

Literacy Is a Two-Way Street The Case for Both Business and Data Literacy





One way.... From Data to Nirvana



Where are we trying to go?

Data inputs

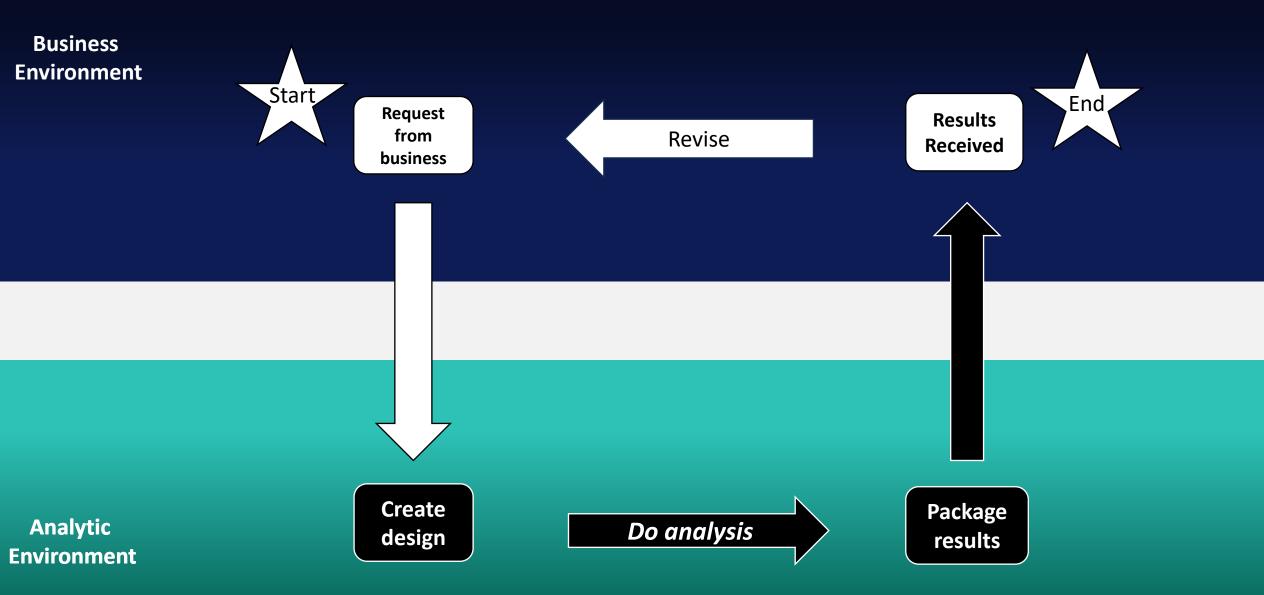
Many places

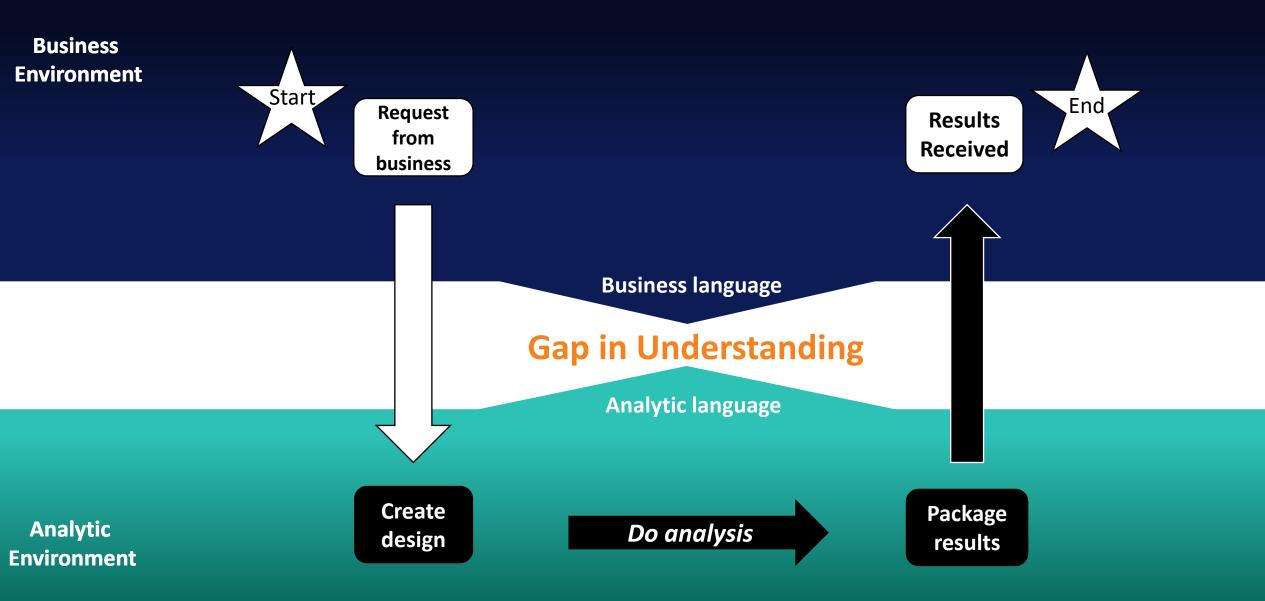
Biz outcome At the

same time

Business Environment

Analytic Environment







Sometimes it's not the way we think of literacy

It's more than words It's context





"I need a dashboard



"I need a dashboard that shows comparative performance across locations"





Every day in corporations around the world there are literally millions of requests where the two teams don't understand each other.





Business leaders want

Data Teams want

Timely, innovative insights from data

That deliver measurable value

More More data business awareness awareness Meaningful, challenging work

That is appreciated and valued



The problem is not

insufficient resources wrong tools or systems

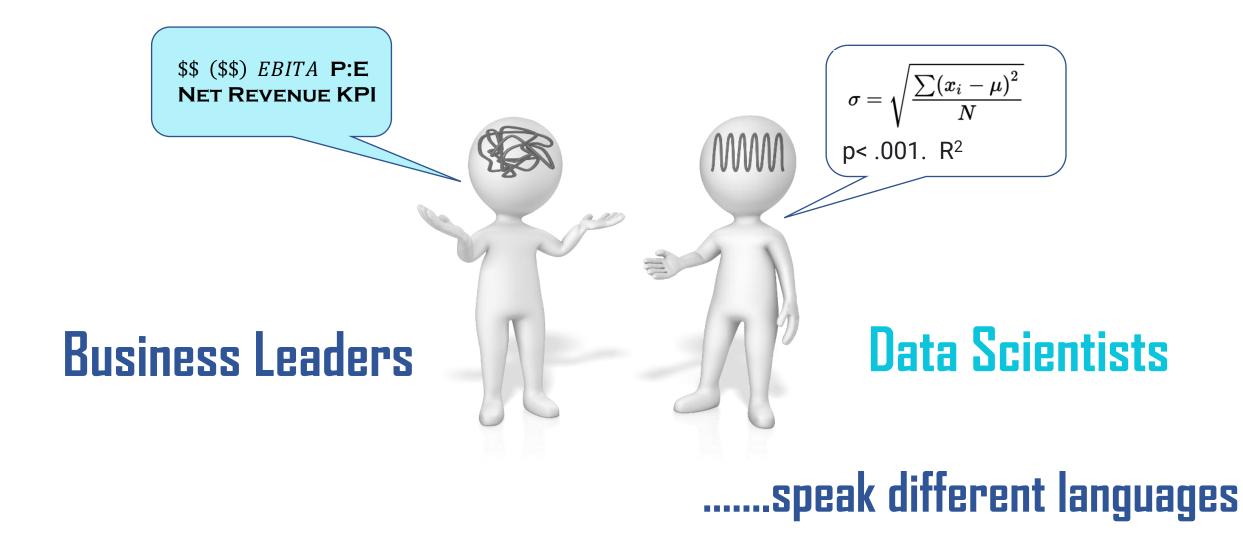
It's seeing things one way

Data Into Solutions

How Analytic Translators Handle This Challenge



Let's appreciate our differences......



Let's appreciate our differences......

Business Leaders

ESTJ

Personality Extroverted obServant Thinking Judging

www.16personalities.com

Data Scientists

Personality

Introverted iNtuitive Thinking Prospecting

INTP

.....attract different types

There is a good reason for each style



Does your product improve employee performance?



Yes. Next question.



Our analysis controlled for demographics, tenure, previous performance, location and job type. And we did a time series analysis removing seasonality, transforming the outcome into a binomial, showing that participants had significantly higher likelihood of improvement at a P-value of 0.02.

.....trained in very different ways

Trained to clear and action oriented:DifferentiatorsOpportunitiesDecisionsPivotsActions for success

Not trained Advanced statistics Communication skills



Trained to formally doubt results: Reasons you may be wrong **Quantifying likelihood of error** Wait Limitations We can't be **Uncertainties Potential bias** Sure Not trained **Business management Communication skills**

Data Into Solutions



Data Scientists

..... Different preferences (how people will hear us)

Want to deliver results:

Simple Clear Understandable Indisputable Convincing.

So clear it needs no explanation



Want people to understand: Complex possibilities Something new and different How interesting this is That this is unique That we used advanced techniques.

> So interesting everyone wants an explanation



Business Leaders

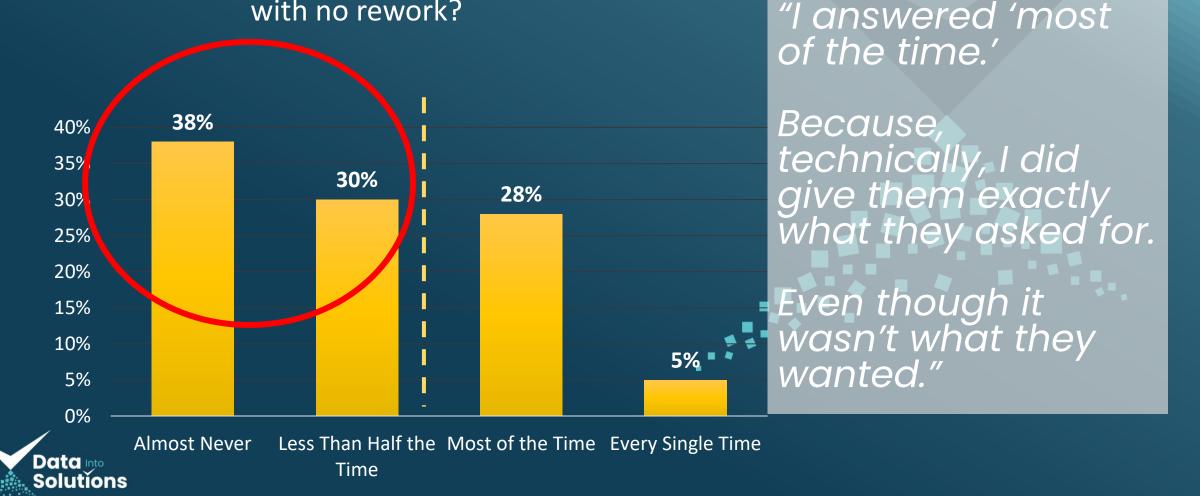
Data Scientists

What we know about each other AND How we talk to each other _ = \$



When you get a request...

How often are you able to provide the exact answer they want, the first time, with no rework?



What happens without two-way understanding



• Expectations of mind-reading





Expertise requires unique terminology

CFOs Pilots Artists Social media marketers

WITHIN A PROFESSION Insider language unites

BETWEEN PROFESSIONS Insider language divides

We need to BOTH:

- work to understand priorities

- avoid assuming others know



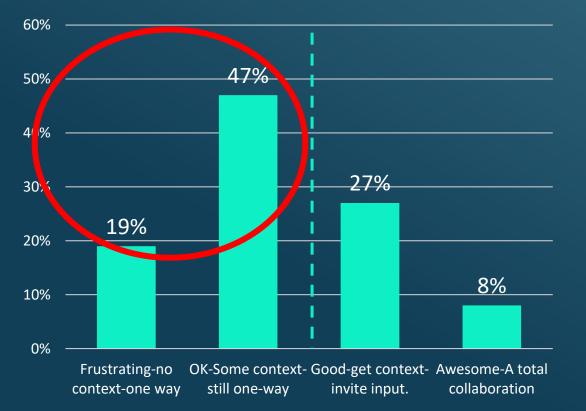
What happens without two-way understanding



- Expectations of mind-reading
- Insider jargon



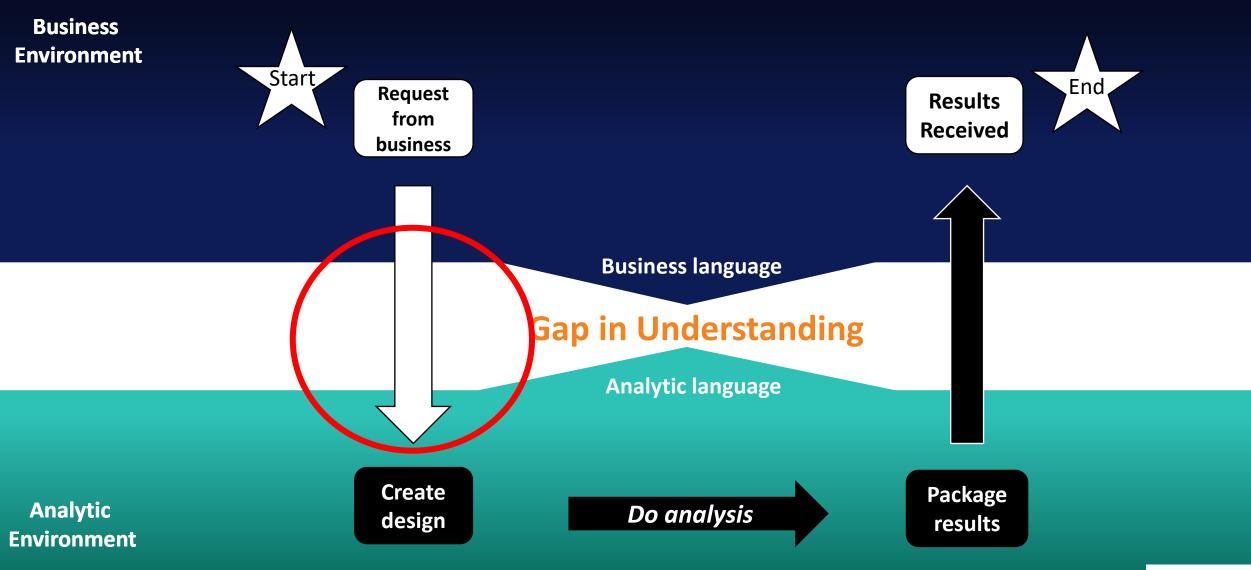




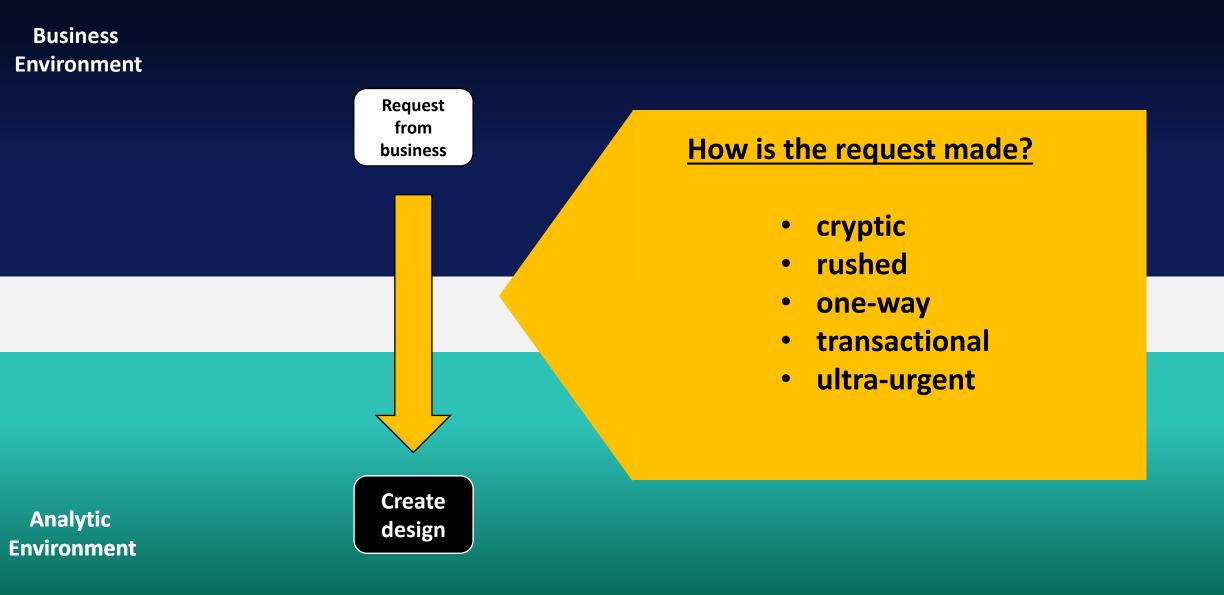
Analytic team describes requests from business.

"They give me a request with little or no context. They don't ask for my IND









What happens without two-way understanding

Both directions

> Business to Analytics

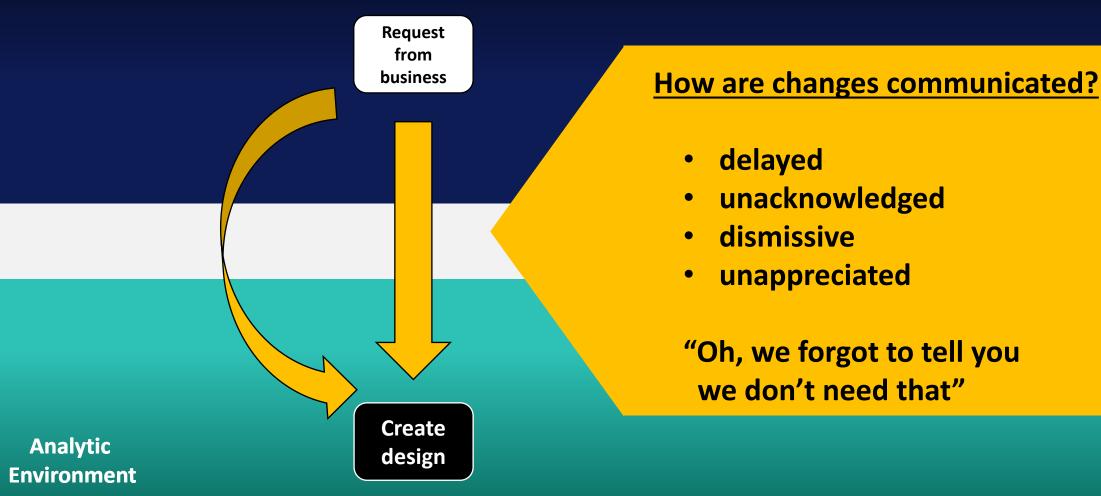
- Expectations of mind-reading
- Insider jargon

• Drive-bys









What happens without two-way understanding

Both directions

> Business to Analytics

- Expectations of mind-reading
- Insider jargon

• Drive-bys

• Fire drills



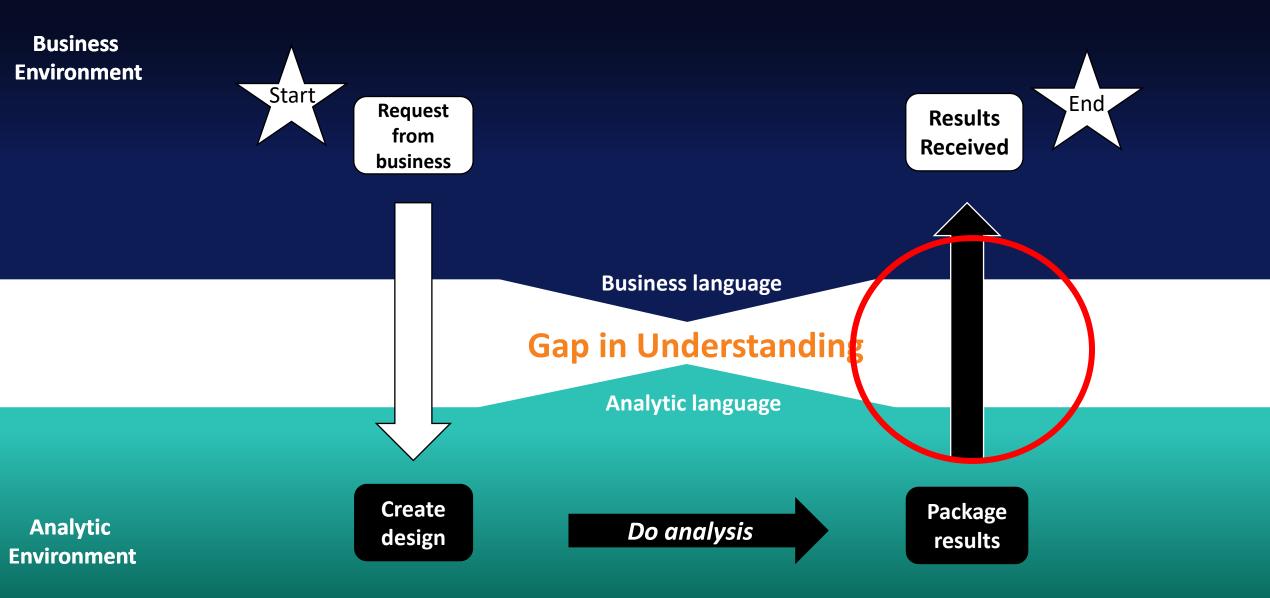


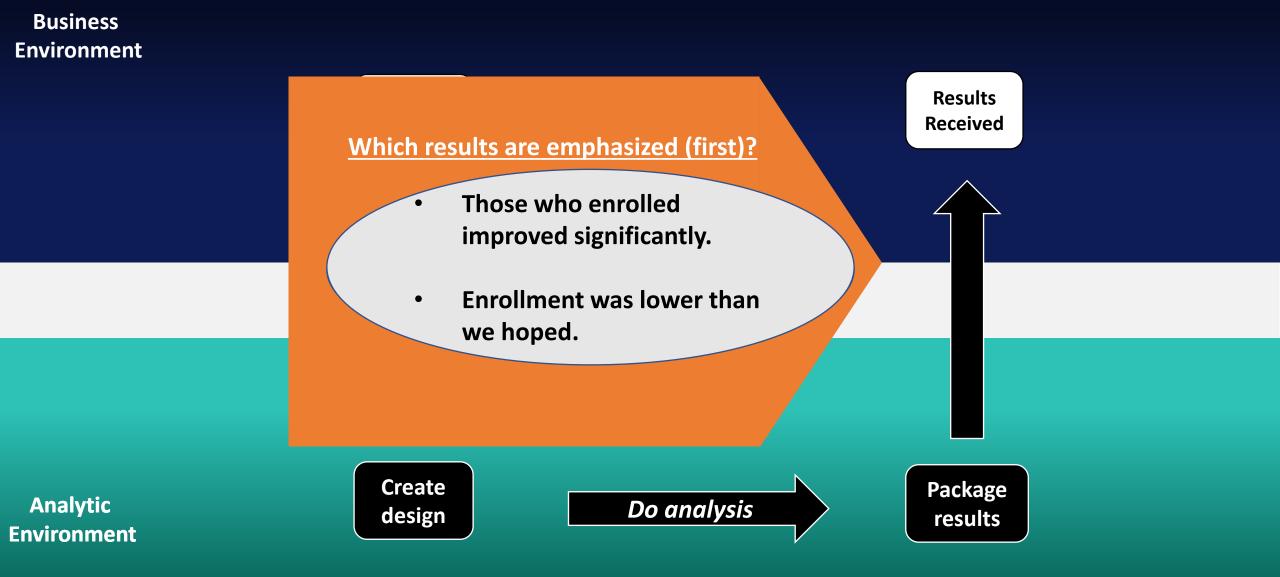
Business describes interactions with data analytic teams. How often you get (and understand) the exact answers you need.



"They don't give me what I need in a way I can understand...."







What happens without two-way understanding

Both directions

> Business to Analytics

- Expectations of mind-reading
- Insider jargon

• Drive-bys

• Fire drills

Analytics to Business • Granades or buried treasure



Uh, what?

We did a logarithmic transformation to minimize heteroscedasticity, then once we confirmed homogeneity of variance, performed gradient boosting...



What happens without two-way understanding

Both directions

> Business to Analytics

- Expectations of mind-reading
- Insider jargon

• Drive-bys

• Fire drills

Analytics to Business

• Granades

• **Polysyllabic** = smart



How we fix these

1. Two-way Literacy Identify and prioritize what matters to others.

Time
A few minutes to clarify is better than weeks of rework.

3. Skills Learn to clarify with questions that uncover context.



Simple, yet powerful, tools

- Open-ended invitations
 - Say more about.....
 - Can you tell me more about how this came up?
 - When you say _
- Questions to explore levels of meaning
 - How will that be useful?
 - How will you decide?
 - How will you know?



Think of an important question your organization needs to answer using data.

Jot it down.



Keep that question in mind as I ask you a few things:

How did that question come up? How will the answer be useful? Who might be interested in the answer, and why? How will you know it has been answered satisfactorily? What is the important time frame for this questions? Should anything specific be included or excluded? Is there anything else we might need to know first?

> Did any of these questions make you want to adjust how you worded your first question?



Key aspect of analytic translation:

The first thing someone says is not the full answer and

Probably NOT what really matters.



Terminology is not enough

- Words we choose
- What those words mean (to them)
- What matters about them
- How we deliver them
- What the context is



Ongoing and Evolving

Data inputs

Many places

Biz outcome

At the same time

Business leaders want

Data Teams want

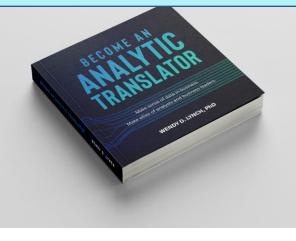






Personalized, Live Training

Lee Derz, MBA.







Your thoughts, comments, questions?