Lost in Translation Why it Takes More Than Literacy to Make Data Meaningful

We have a problem



Topics

Spotlight

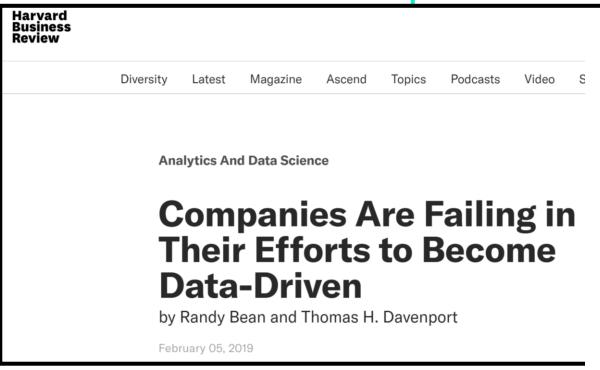
Magazine

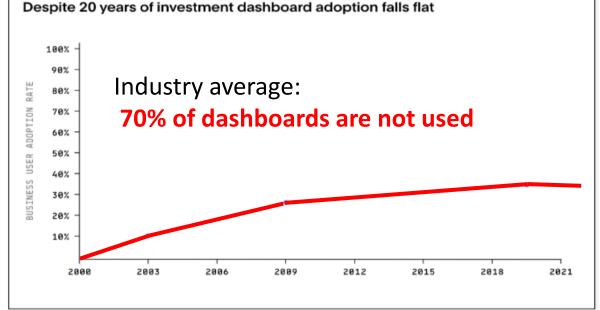
Webinars & Podcasts

•87% of data science projects never make it into production

MAGAZINE SPRING 2021 ISSUE • RESEARCH FEATURE

Why So Many Data Science Projects Fail to





Source: A Decade of Data eBook



Al And Machine Learning

Keep Your Al Projects on Track

Most go off course. To make sure yours succeed, consider these five steps. by lavor Bojinov

From the Magazine (November-December 2023)

Sadly, beneath the aspirational headlines and the tantalizing potential lies a sobering reality: Most AI projects fail. Some estimates place the failure rate as high as 80%—almost double the rate of corporate IT project failures a decade ago.

Data. It's critical.

97% of leaders want to use data for better decisions to

- Reduce risk
- Make faster decisions
- Make more money
- Plan for the unexpected

93% of leaders know that the right business Intelligence can make or break their success.

In reality... it's overwhelming

• 73% say their lack of trust in data has stopped them from making any decision at all.

 $^{\circ}89\%$ believe that the growing number of data sources has limited the success of their organization.

 $^{\circ}86\%$ say the amount of data is making their professional lives more complicated

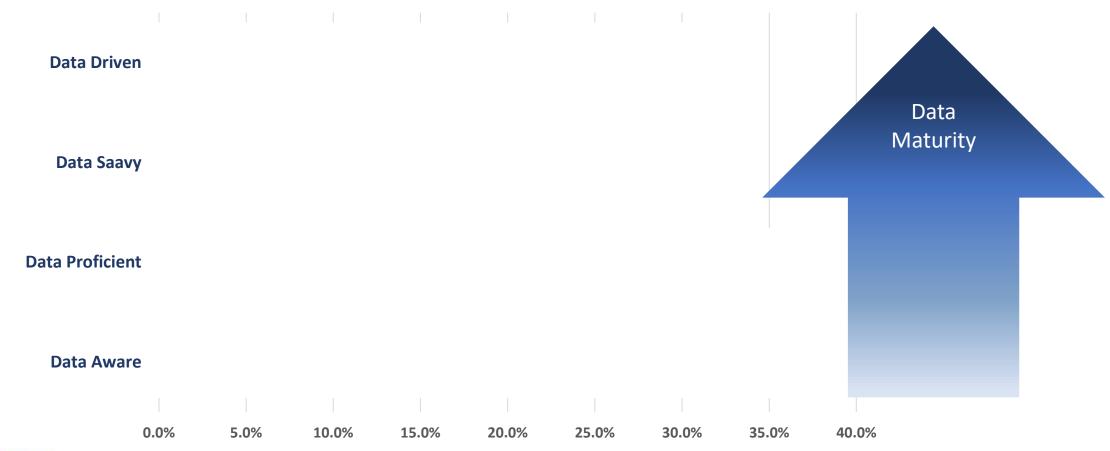
Oracle: The Decision Dilemma. 2023

Or, discounted

- 78% of leaders say decisions are being made ahead of time and then data are used to justify them
- 74% of employees believe that the opinions of the top paid executives are valued more than data.
- 70% of leaders wish an automated robot would just make decisions for them.

While most companies focus on data, only about 16% are 'data-driven'

What is the data maturity level of your organization?





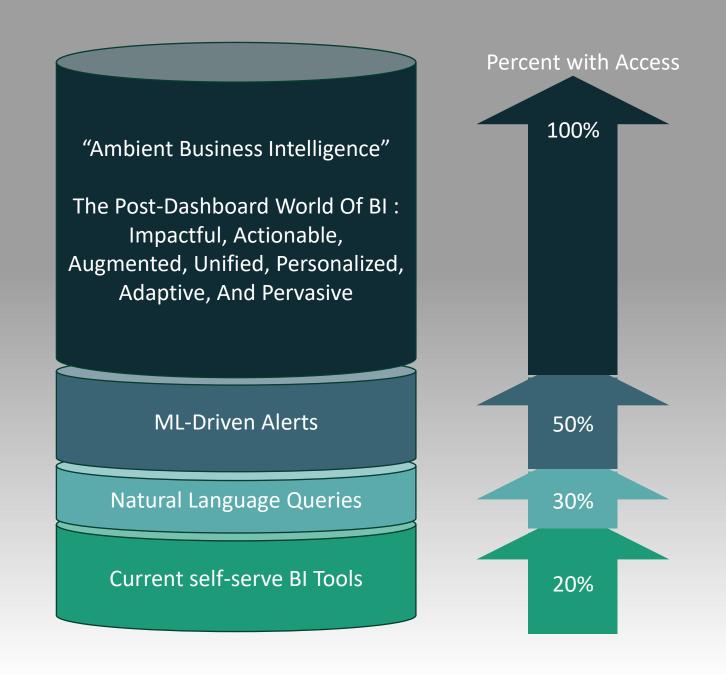




AI-enabled data intelligence

Access to data-driven business intelligence

Forrester. July 2024: Bringing data insights to the other 80% of business intelligence users





Al-enabled data intelligence

Great idea... but when?

And if they don't trust data now...



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Decade Of Investment In Big Data And AI Yield Mixed Results

Randy Bean Contributor ©
Randy Bean is a noted Senior Advisor, Author,
Speaker, Founder, & CEO.

A decade of transformation. What lies ahead?

Looking back a decade to when this survey was first launched, Big Data and AI were nascent capabilities which received minimal investment. Firms had begun to think about what it would mean to be data-driven, but few had developed formalized programs and articulated a corporate commitment. The function of a Chief Data Officer was non-existent, except within a small handful of companies. Today, Big Data and AI are mainstream, but there is still much to do.

Principle Challenge to Becoming Data-Driven	<u>2018</u>	<u>2019</u>	2020	<u>2021</u>
People Business Process Culture	80.9%	92.5%	90.9%	92.2%
Technology	19.1%	7.5%	9.1%	7.8%

The Literacy Tower

Apply

Interpret

Analyze

Manipulate

Understand

Select

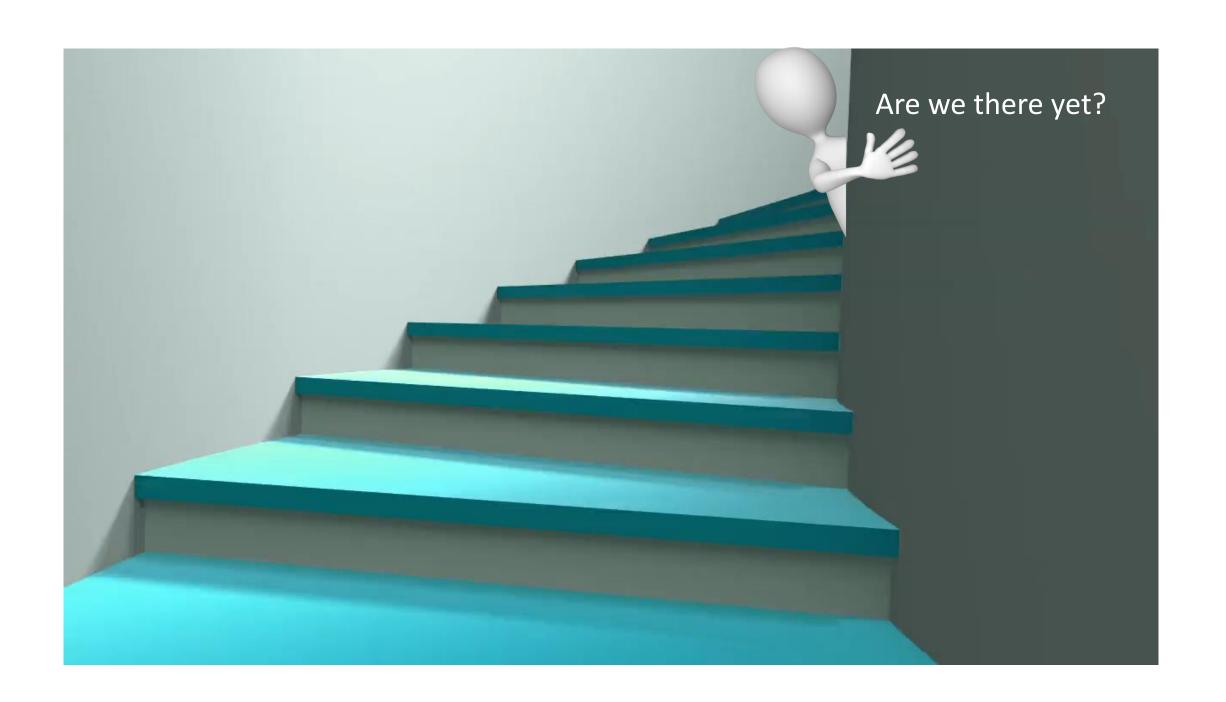
Aware

Conventional Wisdom:

We just need to get more people to the top!







How long does it take? Data-driven

Apply

Interpret

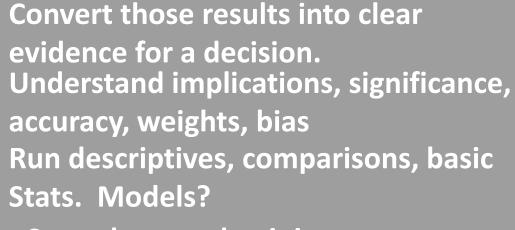
Analyze

Manipulate

Understand

Select

Aware



Sort, clean, order, join, segment. Know what they are looking at. Basic descriptives, comparisons.

What metric is called, what to ask for, what other related metrics are needed What is available. Limitations.

Characteristics. Format. Frequency. Definitions

Master Data Science & ML Online

Applied Data Science

Program: Leverag Effective Decision



Step 2: Polish up on your math skills

If you are coming from a quantitative background, data science should be an easy transition. Before analyzing data with high-tech tools, you need to get to the foundation of data analysis, which starts with plotting data points on graphs along the X and Y axes and finding correlations and trends between different variables.

To make sure you can write efficient code and draw accurate conclusions, here are some recommended math concepts to master:

- Statistical methods and probability theory
- Probability distributions
- Multivariable calculus

How long does it take to become a data scientist?

As we outline in our data science FAQs, on average, to a person with no prior coding experience and/or mathematical background, it takes around 7 to 12 months of intensive studies to become an entry-level data scientist. However, there are so many skills in data science that you can keep learning for your entire career.

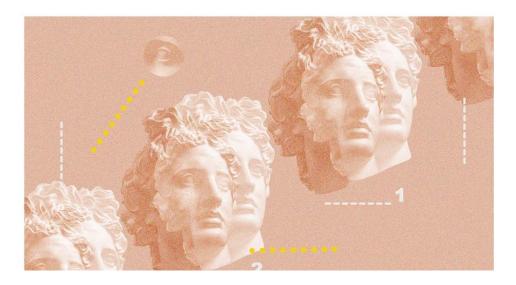




The Risks of Empowering "Citizen Data Scientists"

by Reid Blackman and Tamara Sipes

December 13, 2022



The Risks of Democratizing AI in Your Organization

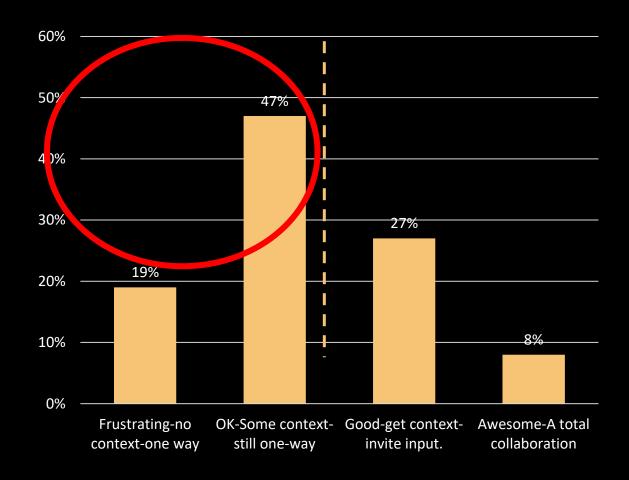
Putting your AI strategy in the hands of novices comes with at least three risks.

Data scientists: Still the sexiest job - if anyone would just listen to them

Only about one in five machine learning models developed by data scientists make it to actual deployment, survey finds. What's the problem?

ZDNet Innovation: Survey results Feb 2024

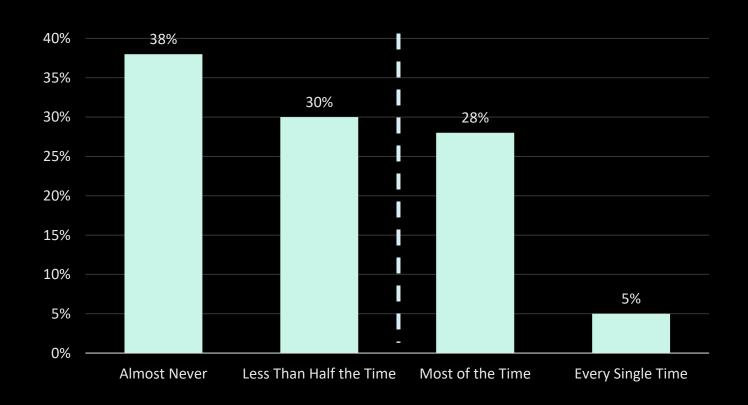
Analytic team describes requests from business. Is the process collaborative, do they want your opinion?



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

When you get a request...

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



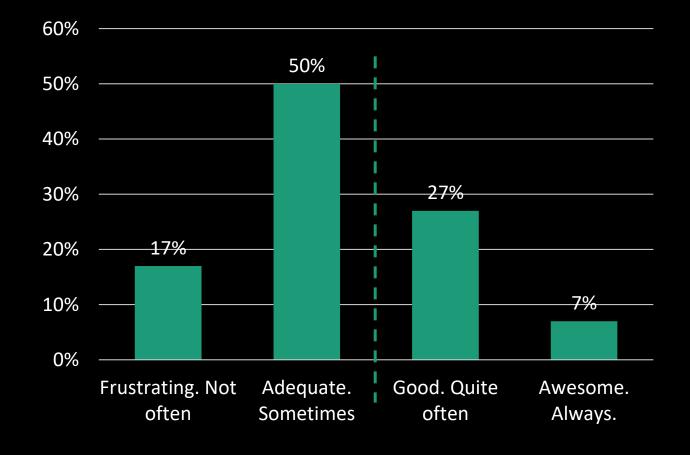
"I answered 'most of the time."

Because, technically, I did give them exactly what they asked for.

Even though it wasn't what they wanted."

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..."





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Wide-spread data literacy adoption

How much? How long?

And, if trained data experts are having this much trouble.....



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When Translatio Scientists and Bu their teammates." Stakeholders, Revisit roun

"Success comes from both sides caring enough, and **Arise Between D**; working hard enough, to express their quantitative goals and results using metrics that are intelligible to

Motrice

Every time a data scientist hands off a report with the outcome of an experiment in terms of a quantitative metric with no clear translation into a business outcome, she is the lazy writer asking her reader, the business stakeholder, to do an awful lot of work.

Every time a business stakeholder asks for 'business value' from a data scientist without doing the hard work of grappling with what, quantifiably, that's supposed to mean, he is the lazy writer asking his reader, the data scientist, to clean up his disorganized thoughts.

Completely different success pathways





The Literacy Tower

Conventional Wisdom: We just need to get more people to the top! **Investor/Owner perspectives**

Business projections

Product Pathways

Financial Metrics

Value Creation

Customer Goals

Business Goals



How long will it take?

Communicate investor/owner concerns

Project future earnings/liabilities

Prioritize product portfolio, product design

Know financial performance (margins)

Identify supply chain, potential weaknesses

Understand customer landscape, concerns

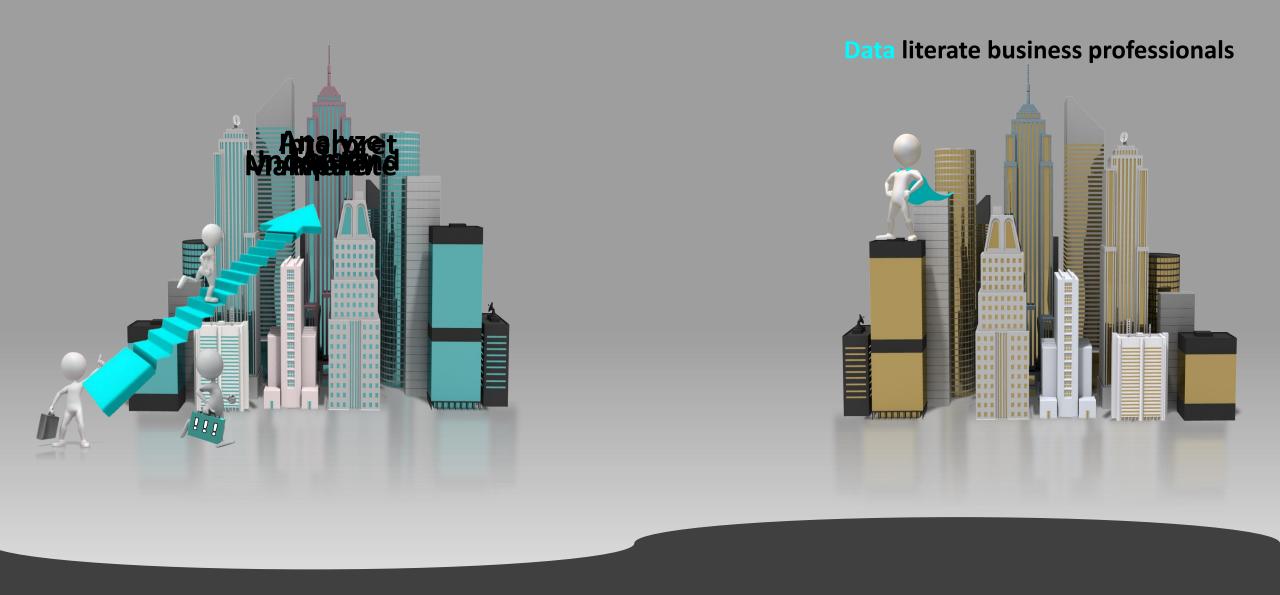
Aware of competing business priorities







Can we train both sides well enough to bridge the gap?



Can we train both sides well enough to bridge the gap?



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How much? How long? And, if trained data experts are having this much trouble.....



Two-way literacy

Another great idea.

But think of your most resistant executive.....



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Wide-spread data literacy adoption

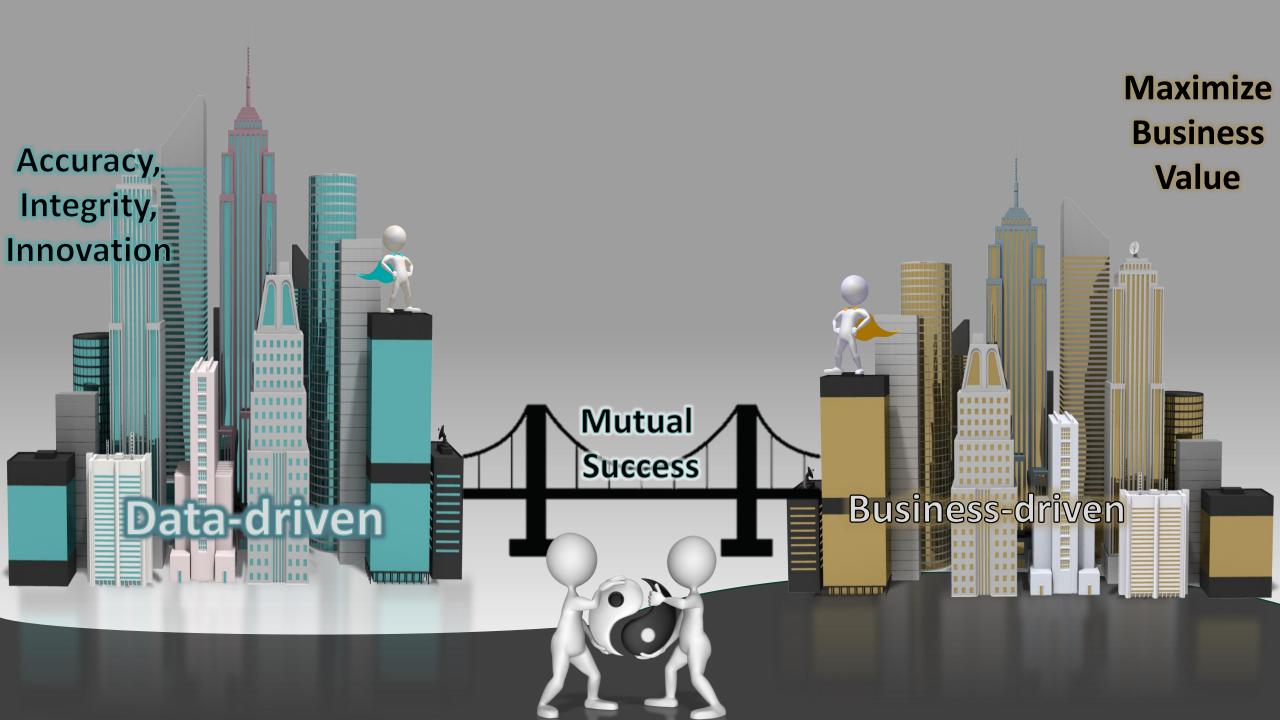
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Manipulate

Data-driven



Investor/Owner perspectives

Business projections

Product Pathways

Financial Metrics

Business-driven

Bridge: Knowledge

Accuracy, Integrity, Innovation

Data People Value Business Objectives

Businesspeople Value Data Objectives

Maximize Business Value

Data-driven

Business-driven

Bridge: Values

Understand data terminology

Explain business priorities

Translate requirements

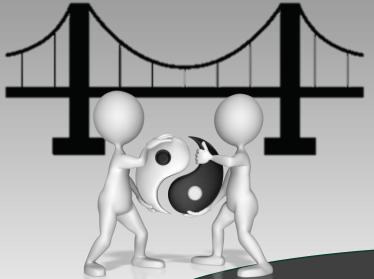
Interpret context of requests

Understand business terminology

Explain complex analytics and data

Translate mixed findings

Interpret context of results



Bridge: Communication

Empathy and understanding

Build connection

Acknowledge frustrations

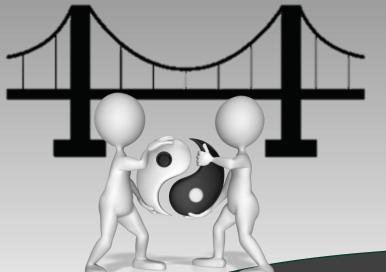
Demonstrate appreciation

Empathy and understanding

Build connection

Acknowledge frustrations

Demonstrate appreciation



Bridge: Allegiance



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How much? How long? And, if trained data experts are having this much trouble......



Two-way literacy

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But think of your most resistant executive.....



Bridge with designated translator

An option worth considering?



Now available at Dataversity!

Training

Become an Analytic Translator

Coming soon: Communication for data professionals



