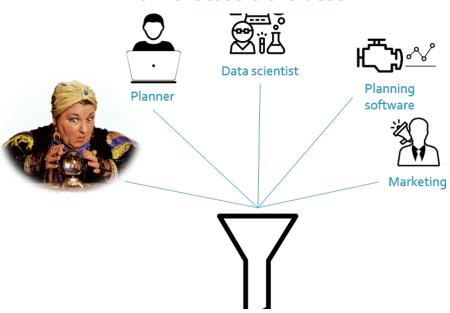
Measuring the value that forecasts add

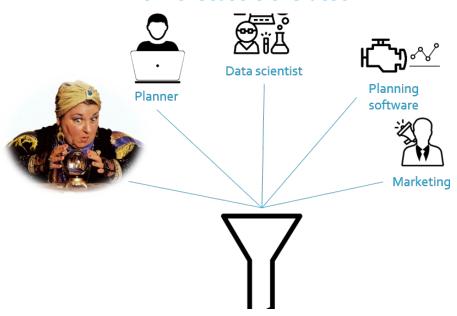




Which forecast is the best?



Which forecast is the best?



Measure!!

But how?

"To measure is to know"

- -Mean Absolute Percentage Error (MAPE)
- -Weighted MAPE
- -Mean Percentage Error (MPE)
- -Mean Squared Error
- -Weighted Absolute Percentage Error
- -Mean Absolute Error



- -R-Squared
- -Root Mean Squared Logarithmic Error (RMSLE)
- -Log loss
- -Weighted Mean Absolute Error
- -Root Mean Squared Percentage Error



Which product forecast is more accurate?



Battery





Energy Drink

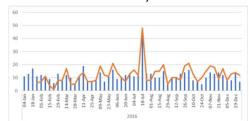




Which product forecast is more accurate?



Battery





Energy Drink



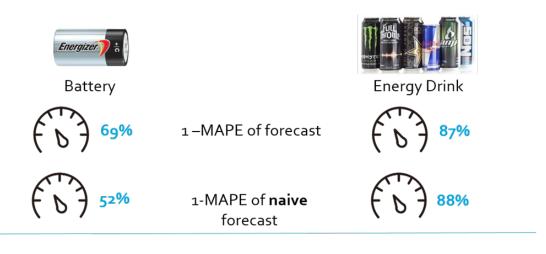


1 - Mean Absolute Percentage Error (MAPE)



87%

However...



+17% Added forecast accuracy

A higher forecast accuracy does not always signal good performance. Measuring the forecast accuracy **versus a benchmark**, such as the naive forecast, identifies good and poor performers.

-1%

The process typically exists of multiple steps



- Naive statistical forecast



Advanced statistical forecast



- Planner enrichment

The process typically exists of multiple steps



- Naive statistical forecast



Advanced statistical forecast

But, what is the value of each step?



- Planner enrichment

Company Case

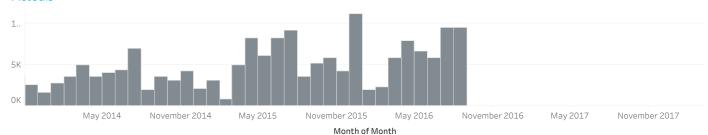
Energy Drink Manufacturer
Delivering multiple brands and packages
Delivering to multiple retailers all over Europe





Date 01-Aug-16

Actuals



Final Forecast



One can see this as a sequential process where every step should add value to the forecast

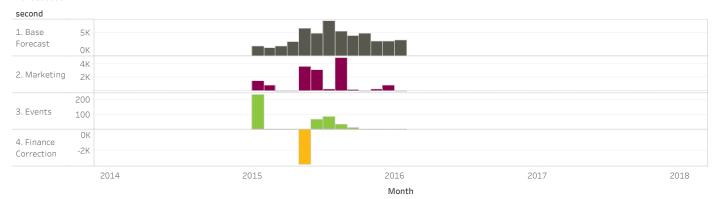


Building up a Forecast SKU Customer adhsa AIER-

The forecast is build up by making a base forecast. Then three forecasts are added to come to a final forecast: Exter..

Date 01-Jan-15

Forecasted

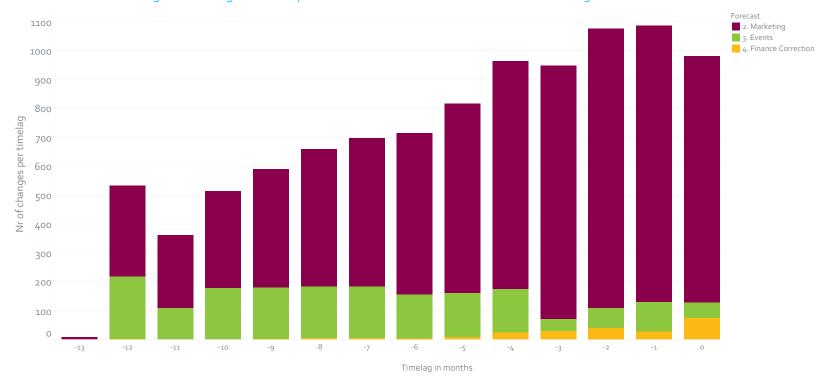






1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

All these forecasts change something about the process. How can we see the value of these changes?



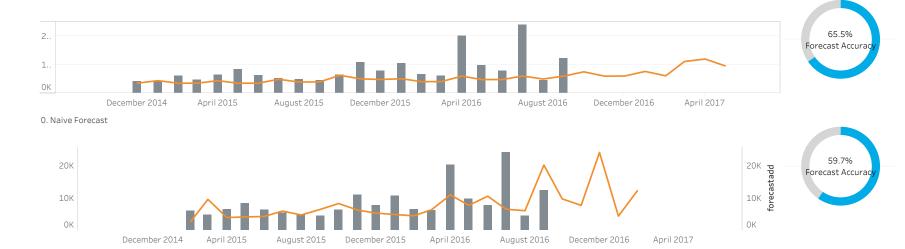
Customer AIYR- SKU 50htk

We can measure effectiveness by measuring the forecast accuracy and compare it to the forecast accuracy of the previous step

Timelag

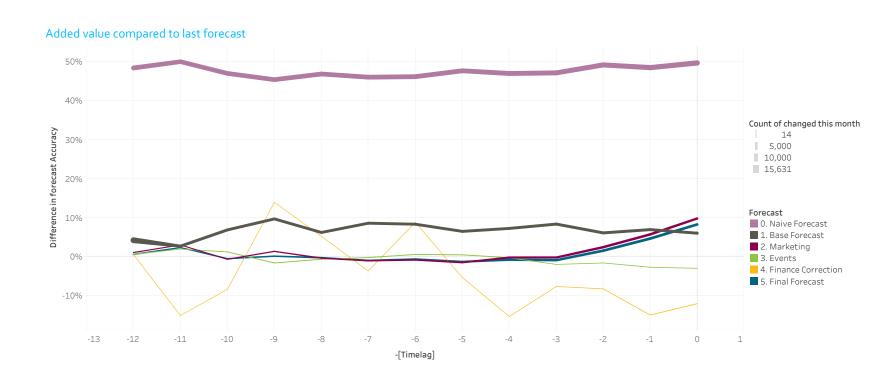
4

1. Base Forecast

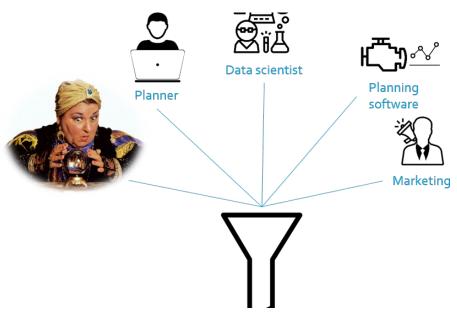


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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Per customer the forecasts have a different impact. At this retailer marketing adds a lot of value since 5 months ahe..



Which forecast is the best?



Measure!!

With measuring added value you can:

- Save people who do not add value
- Improve your forecast by focussing where it matters

Focus on where it matters!

