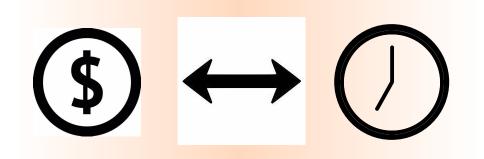
kyvos Money is Time

#### What are We Here to Talk About Today

- Money = Time = Money
- What do we mean when we say that Money is Time is Money?



#### But First... Some JSON Bio Notes

- "name": "Guillermo"
- "Job": ":Sales Leader, Kyvos Insights Software"[I will be followed by]
- "Former Jobs": "Pivotal Software, Vmware, U.S.
  Army Engineer"
- "Funny Story":
- In my career, I have been a technology implementer, supporter, seller, and purchaser
- You: Hybrid Group of Fin & Tech / Analytics
- Frequent customer feedback: Confusing Space

#### So a Few Notes about Sensemaking in the BI Tech Space



Sales | Sensemaking for Sales



Sign In

#### Sales

## **Sensemaking for Sales**

Your customers are overwhelmed with information. Help them figure out what they need to know. by Brent Adamson

From the Magazine (January-February 2022)

#### Got the Time?

#### Time

- The Denomination of Our Lives (Mortgage)
- Relative (E=MC<sup>2</sup>)
- Our Scarcest Resource, essentially equally distributed across the population
- The Universal Foreign Key



#### Got the Money?

#### Money:

 The quantification of opportunity cost for spending the time currency

$$PV = FV / 1+R$$

where Interest is the quantification of the reward for lost agency, lost opportunity

- Reliable medium of exchange for all transactions
- Fungible token, goal of capitalism is to optimize its accretion



## What's Business Intelligence

- The utilization of data to improve decision making:
  - Timely
  - Accurate
  - Valid
  - Actionable
- The time-bound management of uncertainty

## Top Performers

Make decisions more quickly; ceteris paribus:
 Sooner is faster is better

 Ability to get inside the OODA Loop (competitors, customers, exogenous events)



#### So, In a World Where:

- Decision quality and velocity correlate with greater profitability
- How do we optimize our BI technology choices for max success?

## 3 Humble Propositions

Faster is Better



#### 2nd Humble Proposition

First time faster is better

- Under-discussed first order impact of Gen Al
- Explosion of conversion of data from unstructured to semi / structured
- Expansion of self-service BI
- Expansion of ad hoc as default

## 3rd Humble Proposition

Don't Cargo Cult (Gen)Al

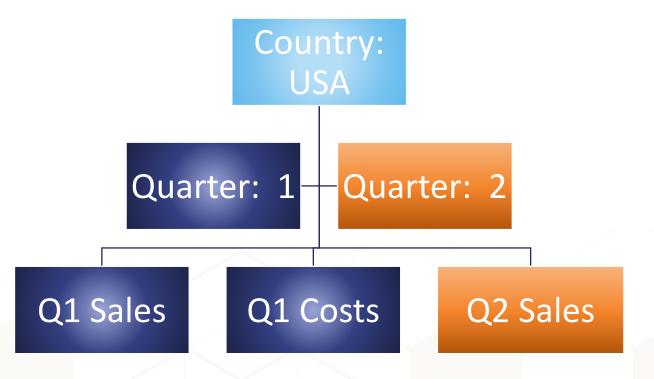
- Story from a friend
- Tech Adoption: What Peter Thiel said
- Neither a Luddite nor a Rabbit be
- Golden Mean: Thoughtful, deliberate implementations, explainable without hyperbole

# Transition from Why to How...

kyvos Why We're Always Faster

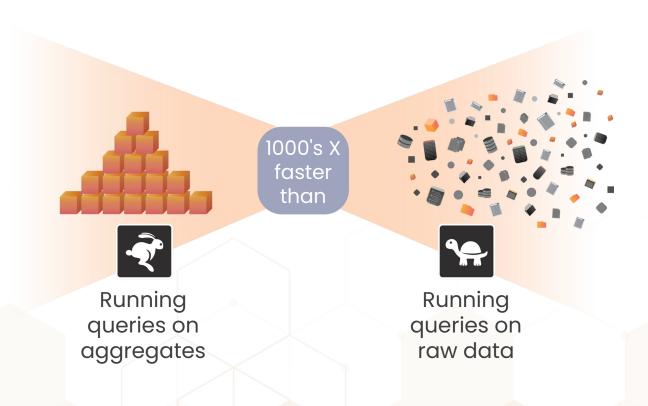
#### Data Aggregation Creates Answers

- Pre-calculate measures across other distinct values within the dataset:
  - Columns
  - Levels of detail
  - Time periods



## Data Aggregation Accelerates Retrieval

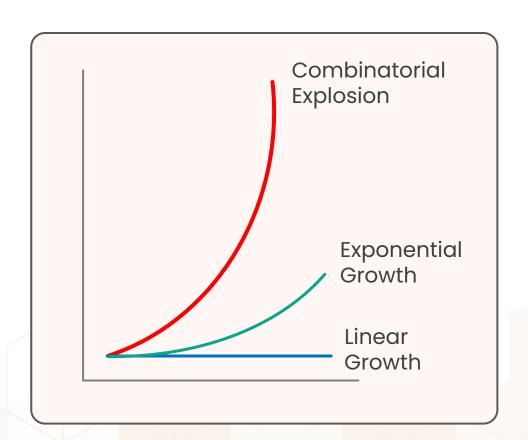
- Store the pre-calculated answers as aggregations
- Query the aggregated answers instead of raw data
  - Faster queries
  - Highly-efficient resource usage
  - Unparalleled user experience



### Combinatorial Explosion: Traditional Aggregation's Glass Ceiling

#### **Combinatorial Explosion:**

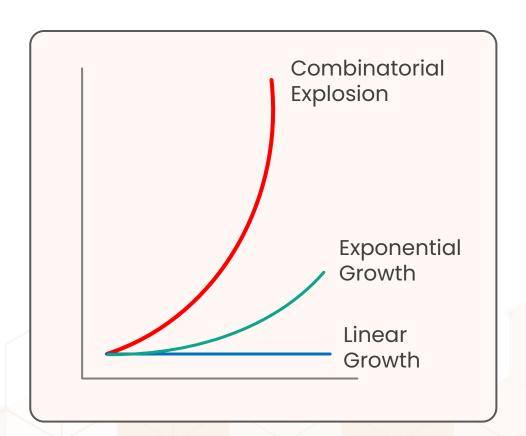
As data model complexity and data scale increases, so do the number of distinct aggregate values. This leads to a logarithmic growth of aggregations.



## Combinatorial Explosion: Traditional Aggregation's Glass Ceiling

#### **Combinatorial Explosion:**

- Longer loads
- Larger and more-expensive analytic systems; particularly if they are RAM-bound
- Slower queries



## Kyvos' Revolutionary Smart Aggregation

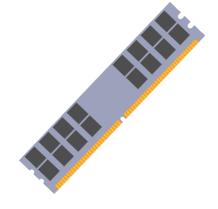
- Uses a patented storage format to continuously aggregate data without combinatorial explosion
- Disk-based solution that is hundreds of times more performant than in-memory solutions
- Up to a 94.1% storage reduction
- 5 20 nodes vs. 100s



VS



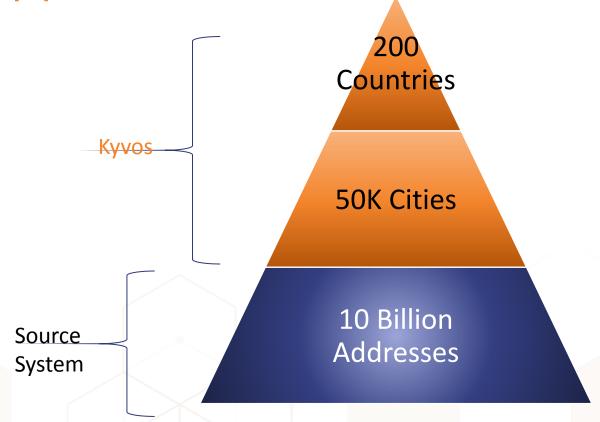
solution



Expensive In-memory solutions

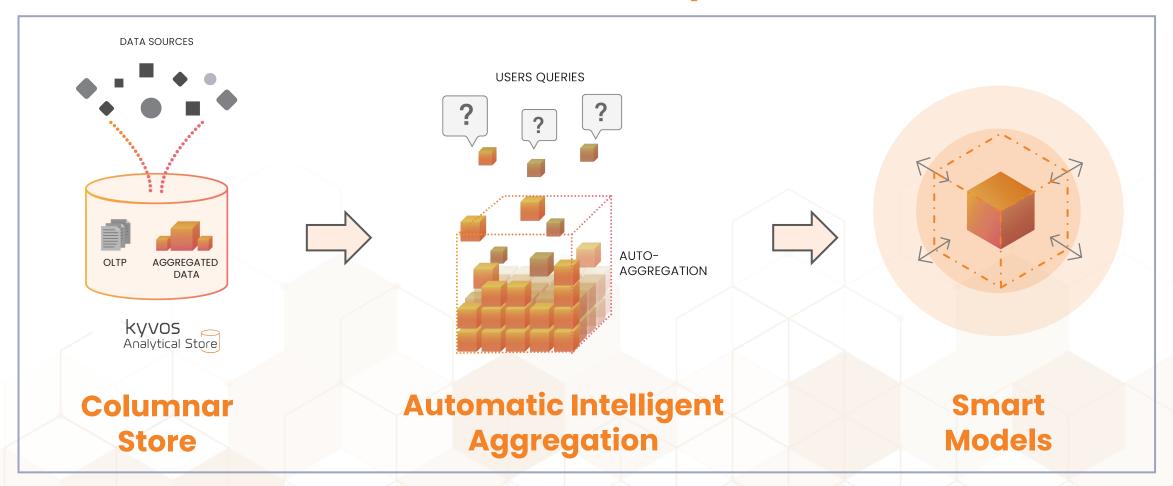
Smart Aggregation is not a Copy of Your data

- Raw data stays in-place
- Retain your row-level data for audit purposes
- Leverage the aggregates for analyses
- Kyvos chooses the right granularity
  based upon the query's requirements

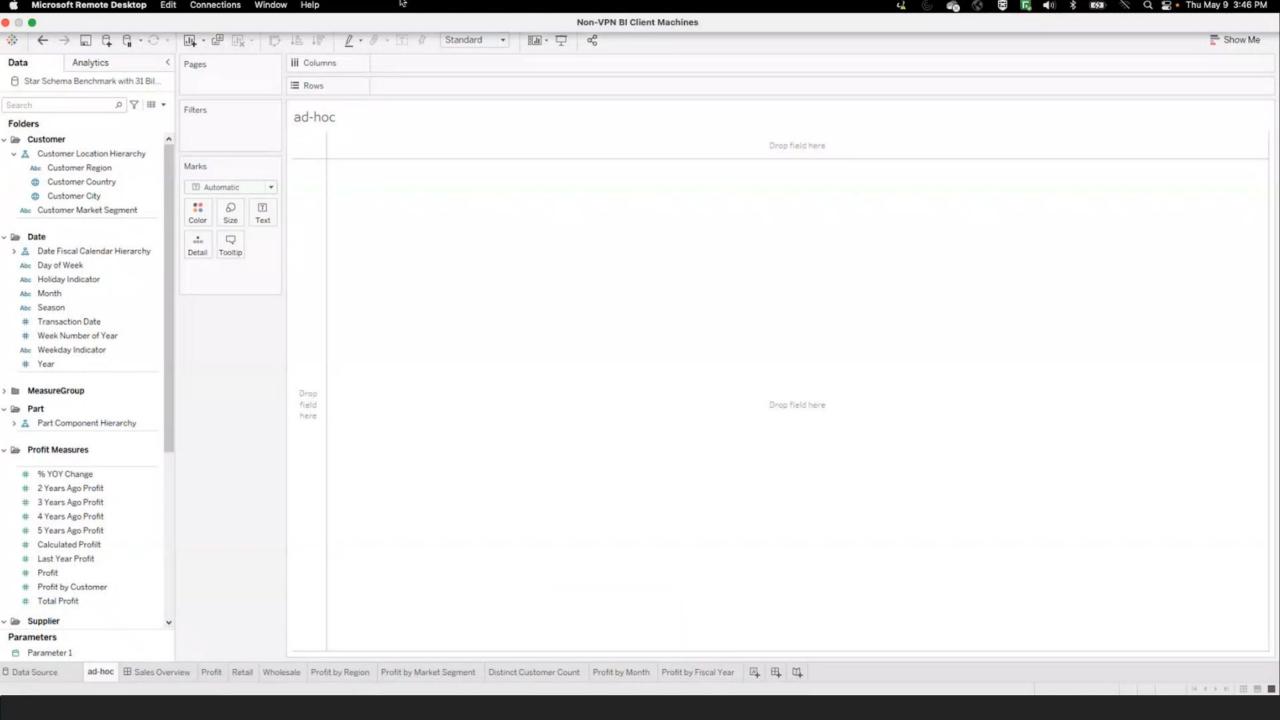


### Kyvos' Next Generation Analytic Pipeline

#### **Smart Data Lifecycle**



Confidential



## Thank You!