



The innovator's guide to **PREDICTIVE ANALYTICS**

Predictive analytics turns real-time data into insights about the future that enable you to address potential problems on an asset before they occur.

#6 IN A SERIES

What is it?

Predictive analytics has come a long way from the mundane, data-based forecasts that analysts used to contend with. Predictive analytics can now deliver actionable insights directly to your teams via mobile tools and 3D visualisations.

By analysing past data and monitoring present data, predictive analytics is able to make useful predictions about what might happen in the future. These estimates can then be used by your business to make better decisions.

For example, predictive analytics can use environmental data on a physical asset to forecast rates of corrosion in pipes. Or it might detect anomalies in data supplied by sensors, indicating a potential problem that needs to be checked by your team.

The better the data, the more accurate predictive analytics becomes. That is why owning and controlling your data is so important. But you also need to own the process, because none of that data can be put to good use without a reliable predictive service that can make sense of it.

By owning the process, you are in a position to democratise your data and share insights among your entire team. With the aid of mobile tools, they get access to the data on site as well.

Why should I care?

Properly configured, predictive analytics has the potential to turn on the lights in areas of your operations that were previously dark. This enables teams to find innovative solutions to existing problems, and prevent similar problems from arising in the future.

As a result, predictive analytics can deliver huge operational efficiency gains, especially in the field of maintenance strategies. It is also a highly effective tool for mitigating risk, so long as the data is of sufficient quality.

As the quality of data improves over time, predictive analytics becomes a driver of management by exception. Your teams can increasingly focus on the decisions that count and maximise the value of their expertise.

What can I do about it?

01

REALISTIC OBJECTIVES

Before hiring a data scientist, you need to choose an objective that can be realistically achieved with the data and budget at your disposal. Success will depend on a reliable supply of high quality data that matches the problem.



02

SIMPLE VALIDATION

Keep your trial simple and separate. At the validation stage don't bite off more than you can chew. A simple trial will provide more useful answers than a complex one. This is a trial so keep it entirely separate from your existing processes.

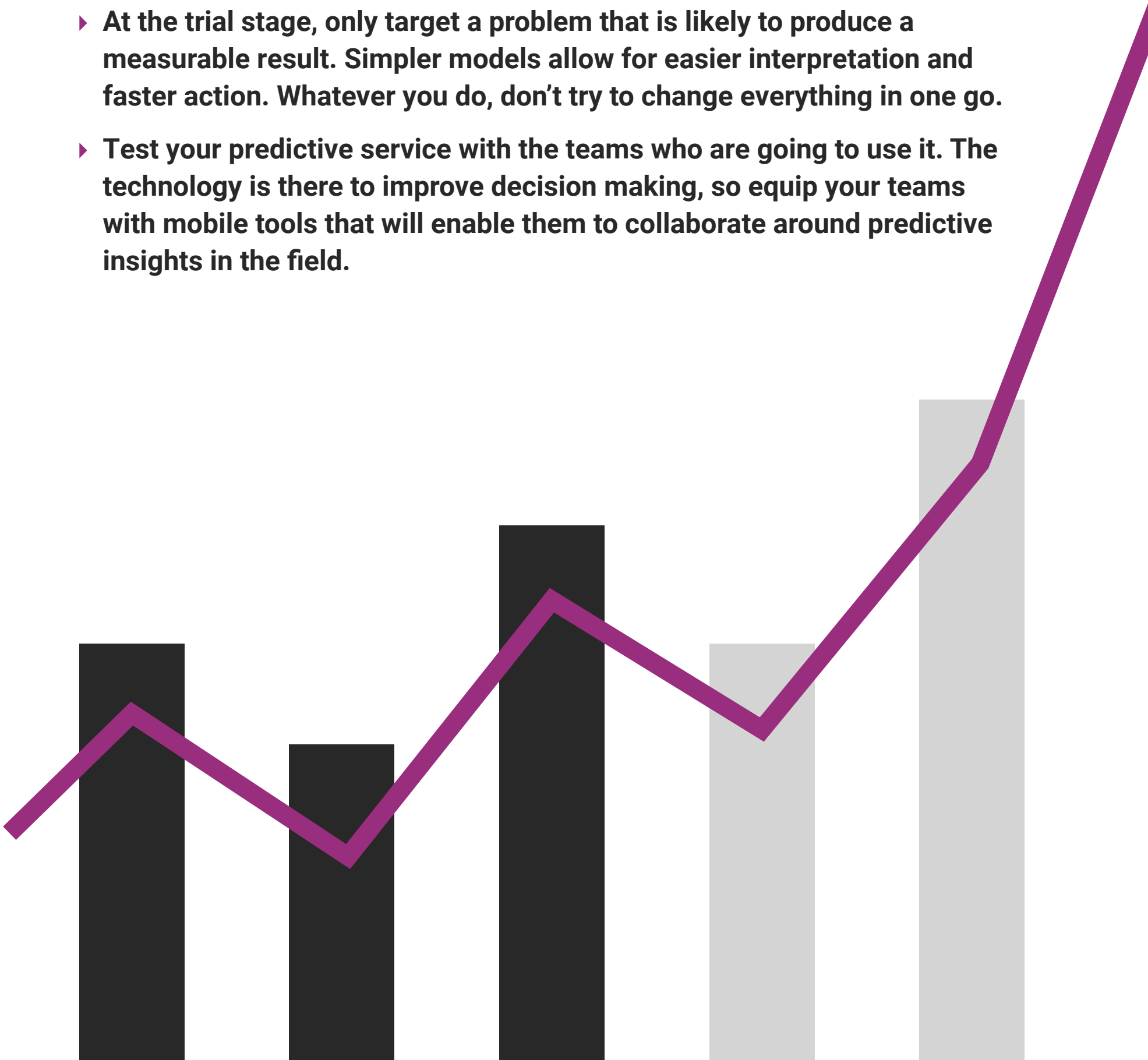
03

OPTIMISATION

Follow up the trial by inspecting, cleaning, transforming and modelling the data for analysis. Only after careful optimisation will it be ready for deployment.

Innovator's checklist

- ▶ **Don't try this by yourself. To be successful, predictive analytics requires expertly constructed models and high quality data. The model's performance needs to be regularly monitored and reviewed so that it continues to deliver on your objectives.**
- ▶ **At the trial stage, only target a problem that is likely to produce a measurable result. Simpler models allow for easier interpretation and faster action. Whatever you do, don't try to change everything in one go.**
- ▶ **Test your predictive service with the teams who are going to use it. The technology is there to improve decision making, so equip your teams with mobile tools that will enable them to collaborate around predictive insights in the field.**



Learn more about the Predictive Analytics at silverhorsetech.com/predictive-analytics

Learn more about AssetHive refer to guides 1, 2, 3, 4 & 5 at silverhorsetech.com/assethive

