



Wer schreibt, der bleibt ... zurück

Data-driven optimization of Additive Manufacturing

Peter Lindecke, Co-Founder und CCO

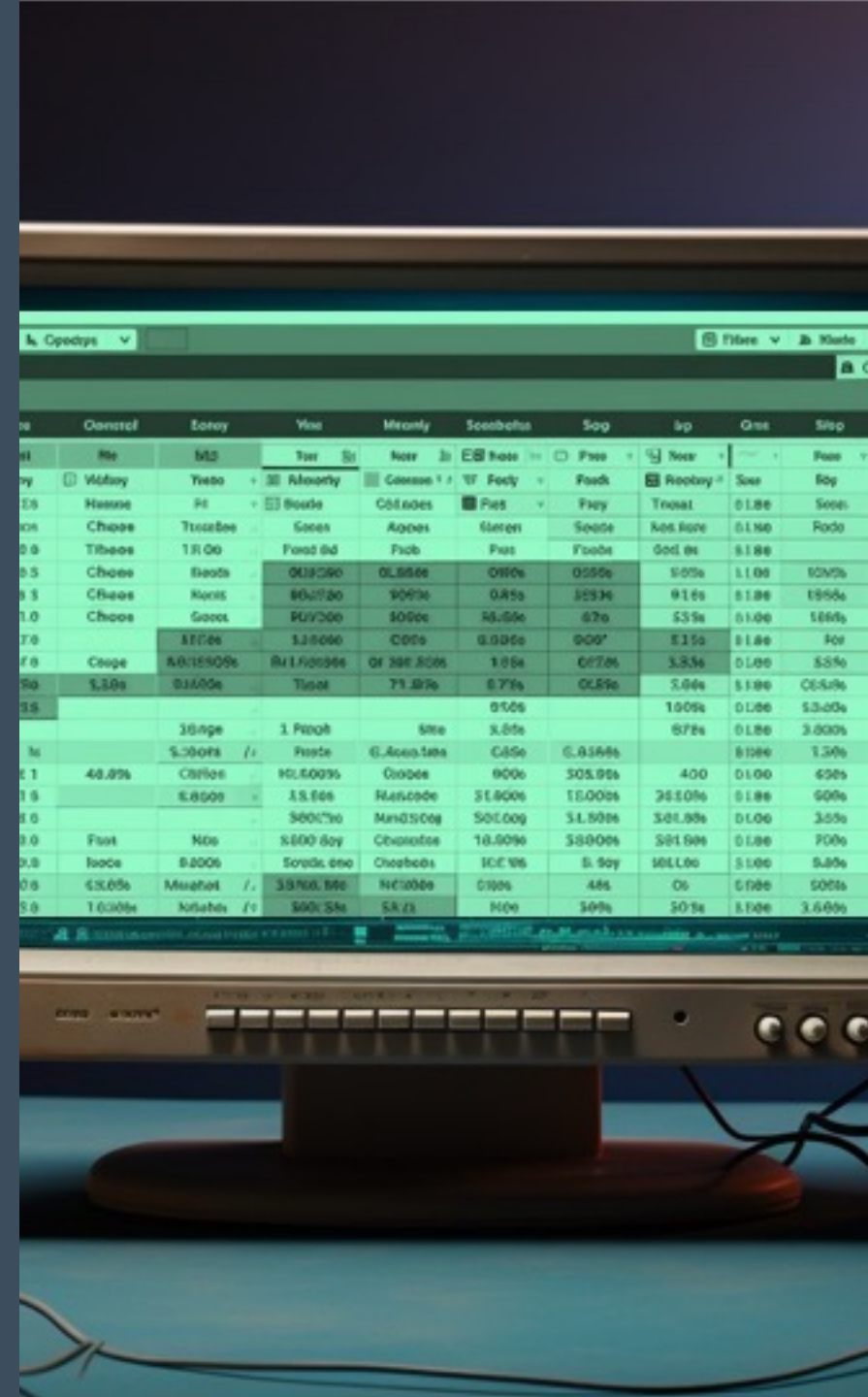
A printed hip implant



Documentation of the hip implant

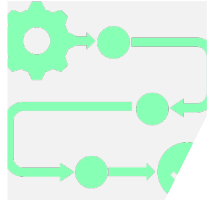


Digital Twin of the hip implant



	Character	Entry	Year	Monthly	Seasonals	Sog	Up	Cost	Step
01	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
02	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
03	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
04	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
05	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
06	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
07	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
08	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
09	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
10	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
11	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
12	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
13	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
14	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
15	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
16	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
17	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
18	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
19	MS	Year	Monthly	Season	Year	Year	Year	Year	Year
20	MS	Year	Monthly	Season	Year	Year	Year	Year	Year

The data before the hip implant



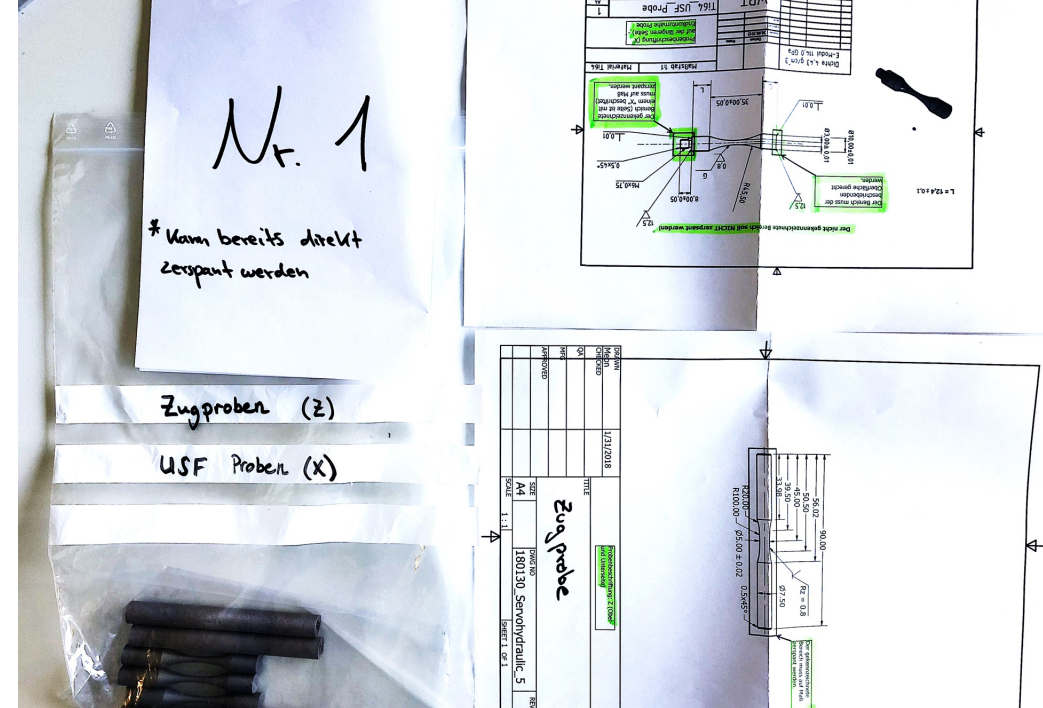
Qualification process

- ▮ Process tuning for at least 6 month
- ▮ up to 60 % scrap rate



Production

- ▮ Up to 3 weeks of data research (full time 1 person).



Bigger Printers – More test specimens

SLM
SOLUTIONS

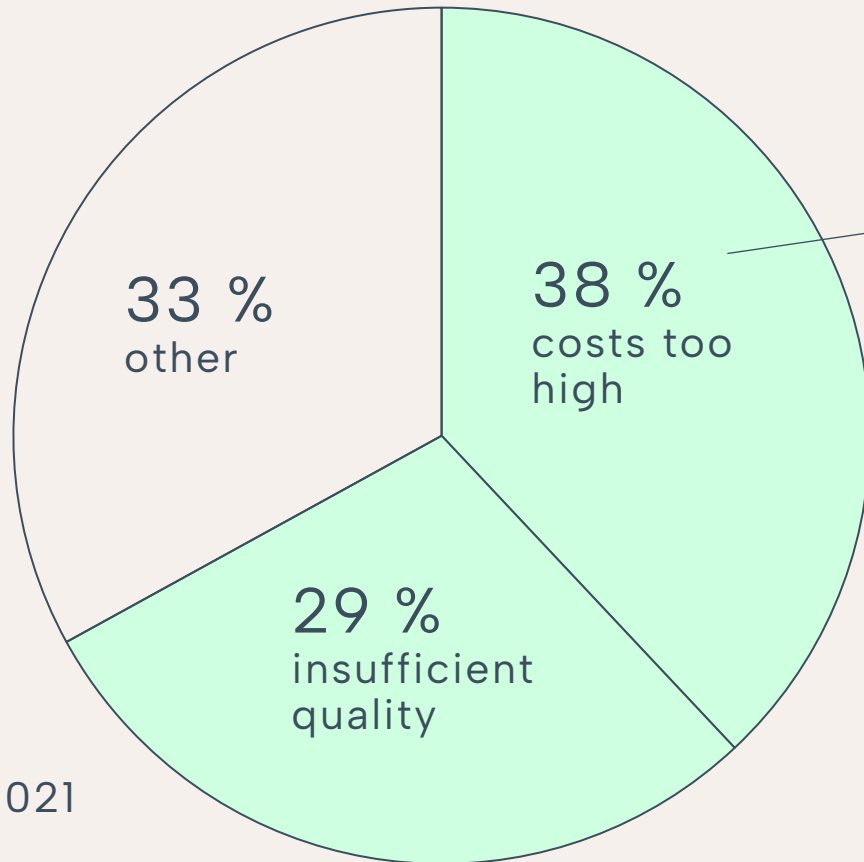


>>How many test bars can be printed on one NXG E 600?<<

Donald G Godfrey
SLM Solutions



Which factors prevent you from using 3D printing today?



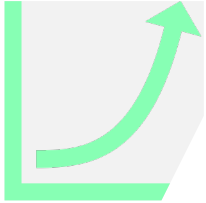
Quality assurance
Lack of automation & Integration
Material costs

Can be significantly optimized through data

Statista 2021

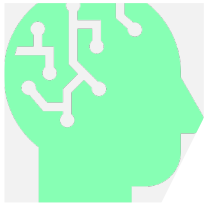


The Future: Data-driven decisions in AM



Efficiency increase

- ▮ Scale production documentation more easily
- ▮ Reduce time for data analysis from days to minutes
- ▮ Use the value of your historical data



Innovation increase

- ▮ Improved decision making and knowledge management
- ▮ Material development through machine learning (smart material development)



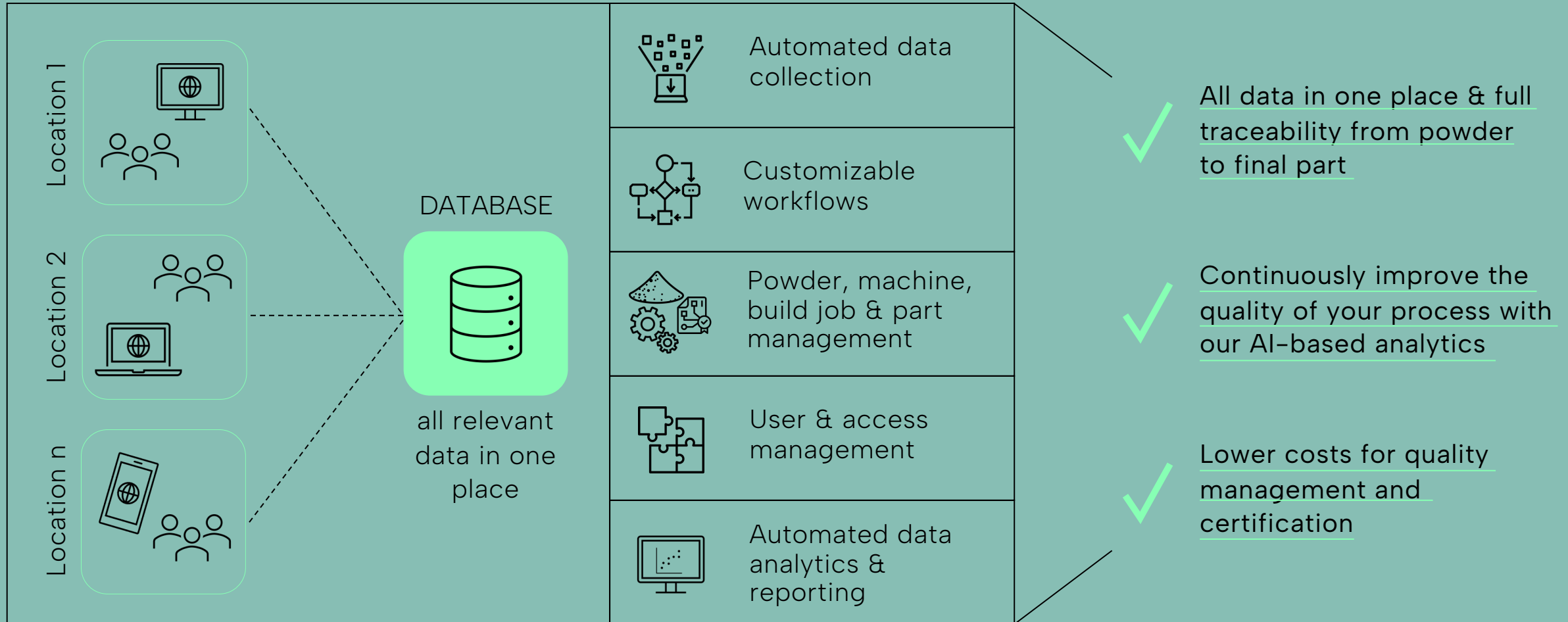


To seize this opportunity, we have founded the amsight GmbH.



Our Software & Features

Your Benefits



All information
in one click





amsight in action



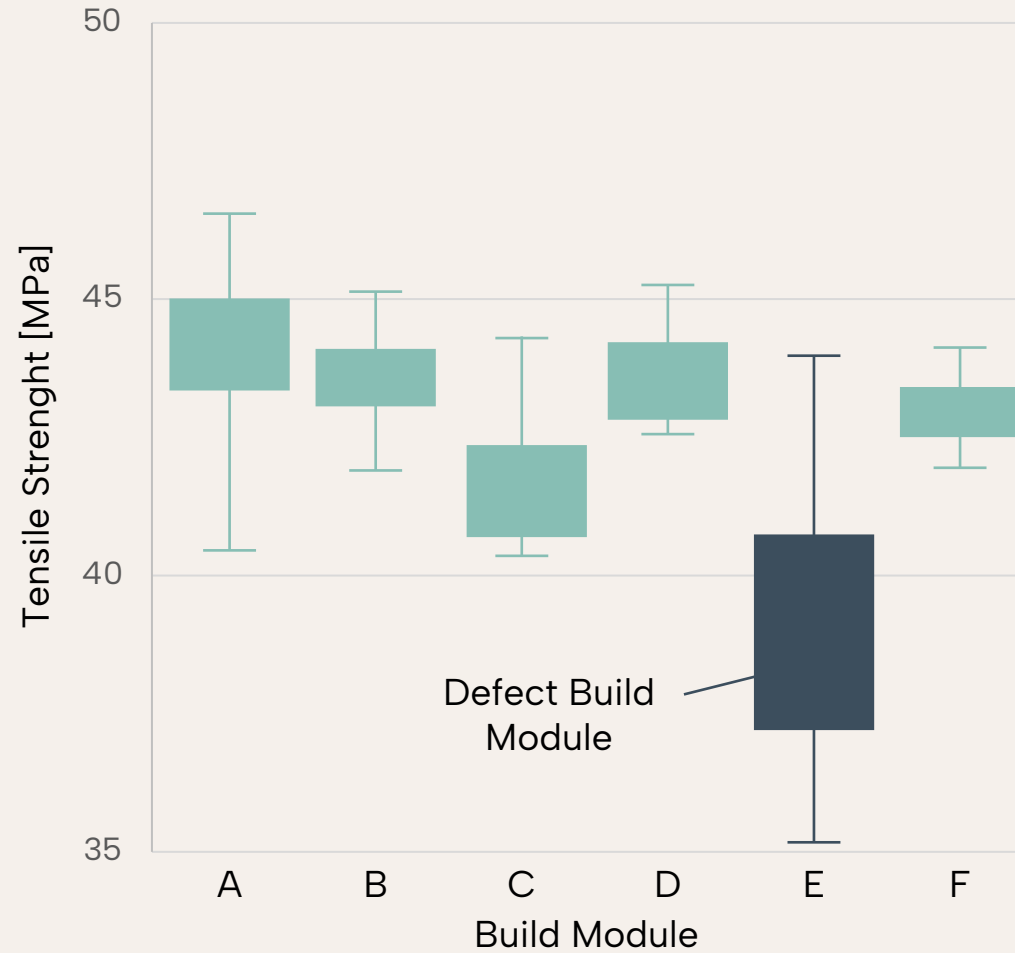
*Markus Albrecht,
Team Lead Additive
Manufacturing*



>> Having a robust data management and quality assurance system in place helps us to better understand and optimize our production. <<



amsight in action



Key Insight

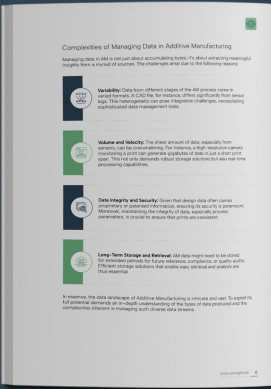
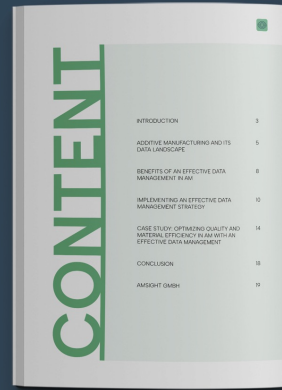
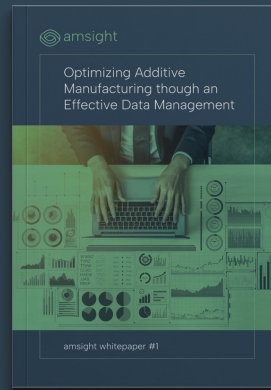
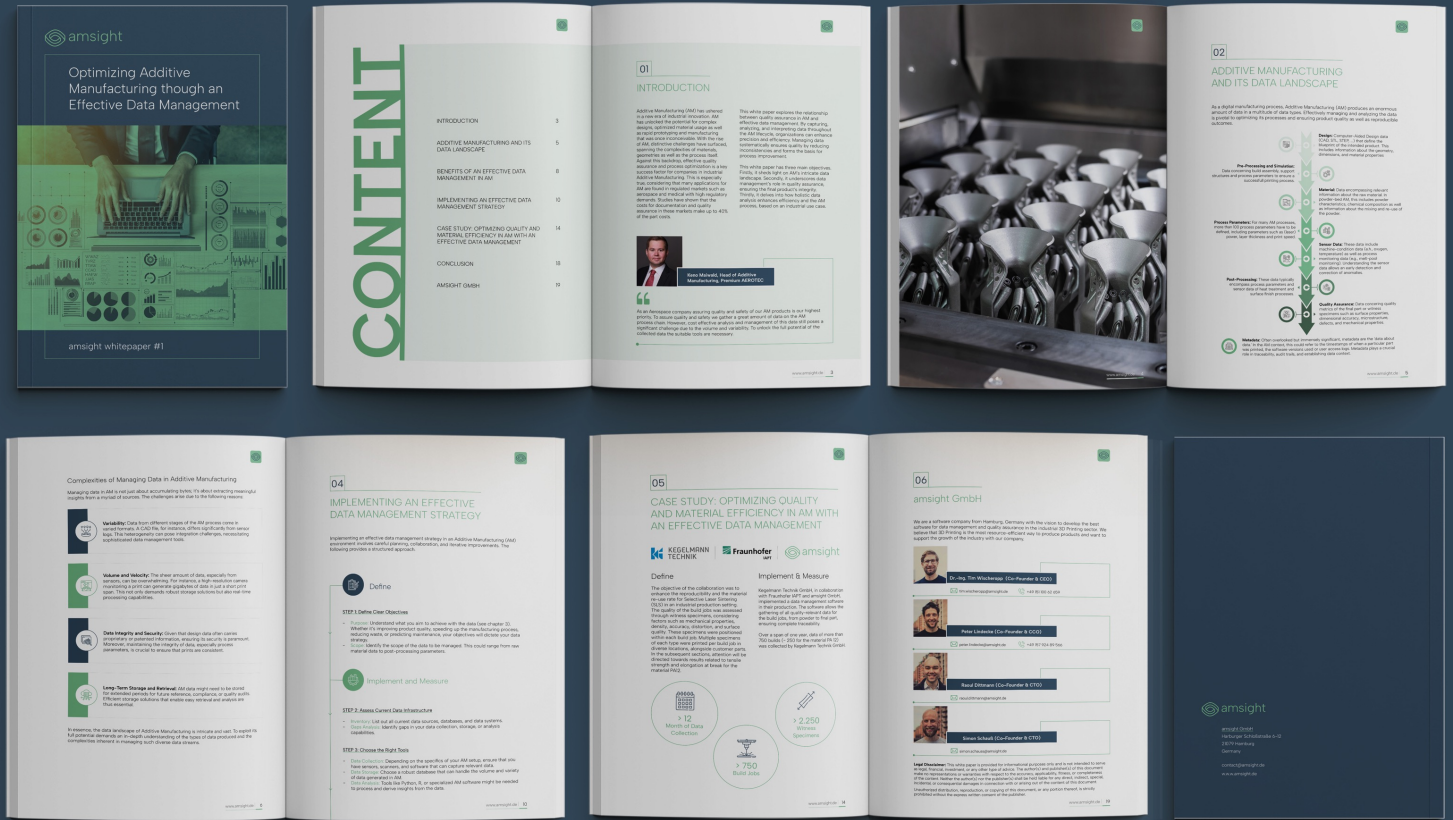
Digital quality control helps to identify quality issues immediately.



Whitepaper on Effective data management in AM

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» Information is the oil of
the 21st century, and
analytics is the
combustion engine.«

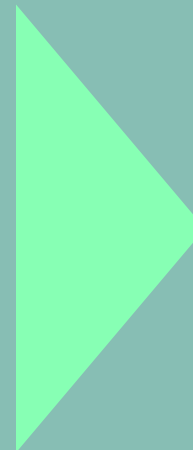
Peter Sondergaard
former global head of Research at Gartner, Inc.





Digitalize now to be ready for the future

- 90% of the work for intelligent analytics is in data collection
- 80% of manual data entry can be automated
- Excel is not digitalization





Wer digitalisiert, der bleibt.



Wer digitalisiert, der bleibt.



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