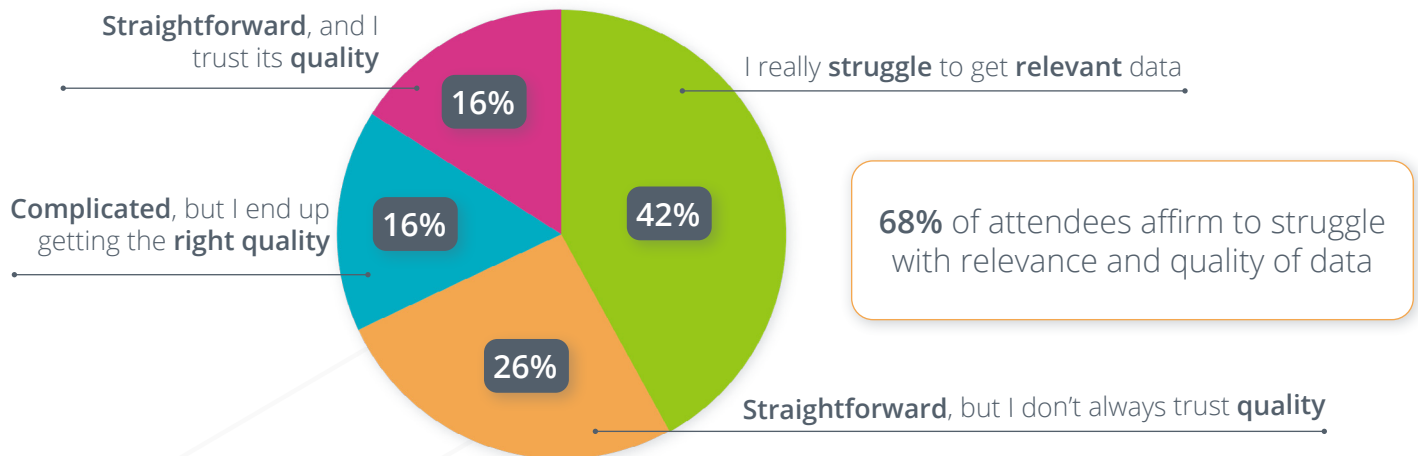


- How can a forecast not be accurate, even with good assumptions?
- How can N-SIDE help you use your assumptions to get a robust and safe clinical supply planning?

Poll**How easy is the data collection in your organization?****What are the requirements for a good forecast?**

Get the drug on time at the right place



Avoid any risk for the patients or excessive waste

Robustness to confront uncertainty



Be able to manage changes in assumptions without risk

What are the most underestimated threats to forecast accuracy?

- Using data in the wrong way
- Using a system in the wrong way

Effective system



Right data properly used



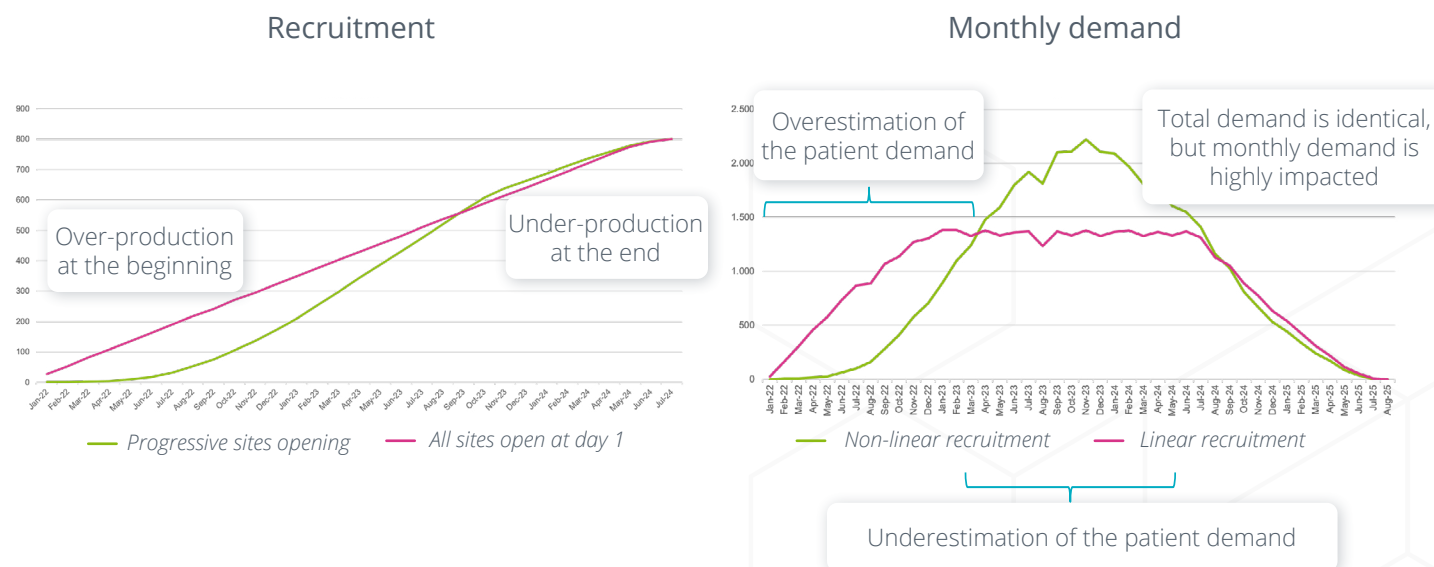
Accurate forecasts

Common pitfalls: consequences of incorrectly using data

Case Study 1

Assumptions accuracy directly impacting the patient demand

Recruitment is one of the most crucial assumptions to forecast the clinical supply demand. The following graphs represent the assumptions usually given by clinics. There are 2 ways to consider these data: the first one focuses on a linear recruitment, while the second one takes into account the country and site opening timelines in the forecast.



Case Study 2

Assumptions accuracy indirectly impacting the patient demand

Assessing the importance of an assumption is quite complex, and missing it can generate inaccuracy in forecasting. Some assumptions (drop-out, titrations, etc.) are considered important due to their direct impact on the patient demand. However, it is not because an assumption does not impact the patient demand directly that it does not impact it the clinical supply planning. Indeed, the remaining shelf-life (RSL) or the IRT capabilities might be critical drivers of the waste in a clinical trial.



Baseline

RSL for Active & Placebo
10 months



Extended RSL

RSL for Active & Placebo
12 months

	10mo RSL	12mo RSL
Overage	131%	40.2%
Packages to be released	89,449	54,225
Missed visits	983	3
Out of stocks	422	0
Total cost	18,6 M\$	12,2 M\$

2 months of shelf-life decreases from 50% costs & packages to be released

Benefits of accurate forecasts (data used properly)



Monitoring



Accuracy on
causes of waste



Risk
mitigation



Low reforecast
frequency

Simulation based



- Variability on the assumptions: min-max
- Patient risk assessment
- Overage optimization
- Monitoring
- Low simulation frequency needed

Forecasting tool



- More precise than Excel
- Only considers average values
- No risk assessment
- Manually entered overage
- Frequent updates needed

Excel



- Forced to simplify the model: Higher drug waste
- Difficult to maintain/update

With the N-SIDE Suite, you can **assess the impact of assumptions on drug waste** in your trials and take the most accurate actions to minimize the waste and costs.

We can work as much as we want in **increasing data quality and availability**, but for **forecasts to be accurate**, we need the **forecasting solution** and the users to enable a **correct use of the data**.