

MHP DeepDive



Next Level Painting

Wie paint_it die Lackierprozesse in der Industrie auf ein neues Level hebt.



MHP DEEPDIVE

NEXT LEVEL PAINTING



M.Sc. Wirtschaftsingenieurwesen
SRH Heidelberg



Automotive OEM und Tier-1 Fokus



Vertrieb von Softwarelösungen aus dem SaaS
Umfeld



M.Sc. Wirtschaftsingenieurwesen
HTW Berlin



Entwicklung neuer Geschäftsmodelle und
Softwarelösungen in der Produktion



Zukunftsausrichtung und -sicherung der
Lackierereien

MHP DEEPDIVE TERMINE

07.12.2023

Zukunft des Personalwesens

Wie TRUMPF die HR-
Transformation erfolgreich
gemeistert hat

25.01.2024

Software-defined vehicles

Die Revolution in der
Automobilbranche

18.01.2024

Mit SHARP zur Datenexzellenz

Entdecken Sie Ihr wahres
Potenzial



AGENDA

1. Current challenges in the paint shop
2. Application example of a new software solution in the automotive industry
3. Potential for expansion
4. Dos & Don'ts for a successful transformation
5. Three steps towards a successful implementation



CURRENT CHALLENGES IN THE PAINT SHOP



CURRENT CHALLENGES IN THE PAINT SHOP

I/I MHP
A PORSCHE COMPANY




**50% OF A PLANT'S ENERGY
CONSUMPTION IS GENERATED BY
THE PAINT SHOP [⚡ + 🌀]**

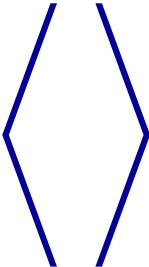
according to Fraunhofer IPA, 2020

CURRENT CHALLENGES IN THE PAINT SHOP


ENERGY



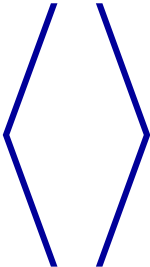
Energy consumption reduction through process optimization



MATERIAL



Material optimization through layer thickness reduction



REWORK



Cost optimization through failure reduction



REQUIRES DATA TRANSPARENCY



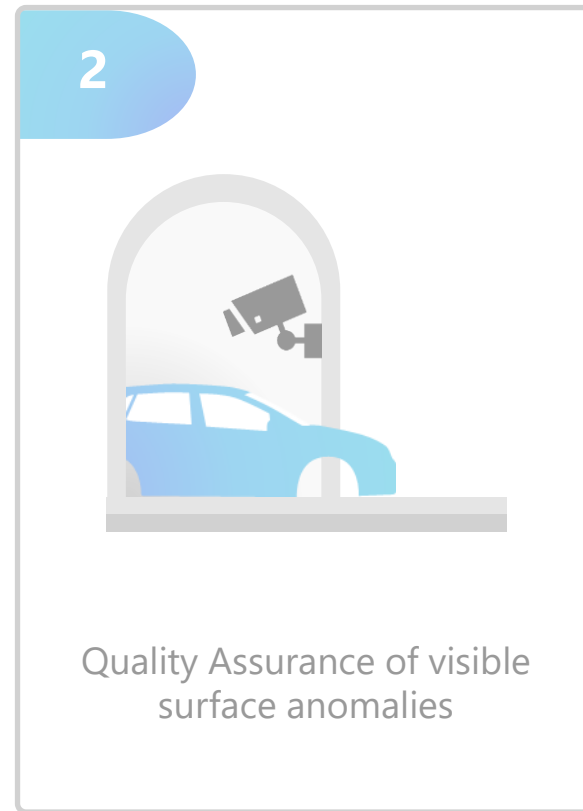
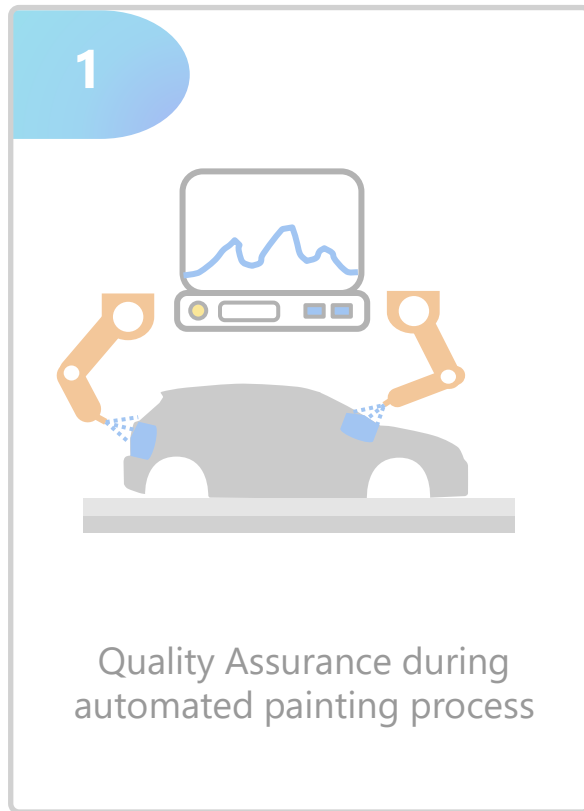
REQUIRES MORE QUALITY INSPECTIONS



REQUIRES QUALITY FAILURE PREVENTION

APPLICATION EXAMPLE IN THE AUTOMOTIVE INDUSTRY

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APPLICATION EXAMPLE IN THE AUTOMOTIVE INDUSTRY

2 Separated
Data Calculation & Analysis



1 Parameter
Recording



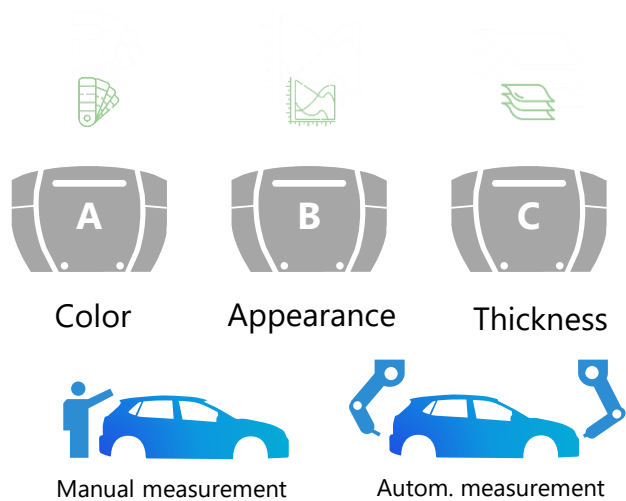
3 Manual Data
Consolidation & Reporting



4 Manual derivation
of actions

APPLICATION EXAMPLE IN THE AUTOMOTIVE INDUSTRY

1 Parameter Recording

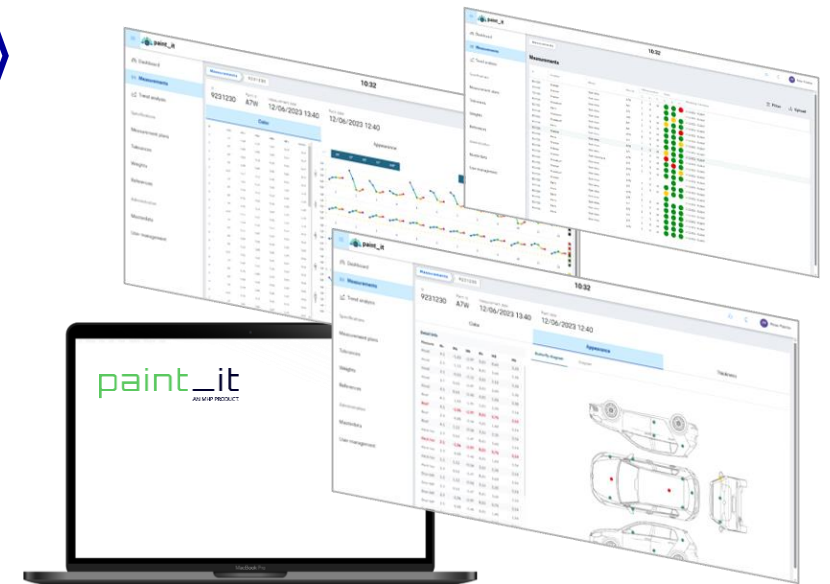


2 Automated Data Upload, -Calculation & -Visualization

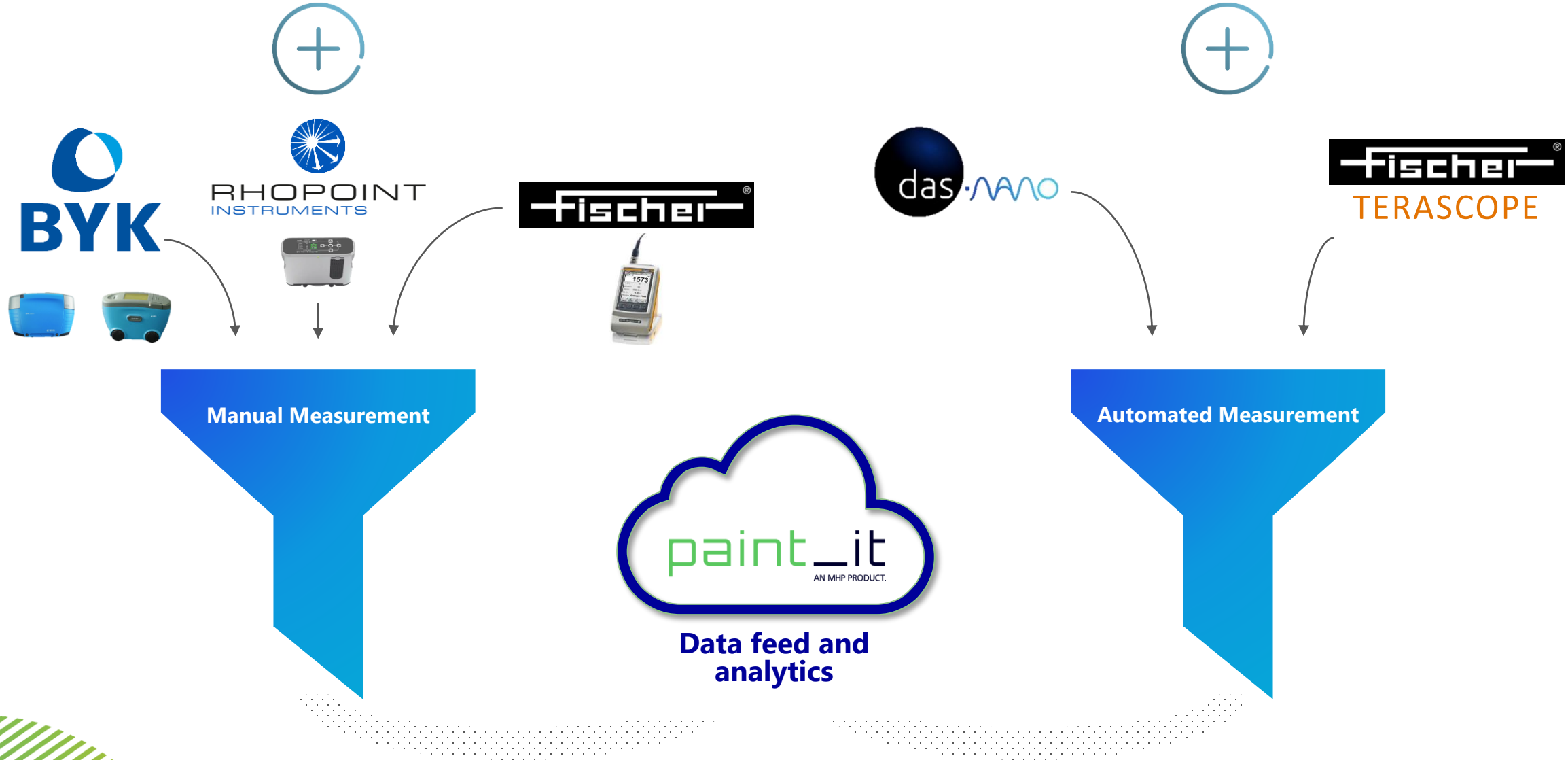


3 Automated Data Analysis & Exchange

- › Trend analysis & Alarm function
- › Heatmap of critical parts
- › Export- & Report functions



APPLICATION EXAMPLE IN THE AUTOMOTIVE INDUSTRY

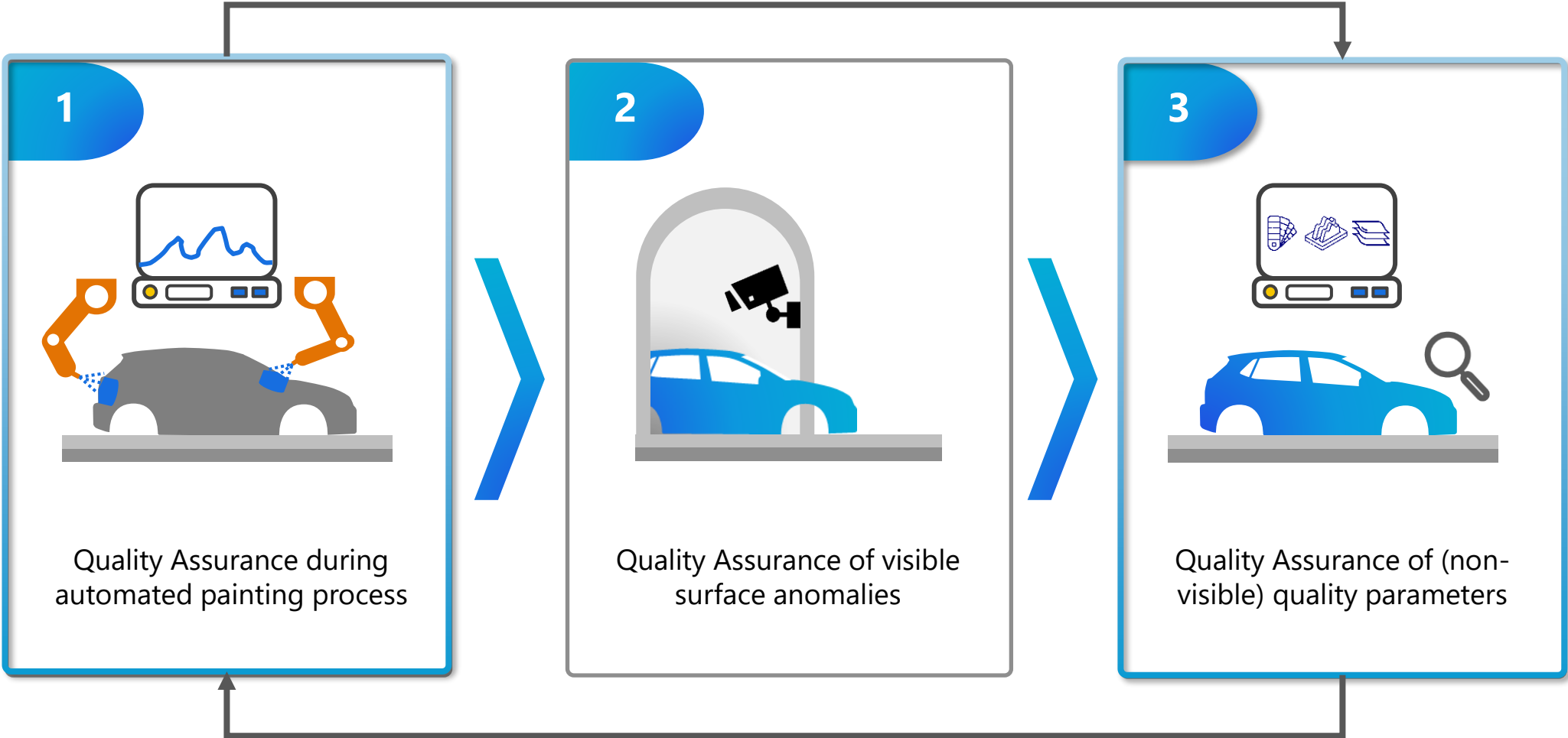




POTENTIAL FOR EXPANSION



POTENTIAL FOR EXPANSION



DOS & DON'TS FOR A SUCCESSFUL TRANSFORMATION

DOS & DON'TS FOR A SUCCESSFUL TRANSFORMATION



- Think big \leftrightarrow act small
- Early-stage calculation of ROI
- Early-stage process transparency between diff. plants
- Integration of various personas



- Un-/low defined goal & scope
- Lack of openness (silo thinking & fragmented database)
- Focus on laboratory only
- Low commitment from various personas



THREE STEPS TOWARDS A SUCCESSFUL IMPLEMENTATION



THREE STEPS TOWARDS A SUCCESSFUL IMPLEMENTATION



[1h-4h]

Follow-up and product demo

- ▶ Customer Process NOW
- ▶ Pot.: Discovery Workshop
- ▶ Live Presentation
- ▶ ROI calculation



[3 weeks]

Pilot phase

- ▶ Adaption to your individual environment
- ▶ Implementation of the application
- ▶ PoC in test environment
- ▶ PoC in production
- ✓ **Low initial invest**
- ✓ **First proven track record**



[1 week]

Refinement and Deployment

- ▶ Refinement of the application according to PoC findings
- ▶ Integration of user management
- ▶ Deployment as SaaS or m-App
- ▶ **Go-Live**

LET'S GET CONNECTED



SEBASTIAN KRAFT
Senior Account Executive
Industrial Cloud Solutions


 E-Mail: sebastian.kraft@mhp.com



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QR-Code, um zu meinem
LinkedIn-Profil zu gelangen



MORITZ GESSNER
Product Manager
Industrial Cloud Solutions

 E-Mail: moritz.gessner@mhp.com



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MHPDEEPDIVE VERPASST?

Kein Problem!

Alle vergangenen **MHP**DeepDives
finden Sie hier:



www.youtube.de/MHPProzesslieferant



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www.mhp.com/de/unternehmen/events



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