The Science of Managing Data Scientists

What to buy & when to buy it.

Find the best products and get price predictions backed by our guarantee.



Learn about Decide Score



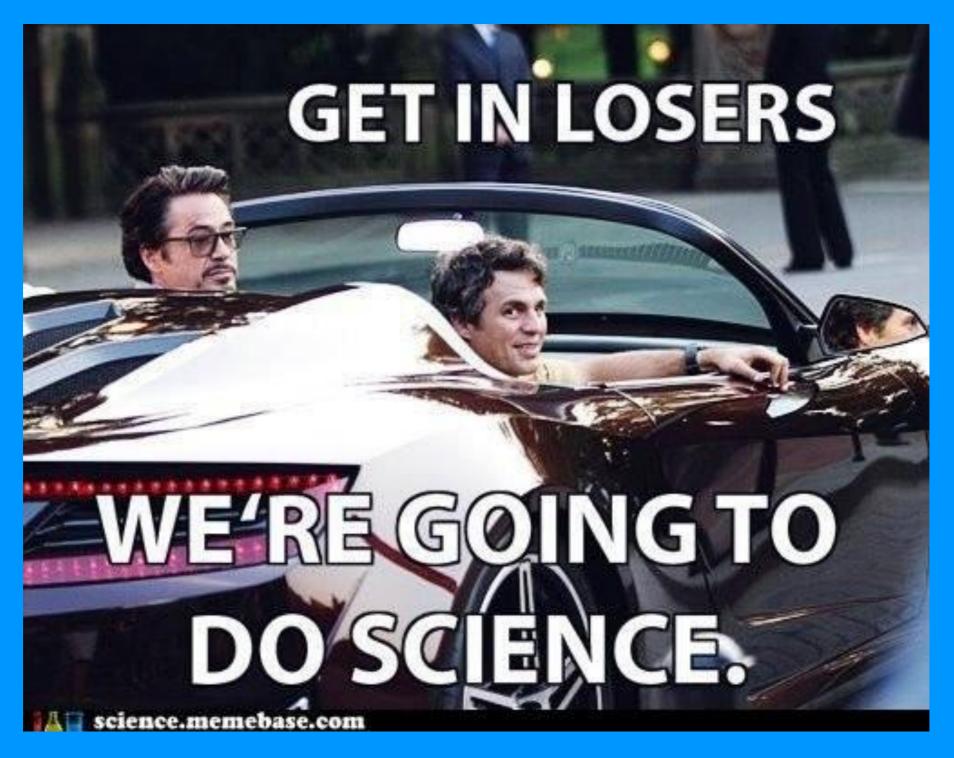
See how price predictions work



Learn about price guarantees

What are they doing all day?

Data science is different



Research doesn't fit the traditional



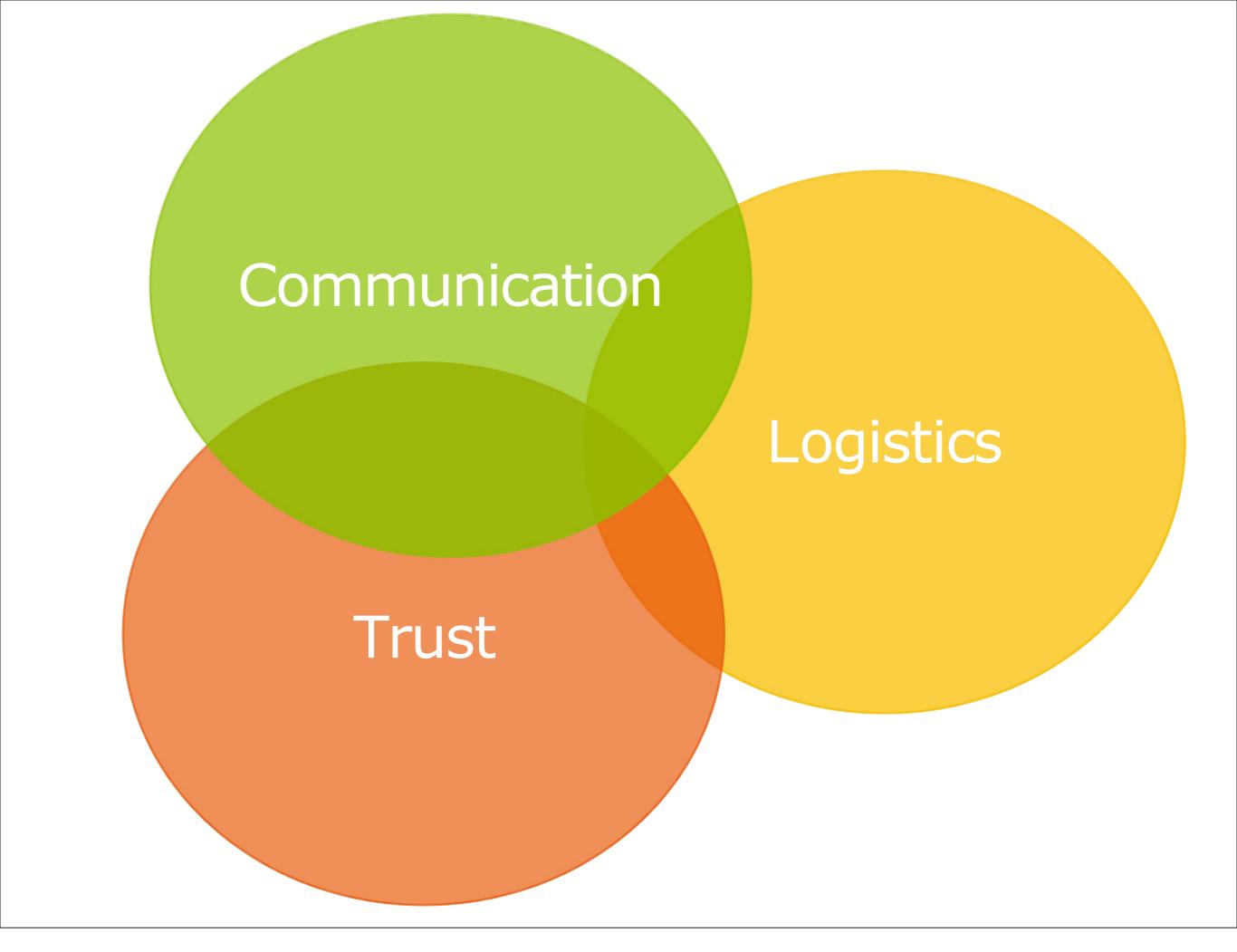
Good help is hard to find (and keep)

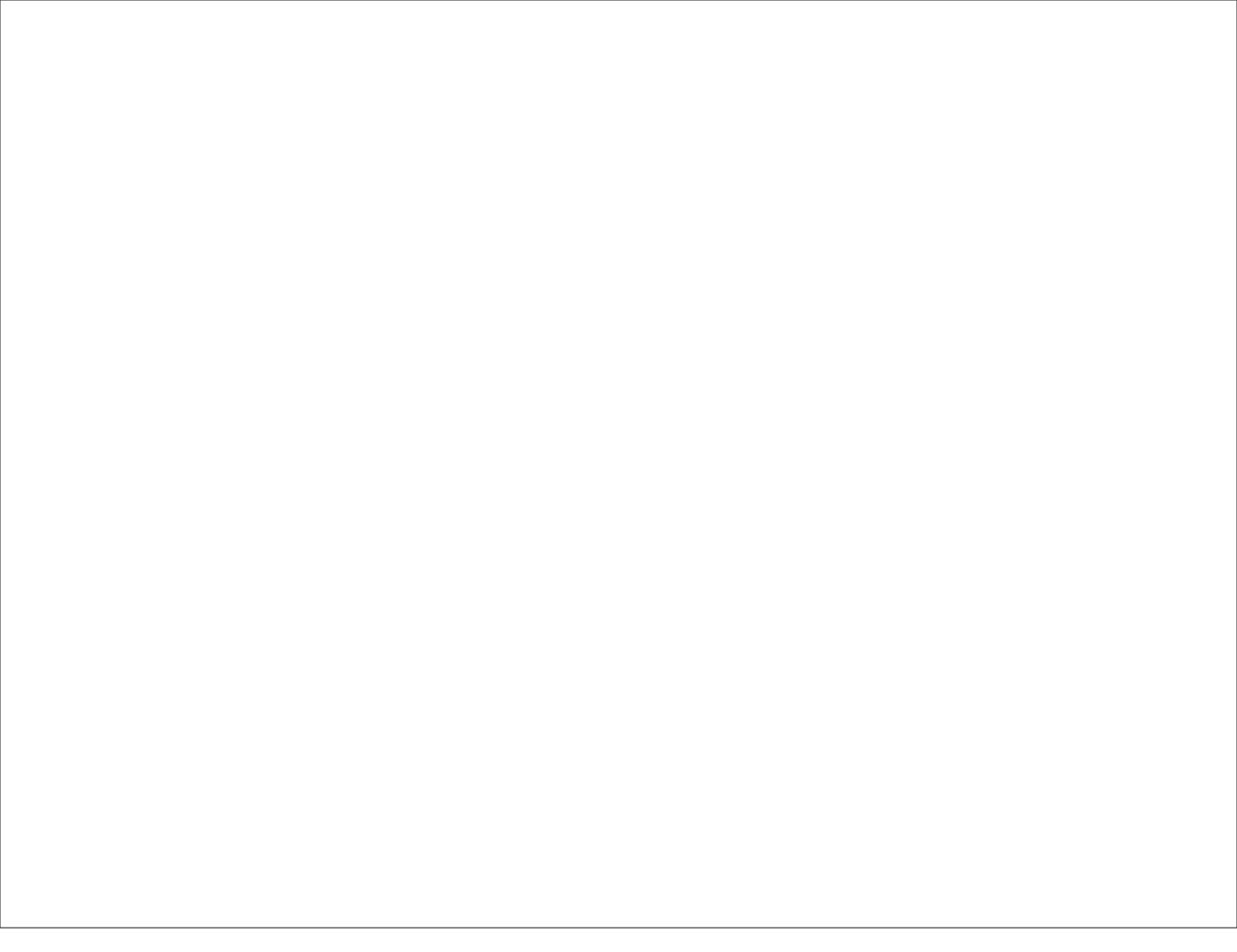


What are they doing all day?

Bring transparency









Do you speak the same language?

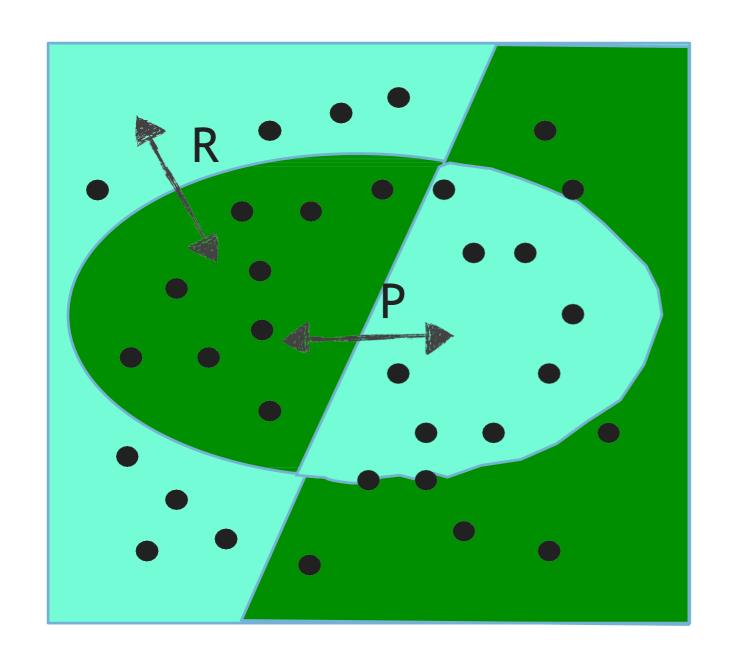


What does it mean to be finished?

I can tell that you've pretended to work very hard on this project. someecards



Define "quality"



Give them a lesson in semantics

What do precision and recall mean?

Before

Precision: 80%
Recall 25%

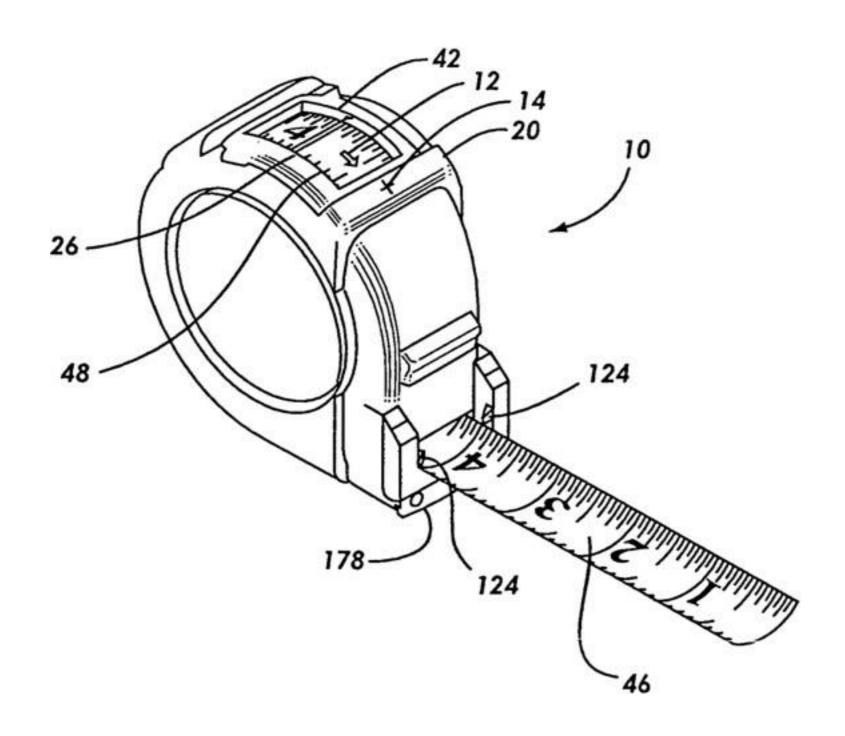
After

For the top search terms* accessories appear 25% of the time on the first page.

For top search terms the head products are present 90% of the time in the top 3 results, 98% of the time in the top5.

★ Top search terms are the 1000 most popular queries on our website over the last 30 days.

Measure with data that matters



This is a really hard problem.

We know it is hard...

We know it is hard... but we don't know why it is hard.

Use analogies & examples



Use analogies & examples

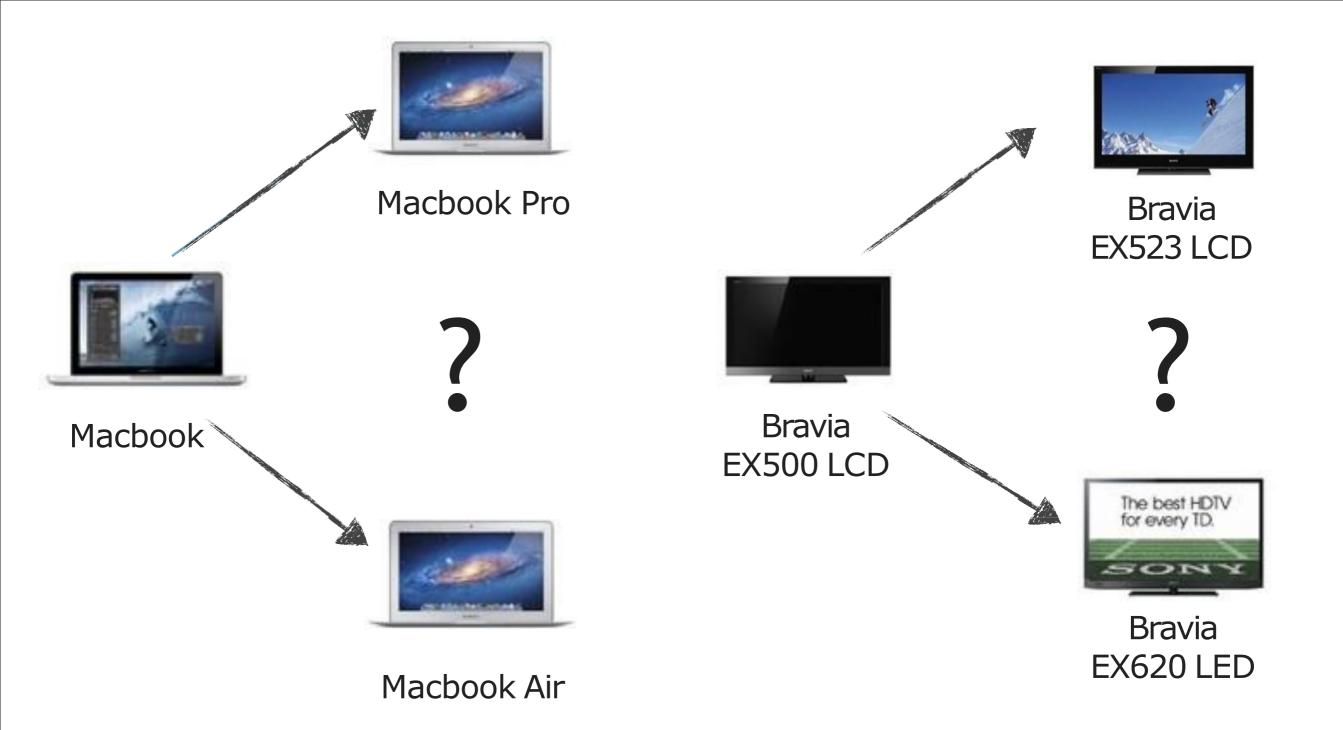


The dandelion swayed in the gentle breeze like an oscillating electric fan set on medium.

Constructing model lineages for products is really difficult.

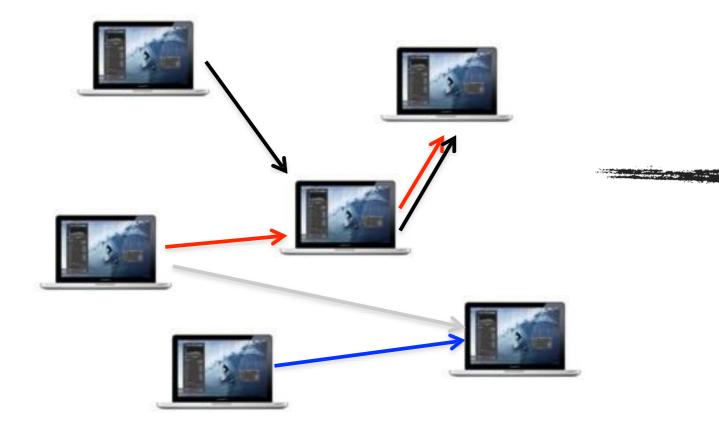
Next model within 4 months 77% Confidence



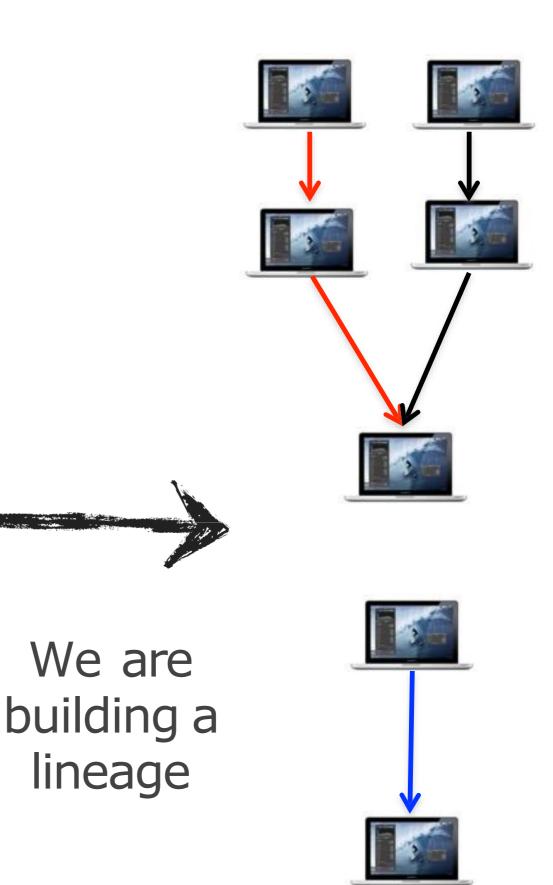


Be specific

Take it up a level



Product Evolution



Show before



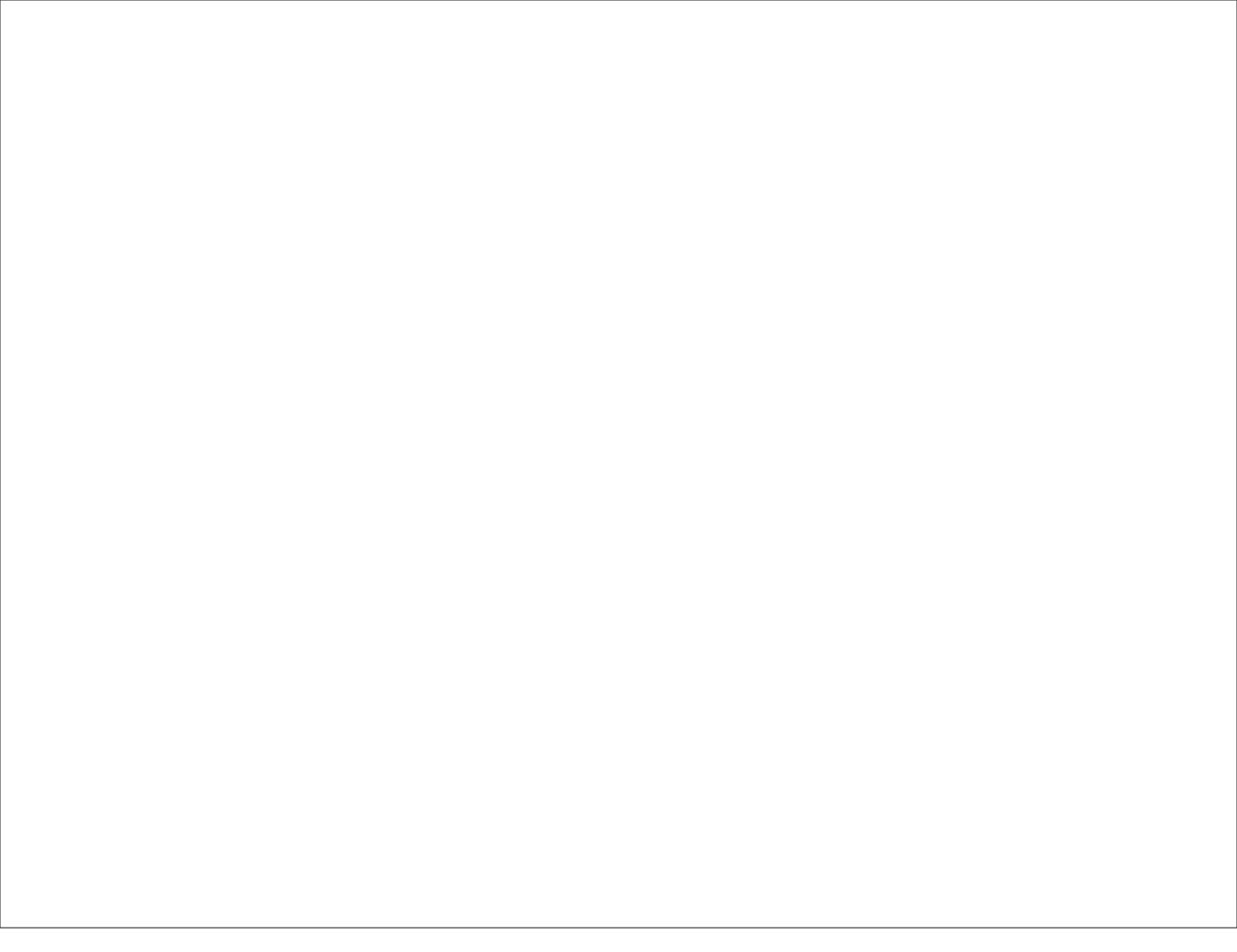
Show before



image src: www.clarkgriswoldcollection.com

and

after

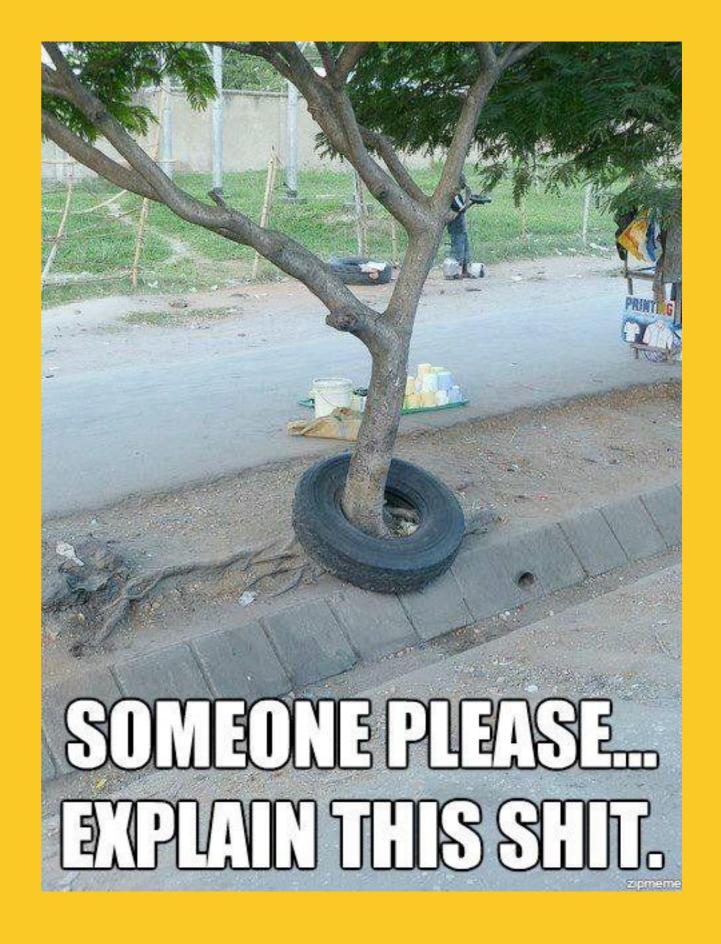




How do you create a sense of urgency?



What are the reasons behind it?



Deadlines in research?



They don't call it research for nothin'



You can't predict the future



Applying "agile" to R&D



image <u>source:http://mousebreath.com/wp-content/uploads/2011/08/funny-farmers.jpg</u>

Applying "agile" to R&D



image <u>source:http://mousebreath.com/wp-content/uploads/2011/08/funny-farmers.ipq</u>

Applying "agile" to R&D

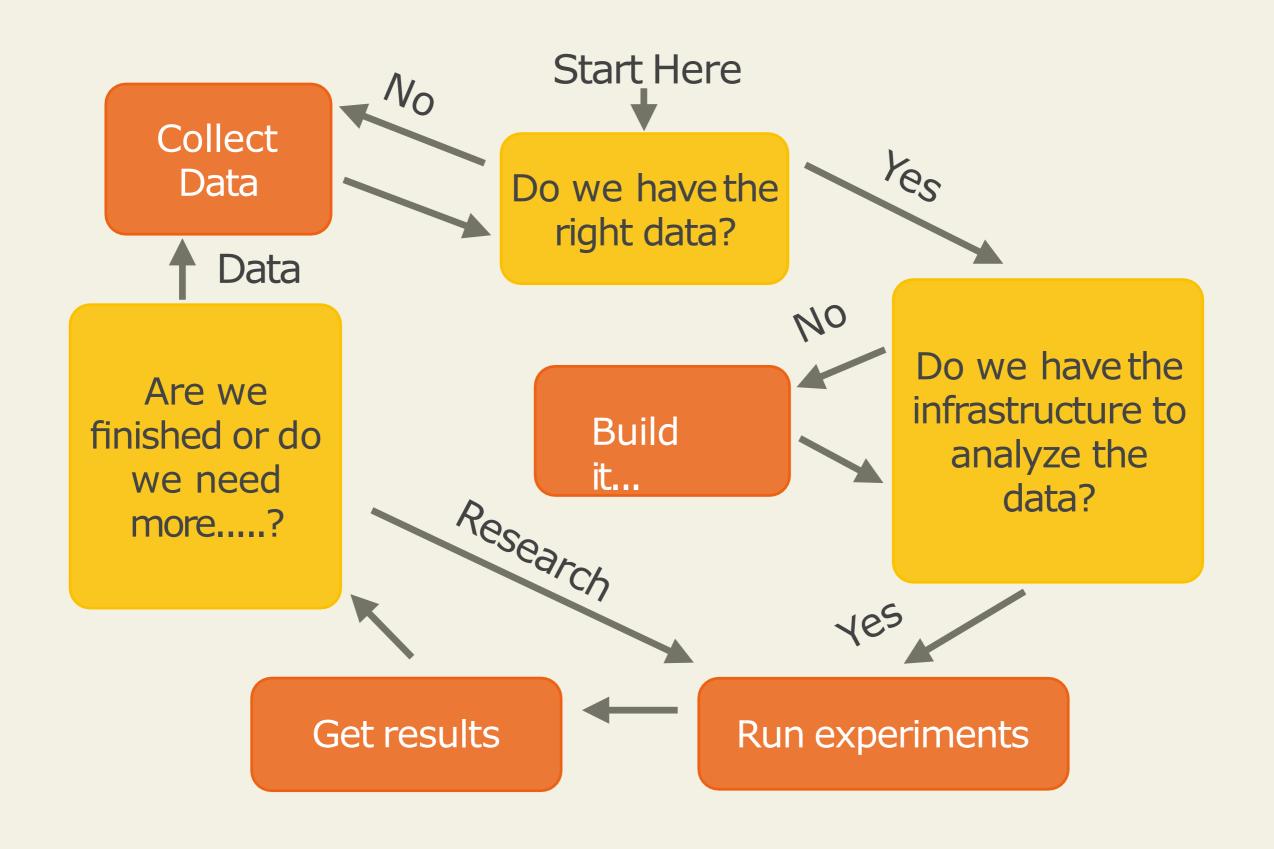


image <u>source:http://mousebreath.com/wp-content/uploads/2011/08/funny-farmers.ipq</u>

Applying "agile" to R&D



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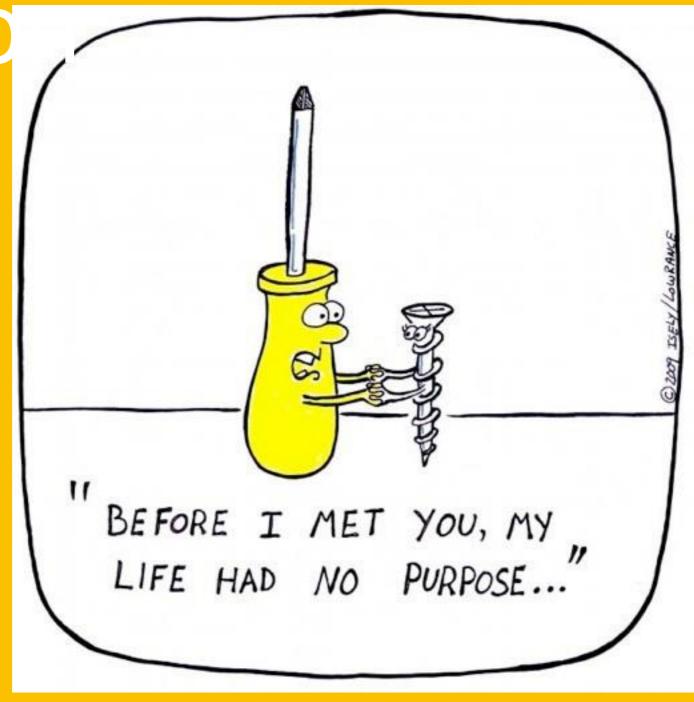


Experiments can take a while...



Take tools out of the

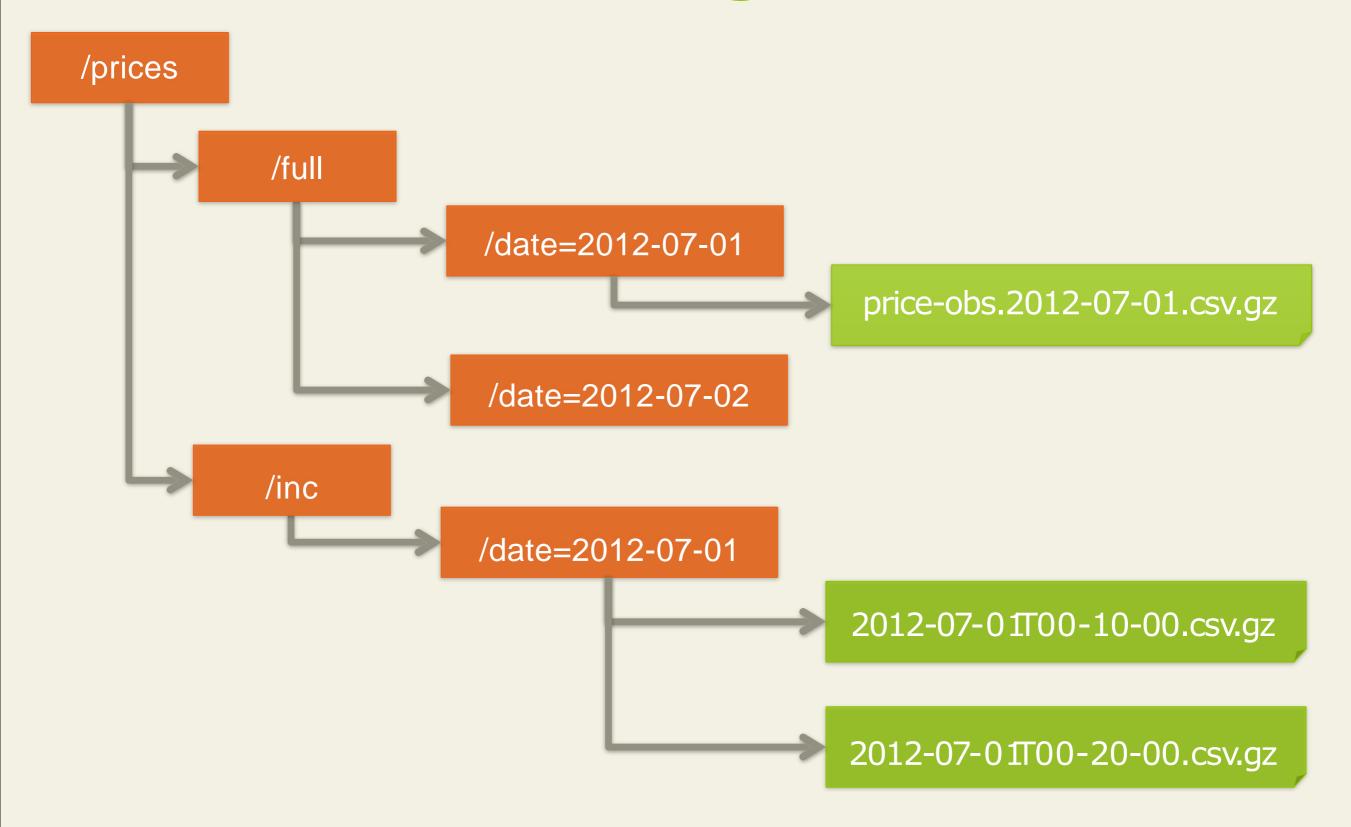
equatio



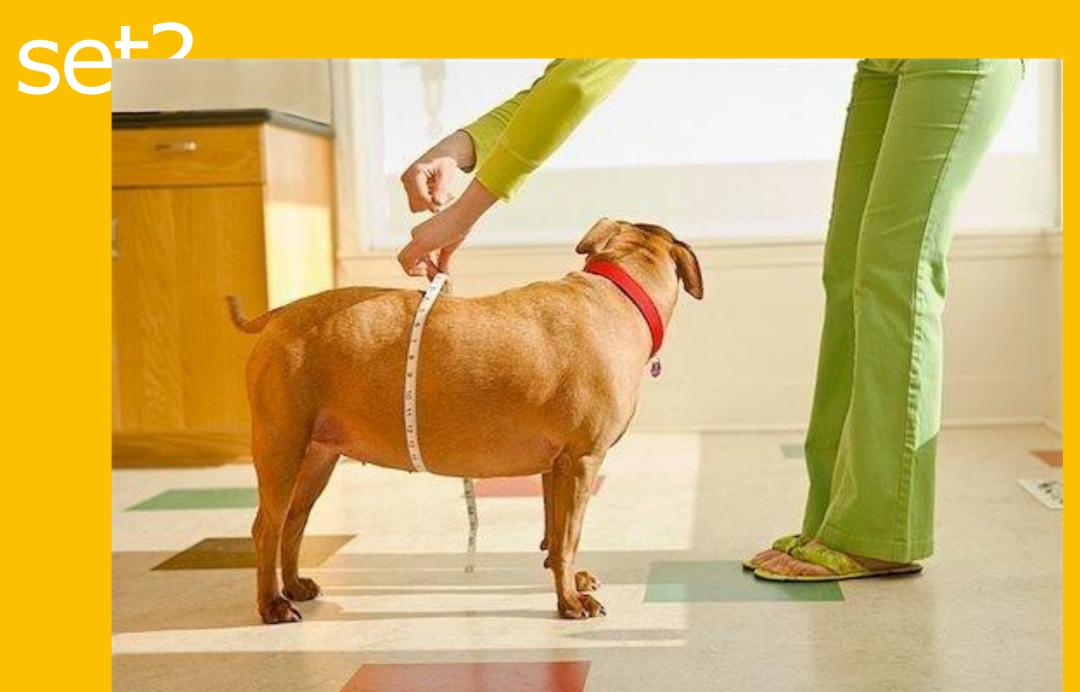
Focus on feeds and files

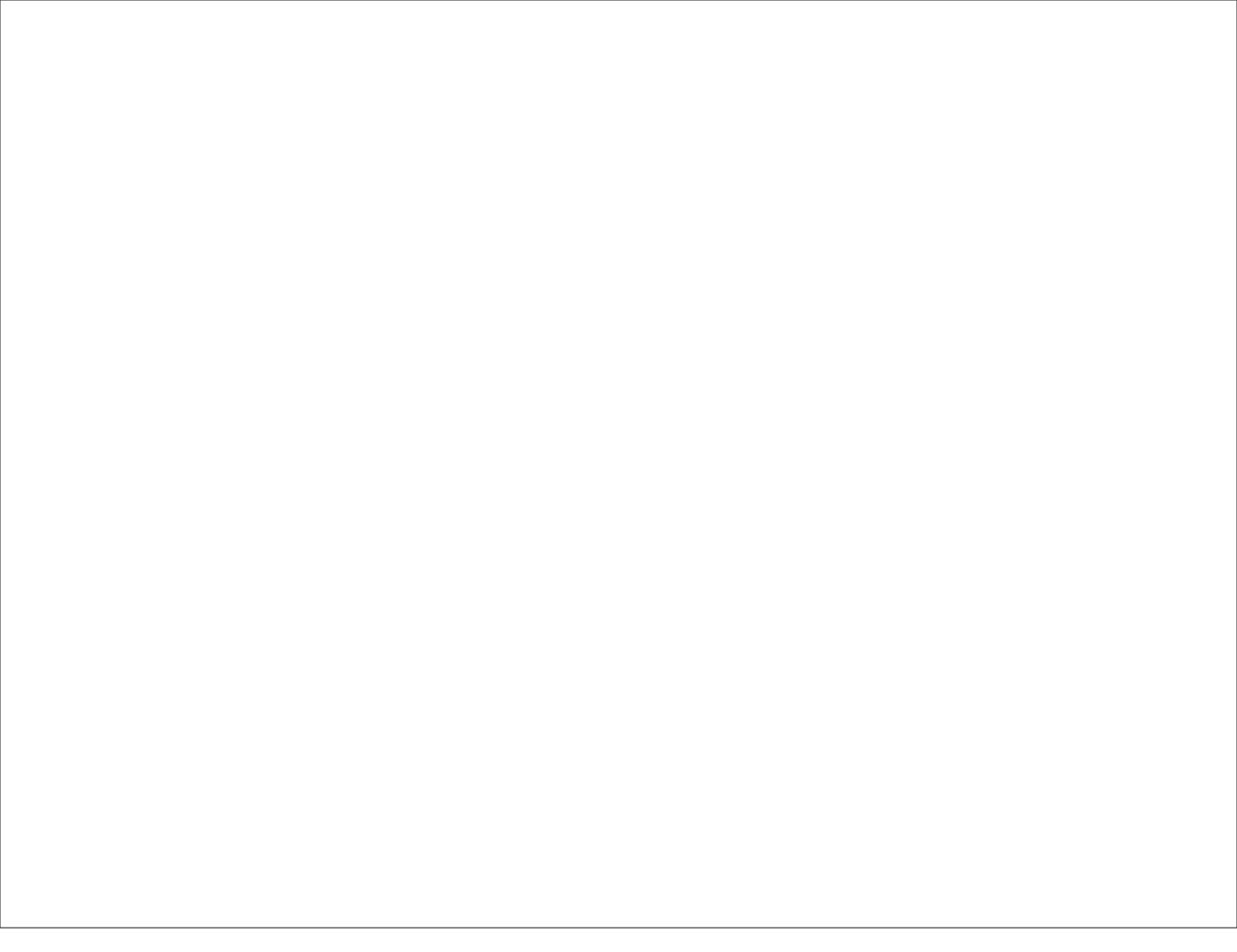


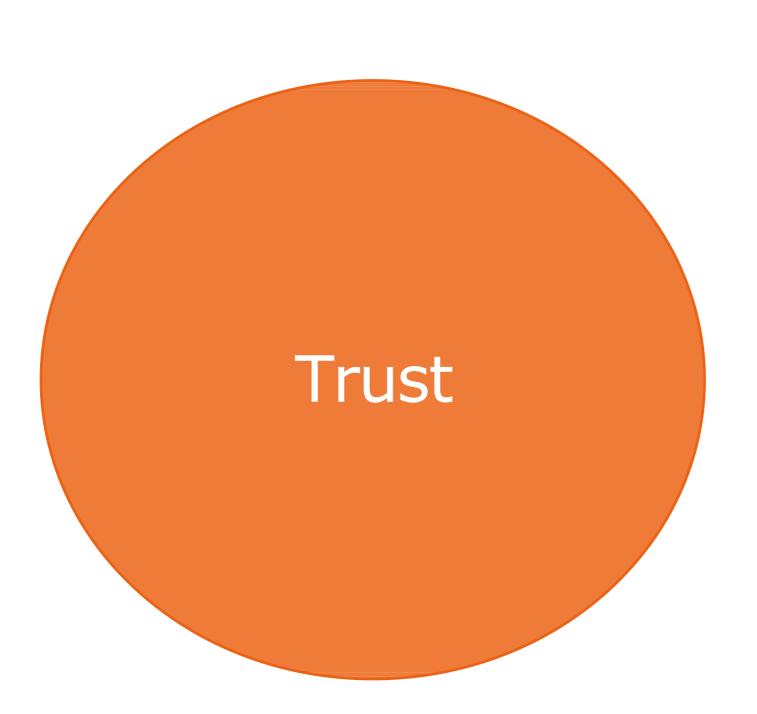
Format & storage standards



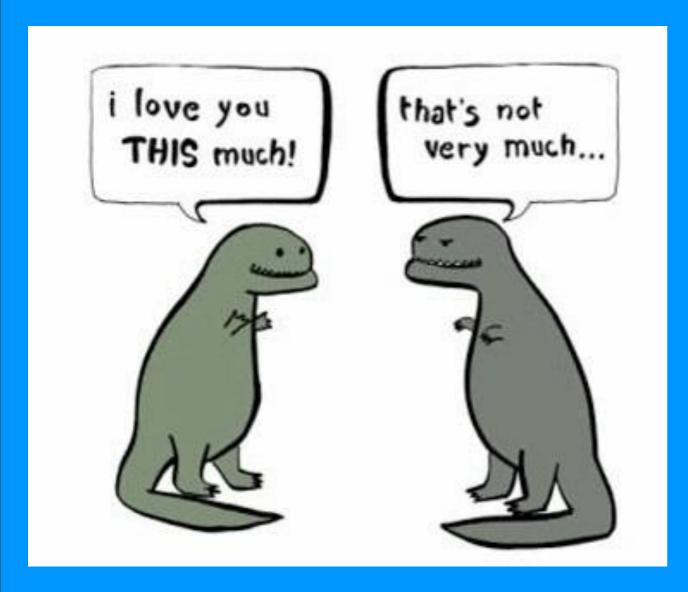
Where is your golden







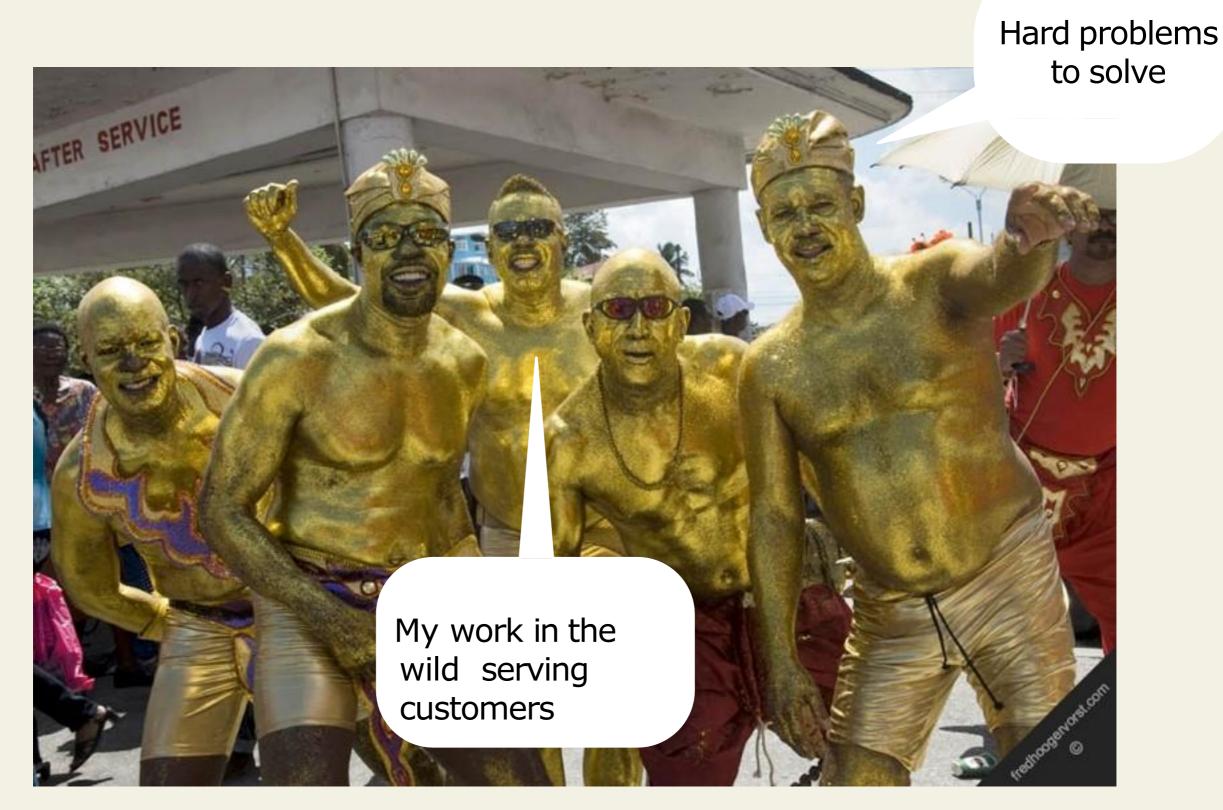
What are they doing all day?



Building trust



Hard problems to solve FTER SERVICE









Minimize time-to-ship

Let them own the

dal



Let me write a



Algorithms can't solve everything

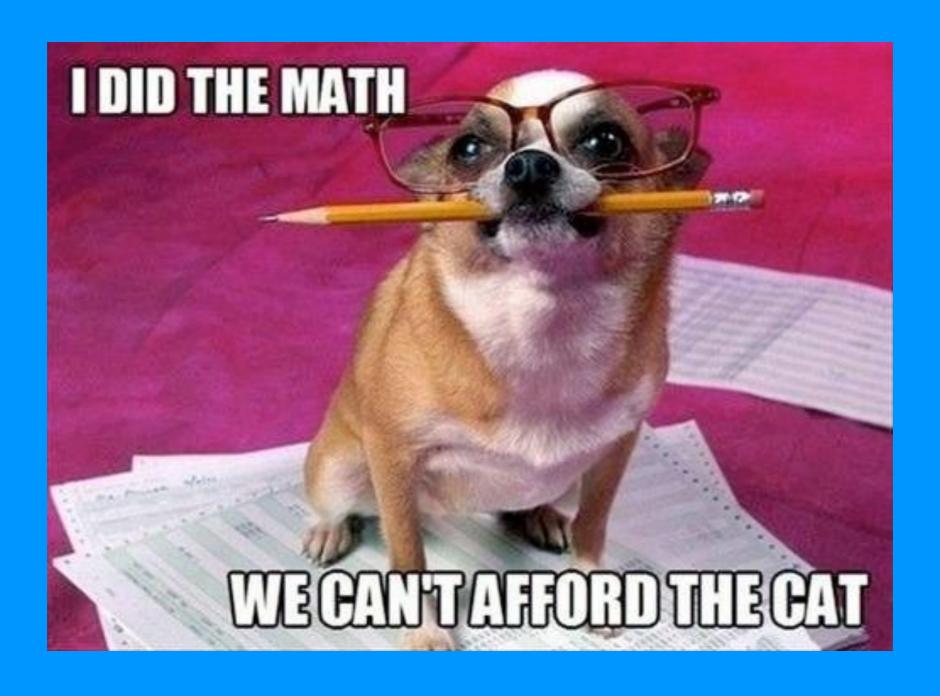


Algorithms can't solve everything



Even though we wish they could!

Manual data can be awesome



Can you do the impossible?

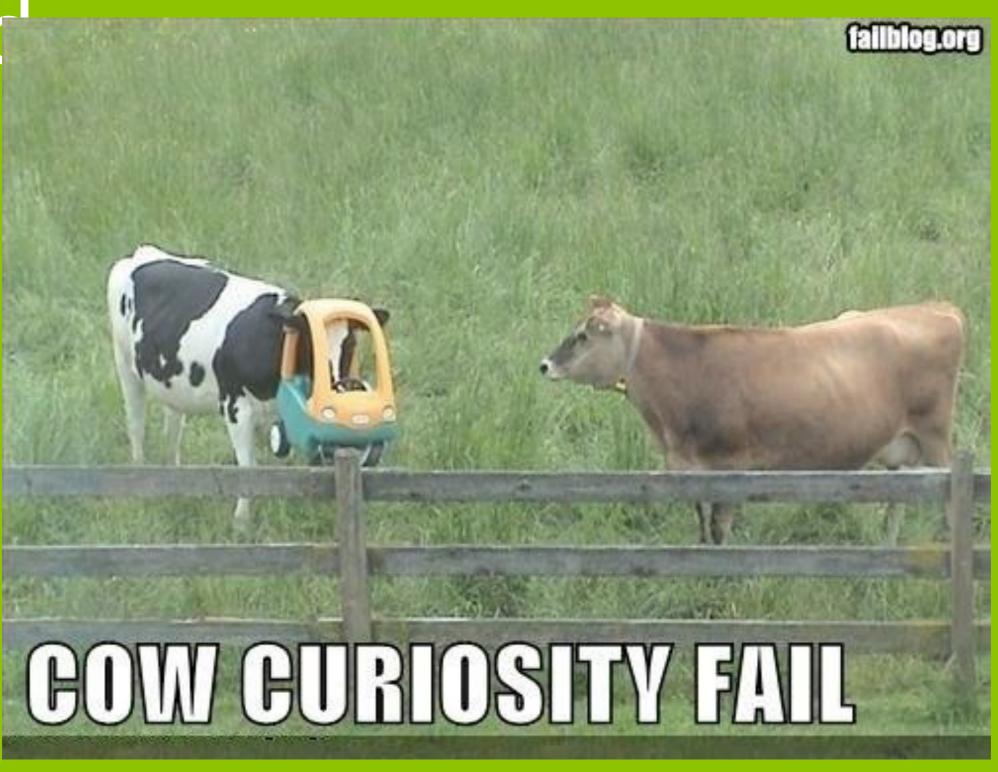




Data Miners aren't magicians

You CAN make failure look

g00(



Your challenge:



Your challenge:

Should you choose to accept it....



Your Take Chaffie Description and transform it into a feature

Should you choose to accept it....



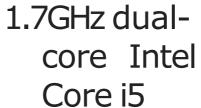
HARD: Value Estimation







FLASH



\$300





\$250



Intel HD Graphics 4000

\$100



8GB SDRAM

\$200



Apple premium

\$200

Estimated Value:

\$1050

EASIER: Comparing Products

How it Compares



Apple MacBook Air 13.3" MacBook Air 13.3 (Mid 2012) Core i5 1.8 GHz 4 GB RAM 128 GB HDD \$1.099



Apple MacBook Air 11.6" MacBook Air 11 (Mid 2012) Core i5 1.7 GHz 4 GB RAM 128 GB HDD \$1,036



V580 Core i7 2.4 GHz 8 GB RAM 1.02 TB HDD

\$1,000



Lenovo IdeaPad 13.3" Yoga 13 Core i5 1.7 GHz 8 GB RAM 128 GB SSD

\$1,115

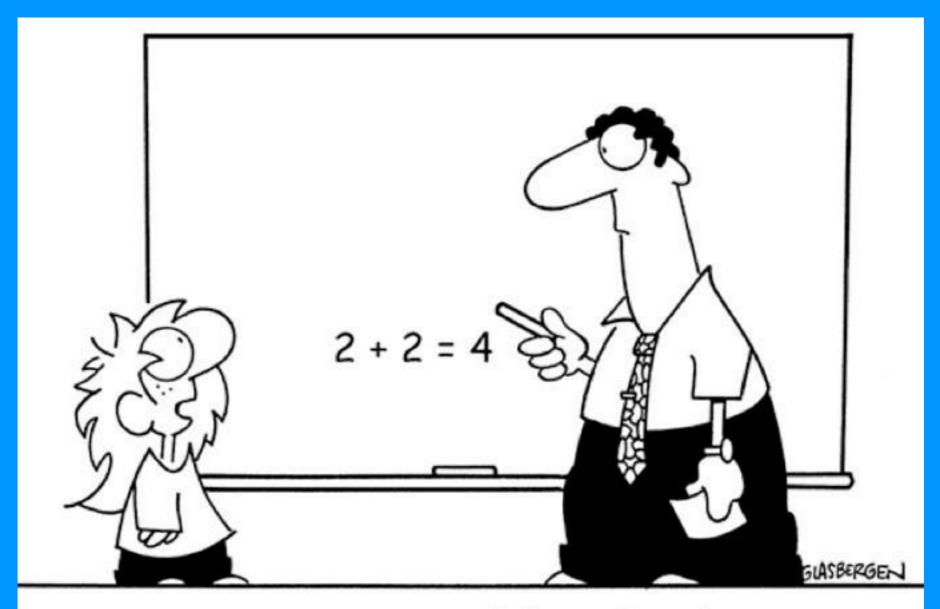
Think with your business



How do you surface ideas &

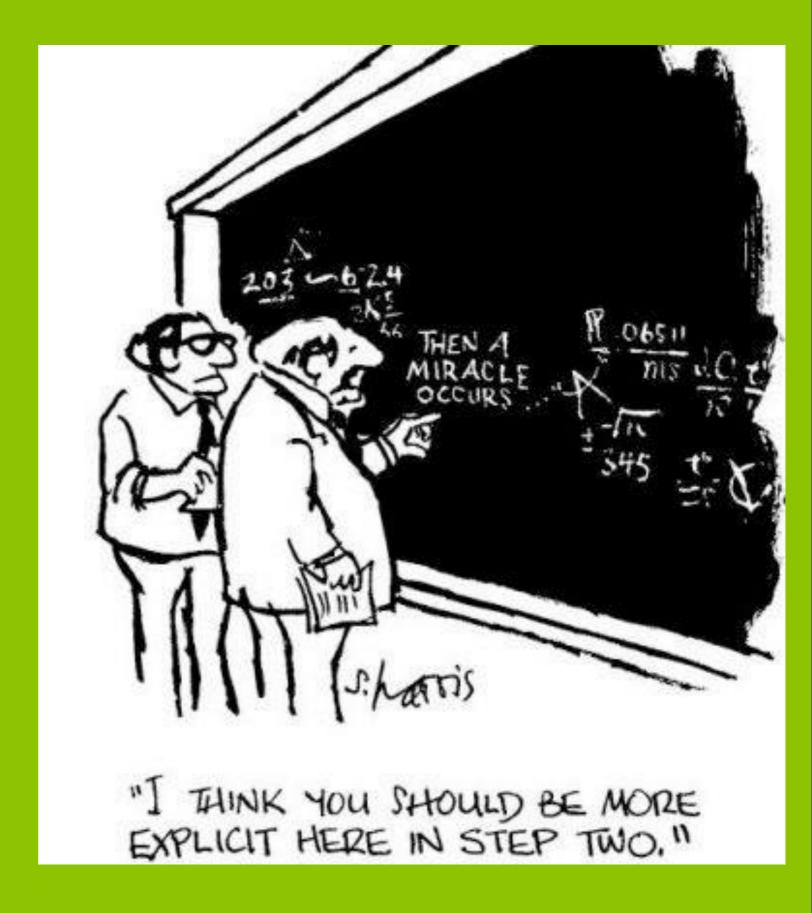


Show 'em



"How can I trust your information when you're using such outdated technology?"

And show 'em often

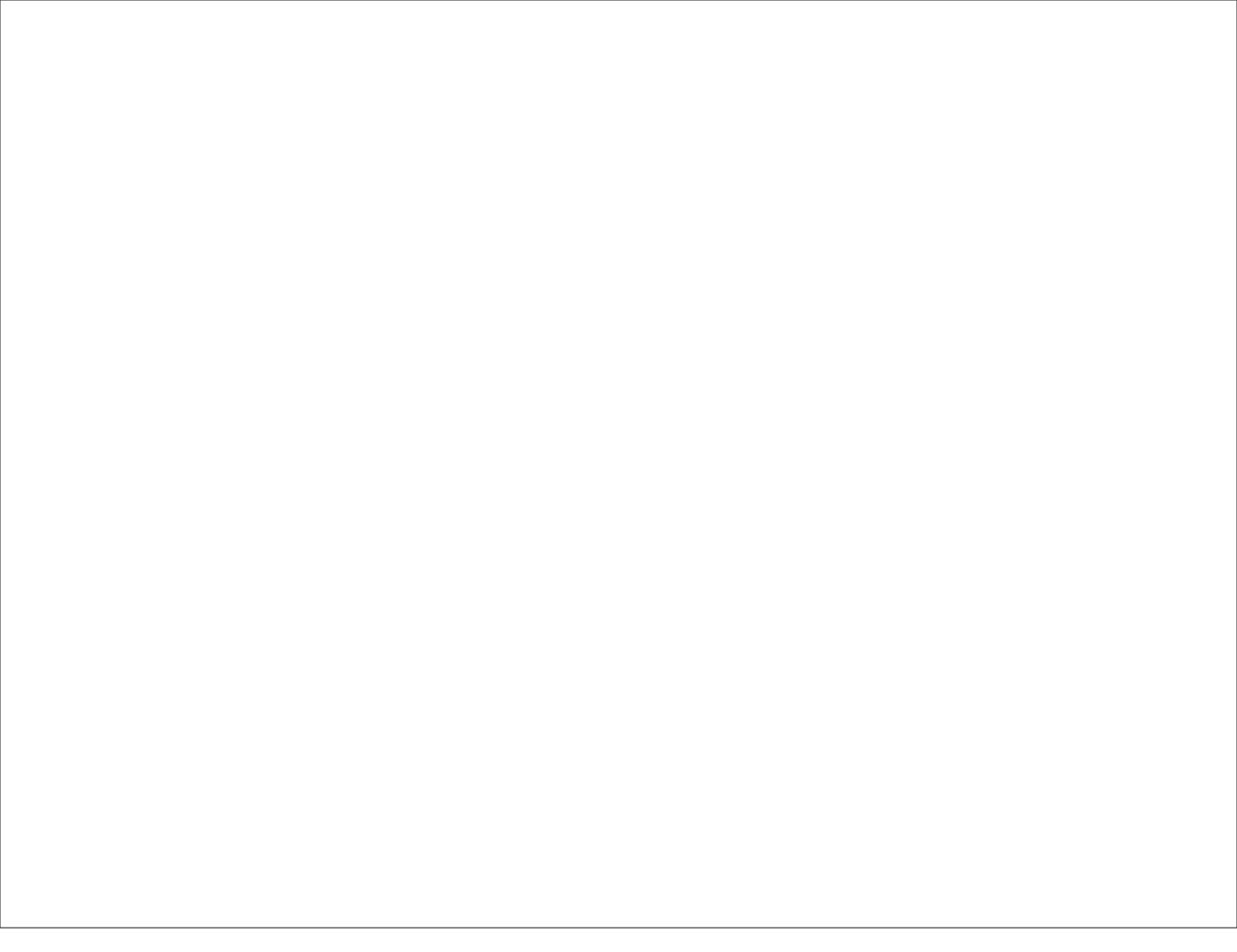


Negative results happen

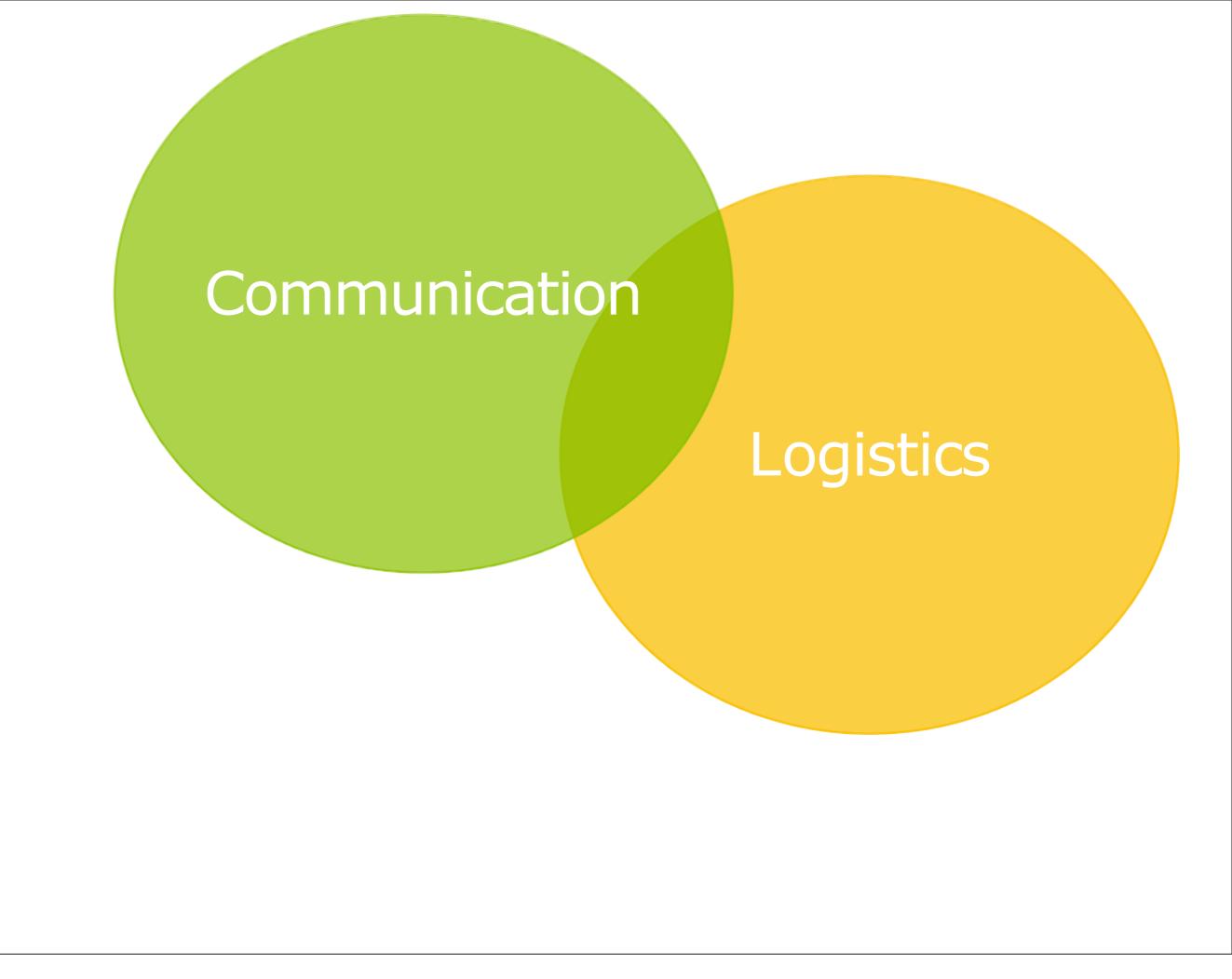


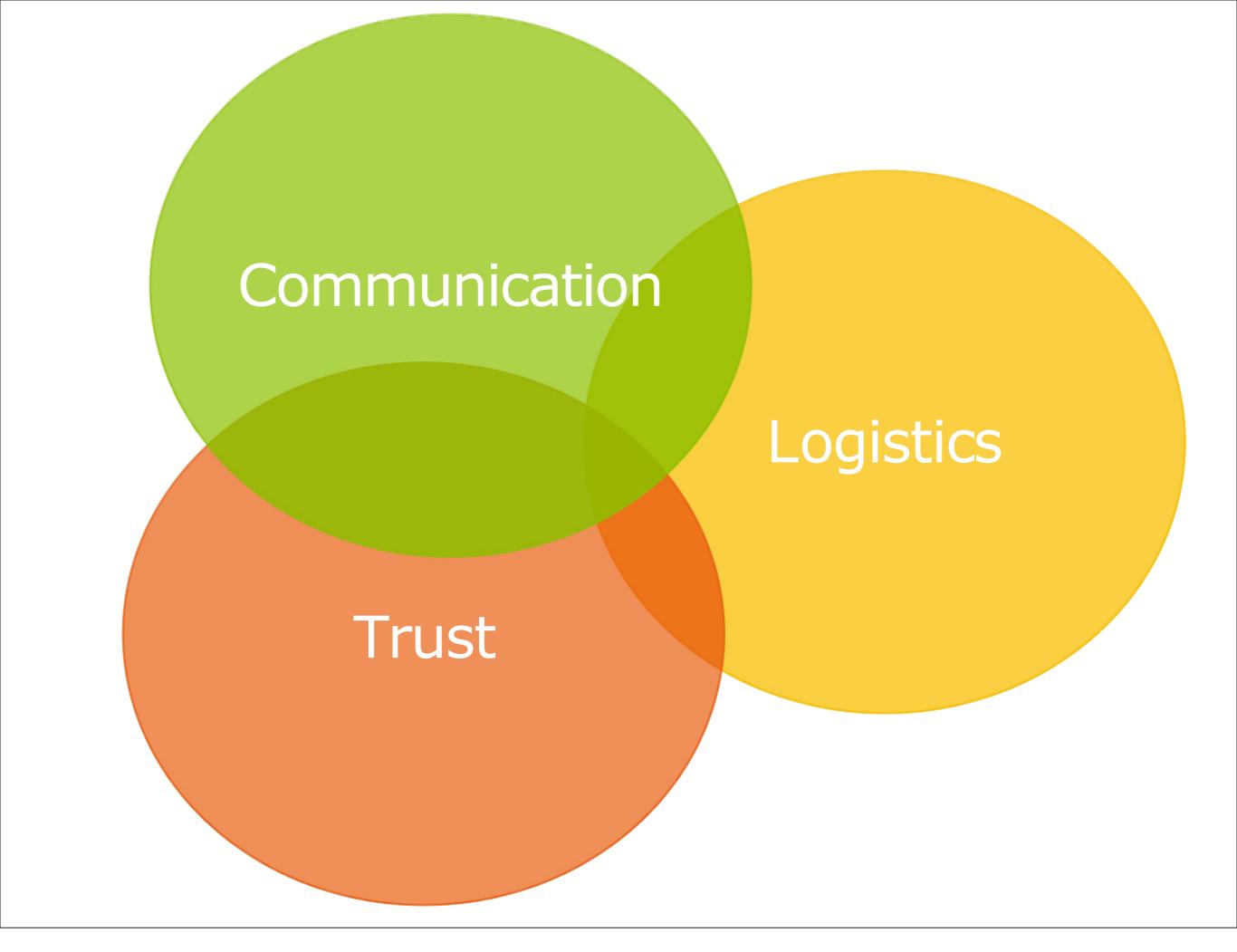
The journey is the











Questions



http://katemats.co m_@katemats

May the forces of evil get lost on the way to your doorstep.

Questions



http://katemats.co m_@katemats