# The (Big) Picture of Debt Tali Gutman Staff Engineer @ Datadog



### Technical Debt

It's the thing we all have opinions on...

#### WHERE TO FIND TECH DEBT

- Haunted Graveyards
- Systems' Cost of Success
- Regrettable API Choices
- Anything 3m+







In the beginning...

#### THE TRAGEDY OF THE COMMONS

WHEN SHORT-TERM SELF-INTEREST LEADS TO TRAGEDY FOR ALL

WATER BELONGS TO

SEEMS THERE'S LESS

ANYONE. I TAKE AS

AND LESS THESE DAYS

MUCH AS I WANT

A 8 8 FT

A 8 8 FT

sketchplanations

## Why Share?



## → Multi Cloud



## Why Not Services?



## → Too Much Work



#### noun

the circumstances that form the setting for an event, statement, or idea, and in terms of which it can be fully understood and assessed.



lmagine...

#### REQUIREMENTS:

- Database-as-a-service
- Service Framework
- \_
- Profit!





#### for idea in {service\_framework, database\_as\_a\_service}:

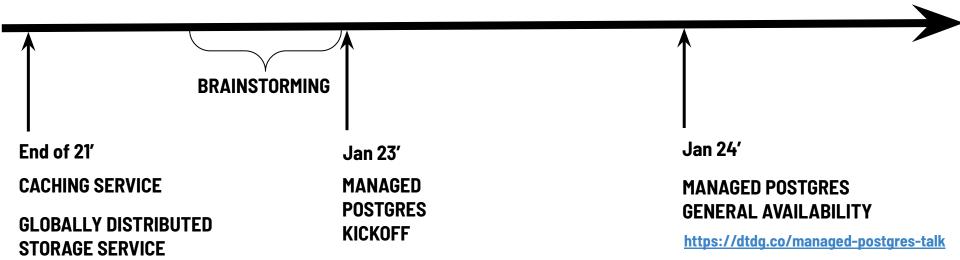
- identify which team would own the {idea}
- sell {idea} to them
- help them develop the vision
- let them convince...

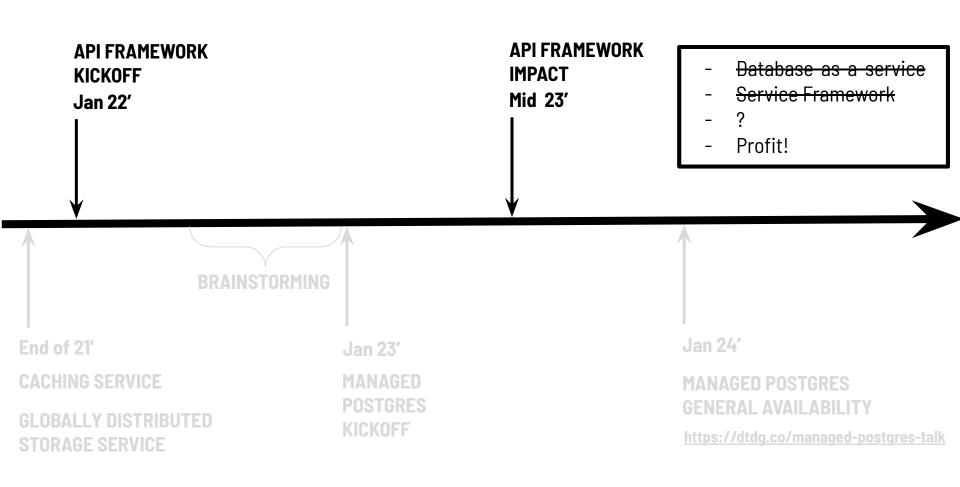


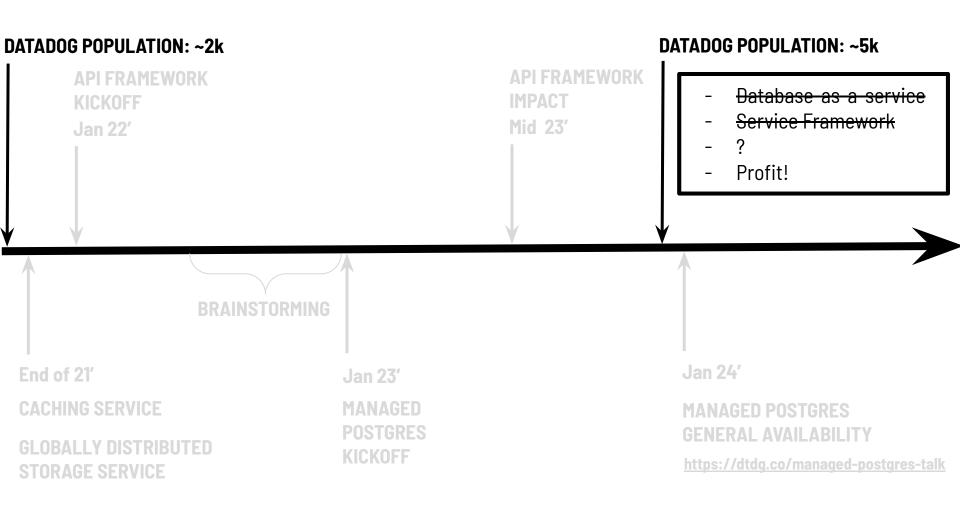


## An account of the passage of time

- <del>Database as a service</del>
- Service Framework
- ?
- Profit!

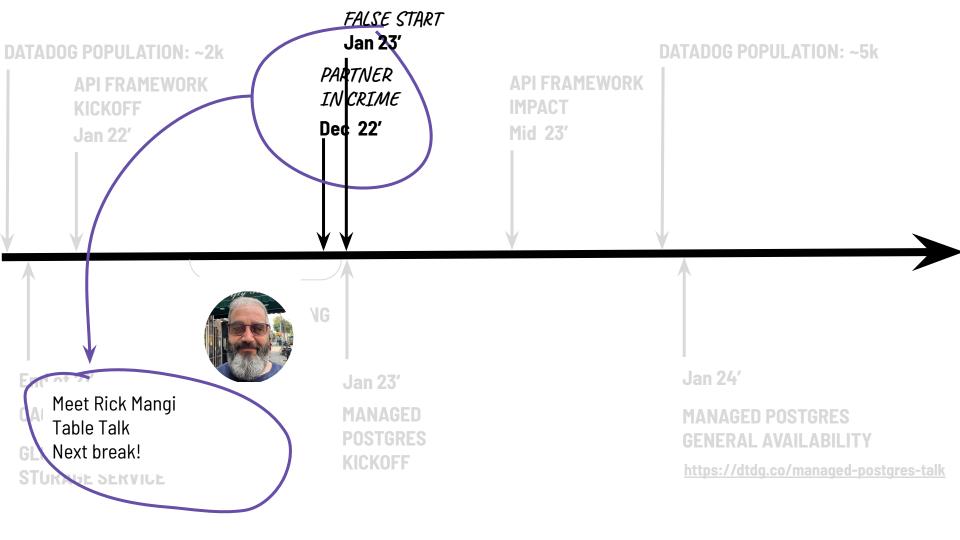








What's my job, again?



### Plan, Take 1

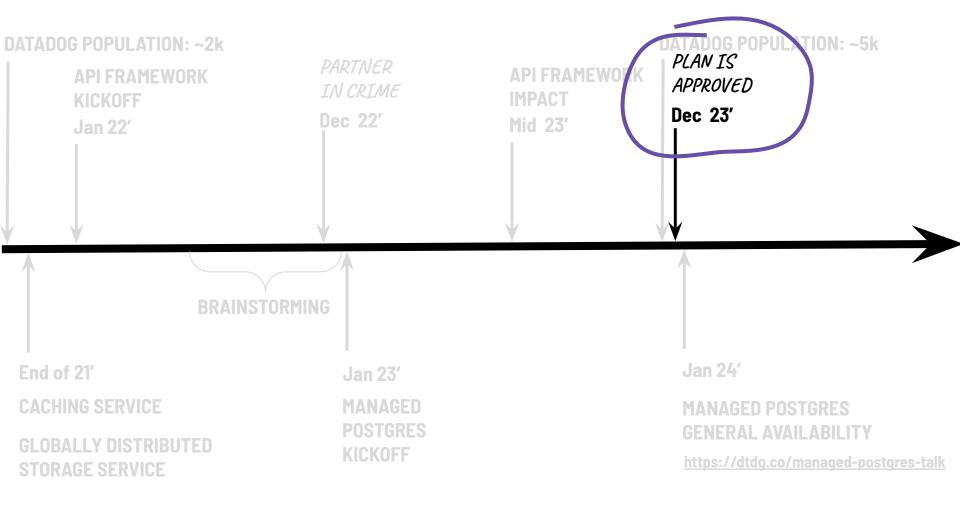
- 1. Build a service
- 2. Migrate everyone to Service
- 3. ...
- 4. Profit!



~~Every team will do a bunch of work that will solve a small fraction of their problems, and trust that we'll figure something out in the meantime.~~

### UNDERSTANDING WHERE WE ARE





### Plan, Take 2

- 1. Ownership Boundaries, unenforced
- 2. Enforcement → Self Service
- 3. Streamline DB Migration

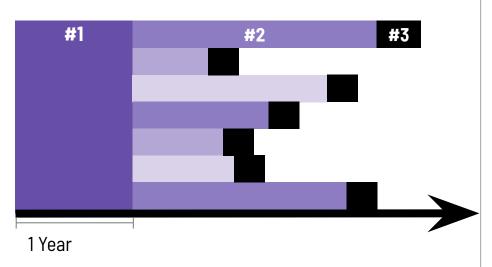


~~ We'll do everything we possibly can to make this easy and safe. ~~



## Going the Distance

### Some Hard Realizations



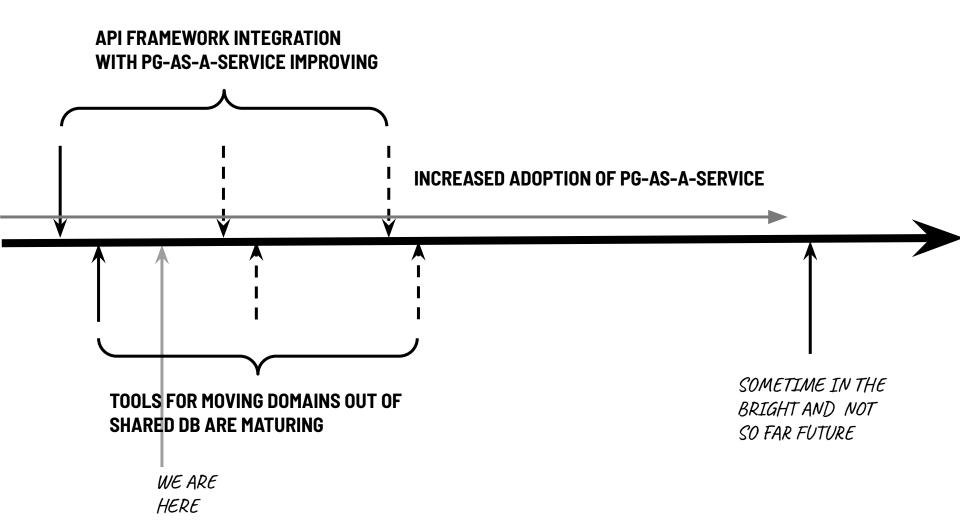




### LET IT GO!



What's my job, again?





## Looking back...

- Technical debt has context.
- · Curiosity is awesome.
- O Seeing is believing.
- O Time works magic.
- Aligned incentives go a long way.
- Cetting go is hard.
  - Good luck is good.



## THANKS

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