The Language of Literacy

When We Label People, Does It Help or Hurt?







você fala data?

- Simple terminology
- **Basic Request**

What's in a label?

Does it matter?

Data Fluent

Data Engagement

Data Savviness Data Brilliant

Data Literate Data Confidence

Data Empowered Data Skills

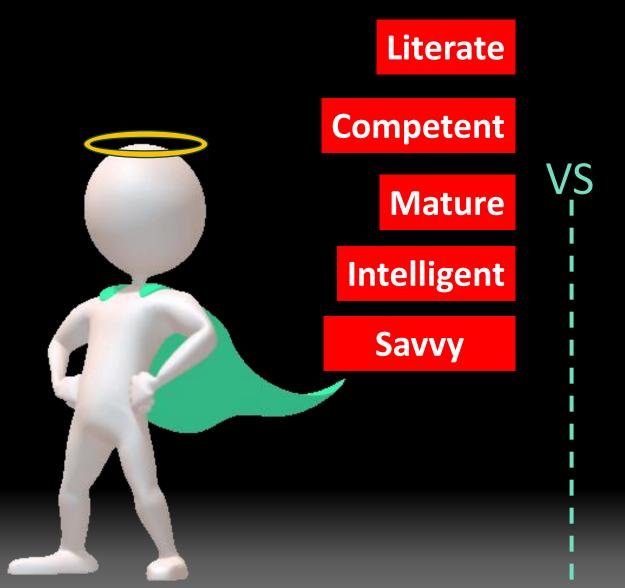
Data Competent

Data Natives Data Maturity

Data Personas

Data Intelligent

Either or....?



Illiterate

Incompetent

Immature

Stupid

Ignorant





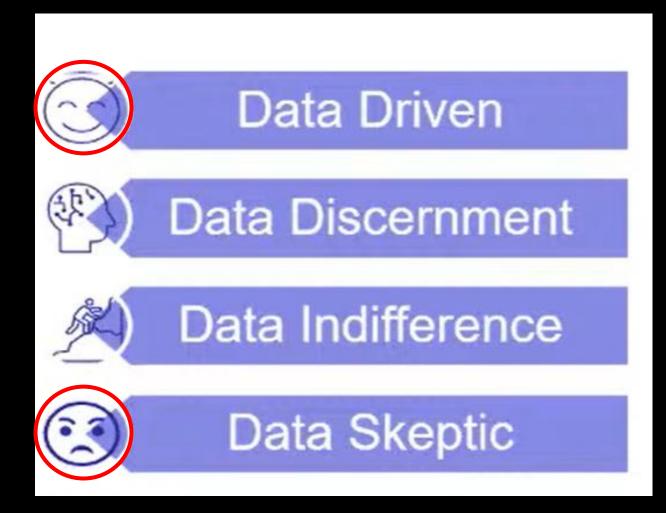
Straightforward

1. Novice

- a person new to or inexperienced in a field or situation
- 2.Intermediate
- 3.Proficient
- 4.Advanced
- 5.Expert

Levels and Attitudes





intended for school students who have not achieved the level of <u>attainment</u> necessary

Data literacy continuum

		Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	Fifteen Databilities	Basic Awareness With help	Follow instruction given to me	Work on limited tasks on my own	I can apply skills more broadly	Assist others in doing tasks	I leach others
Reading	Data Discovery						
	Evaluating and Ensuring Quality of Data						
	Data Collection						
	Data Management and Organisation						
\A/witim a	Data Manipulation						
Writing	Data Curation and Reuse						
	Metadata Creation and Use						
	Data Conversion (Format to Format)						
	Data Analysis						
	Data Interpretation (Understanding Data)						
	Identifying Problems Using Data						
Comprehension	Data Visualisation						
	Presenting Data (Verbally)						
	Data Driven Decision Making						
	Evaluating Decisions / Conclusions Based on Data						

THE CURIOUS, THE CONFIDENT, AND THE COACHES

Using the 6 levels of progression outlined in the Databilities® framework, the Global Data Literacy Benchmark has identified 3 cohorts of employees:

- Those who need direction the Curious
 - When asked to select which statement best described them, the Curious selected Level 1 or Level 2 or indicated that none of the progression statements described them.
- Those who are independent the Confident
 When asked to select which level of competency best described them, the Confident selected Level 3 or Level 4.
- Those who can guide others the Coaches
 When asked to select which level of competency best described them, the Coaches selected Level 5 or Level 6.



Personas



Data Skeptic

Doesn't believe in the value of data



Data Enthusiast

Excited and willing to learn



Data Literate



Citizen Analyst



Data Scientist



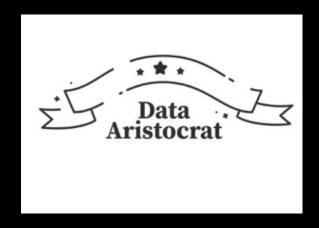
Data-driven Executive



Data Dreamers are keen beans who recognize the importance of working with data and its benefits to their organizational roles. The downside: they may take data at face value because they don't know how to interrogate it properly. **They need to improve** their data skills



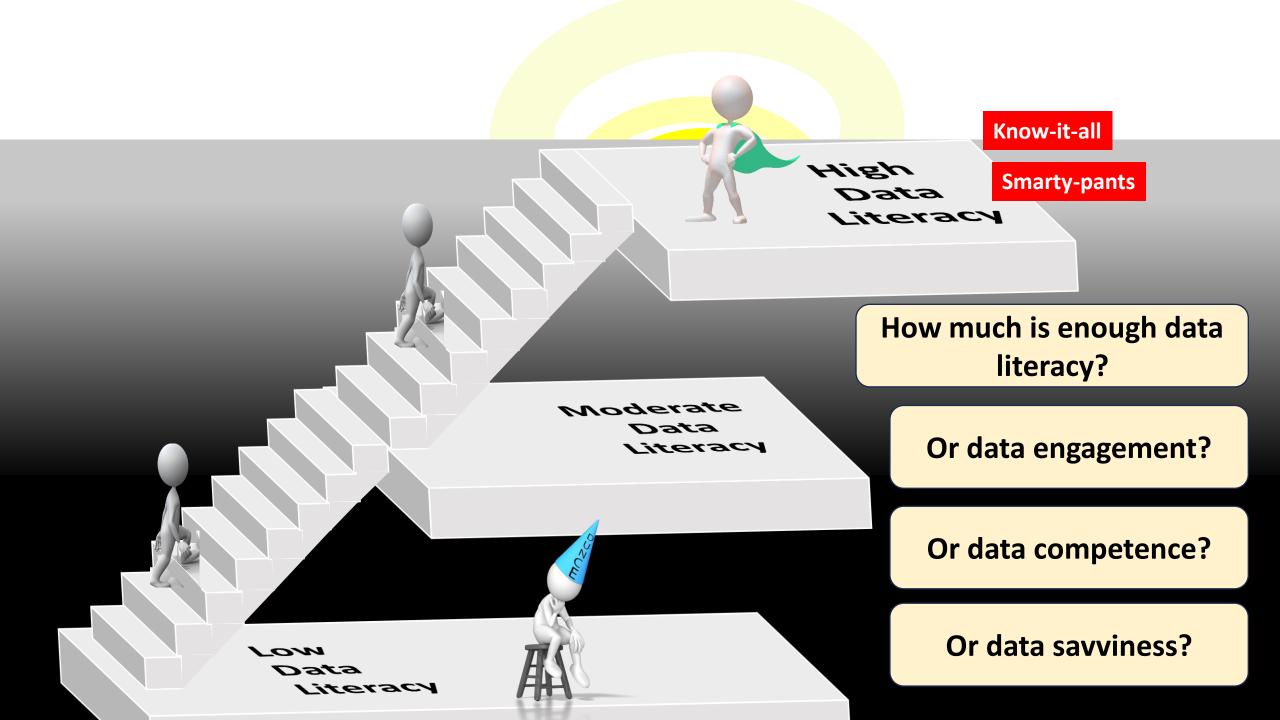
Data Doubter: Intuition never lies is the Data Doubter's motto. In his or her mind, automated processes and data-driven decisions are no match for gut-feel. These employees are fed up with the amount of facts bombarding them every day. Often they just ignore them, so why would they use them at work? They prefer to leave analysis up to data experts.



Data Aristocrat: No data stone goes unturned when the Data Aristocrat is around. His or her high aptitude for understanding bodes well for future opportunities. Appeal to the Data Aristocrat to help up-skill and uplift others through mentoring, communicating and training



Data Knights: feel the weight of ever-increasing data stores, sometimes becoming overwhelmed by it all. They are skilled at battling data, but their armor is not bullet proof. Use Data Knight skills wisely, combining their knowledge of smart data discovery with laser sharp analysis to the benefit of the organization.



Yes, It's Important

Ninety percent of business leaders believe data literacy will be critical to their success.

Proficiency With Data

Teach/perform analysis

Explain complex analytics

Convince with

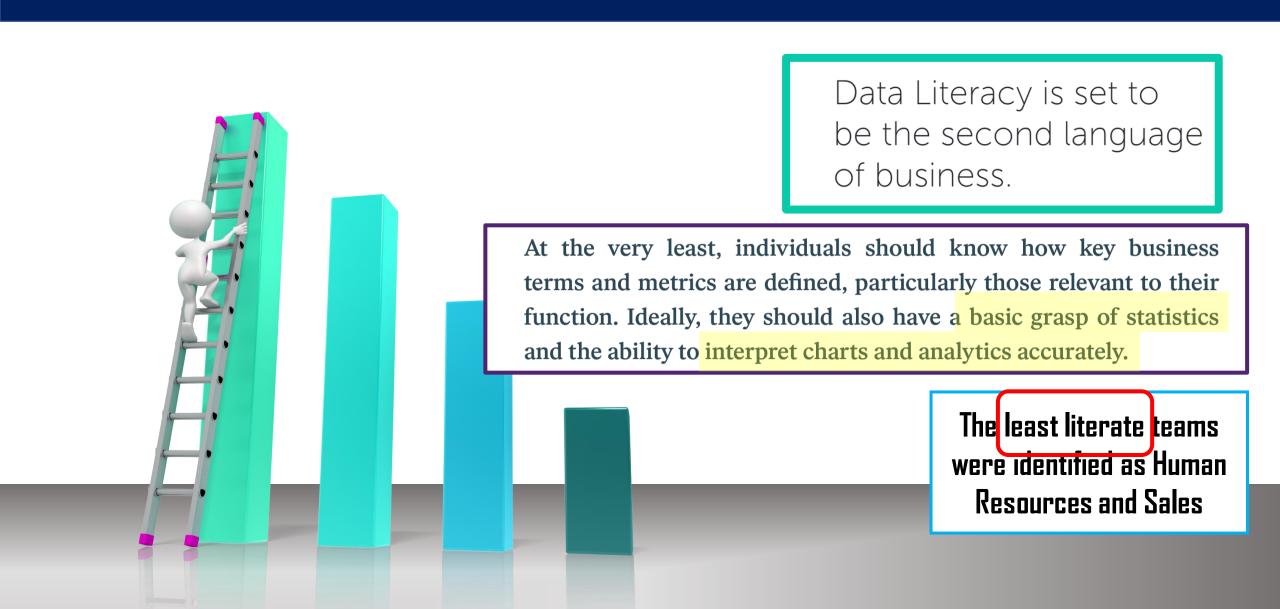
Understand

Read/recognize

Data Literacy

Population

How literate?



Leaders overestimate literacy

75 percent of business leaders believe **most or all** of their workers are data literate

BUT only 50% of middle managers

Proficiency With Data

Teach/perform analysis

Explain complex analytics

Convince with

Understand

Read/recognize

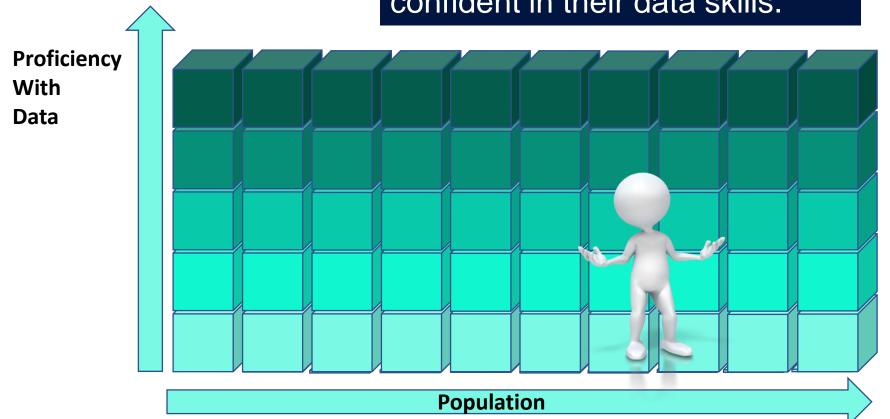
Data Literacy

Population

Who is actually literate now?

Some studies report as few as 8% are highly skilled.

25 percent of employees are confident in their data skills.



Teach/perform analysis

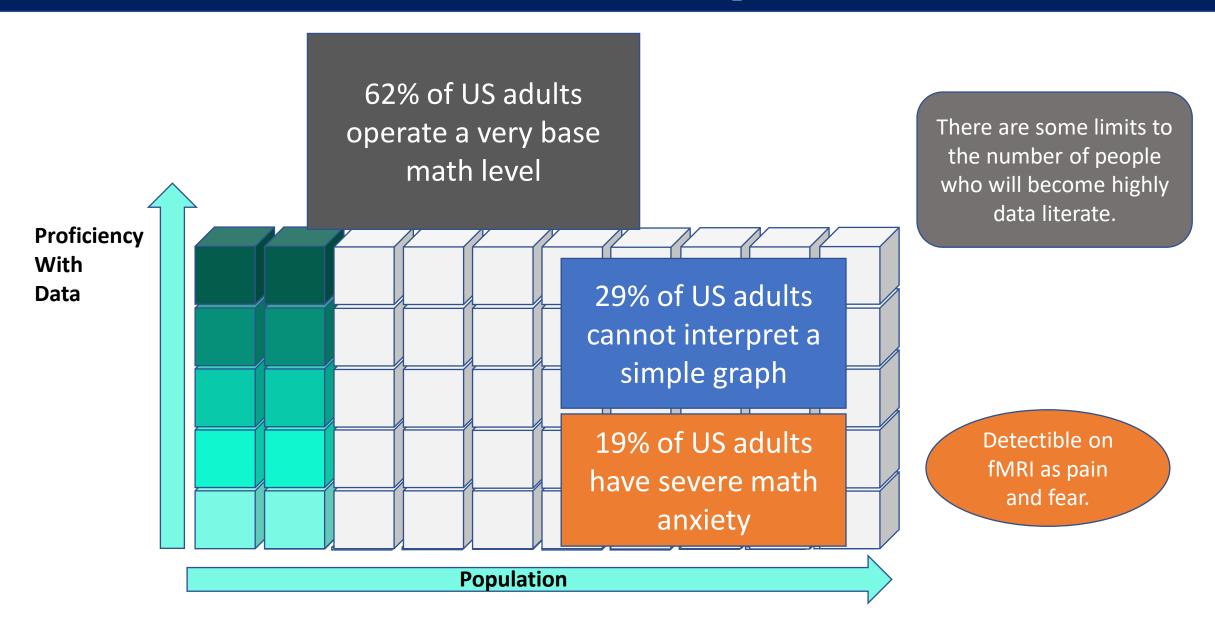
Explain complex analytics

Convince with

Understand

Read/recognize

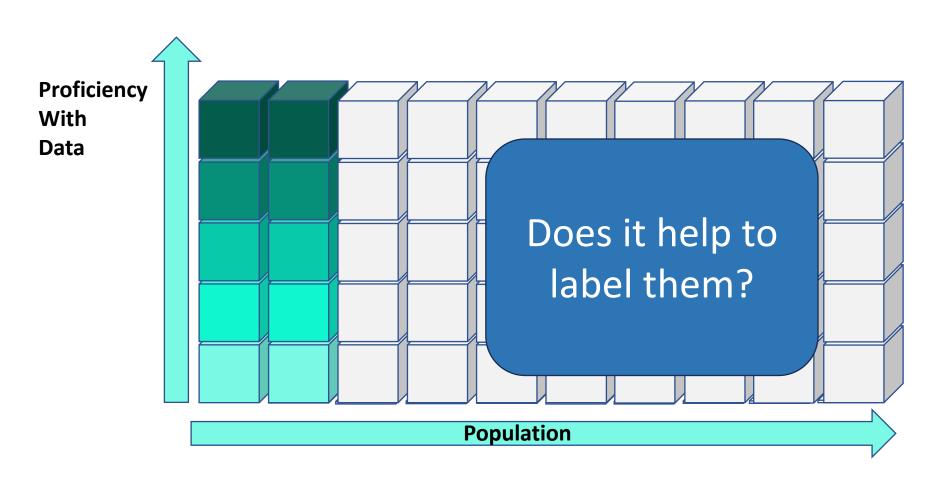
And what can we expect?



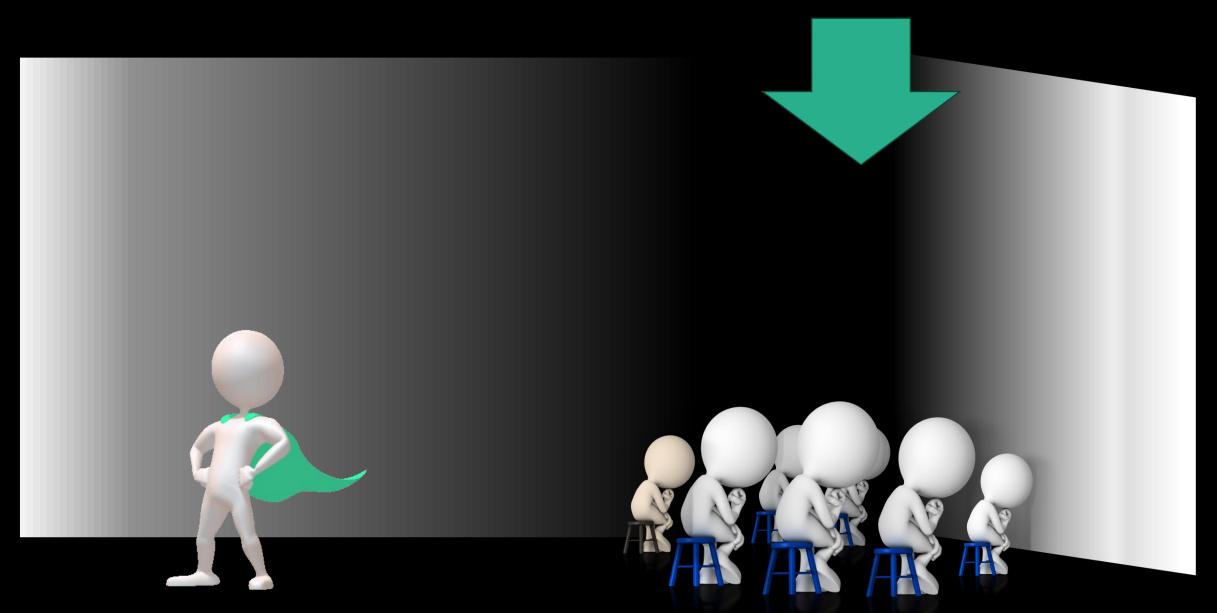
A Majority of Employees are NOT Highly Literate

If high literacy is the exception....

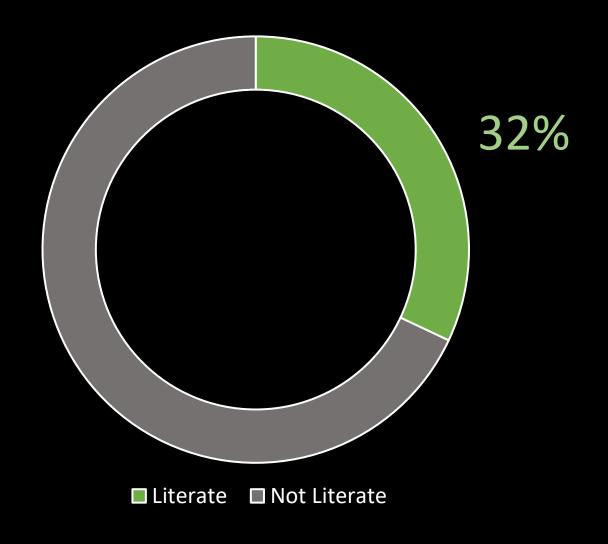
Should that change how we think about the issue?

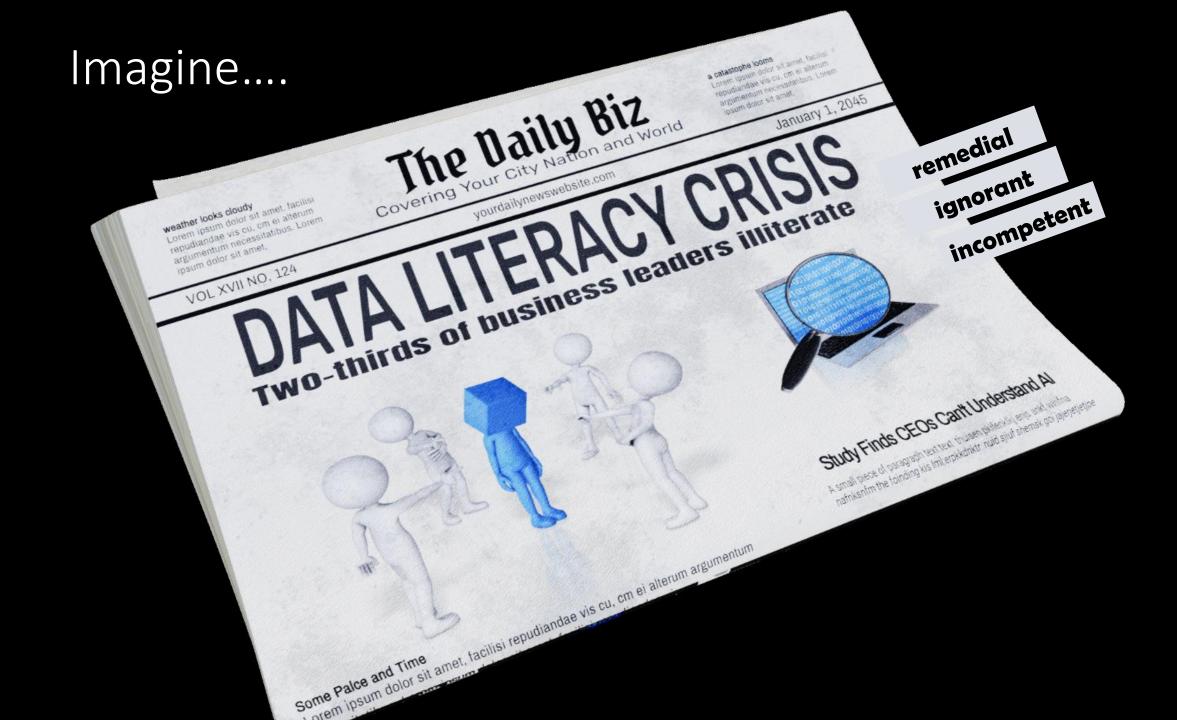


Illiterates here



Percent of C-Suite Executives Considered Data Literate





What about Strategic Alignment?
(a.k.a. Business Literacy)
People and processes are aligned in their purpose and goals.

Employees must understand strategy to implement it.

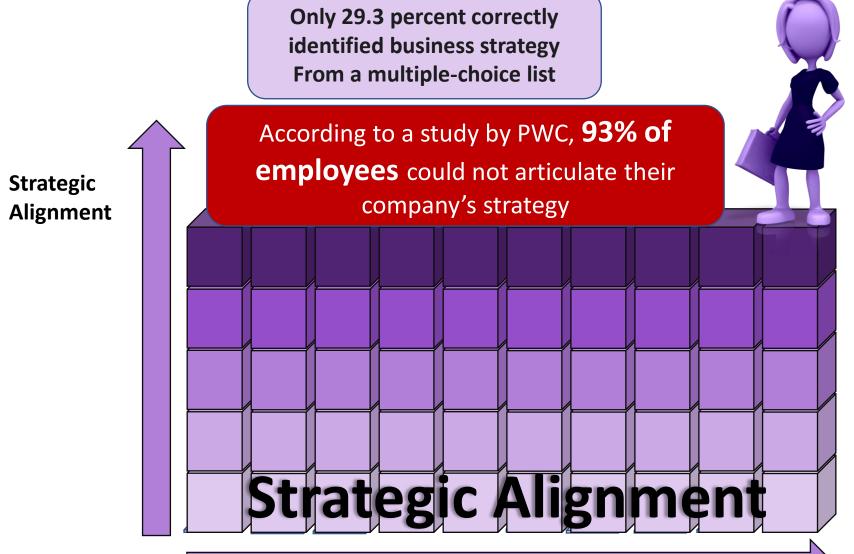
Why Your Employees Need to Understand 'The Why'

Companies whose people are aligned on strategy grow revenue 58% faster and are 72% more profitable

Leaders think strategy is clear



How many understand strategy?



Only 13% of frontline managers could name their company's top three priorities

Create strategy

Tie activities to strategy

Can communicate strategy

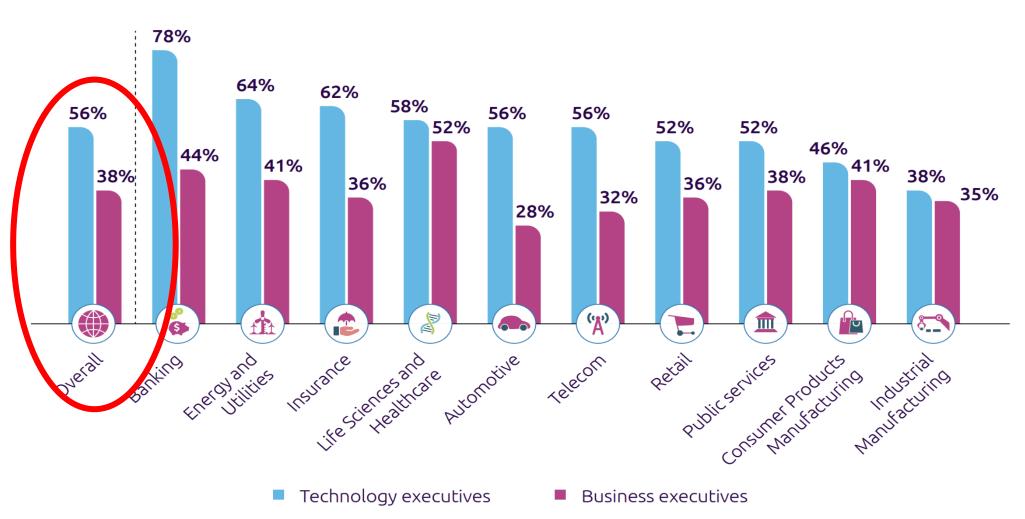
Connect my job to KPIs

Do my job

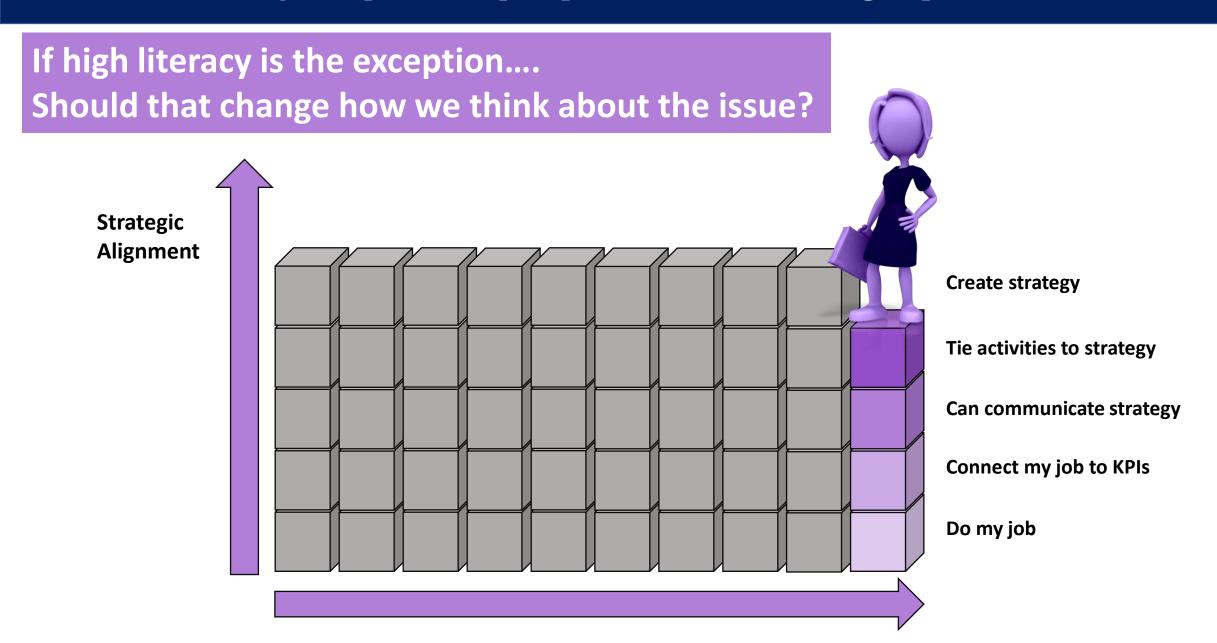
Strategic alignment between business and technology explains 80% of the difference between company performance

Business and technology executives differ on whether data strategy is aligned with organizational vision

Our data/analytics strategy is aligned with overall business strategy



A Majority of Employees are NOT Highly Literate



Data Fluency Levels

Multilingual	Fluent across three elements of information language across multiple business domains, industries and ecosystems
Fluent	Fluent in all three elements of information language across most business domains within an industry vertical
Competent	Competent in designing, developing, and applying data and analytic programs
Literate	Ability to speak, write and engage with data and analytics programs and use cases
Literate Conversational	

Data Fluency Levels

Parlez-vous data?

700

Dataset.

Columns.

Rows.

Graphs.

Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.



Average. Median. Standard deviation. Comparison. Outlier. Prediction.

Conversational	Basic understanding of concepts of data analytics; someone who "gets it" but cannot explain it to others
Introductory	Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.



The scores for group one are significantly higher than the scores for group two.

Literate	Ability to speak, write and engage with data and analytics programs and use cases
Conversational	Basic understanding of concepts of data analytics; someone who "gets it" but cannot explain it to others
Introductory	Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.



We need you to identify the factors that are most strongly associated with success.

Competent	Competent in designing, developing, and applying data and analytic programs
Literate	Ability to speak, write and engage with data and analytics programs and use cases
Conversational	Basic understanding of concepts of data analytics; someone who "gets it" but cannot explain it to others
Introductory	Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.



Controlling for demographics and salary, we found significant differences between groups. Our prediction models achieved an r-square of .6, with several interaction terms (with age) being significant at the .05 level, indicating that the slopes of linear relationships are different for different generations.

Fluent	Fluent in all three elements of information language across most business domains within an industry vertical
Competent	Competent in designing, developing, and applying data and analytic programs
Literate	Ability to speak, write and engage with data and analytics programs and use cases
Conversational	Basic understanding of concepts of data analytics; someone who "gets it" but cannot explain it to others
Introductory	Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.

Data Fluency Levels

Multilingual	Fluent across three elements of information language across multiple business domains, industries and ecosystems
Fluent	Fluent in all three elements of information language across most business domains within an industry vertical
Competent	Competent in designing, developing, and applying data and analytic programs
Literate	Ability to speak, write and engage with data and analytics programs and use cases
Literate Conversational	

Next concept: Emotional/Social Awareness (a.k.a. People literacy)

52% of HR leaders say they will be hiring managers based on their emotional intelligence

Managers with high EQ had teams that averaged 15-20% higher revenue

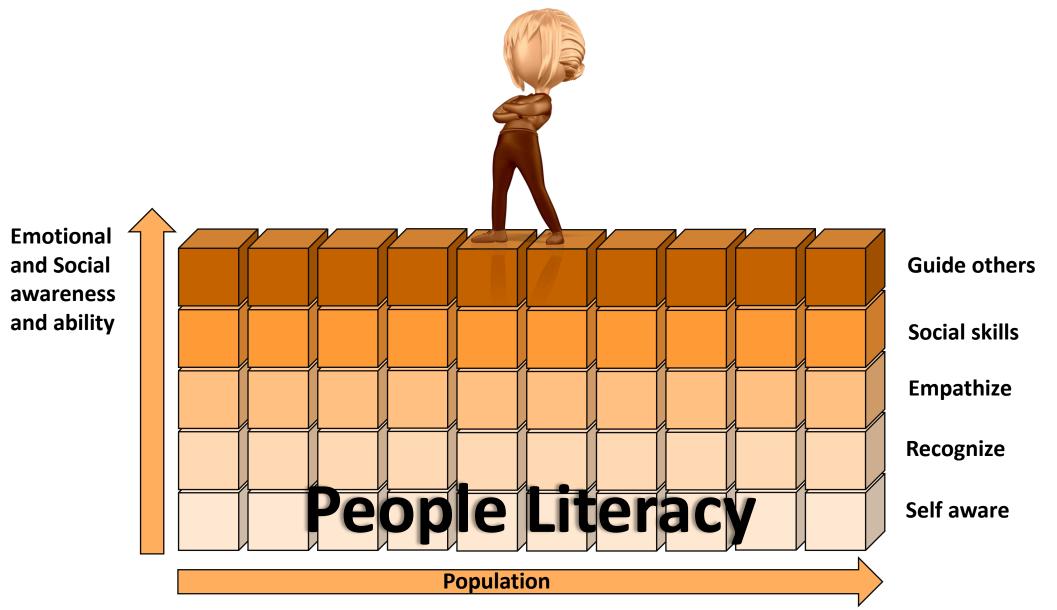
Forbes

LEADERSHIP

The Importance Of Emotional Intelligence In Business

80% of long-term job success depends on EQ, while only 20% on IQ

What is it?



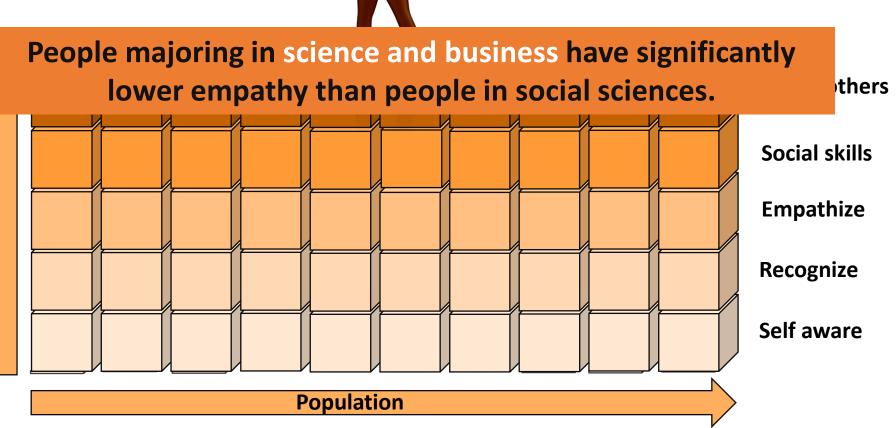
How many have people literacy?

Only 36% of people are able to recognize and identify emotions.



95 percent of people think they're selfaware, but only 10 to 15 percent actually are

Emotional and Social awareness and ability



Why it's especially important for data efforts

Forbes

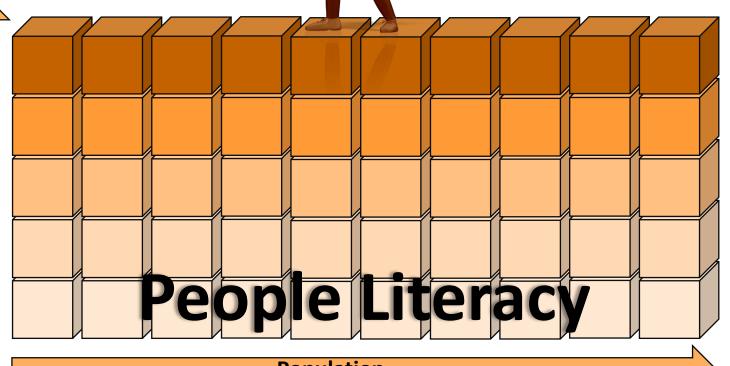
Digital Transformation Is 80% EQ And 20% IQ

It's people issues that make or break it

90% of companies intend to accelerate digital transformation.

70% of transformation projects fall short.

Emotional and Social awareness and ability



Guide others

Social skills

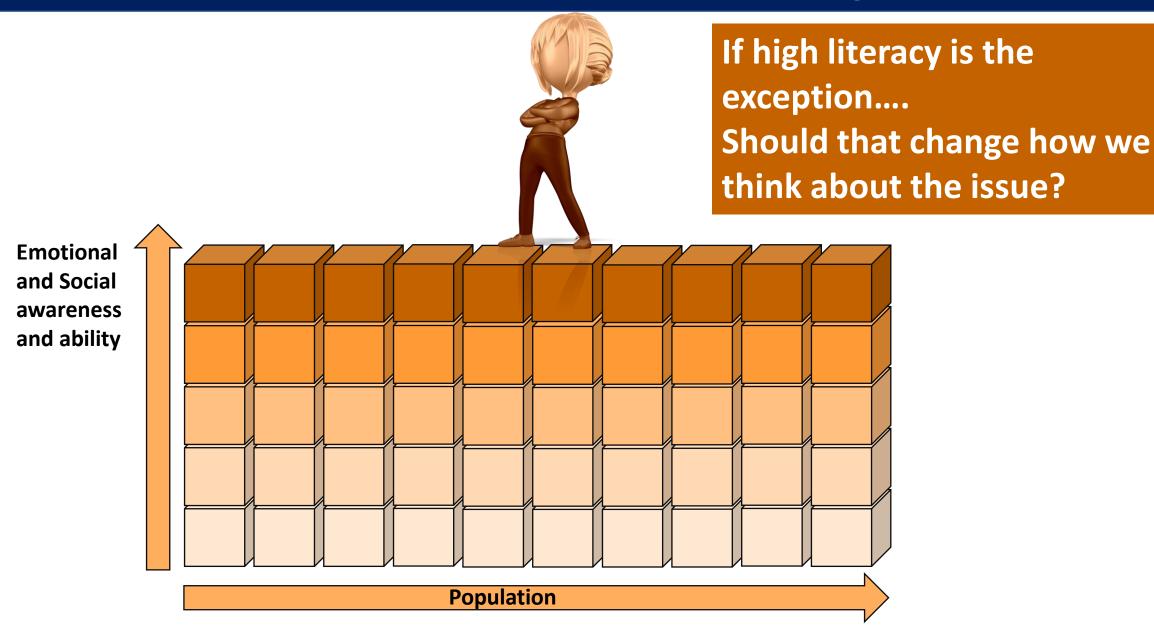
Empathize

Recognize

Self aware

Population

A Majority of Employees are NOT Highly Literate



Is Literacy Really the Goal?

Low Literacy

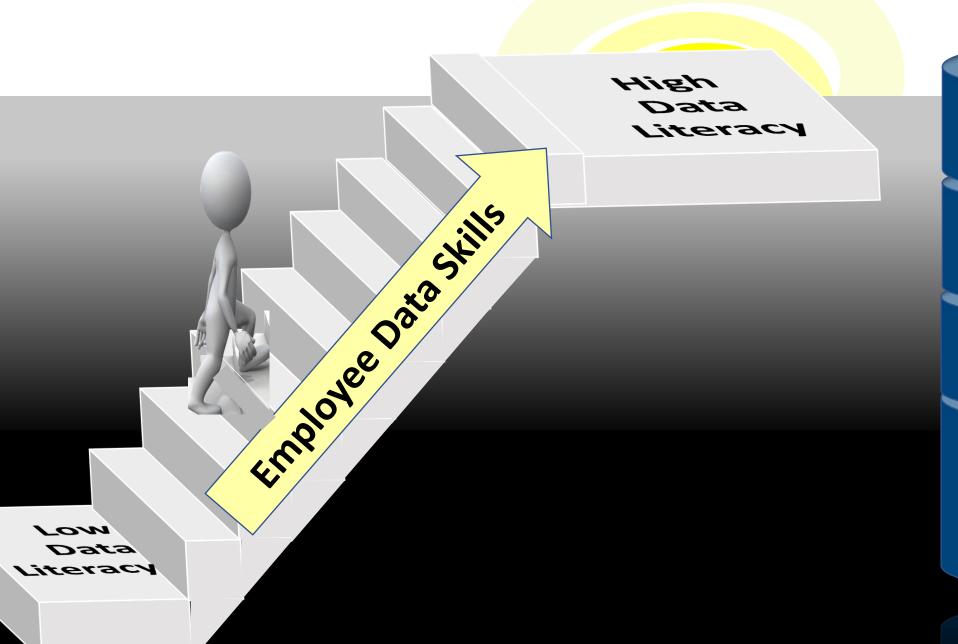
Or is it to be: Highly Insight Driven



Company-wide intelligent, information-driven decisions and actions.

Consistently

- Use timely information
- Notice problems and opportunities
- Ask better questions
- Make better decisions
- Extract insights at all levels



Insights From Data

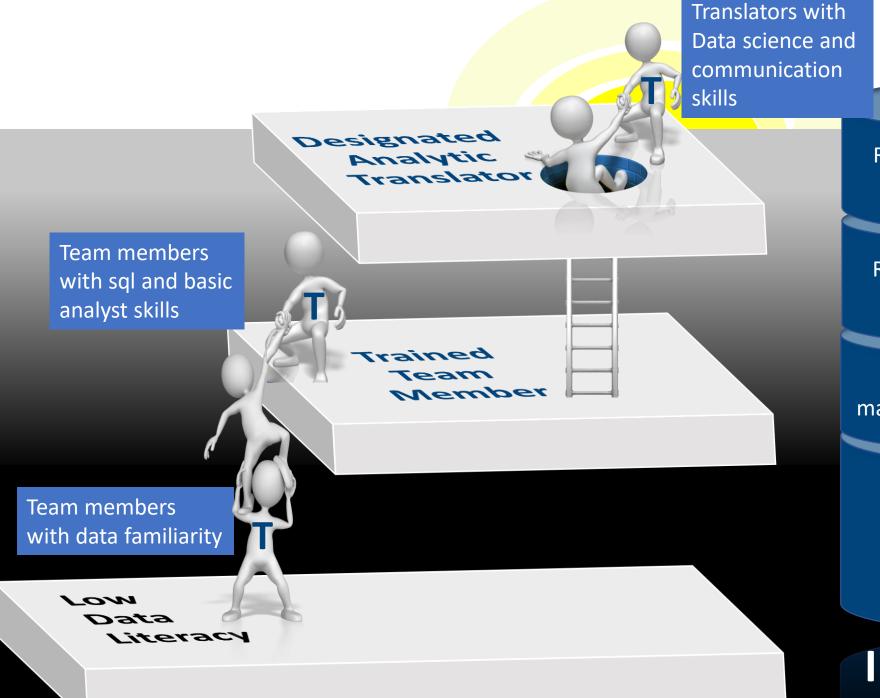
Requires advanced analytic skill, data sophistication

Requires moderate analytic skill, data experience

Requires basic data manipulation, data knowledge

Available to anyone with minimal expertise

Insight Access



Insights

Requires advanced analytic skill, data sophistication

Requires moderate analytic skill, data experience

Requires basic data manipulation, data knowledge

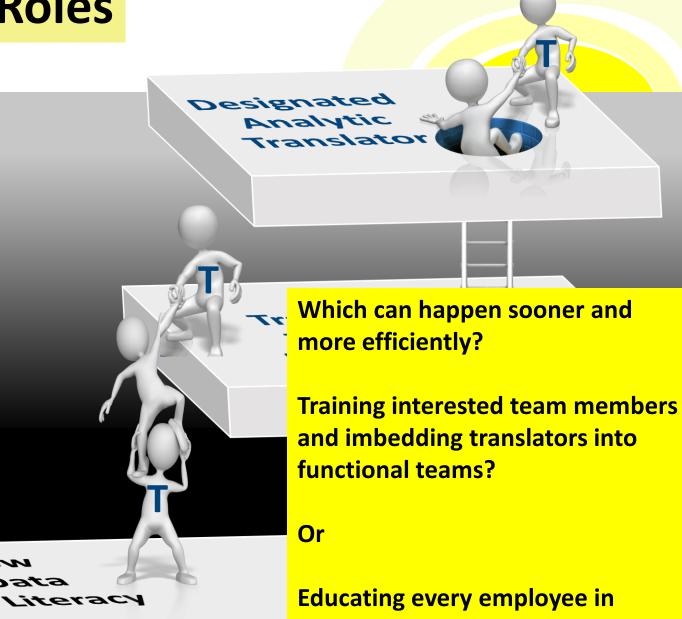
Available to anyone with minimal expertise

Insight Access

New Roles

WOL

efect



literacy?

From Data

Requires advanced analytic skill, data sophistication

Requires moderate analytic skill, data experience

Requires basic data manipulation, data knowledge

Available to anyone with minimal expertise

Insight Access

Data Fluency Levels

Translator	Trained in relating to many types of people as well as fluent across multiple business and analytic domains
Multilingual	Fluent across three elements of information language across multiple business domains, industries and ecosystems
Fluent	Fluent in all three elements of information language across most business domains within an industry vertical
Competent	Competent in designing, developing, and applying data and analytic programs
Literate	Ability to speak, write and engage with data and analytics programs and use cases
Conversational	Basic understanding of concepts of data analytics; someone who "gets it" but cannot explain it to others
Introductory	Becoming familiar with terminology. Recognizes certain words, can understand and speak a few appropriately.

What's in a label?

Does it matter?

Data Fluent

Data Engagement

Data Savviness Data Brilliant

Data Literate Data Confidence

Data Empowered Data Skills

Data Competent

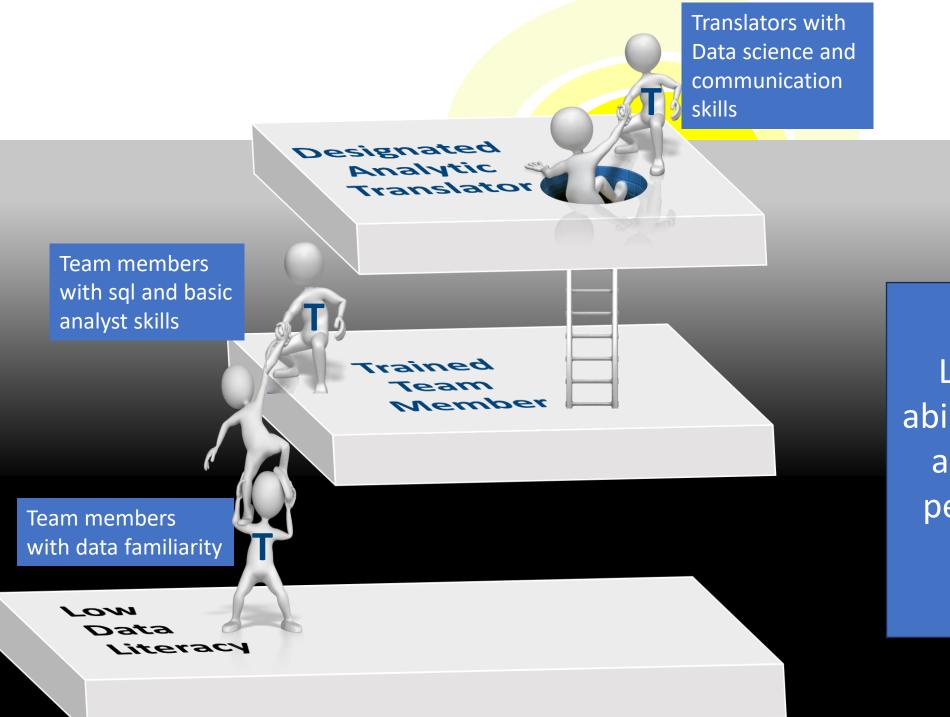
Data Natives Data Maturity

Data Personas

Data Intelligent

High EfEGVocratil *Moderate* EfEG*Vocrati1*

Literacy Data Low



Leverage the abilities, interests and skills that people already have.





Analytic Translators may be part of the solution

wendy@analytic-translator.com

Linkedin: @wendylynchphD