



# Building Effective Relationships with Internal Customers

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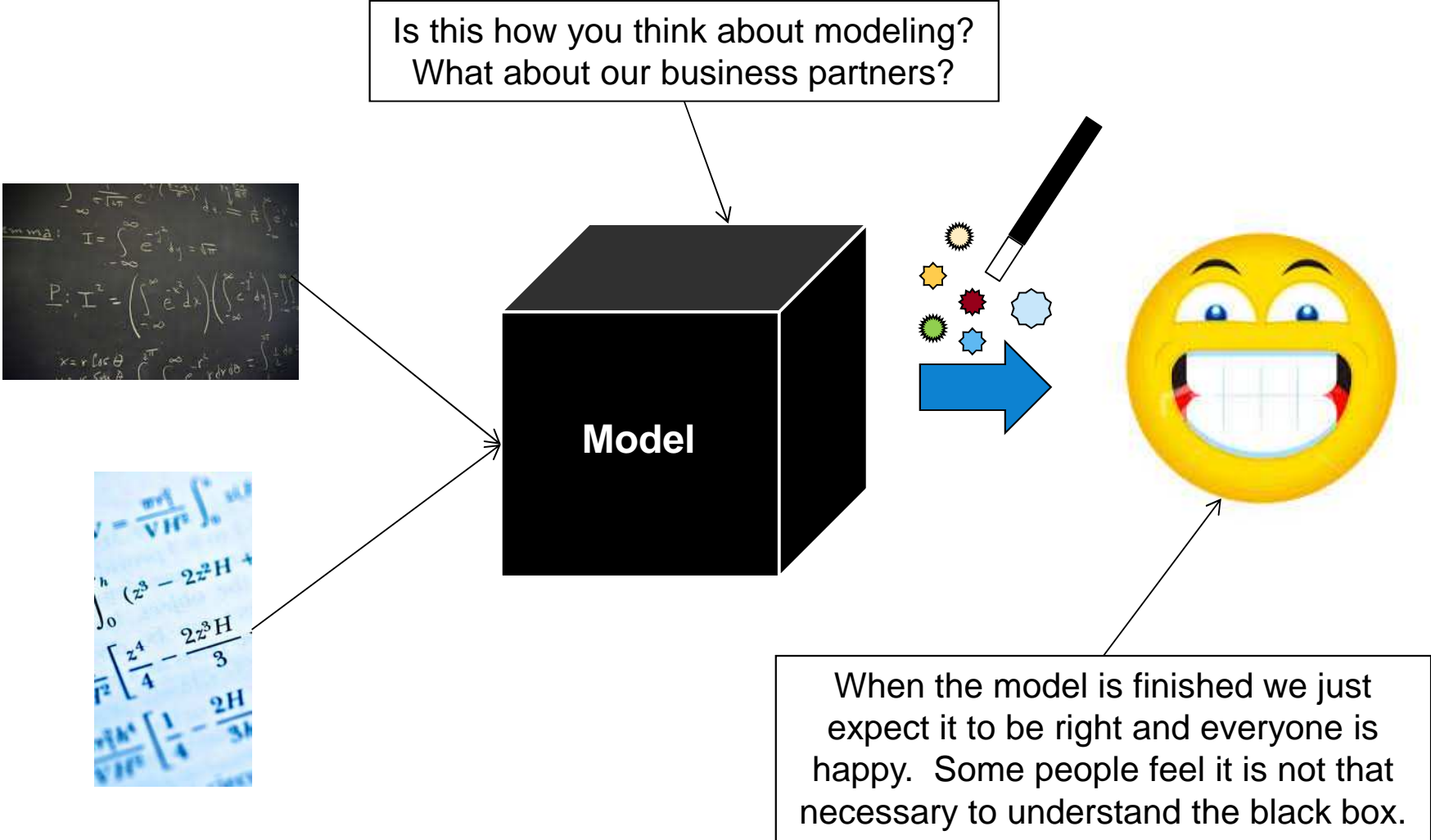


# Agenda

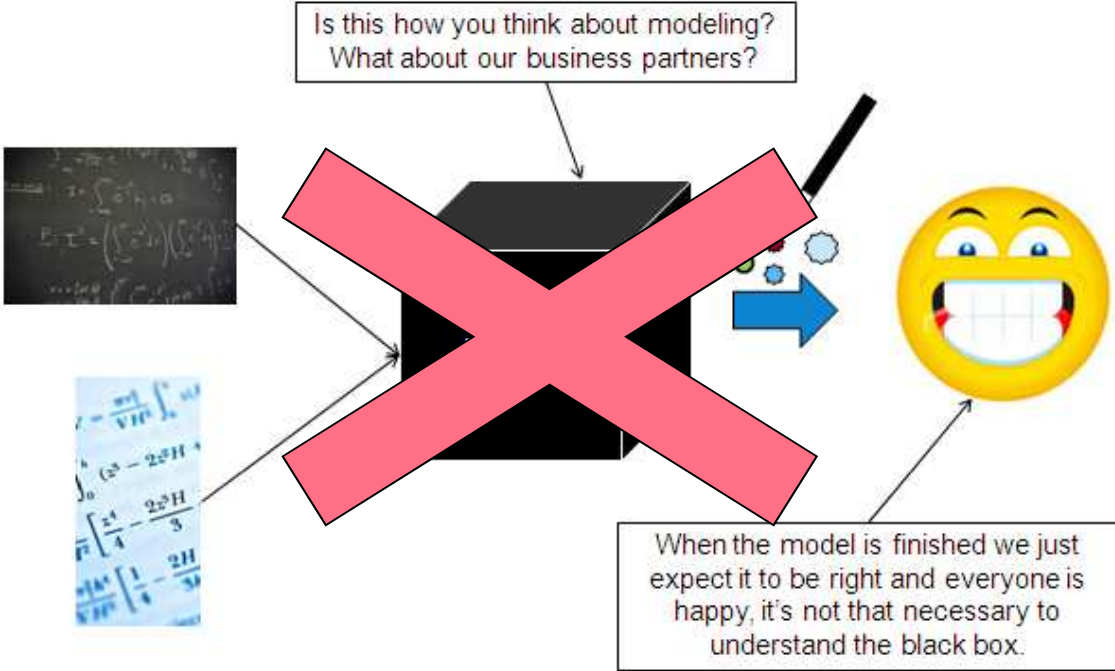
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- How do we think about models? How do our business partners think about models?
- How should we think about modeling.
- Steps to build a successful model with internal customer buy-in
  1. Know your customer
  2. Clear and frequent communication
  3. Build the model together
  4. Share the results (the sooner the better)
  5. Monitor the results

# How do you think about predictive modeling? Is it actuarial voodoo?



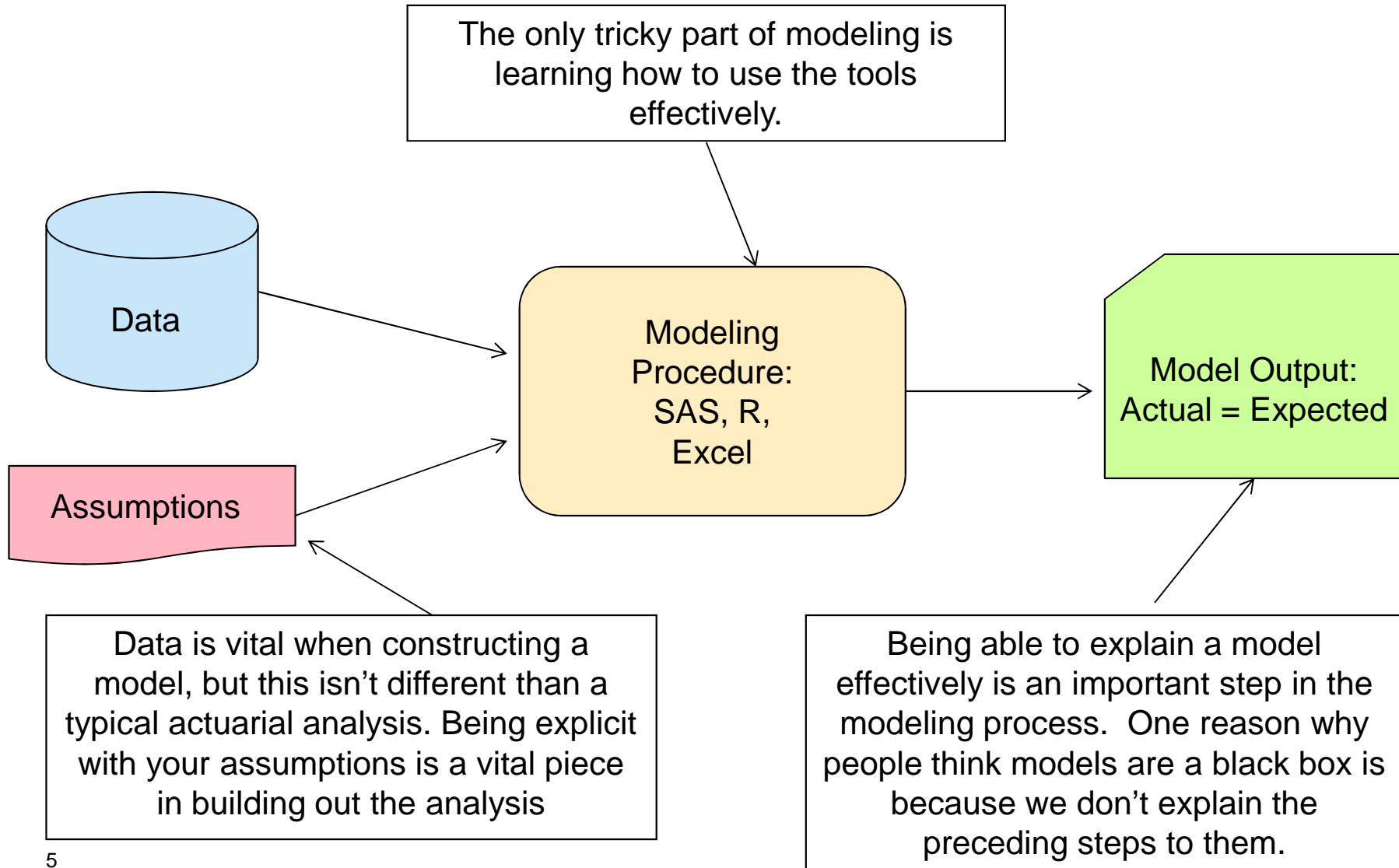
# What was on the previous slide is not predictive modeling. What is the definition of predictive modeling?



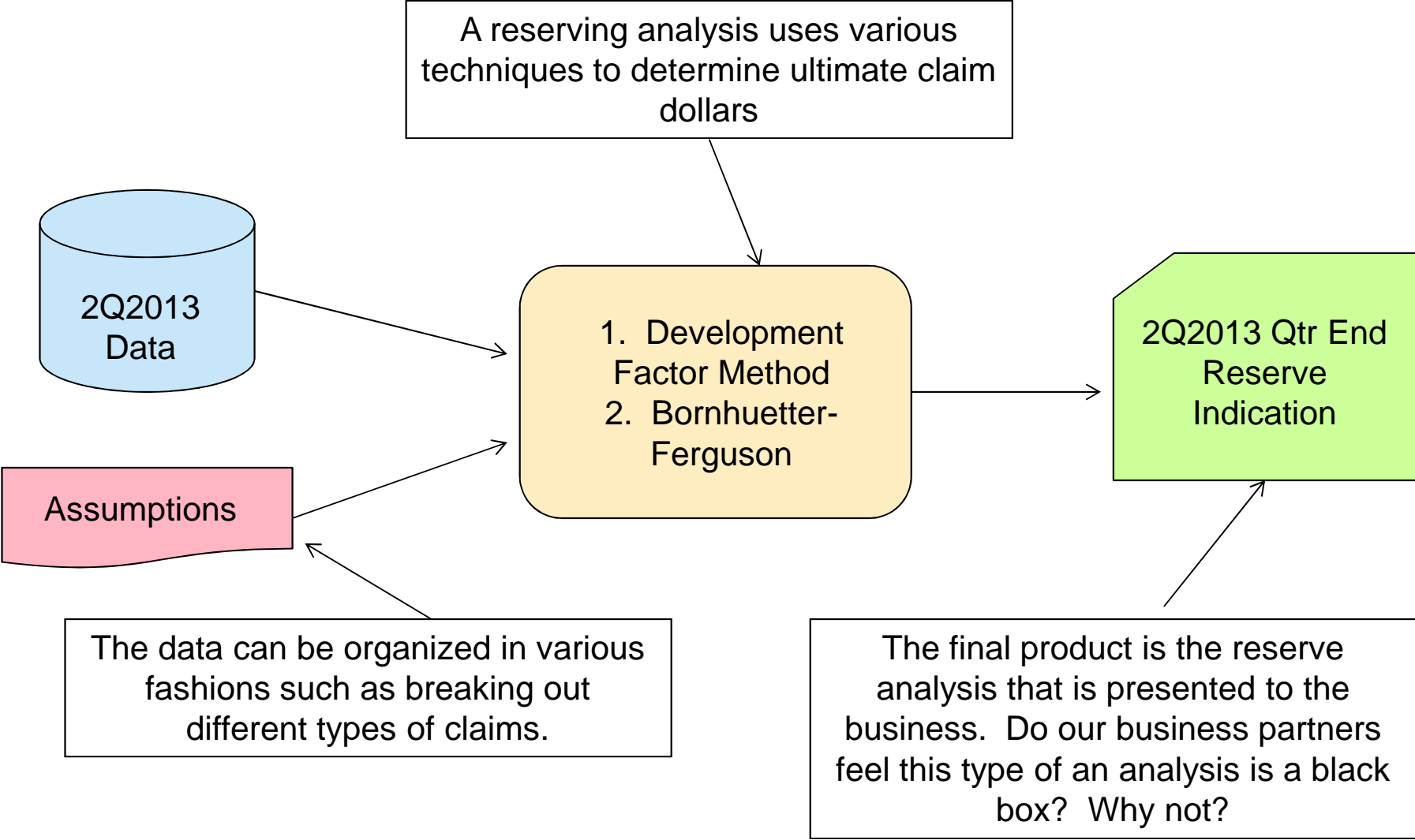
Predictive modeling is the ability to predict future outcomes using various statistical techniques.

Wait a second, haven't actuaries always done predictive modeling?  
Wouldn't a rate indication or a loss reserve indication be a predictive model?

# Predictive modeling is not a black box, but rather a more sophisticated way to do our analytics. This is how we should look at models.

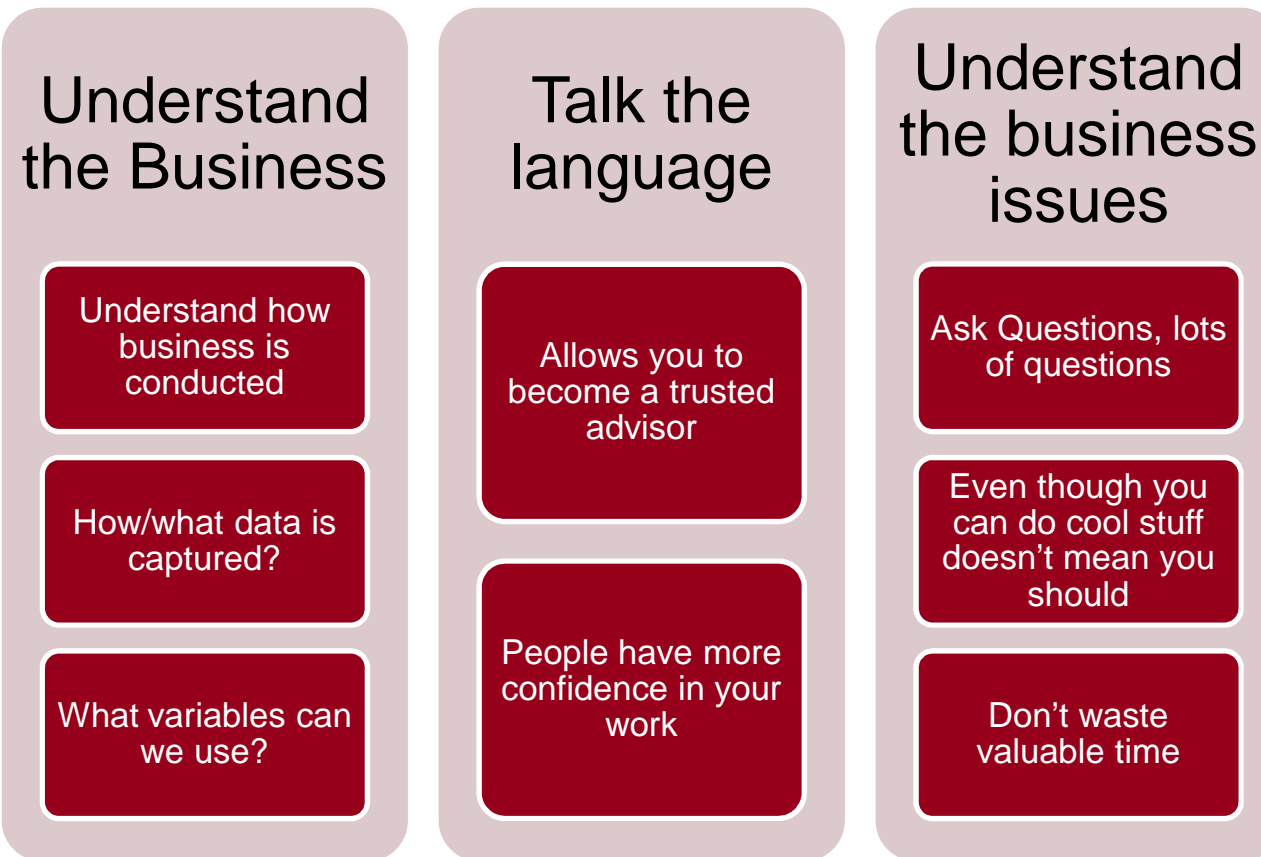


# Let's break this down into a model we all know: Quarter End Reserve Analysis for General Liability



# Business Interface: Know your customer

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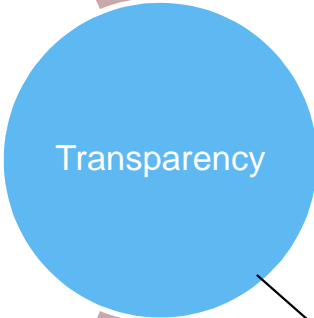
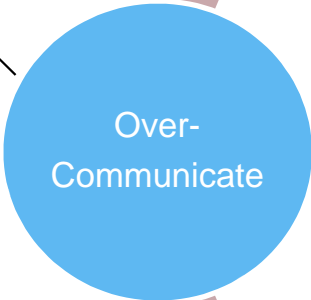


# Business Interface: Clear and frequent communication!



Err on the side of too much information, they will let you know when they are good.

Have one person who you trust and who can be your “go-to” person and support your cause

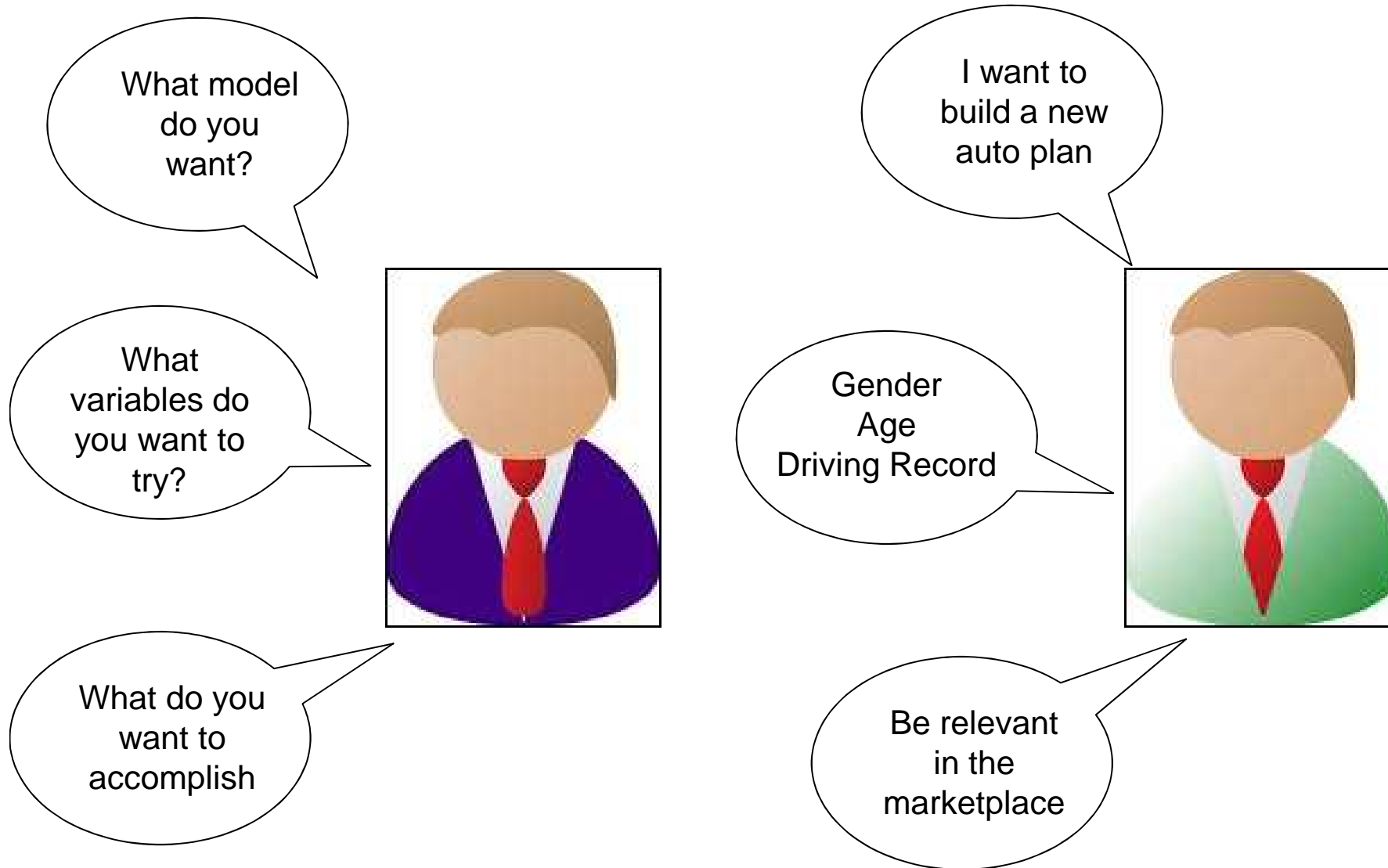


Having regular meetings with your key constituent will present clarity in your work.

This is vital, the more you give them, the better they feel

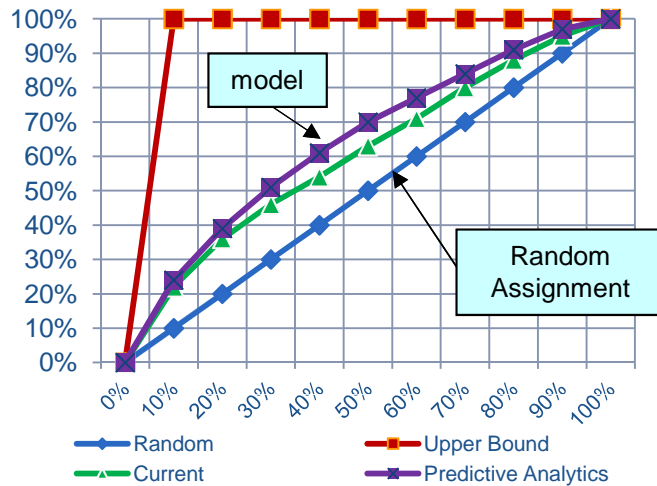


# Business Interface: Build the model together

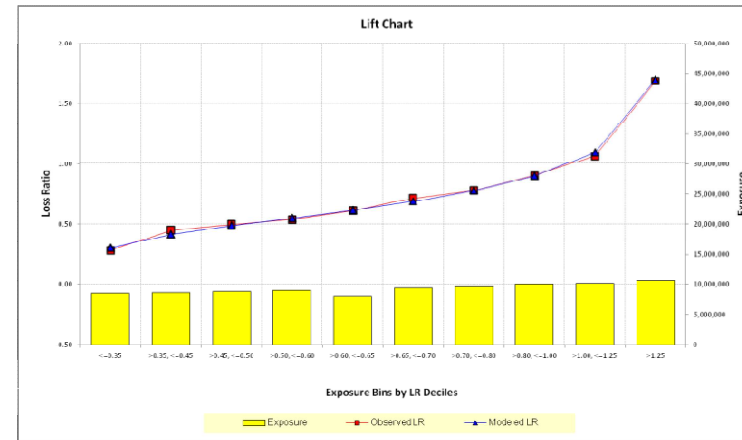


# Business Interface: Share the results

Gini Curves



Lift Chart



Univariate Cuts & Dislocation

Class	Premium	Actual Loss Ratio	Predicted Loss Ratio	Dislocation
Doctors	1,200,000	74%	73%	-1.4%
Lawyers	500,000	68%	69%	1.5%
Dentists	750,000	79%	76%	-3.8%
Chiropractor	300,000	70%	71%	1.4%
Plumber	100,000	68%	70%	2.9%
Florist	150,000	62%	66%	6.5%
Diner	800,000	65%	66%	1.5%
<b>Total</b>	<b>3,800,000</b>	<b>71.4%</b>	<b>71.1%</b>	<b>-0.4%</b>



## Business Interface: Monitor the results

Class	Premium	Actual Loss Ratio	Predicted Loss Ratio	Dislocation	Post Implementation Premium	Post Implementation Loss Ratio
Doctors	1,200,000	74%	73%	-1.4%	1,400,000	72%
Lawyers	500,000	68%	69%	1.5%	350,000	68%
Dentists	750,000	79%	76%	-3.8%	600,000	75%
Chiropractor	300,000	70%	71%	1.4%	200,000	70%
Plumber	100,000	68%	70%	2.9%	200,000	71%
Florist	150,000	62%	66%	6.5%	50,000	81%
Diner	800,000	65%	66%	1.5%	1,000,000	72%
Total	3,800,000	71.4%	71.1%	-0.4%	3,800,000	72.1%

Compare results to expectations, are there any unusual classes post implementation? Should we go back to the models? What is causing the change? The ability to explain these results will give business partners confidence in your work, and you must react appropriately, but not too quickly.