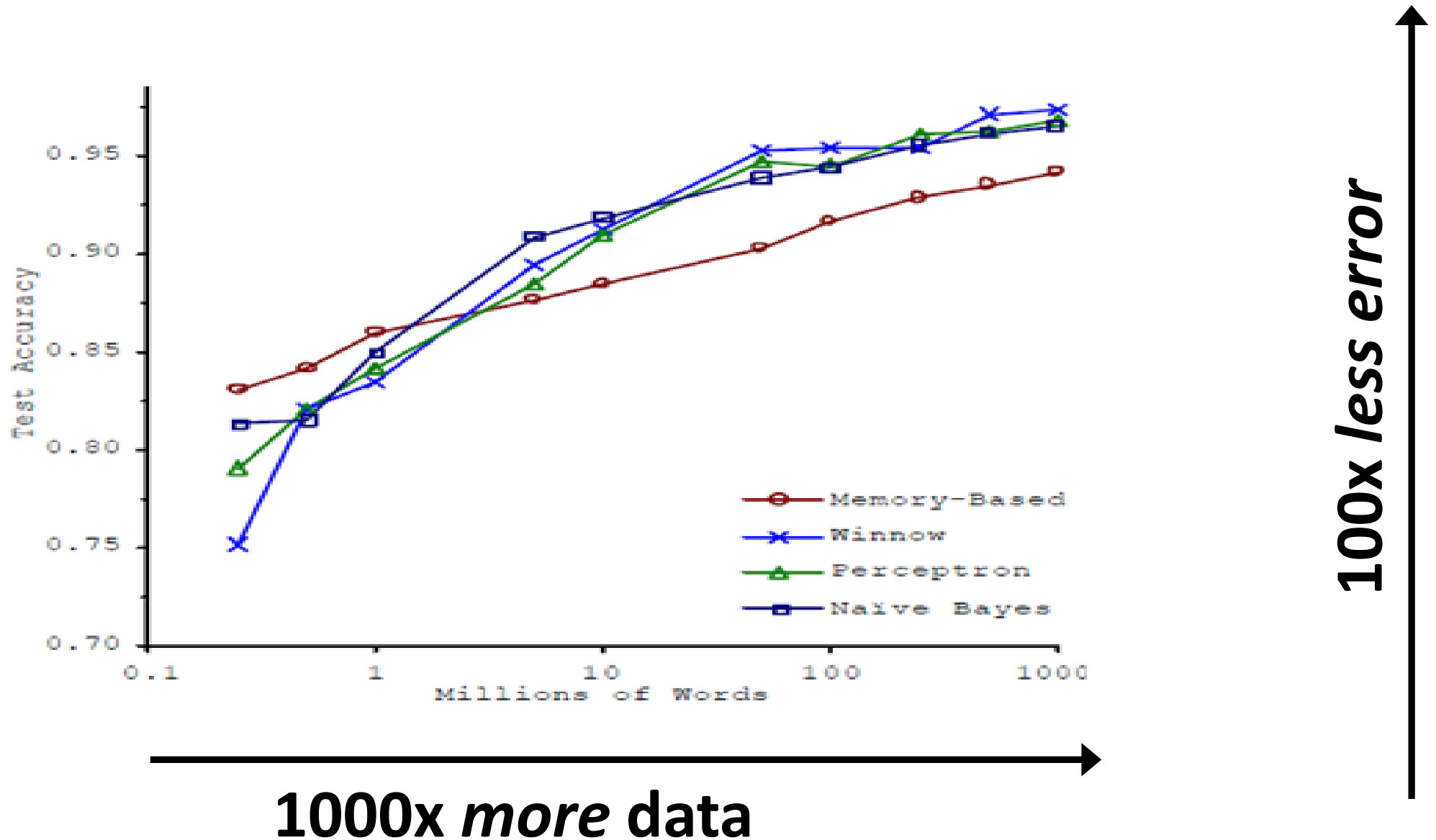




# Ocean & Health Care

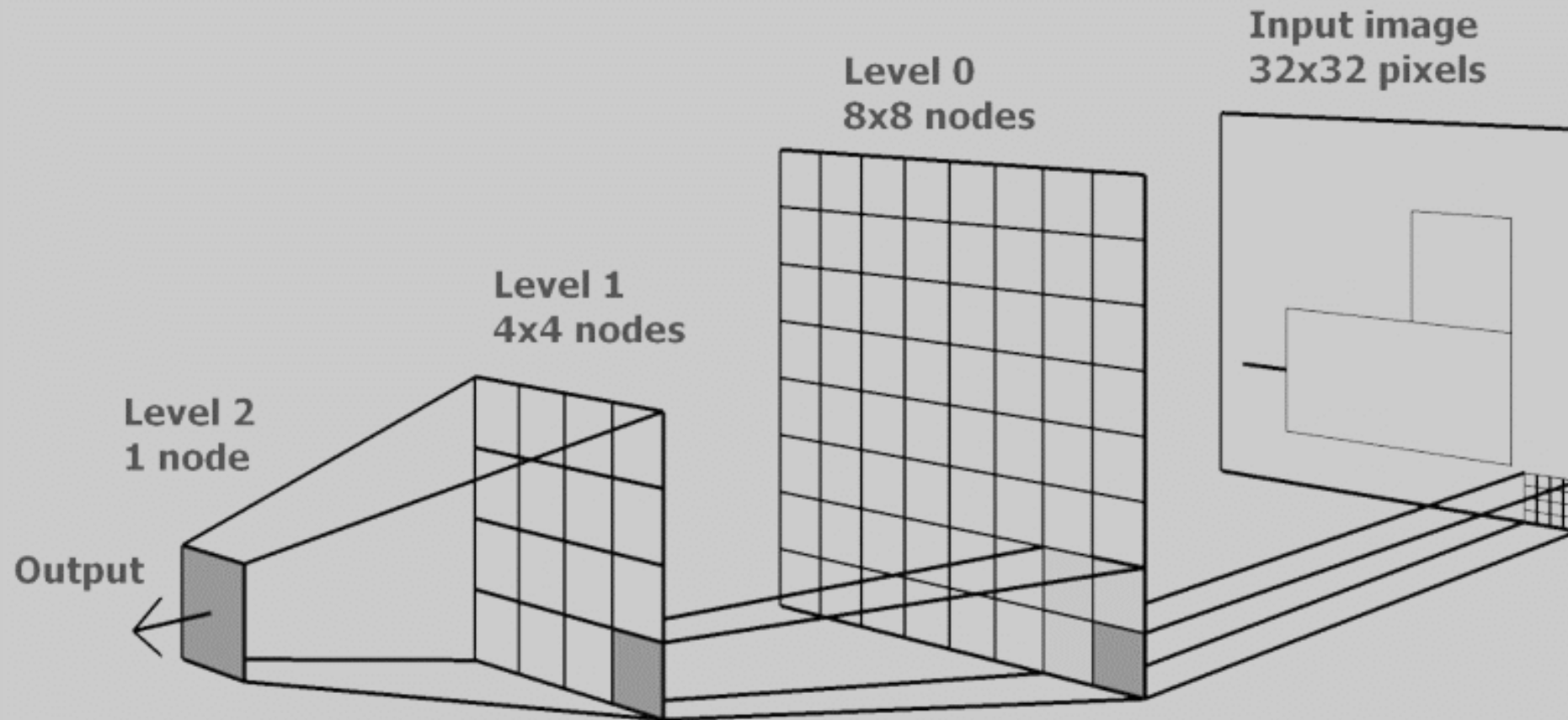
@oceanprotocol  
Trent McConaghy

# The Unreasonable Effectiveness of Data

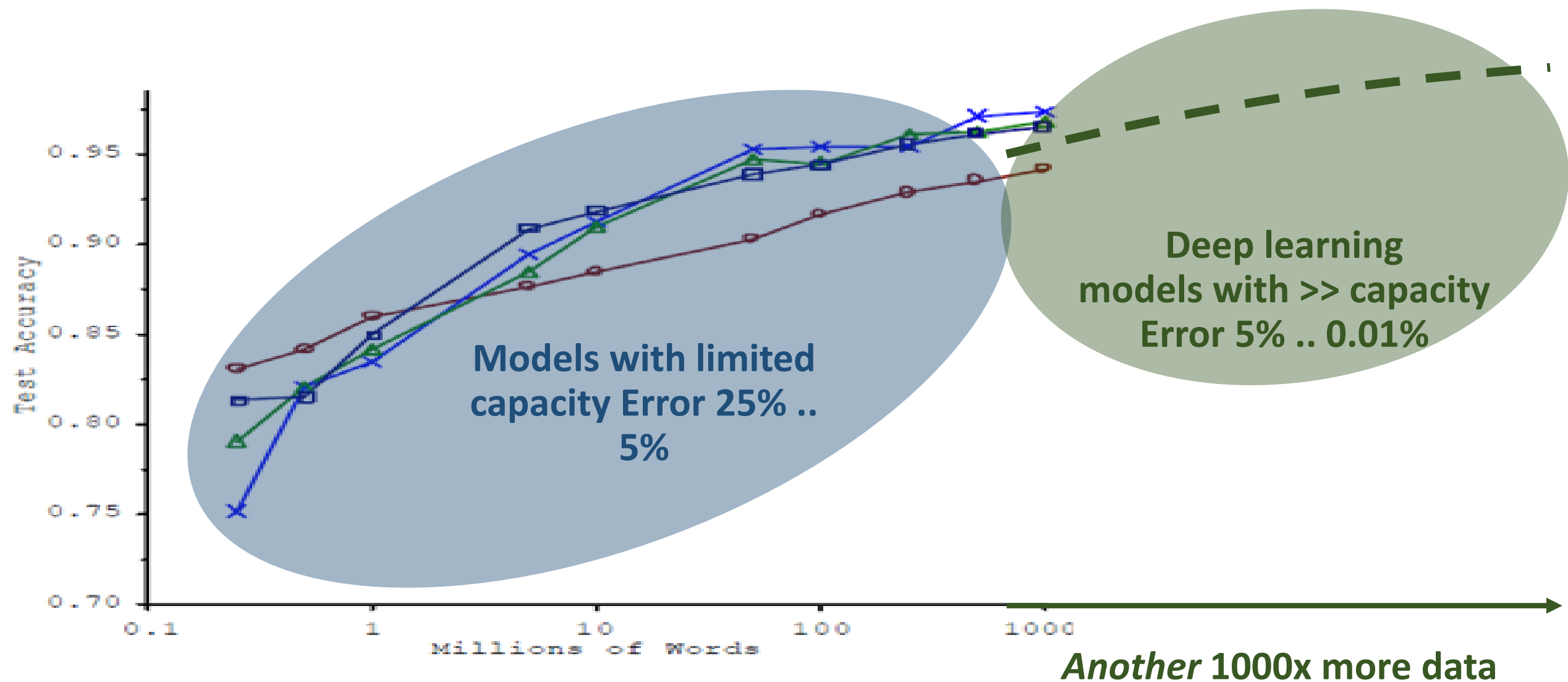


# Deep Learning: Neural Networks \* Moore's Law

≈1950s algorithms on 1000x+ more storage & compute



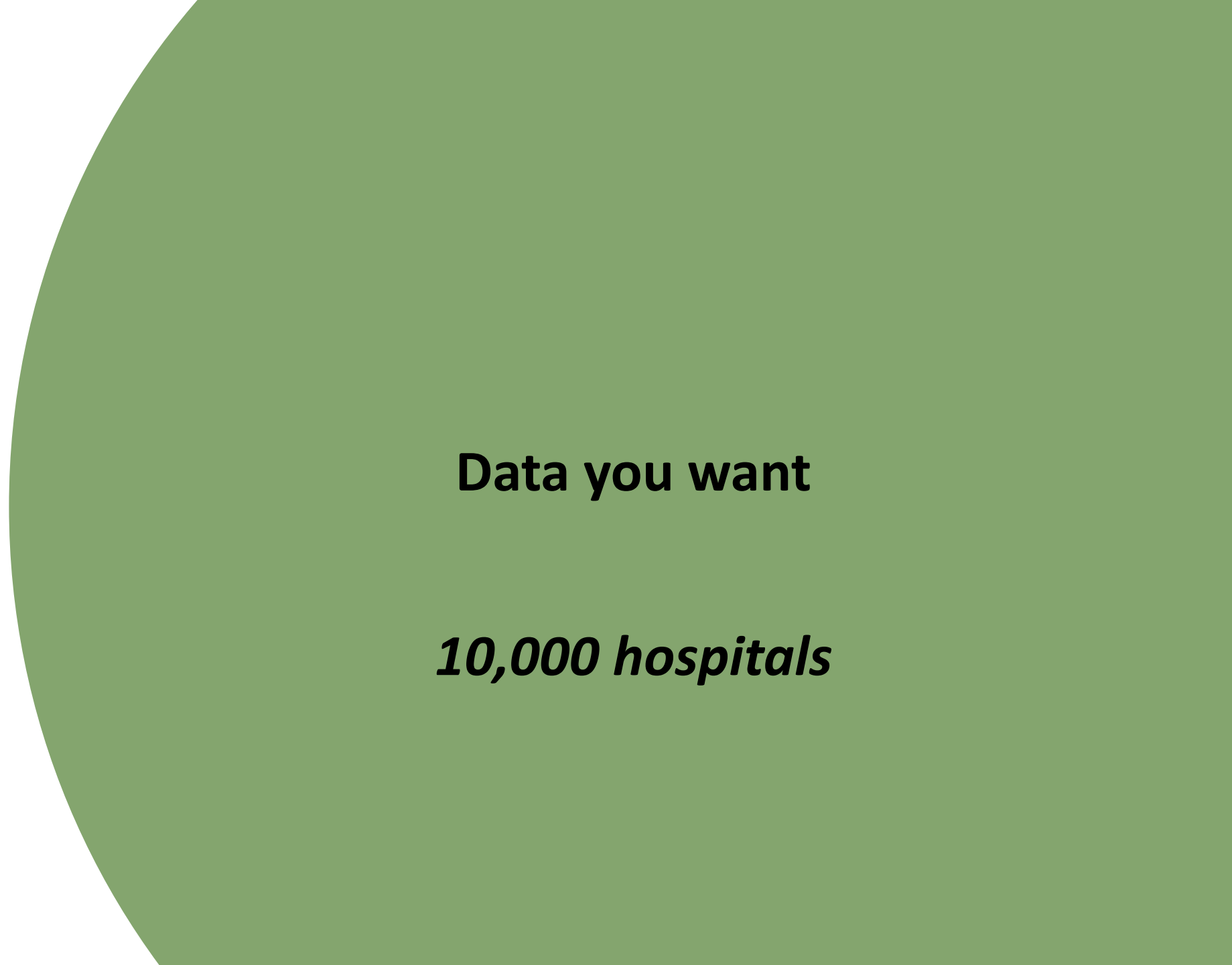
# Deep Learning *Loves* Data





**Data you  
have**

***1 hospital***



**Data you want**

***10,000 hospitals***



Data you  
have

***1 hospital***



**Showstopper:  
Privacy concerns**

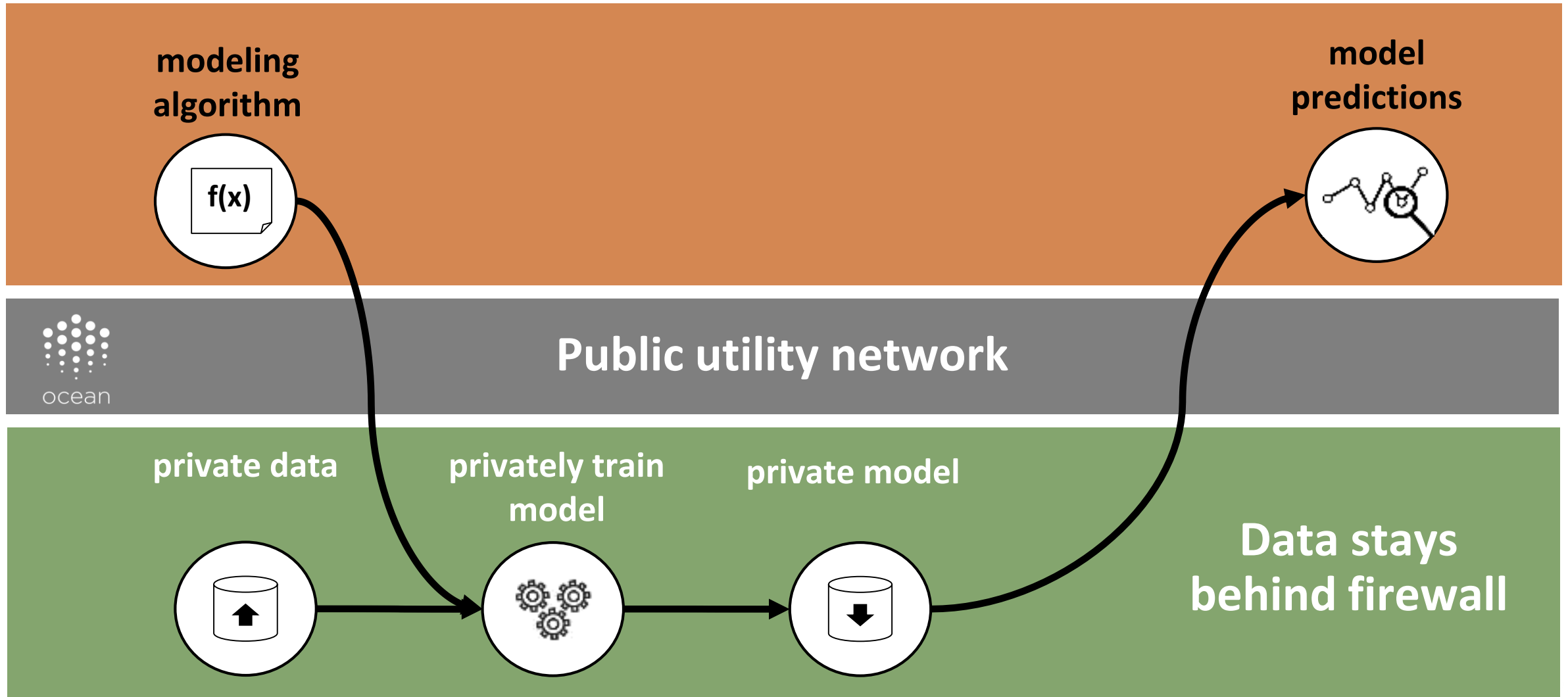
Data you want

***10,000 hospitals***

# A Fundamental Tradeoff?

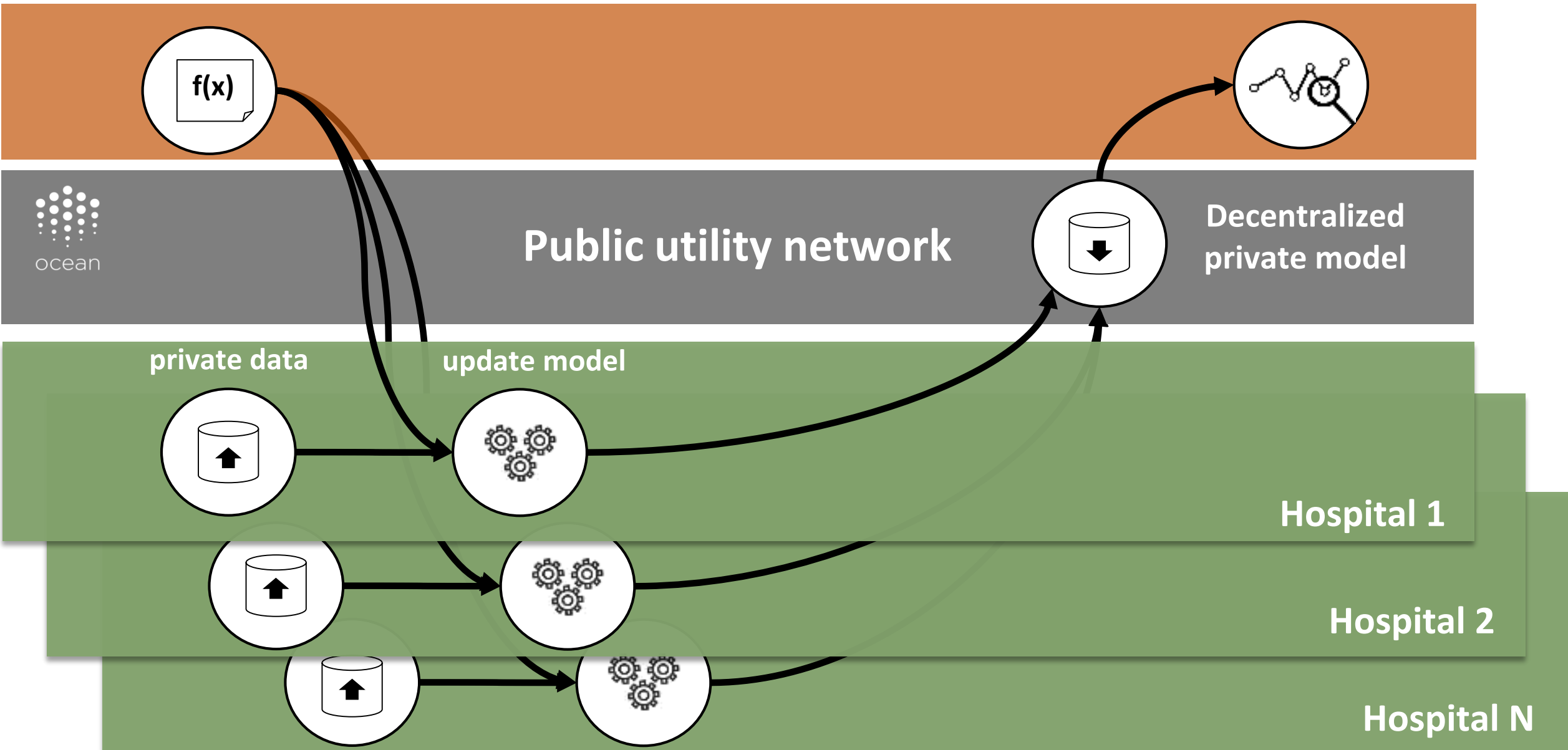


# What if we bring AI compute to the data?

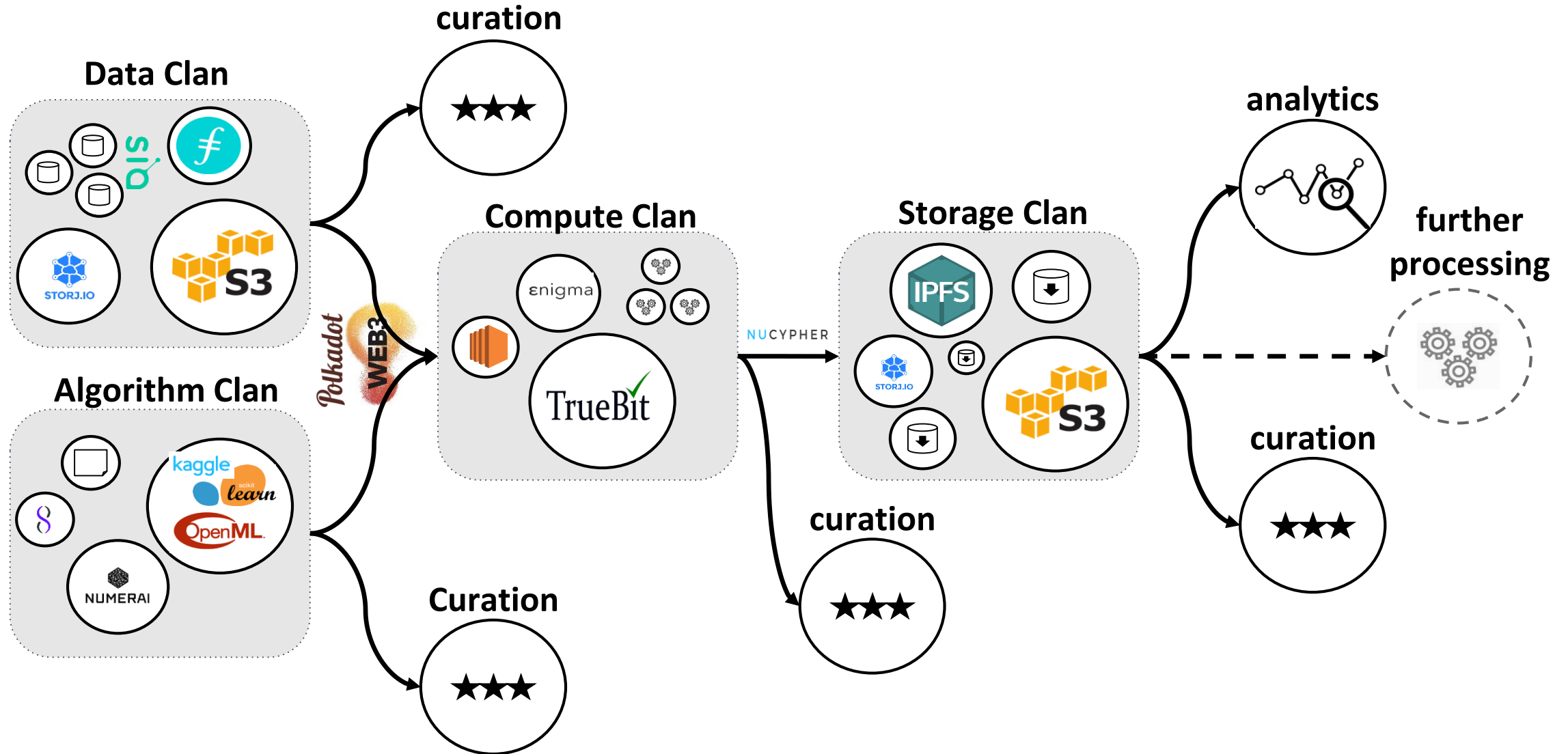




# Bring AI compute to the data, *across 10,000 hospitals* (Decentralized federated learning)



# Ocean is a Public Utility Network For Decentralized Orchestration (incl. Dec. Federated Learning)



# Ocean Resolves the Tradeoff by Bringing Compute to the Data (via Dec. Orchestration)



https://docs.oceanprotocol.com

Ocean Protocol Documentation - x

https://docs.oceanprotocol.com



ocean

# Ocean Protocol Documentation

Learn about the components of the Ocean Protocol software stack,  
and how to run or use the components relevant to you.

## Core Concepts

Understand the fundamentals  
of Ocean Protocol.

[Learn More →](#)

## Setup Guides

Setting up the Ocean Protocol  
components.

[Learn More →](#)

## Tutorials

Browse tutorials for most  
common setup and  
development use-cases.

[Learn More →](#)





# Manta Ray


## Data Science powered by Ocean Protocol

The **Manta Ray** notebooks provide a guided tour of Ocean Protocol in an interactive Jupyter Notebook environment. Start using Ocean Protocol with your own pre-configured and loaded cloud instance after login with your GitHub account.

**This project is in alpha!** Feel free to ask questions and post bug reports in [our Gitter channel](#). Notebooks are for tutorial and demonstration purpose only. Notebook instances may be periodically offline, and storage volumes will be purged.

JupyterLab Instance



A photograph of an elderly couple and their two young children outdoors. The man on the left is wearing a red and white striped shirt and glasses, smiling. The woman on the right is wearing a maroon top and glasses, looking down at a baby. The baby is wearing a maroon top and a white flower headband. A young child with blonde hair is sitting next to the woman, looking up. The background is a blurred outdoor setting with trees and a building.

# **ConnectedLife: Better predict Parkinson's by connecting data across hospitals**



**Data you  
have**

***1 hospital***



**Data you'll get!**

***10,000 hospitals***