## Designing and Building Metric Trees

Abhi Sivasailam Mar 2023



#### What's the point of "data" anyway?

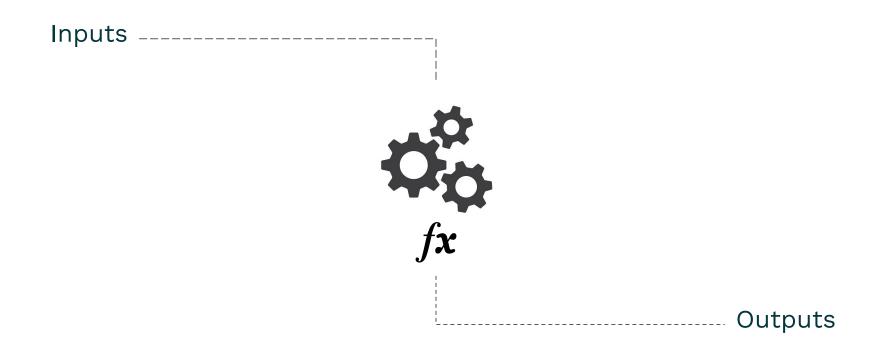
#### Most of the value of "data" is answering 4 questions.

- 1. What happened?
- 2. Why did it happen?
- 3. What's going to happen?
- 4. What should we do next?

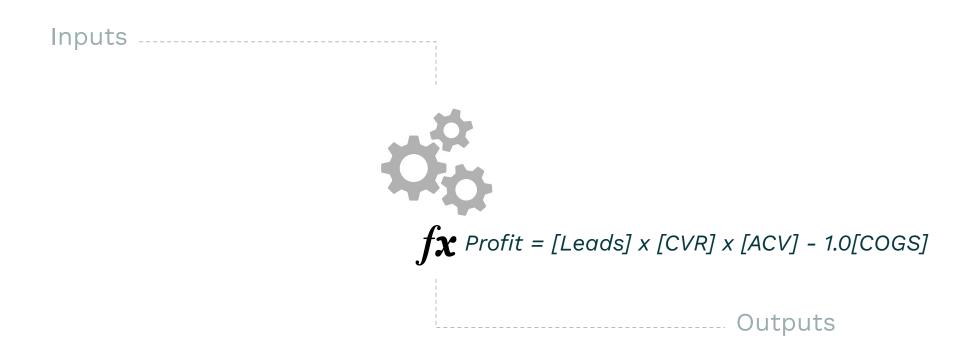
- → Descriptive Analytics
- → Root Cause Analytics
- → Predictive Analytics
- → Prescriptive Analytics

# What's the best way to answer these questions <u>easily</u>, <u>quickly</u>, and <u>often</u>?

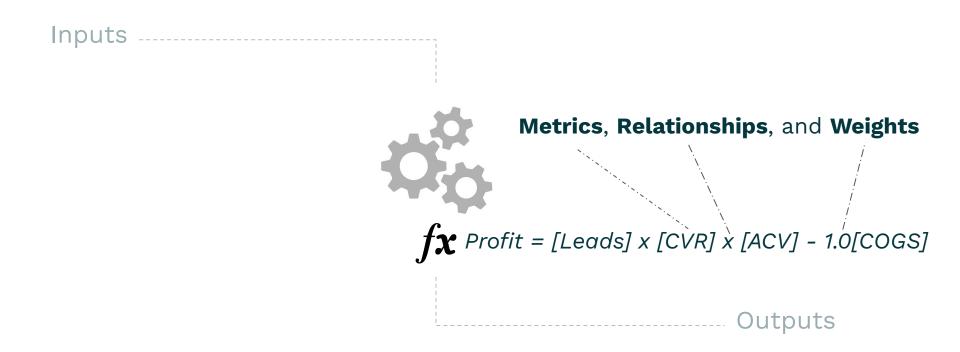
#### Organizations are simply input-output systems...



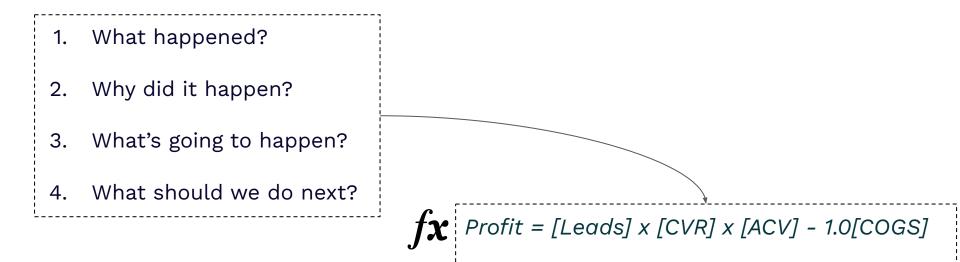
#### ...described by a Fundamental Formula...



#### ...comprised of Metrics, Relationships, and Weights.



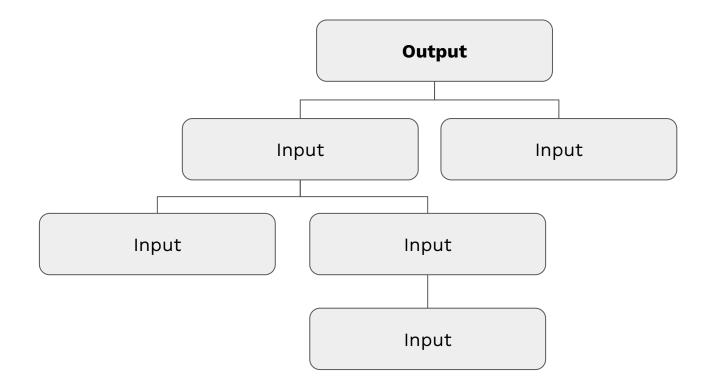
#### The answers lie within.



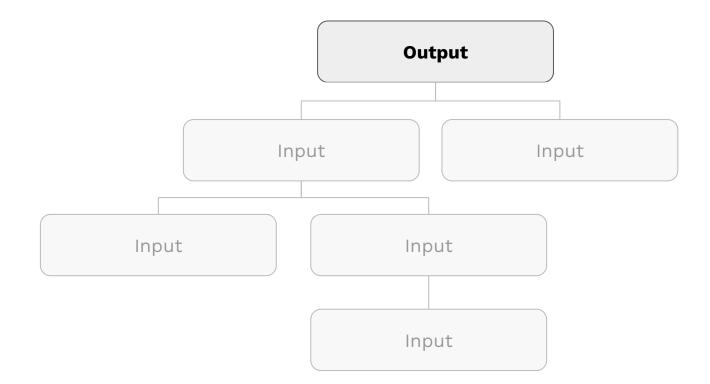
#### The raison d'etre for Data teams is to help companies **define**, **understand**, **evolve**, and <u>operationalize</u> their growth model.

### **Metric Trees.**

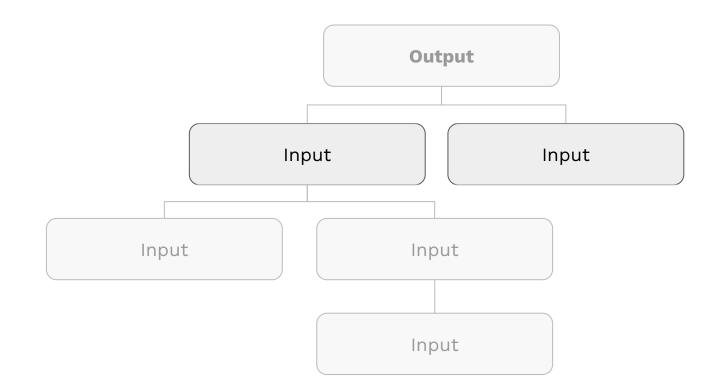
#### A logical representation of a growth model.



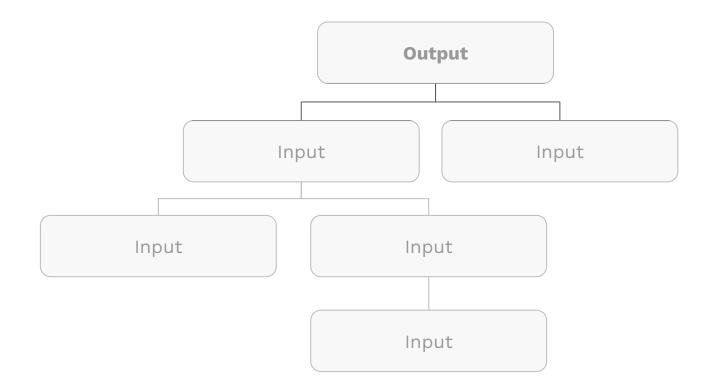
#### Comprised of **Outputs**.



#### Inputs.



#### And **Relationships.**



#### Where should we begin?

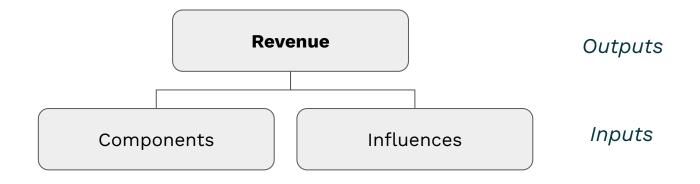
#### From the top; three types of Outputs.



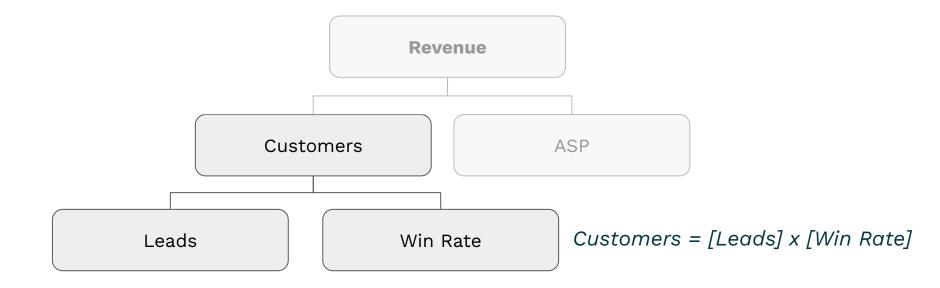
#### Metric Trees in the wild usually start with \$\$\$

Revenue

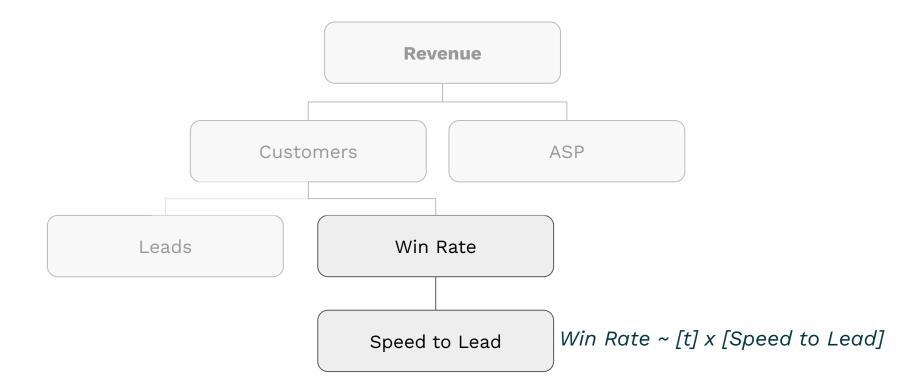
#### Outputs decompose into Inputs.



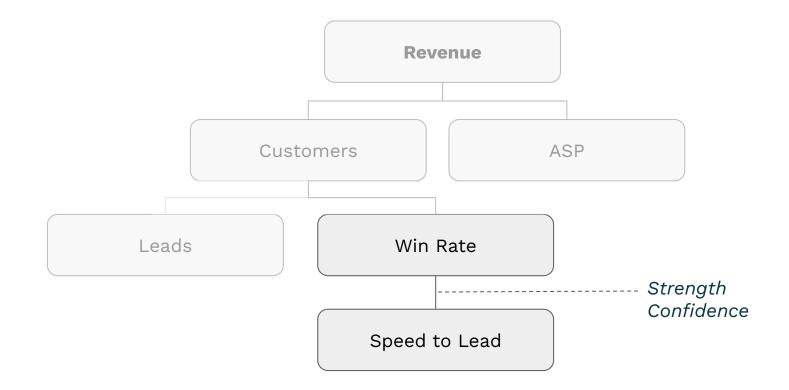
#### **Components** are mathematical identities.



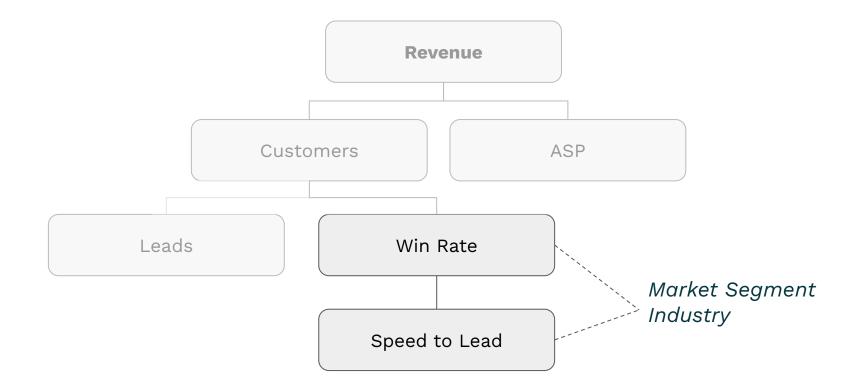
#### **Influences** have a contingent relationship.



#### And those relationships have properties.

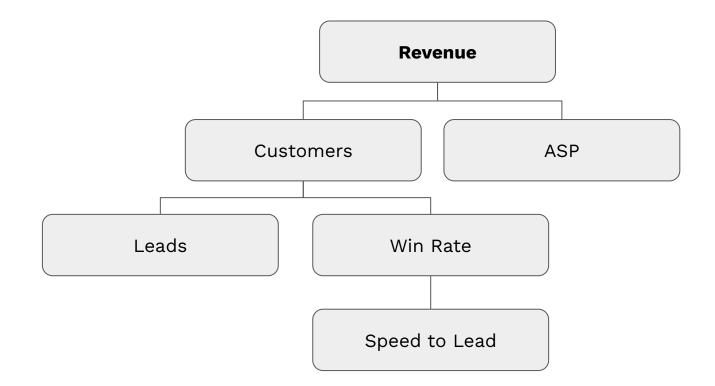


#### All Inputs have *dimensions*.

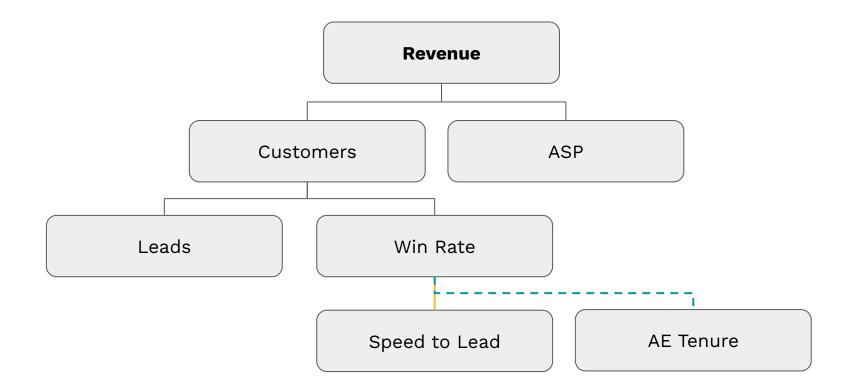


# Applications and Extensions.

#### Use Case: Onboarding Artifact



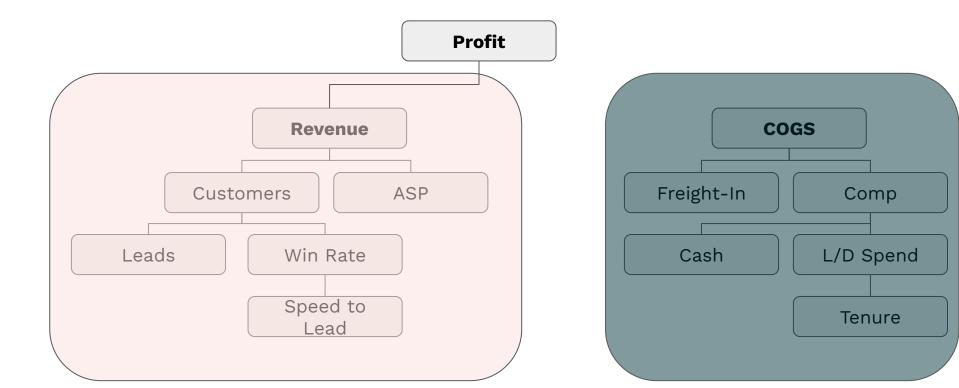
#### Use Case: Gateway to Knowledge Repo



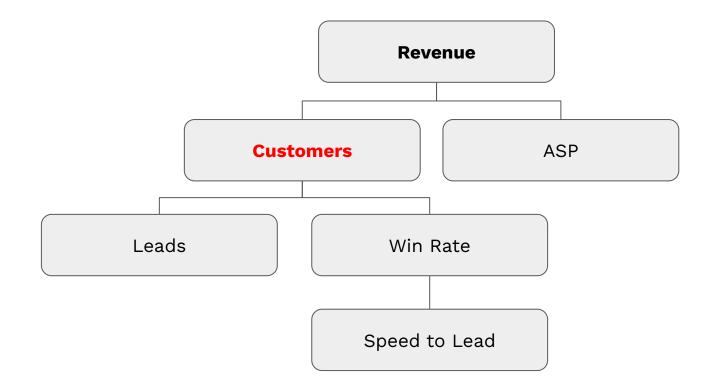
#### Use Case: Mission Statement for Data Teams

Identify Data \_\_\_\_\_ Growth Levers Pull Operators

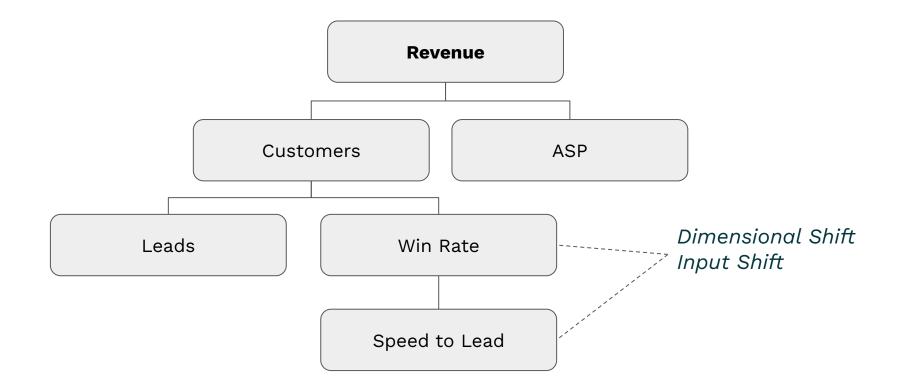
#### Use Case: Dashboarding



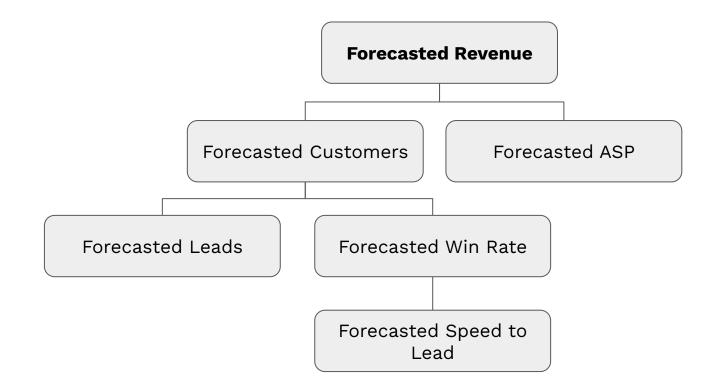
#### **Use Case: Business Reviews**



#### Use Case: Root Cause Analysis



#### **Use Case: Forecasting**



# Making it easy.



SOMA	User Examples Resources 🗸 🛛 Docs
B2B SaaS <b>Net MRR</b> NetMRR	
Relevant Functions	Themes
Finance	Revenue Growth Accounting Totals
Business Definition	
The delta in Total Recurring Revenue between the prior period	d and the current one.
Expression	
{NewMRR <sub>t</sub> } + {ExpMR	R <sub>t</sub> } - {ContMRR <sub>t</sub> } - {ChurnMRR <sub>t</sub> }
Activities	
Customer Renews On Contract	
Customer Expands On Contract	
Customer Expands On Contract Customer Fails to Renew Contract Customer Resurrects From Contract	
Customer Expands On Contract Customer Fails to Renew Contract	
<u>Customer Expands On Contract</u> <u>Customer Fails to Renew Contract</u> <u>Customer Resurrects From Contract</u> <u>Customer Contracts On Contract</u>	Dimensions Aggregations

#### For all that we didn't cover...

- How do you reify this growth model?
- How do I get my company to see the world this way?
- How do I use this SOMA standard?
- How do I get these use cases to work?

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