



AUTHENTISE

Future Manufacturing

Additive Manufacturing: The Sandbox for the Future of Production



Supply Chain has Always Sucked



PPE



Ventilators



Supply Shortages



Security



Adjusting to Customers



Inventory

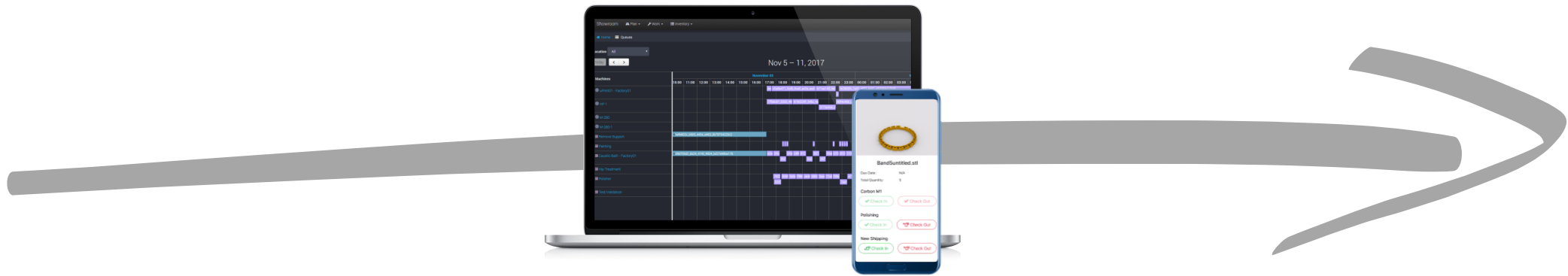
Companies need more insight

- Where is your part? Will it be done in time?
- What utilization do machines have? Can I add a part into the current operation?
- Where is the material coming from?
- What is the quality of the part, in real time?
- What is spare capacity really like? Is there a gap I can add parts into?
- Is my data safe?
- In times of crisis: Who else could manufacture this part?



AUTHENTISE

Authentise End-to-End Digital Workflow



Manage Orders

Schedule Production

Monitor Output

Digital

Collects all data from process for full digital thread

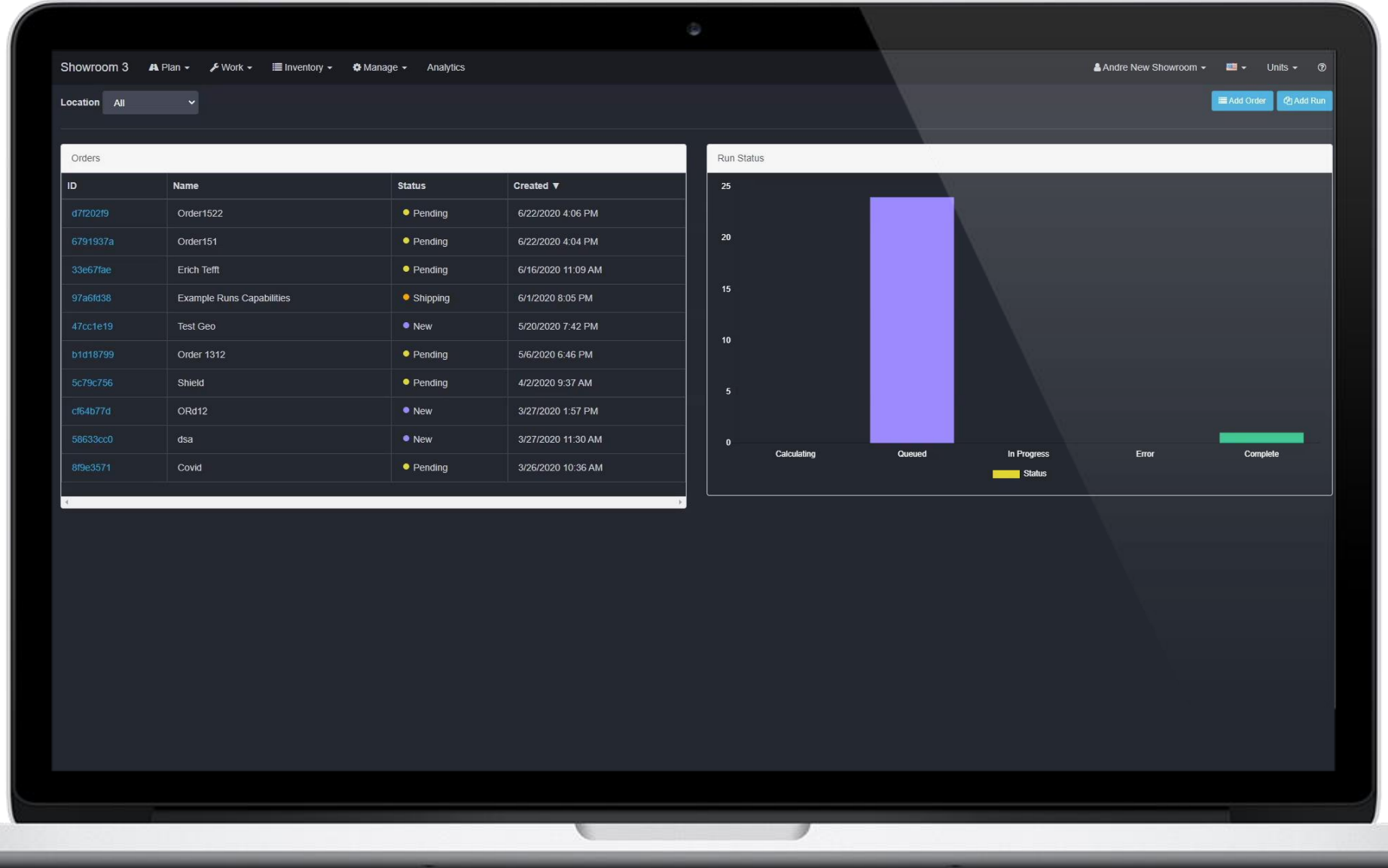
Open

Dozens of 3rd party module integrations enable best in class

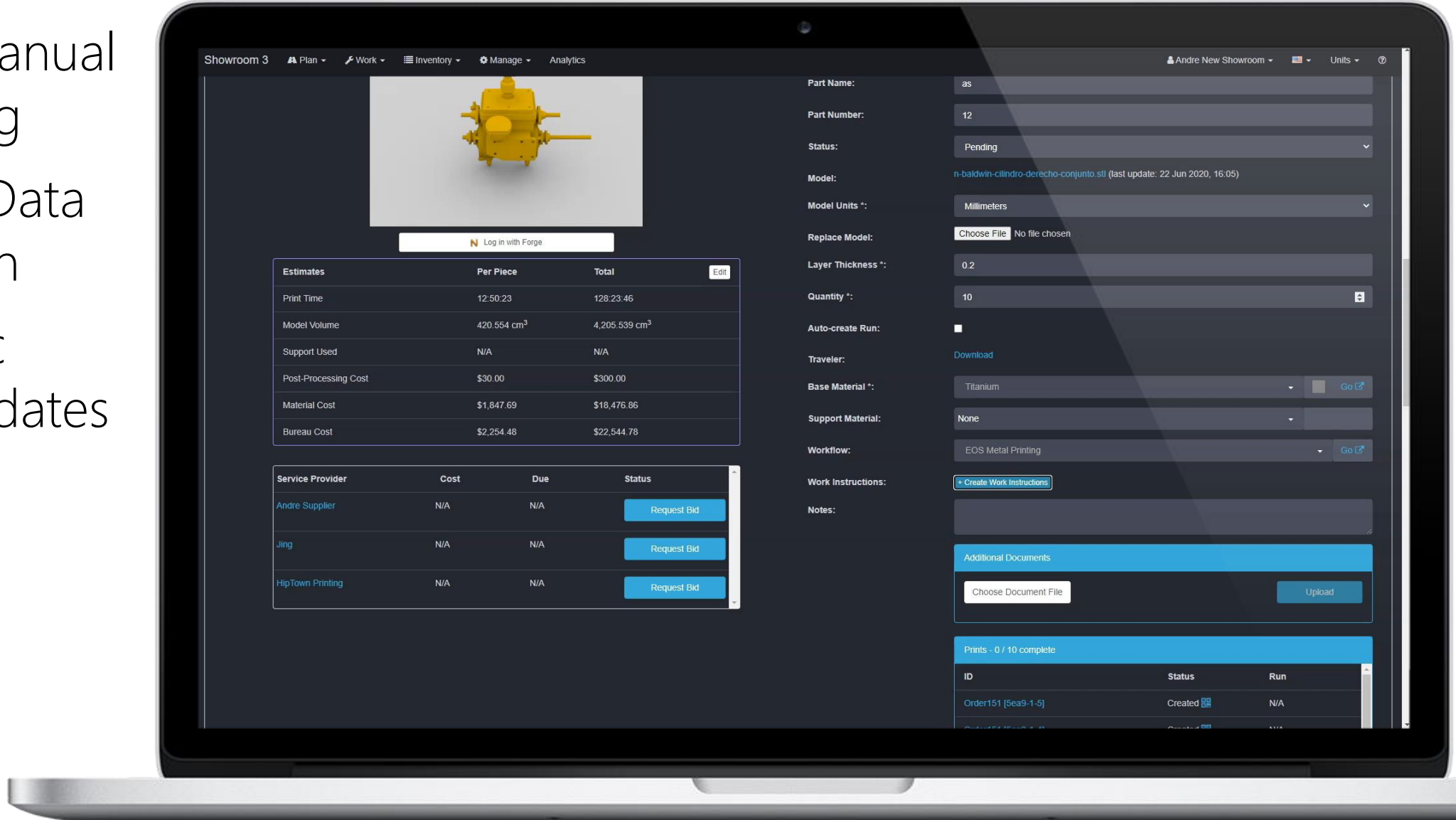
Automated

Uses data to drive immediate actions & efficiency

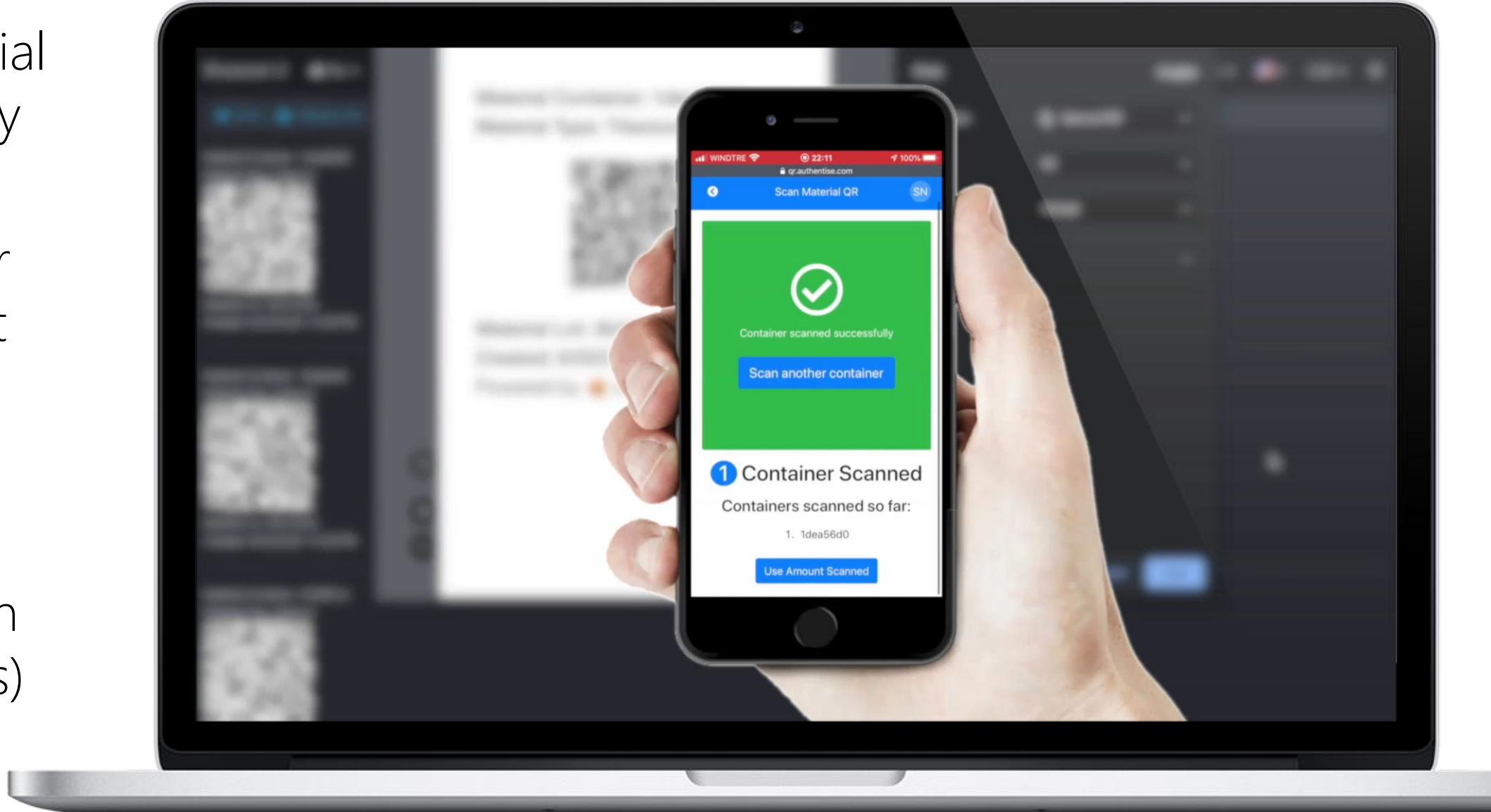
- 2D/3D Review
- Auto Quotes & Export
- CAD Integration
- Workflow Management
- Work Instructions



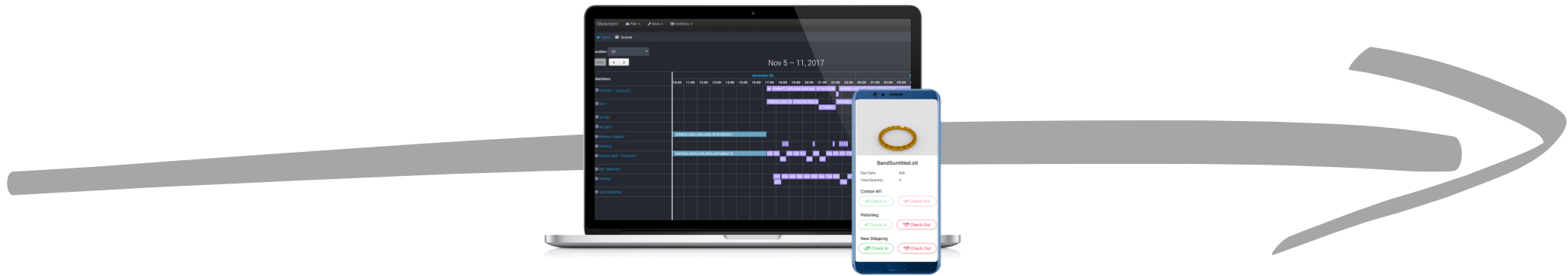
- Auto & Manual Scheduling
- Machine Data Integration
- Automatic Status Updates
- App for operators



- Full Material Traceability
- Historical Record for every part
- Powerful analytics
- No-code integration (e.g. Flows)



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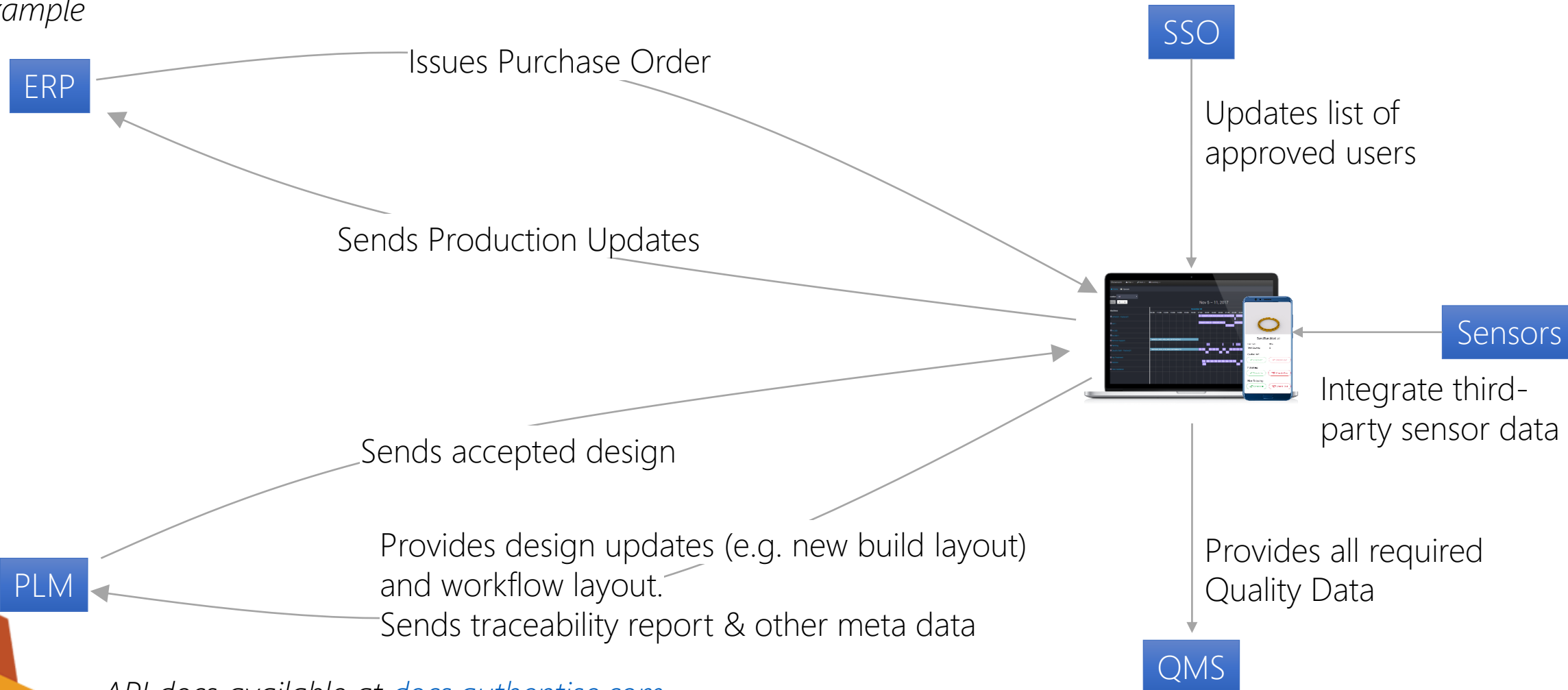
Highly Secure Systems to Protect Data

- Tight control options for individual permissions
- Integrate your users with SSO.
- Data encrypted (256 bit) in flight and at rest.
- System undergoes bi-annual, external white-hat penetration tests*
- ITAR compliant servers available*
- Multiple deployment options for those considering to go on-premise or on a managed cloud*

Integration Possibilities Endless Thanks to Authentise API



Example



API docs available at docs.authentise.com

The Power of the Contextual Digital Thread at Your Fingertips



Machine Data

Operator Actions

Design Version Control

Ability to add additional sensor data

Integrations (e.g. CAD)



Analytics

API (*enabling your developers to integrate & access data*)

Modules (*on our 3Diax Platform to extend services, e.g. Geometric Search*)

Codeless Automation (*enabling operators create their own alerts, dashboards & more*)

Working with
leaders in
Aerospace,
Automotive,
Medical &
more



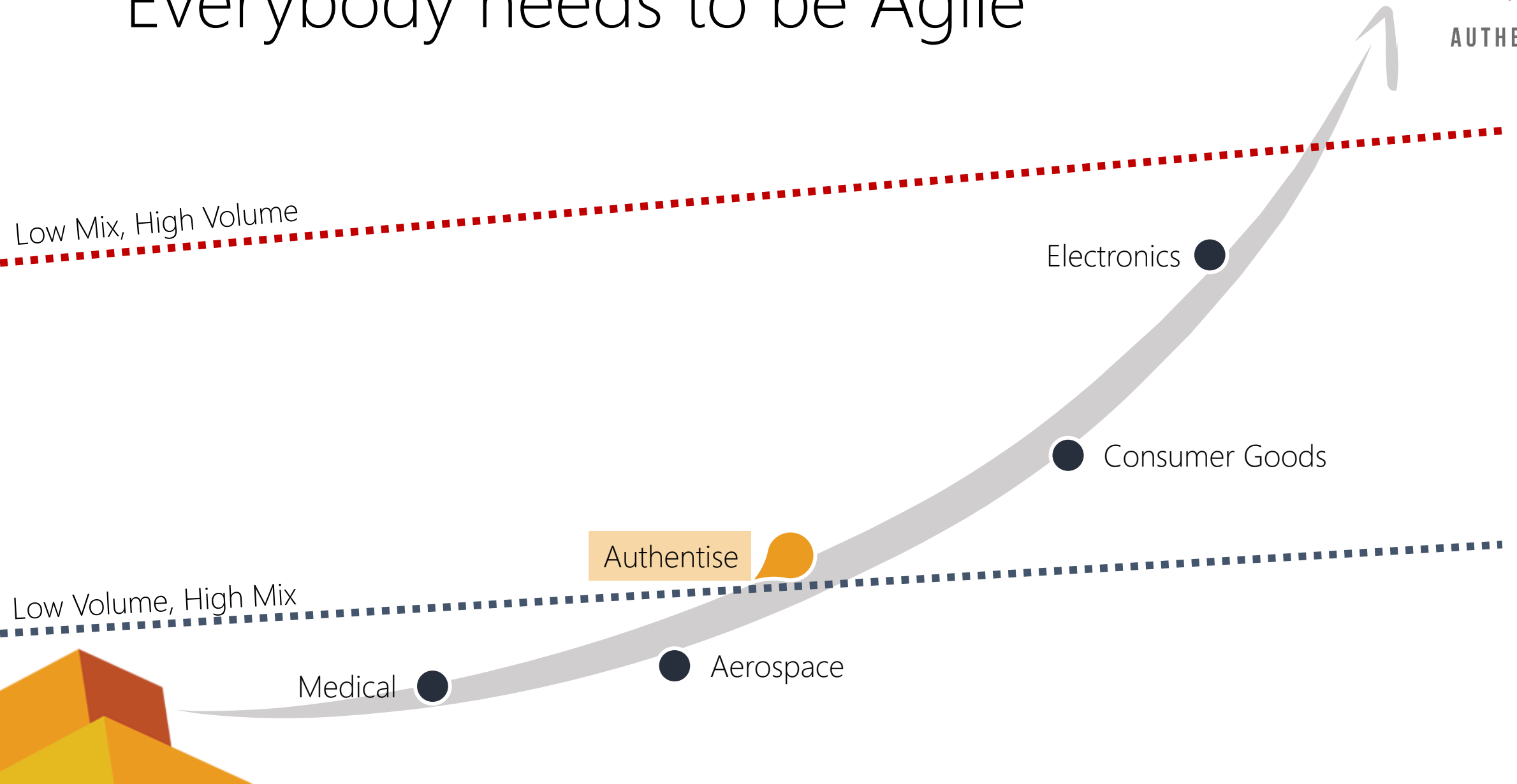
AUTHENTISE



Everybody needs to be Agile



AUTHENTISE



Work with us even if you have your own MES



IDENTIFICATION

- Geometric Search* ★
- File Analysis* ★
- Rendering* ★

COMMUNICATION

- Vendor Management* ★
- Engineering Discussion* ★
- Delta Comparison* ☆
- Material handling/Order* ☆

PRINT PREPARATION

- Support Optimization* ★
- Orientation* ★
- Toolpath* ★
- Nesting* ★

DELIVERY

- Machine Control* ★
- Post Production Tracking* ★
- Certification* ☆
- Reporting* ☆

DESIGN

ACCESS

- Secure Storage* ★
- Version Control* ★
- File Conversion* ★

SECURITY

- Licensing & Attribution* ☆
- Secure Delivery* ★

DISTRIBUTION

- Quoting* ★
- Watermarking* ★
- Scheduling* ★

DESIGN PREP

- Design Enhancement* ★
- Mesh Healing* ★
- Light weighting* ☆

3Diax is the foundation for APA
& automation extensions that:
↓Cost, ↑Utilization and ↗Agility

QUALITY

- Simulation* ☆
- In Process Monitoring* ★
- Data Learning* ★

PRODUCTION

Platform for third party algorithms



SIEMENS



nCircle
nfinite possibilities

ADDIGURU



materialise

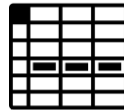
Coming
up:



New MES at the of the Revolution



Historically, Manufacturing Execution Systems (MES) are Dumb Systems



Either manual, glorified excel sheets



or Traffic Light systems only good at measuring throughput

Modern, connected MES Benefits from Key Ongoing Trends



More Machine Data Available



Previously Manual Tools now Headless Algorithms

Product Development Turbocharged

Smart Integration of Data & Tools

Low/No Switch Cost for Algorithms

Empowered Operators

Faster idea-to-product development cycle

More competition, faster development, lower cost

Higher agility, resilience and efficiency, even for small volumes

Build on Contextual Data: Connect Directly to your Supply Chain



Secure
Intellectual
Property

Real-time
Digital
Traceability
Reports

Automatic
Status Updates

Immediate
visibility of
spare capacity

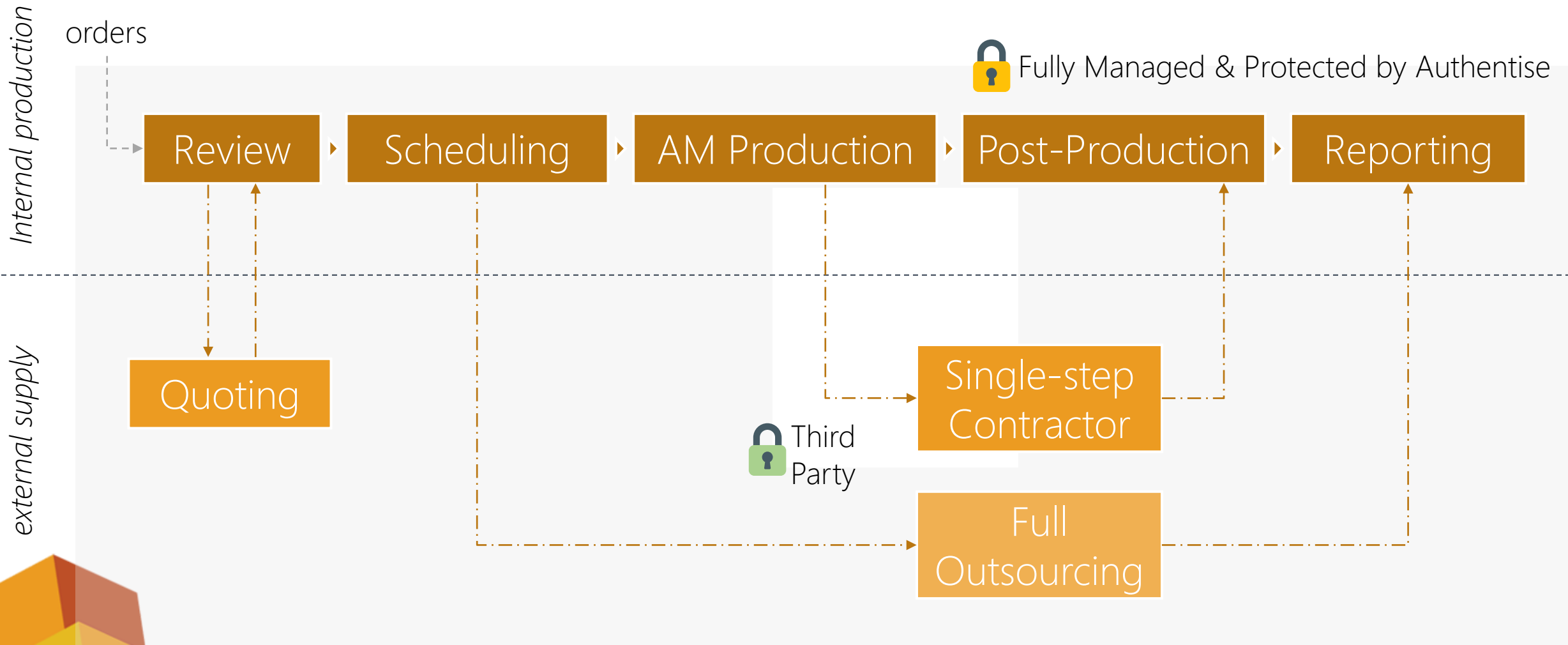
Validated
Quality
Assessment
Data

Longer-term:
Remote
Quality
Verification



AUTHENTISE

Protect the Entire Workflow








Your Choice of Encrypted Delivery



- Restrict the # of prints per object
- Monitor local production in real time
- Prevent local operator from accessing:
 - Your design
 - Your parameters
- Work with multiple providers for final encryption
 - Ensure that you can speak with every device
 - Ensure leading protection
 - Switch at zero cost

Choose your provider to ensure broadest coverage

Supplier	Pro	Con
	<ul style="list-style-type: none">• Widest adoption in machines• Integration in CAD	<ul style="list-style-type: none">• Full design transfer: Larger attack surface
	<ul style="list-style-type: none">• Existing Boeing POC	<ul style="list-style-type: none">• Limited range of machines
	<ul style="list-style-type: none">• Validated by Israeli Innovation Foundation• Experience and exposure to variety of machines	<ul style="list-style-type: none">• Small company, limited resources

*Integration not yet validated



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