

The Guide to

Data-Driven Manufacturing Excellence

(and how to prevent fan disasters)



Content

1. Introduction	3
2. Manufacturing excellence – and what’s data got to do with it?	4
3. Utilize the collected data to improve quality	5
3.1. If the finished product reveals production anomalies, you are miserably late.	6
3.2. Fix the broken phone in your production with visual data.	7
3.3. Without a predictive analytics tool, losses are inevitable.	8
3.4. Quality culture cannot be forced	10
3.5. This is how heavily you will pay for not investing in big data.	12
4. Case UPM Raflatac	13
5. Case Stora Enso	14
6. By managing quality you actually manage customer experience	15

”Data is not information, nor knowledge, nor wisdom. This guide tells how to start the journey.”

– **Matti Ketonen**
Business Development Director
Metsä Board

”If you want to see through the digitalization hype, you should read this guide.”

– **Johan Abrahamsson**
Mill Manager
Hallsta Paper Mill

”Examples of big data analytics from internet companies are not relevant for us; this guide is.”

– **Samuli Puhakka**
Master Black Belt
Orion Corporation

”The guide illustrates the difference between post data analysis and useful real time information. Data turns into information when operators are basing their decision to real time facts.”

– **Jarno Hämäläinen**
Director, S&OP and Logistics
Fazer Bakeries

1. Introduction

As a quality or production manager of an industrial company, you already are fully aware of the potential that lies in your production data. The data stream captures all indications, causes and consequences of process malfunctions and anomalies – in other words, everything you need to boost operations, streamline processes and guarantee consistent end quality. You are holding a real gold mine in your hands, but all the treasures remain hidden, because you lack sufficient tools to get a hold of them. Frustrating? We bet. And it's not only frustrating,

but also crucial to your competitive strength and the customer experience you provide. It would be mere stupidity to leave this data unharnessed.

Digitalization, as much as people fuss about it, is not just a buzzword. We can be sure that it is changing the operational environment of industrial businesses at an ever-increasing pace. We put together this guide for people like you who know what it takes to stay competitive amid constant change, by seeking to:

- 1 create new working methods where data helps tame the chaos instead of increasing it.
- 2 quit staring in the rear-view mirror and putting out fires in your operations and start managing your operations proactively and systematically.
- 3 save money by minimizing losses and second-rate products.
- 4 get the most out of your employees' tacit knowledge throughout the organization.
- 5 make quality a joint effort within the company.
- 6 awaken dormant decision-makers to outline future policies based on usable data.
- 7 enhance customer experience.

We hope this guide gives you insights into the opportunities for optimizing the production process and its quality, as well as courage to tap into the potential of data in your production and customer service.

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