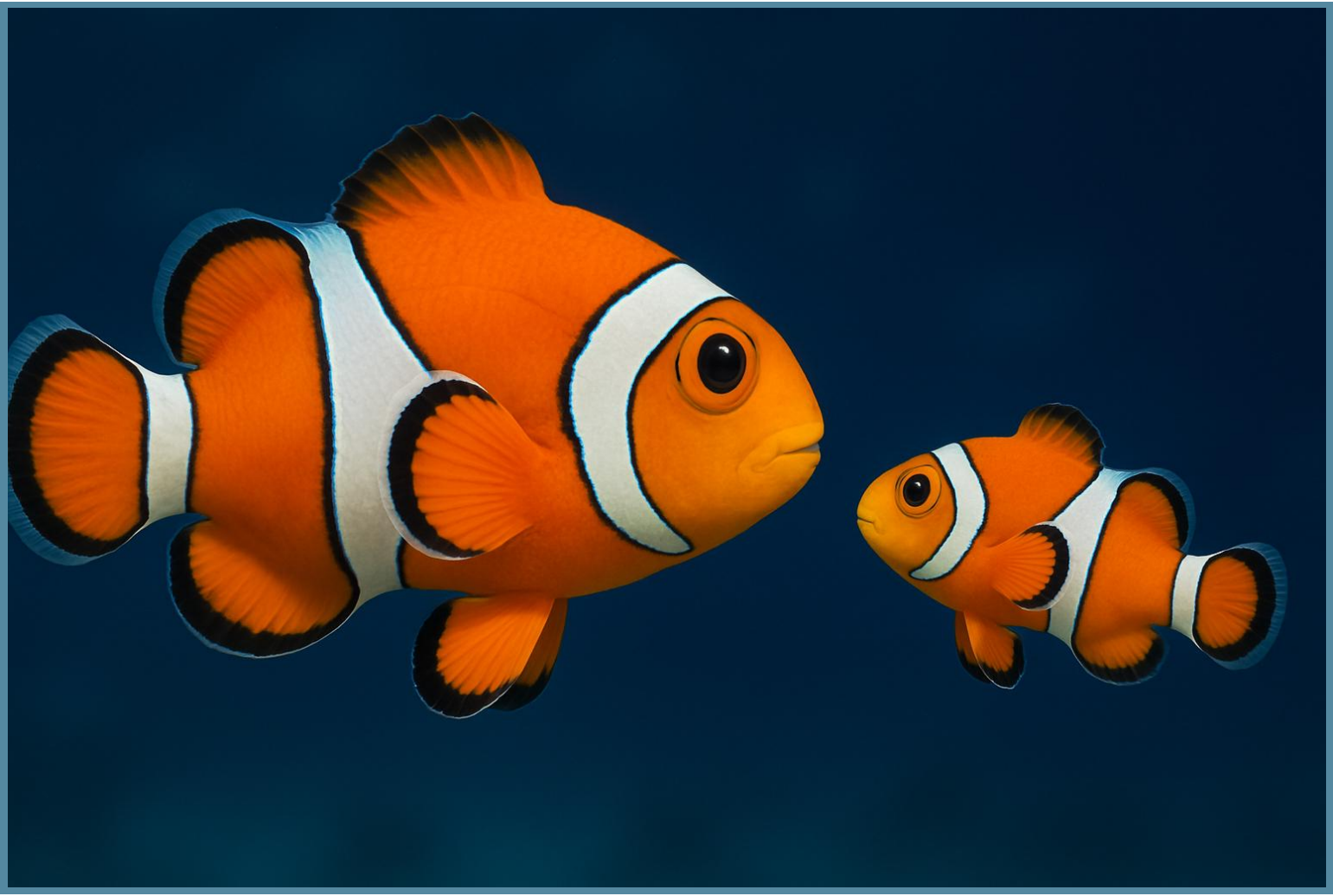
SCALING AND RE-ARCHITECTING SYSTEMS UNDER FIRE!



2004
YOU GET BUY-IN
YOU GET BUY-IN
YOU GET BUY-IN
YOU GET BUY-IN
YOU GET BUY-IN

VICKI KALMANOVICH

Senior Engineering Manager, **TomTom**

VICTORIYA KALMANOVICH

@VickiToVictory1

ברווזגומי

89%

App

372 Mentions

“Super easy to use ”

“User friendly ”

“Very intuitive”

76%

Battery Life

957 Mentions

“Strong battery”

“Outstanding”

“Could be better ”

97%

Monitor

505 Mentions

“Easy to use ”

“Works great ”

“Accurate ”

91%

Comfort

834 Mentions

“Comfortable”

“Super happy”

“Big like ”

95%

Workouts

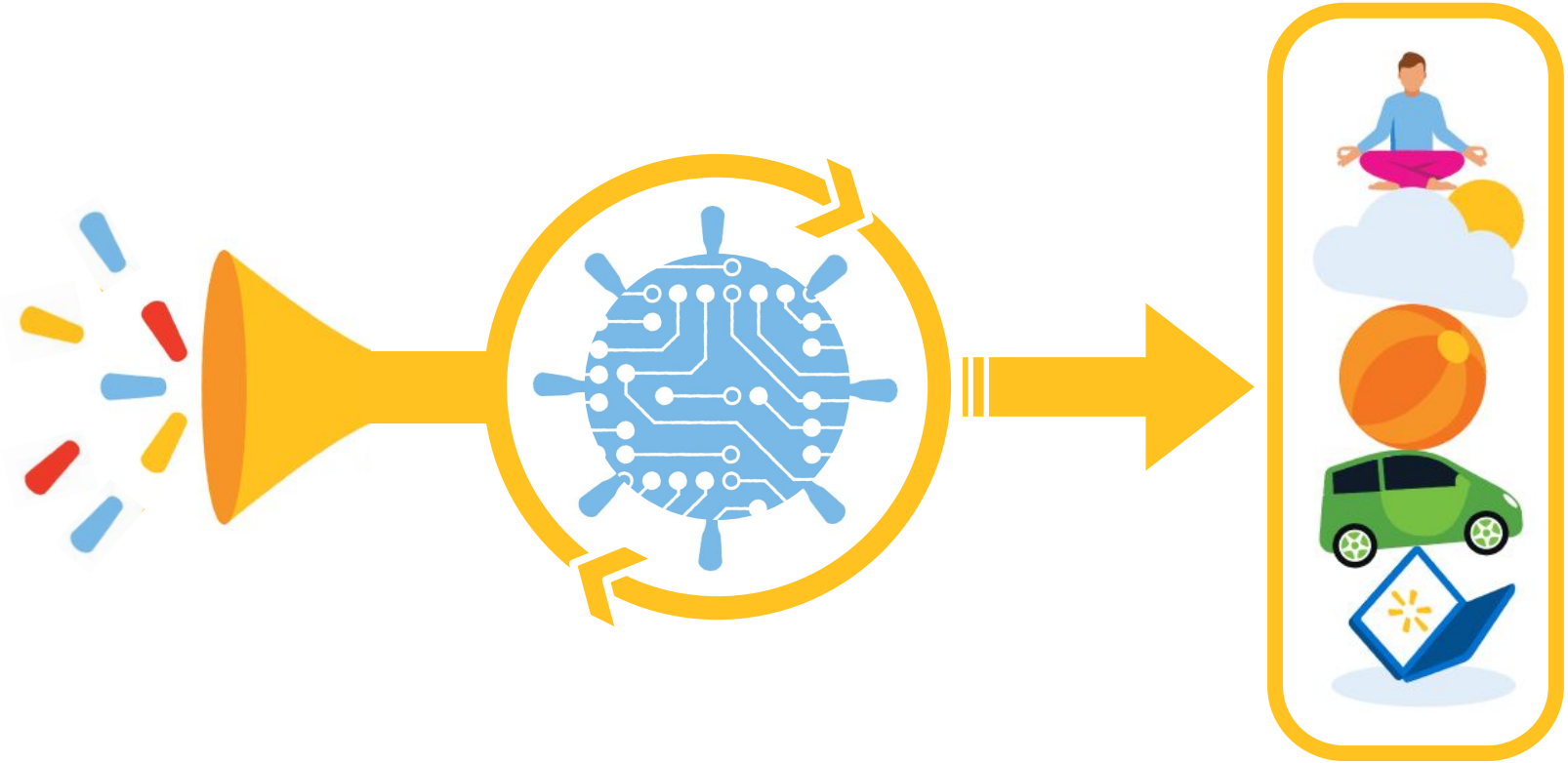
1120 Mentions

“Great for runners”

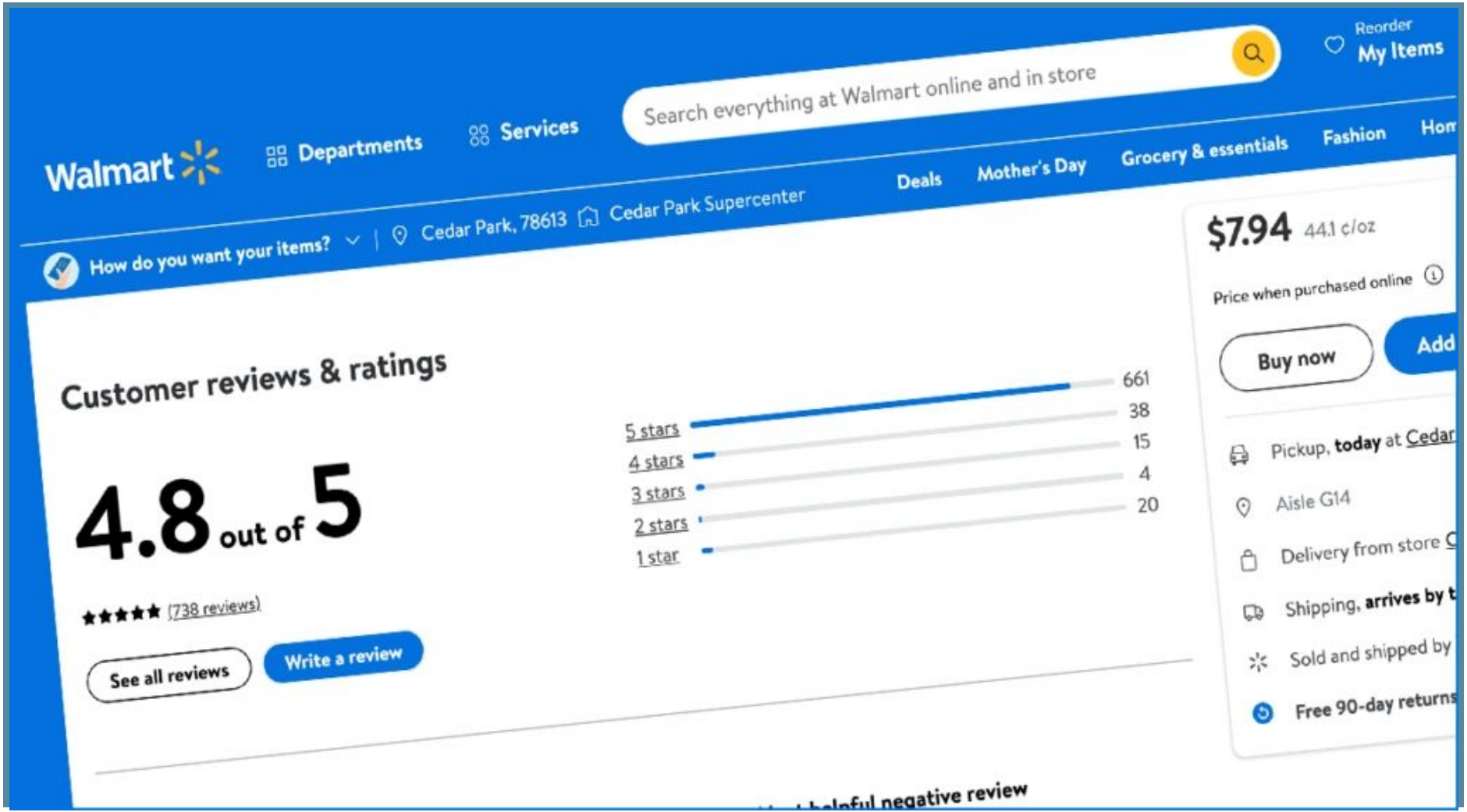
“Accurate”

“Recommended”

DATA COLLECTION **DATA ANALYSIS** **DATA APPLICATIONS**



REVIEWS COLLECTION PLATFORM


Walmart
Departments
Services
Search everything at Walmart online and in store
Reorder
My Items
How do you want your items?
Cedar Park, 78613
Cedar Park Supercenter
Deals
Mother's Day
Grocery & essentials
Fashion
Customer reviews & ratings
4.8 out of 5
(738 reviews)
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Write a review
5 stars 661
4 stars 38
3 stars 15
2 stars 4
1 star 20
$7.94 44.1 ¢/oz
Price when purchased online
Buy now
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Pickup, today at Cedar
Aisle G14
Delivery from store
Shipping, arrives by t
Sold and shipped by
Free 90-day returns
helpful negative review

GET BUY-IN ON EVERY STEP

AGENDA

1. GET BUY-IN ON THE PAINS
2. GET BUY-IN ON THE SOLUTIONS
3. GET BUY-IN DURING THE PROCESS

GET BUY-IN ON THE PAINS

AVAILABILITY

SCALABILITY

RELIABILITY

CALLS TO SERVICE

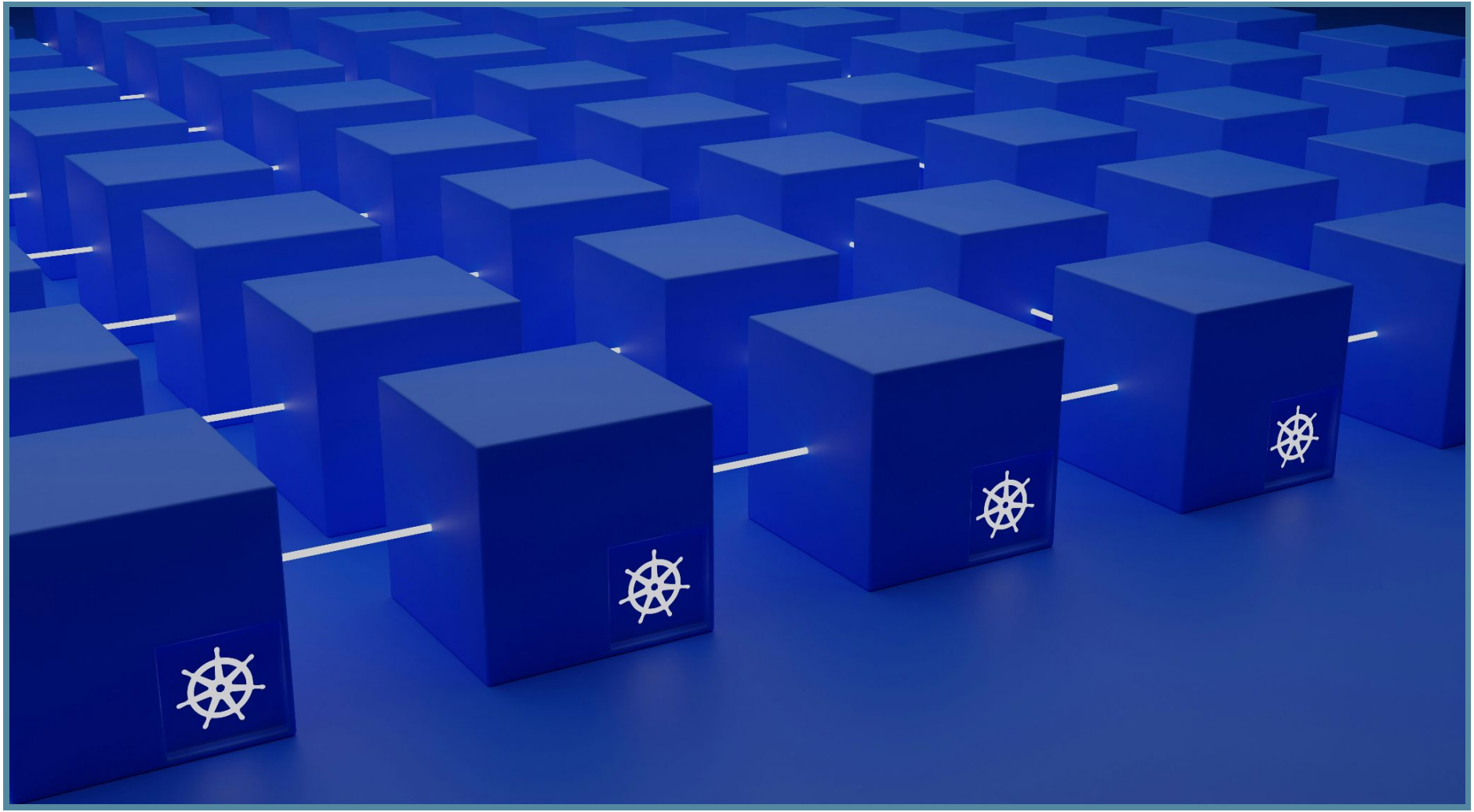
VOLUME OF DATA

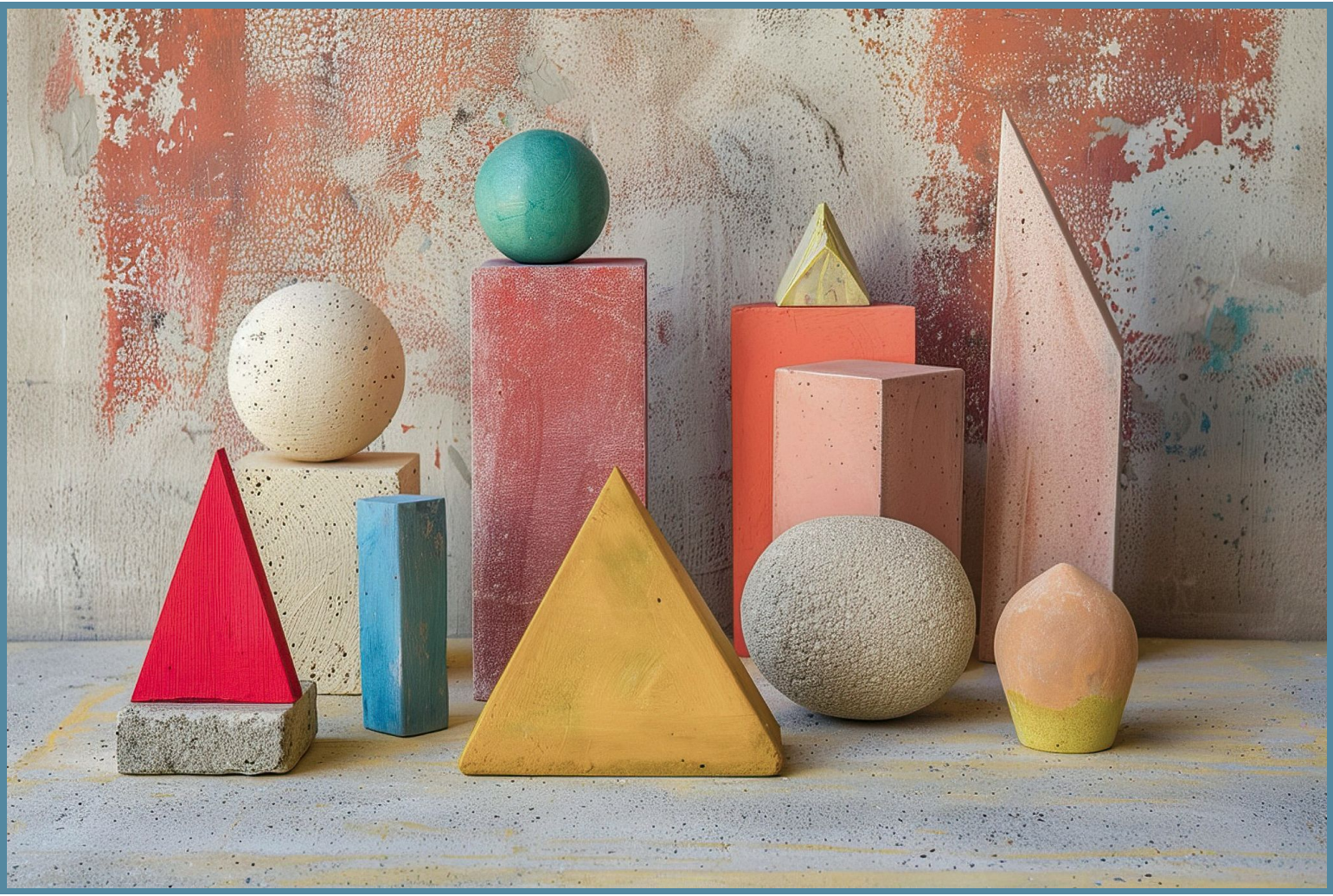
SYSTEM BEHAVIOUR

FOCUS ON IMPACT AND VALUE PROPOSITION

GET BUY-IN ON THE SOLUTIONS

高雄173海里
小嶼岛80海里
厦门110海里
台湾台北93海里
吉钓码头12海里





LEVEL OF EFFORT + IMPACT
=
RETURN ON INVESTMENT

FOCUS ON
RETURN ON INVESTMENT

GET BUY-IN DURING THE PROCESS

GET BUY-IN ON EVERY STEP

POC (MOST) STUFF

DON'T SPREAD TOO THIN

EXIT STRATEGY

STOP

GET BUY IN DURING THE PROCESS

1. COLLECT METRICS
2. GET THINGS DONE
3. BE FLEXIBLE

FOCUS ON IMPACT DURING LONG TERM EFFORTS

GET BUY-IN ON EVERY STEP

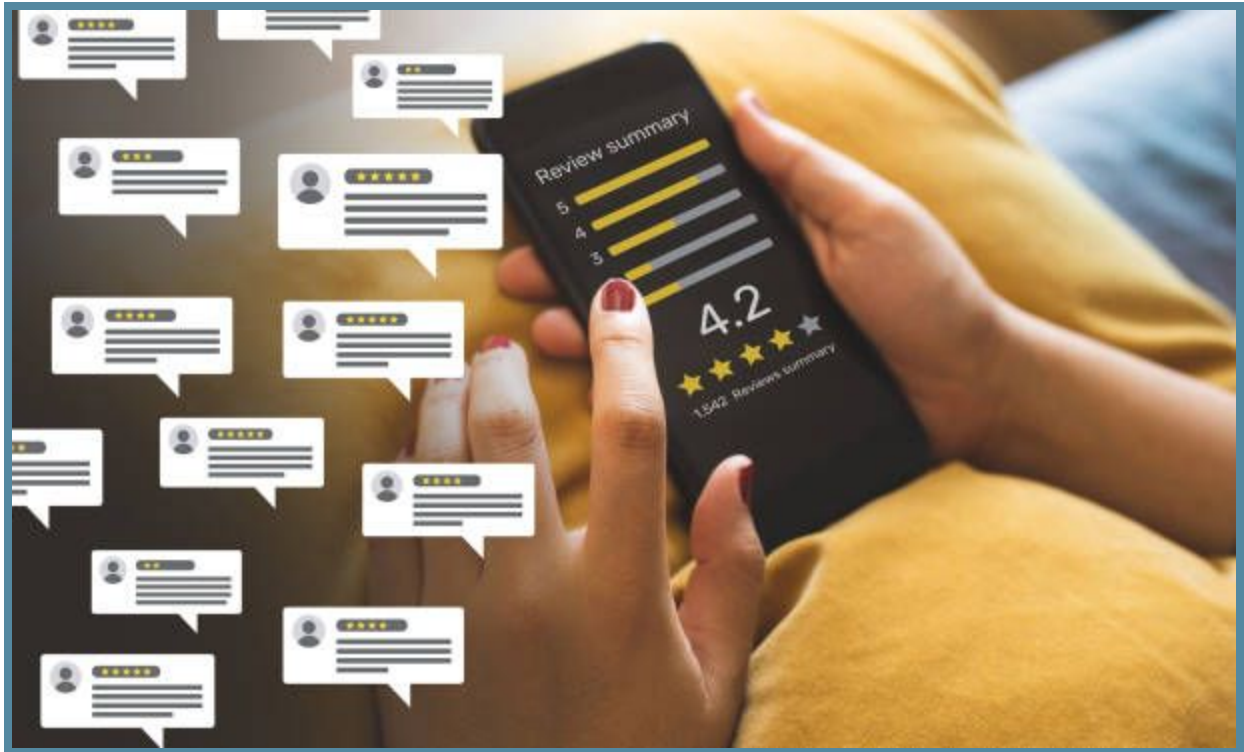
THANK YOU!

VICTORIYA KALMANOVICH

@VickiToVictory1

ברווזגומי

Introduce queues,
async over sync....
More examples


Review summary
5
4
3
4.2
1,542 Reviews summary

Less effort, not the great impact we anticipated (we did find bugs easier, separation of concerns helped with weird edge cases, but no improvement in scale - we wanted to utilise the microservices scaling differently components based on their usage)

extracted a heavy load service (the one with most pains around it) to be a microservice so it could be scaled up and we could serve more data faster while the rest would remain in the monolith, of course not a perfect solution and we've encountered problems with this one - but at least we now knew what helps get buy in - scale, both data volume and users served, availability and reliability.

Infra, feature, user bug, data quality, bug from CEO - didn't get anything done

Collect metrics, define acceptance criteria, define what is good enough, understand and communicate consequences of exit strategy and choosing option A

For today’s story I could tell you about all the technical details, the code, the architecture. But actually I’d like to talk about all of these through one main point.

I was working for a small startup that was acquired by Walmart. We were acquired for our NLP based technology.