

THE FUTURE OF MANUFACTURING

AI. Robotics. Digital twins. Mass customization. Advanced materials.

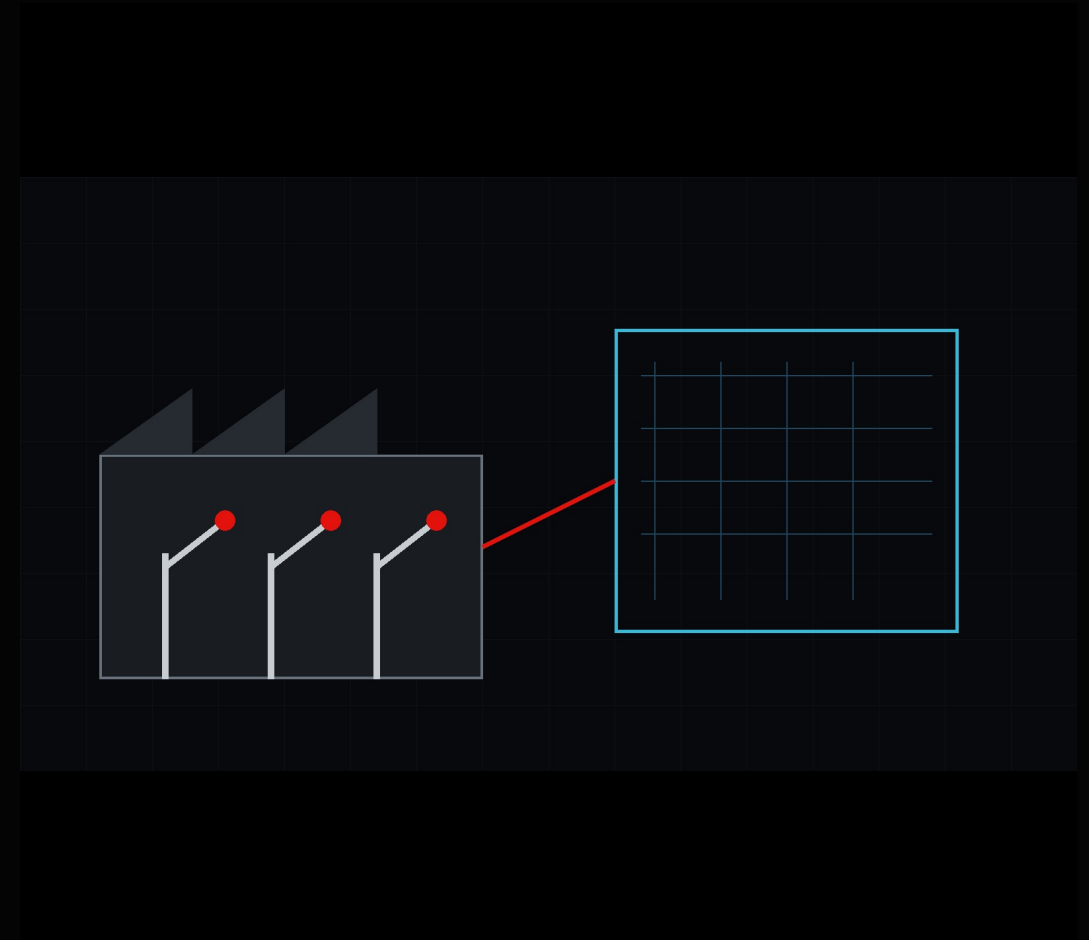
Manufacturing is moving from mass production to flexible, intelligent, software-defined systems built around AI, robotics, digital twins, advanced materials and make-to-order economics.

Shift your mindset from why you can't to why you must.



THE LONG VIEW MATTERS.

Pre-2006 work included DaimlerChrysler in Detroit and Stuttgart, Caterpillar, Parker Hannifin, TSMC, IBM Advanced Manufacturing, Wisconsin Manufacturing Extension Partnership, PrintPack and NAPA Auto Parts.



DECADES INSIDE THE CHANGE.

1990s-05

DIGITAL SUPPLY CHAINS

Collaborative commerce, China
Price, channel change and design
networks.

2006-14

FACTORY 2.0

Cloud, IoT, robotics, mass
customization and additive
manufacturing.

2015-21

INDUSTRY 4.0

Digital twins, predictive
maintenance, cobots and product
connectivity.

2022-25

AI INDUSTRIALIZATION

Machine vision, generative
design, reshoring and smarter
factories.

2026+

SWARM FACTORIES

Agentic AI, autonomous
microfactories and product-as-a-
service.

THE FUTURE IS A LEADERSHIP ISSUE.

The advantage is not simply knowing what is changing. It is recognizing which assumptions have expired, building the ability to experiment, and moving fast enough to matter.

Think big. Start small. Learn fast. Scale what works.



ONE SECTOR. MULTIPLE WAYS INTO THE FUTURE.

01

THE FUTURE OF MANUFACTURING

The factory becomes intelligent, flexible and connected.

02

MANUFACTURING AT THE SPEED OF AI

Machine vision, generative design and autonomous operations.

03

THE DIGITAL TWIN FACTORY

Simulation becomes the operating layer for industrial decisions.

04

MASS CUSTOMIZATION

From make-to-stock to make-to-order.

05

THE INTELLIGENT PRODUCT

Connectivity, predictive diagnostics and servicification.

06

LEADING THE FACTORY OF 2035

Transformation leadership in the era of supernova trends.

WHAT IS CHANGING FASTEST?

01

MASS CUSTOMIZATION

Make-to-order replaces make-to-stock in more categories.

02

DIGITAL TWINS

Products and factories are simulated before physical decisions are made.

03

AI + MACHINE VISION

Quality, design and process decisions become increasingly intelligent.

04

ROBOTICS + COBOTS

Flexible automation expands across tasks once reserved for people.

05

ADVANCED MATERIALS

Science changes product weight, performance and economics.

06

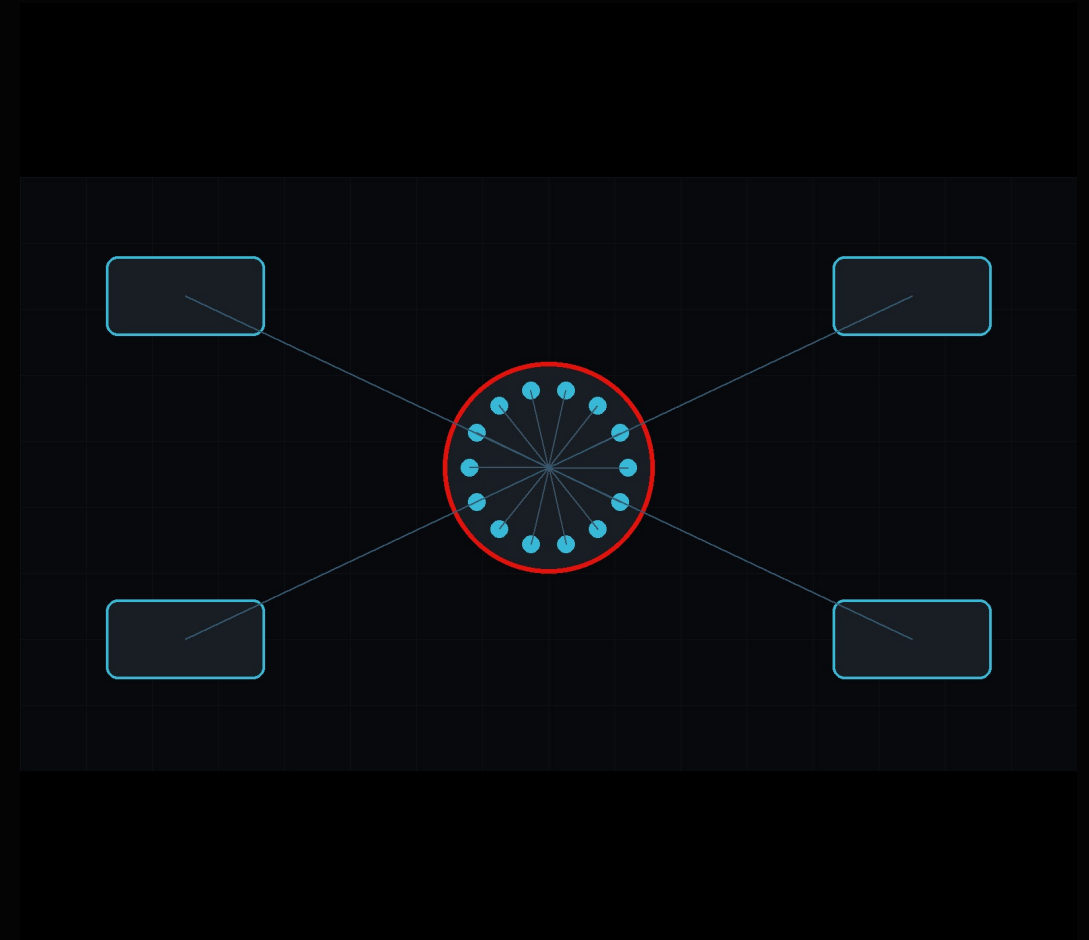
PRODUCT-AS-A-SERVICE

Connected products shift value toward uptime, insight and service.

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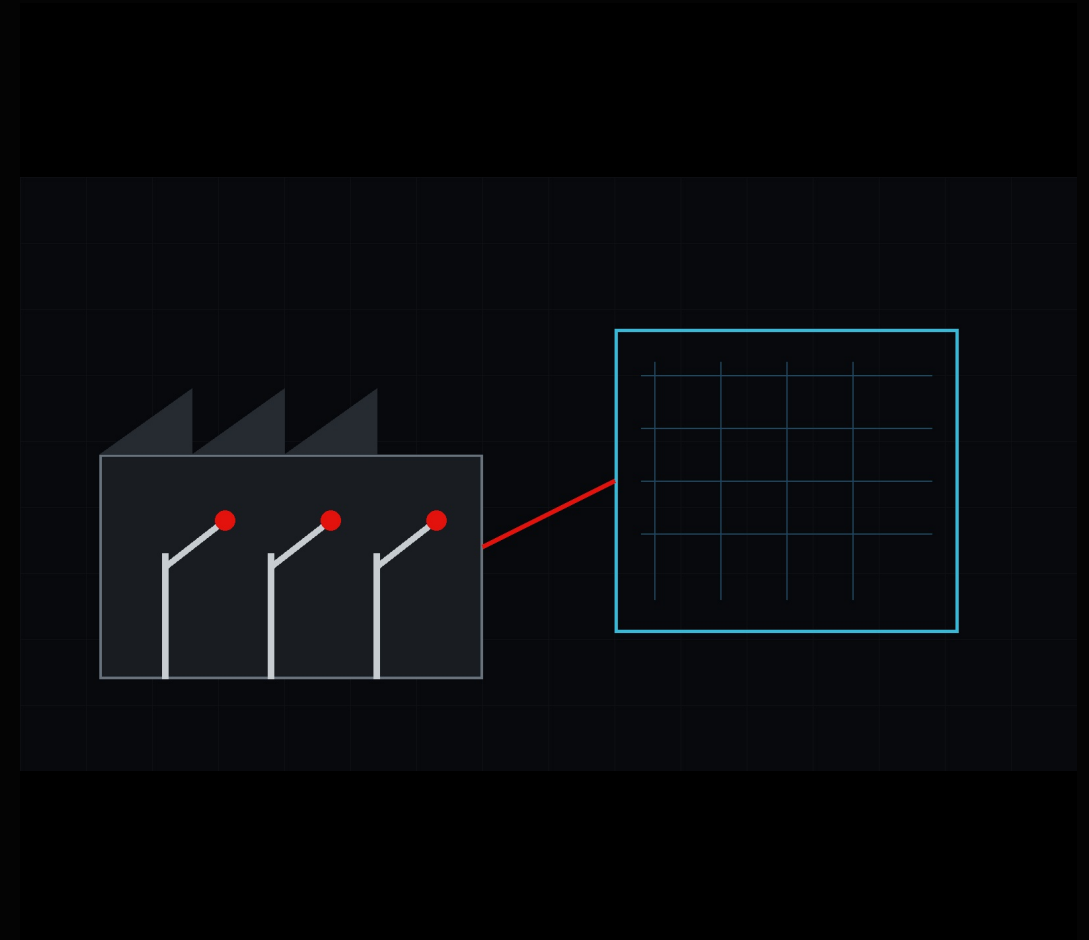
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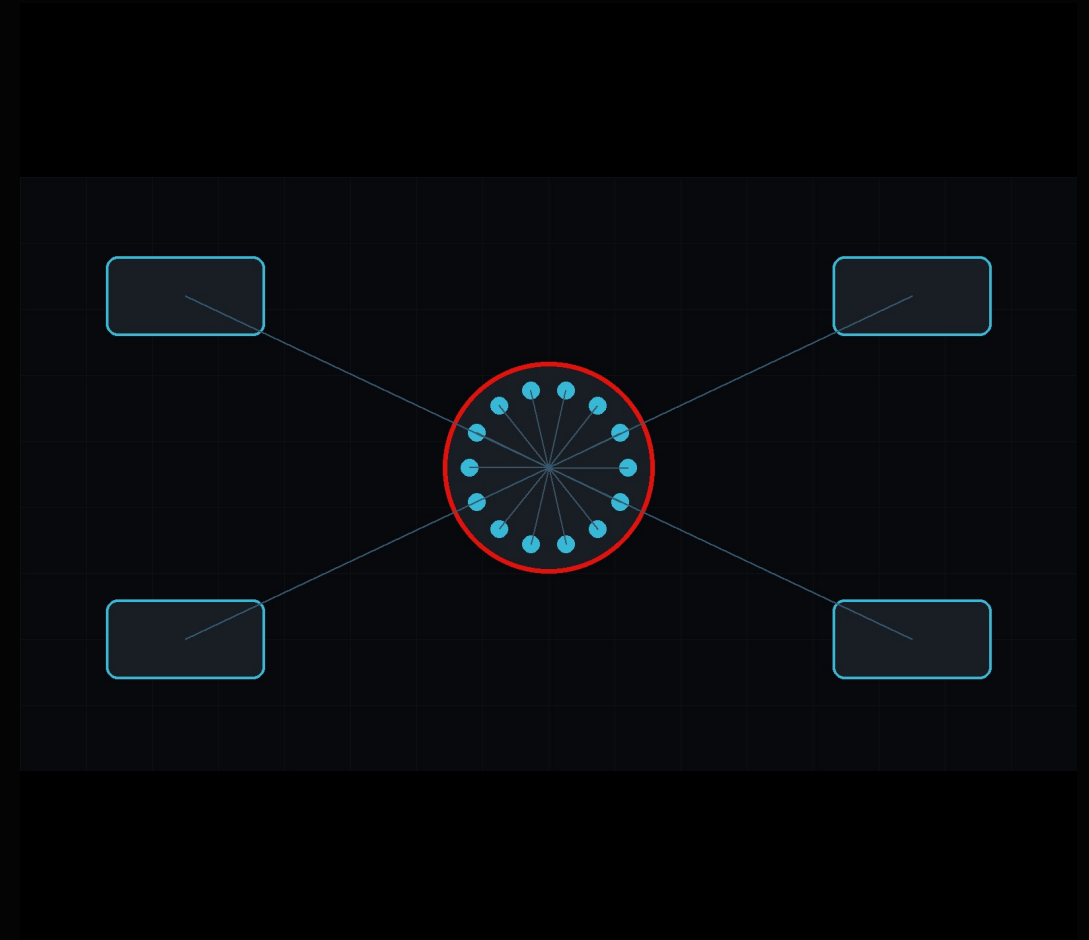
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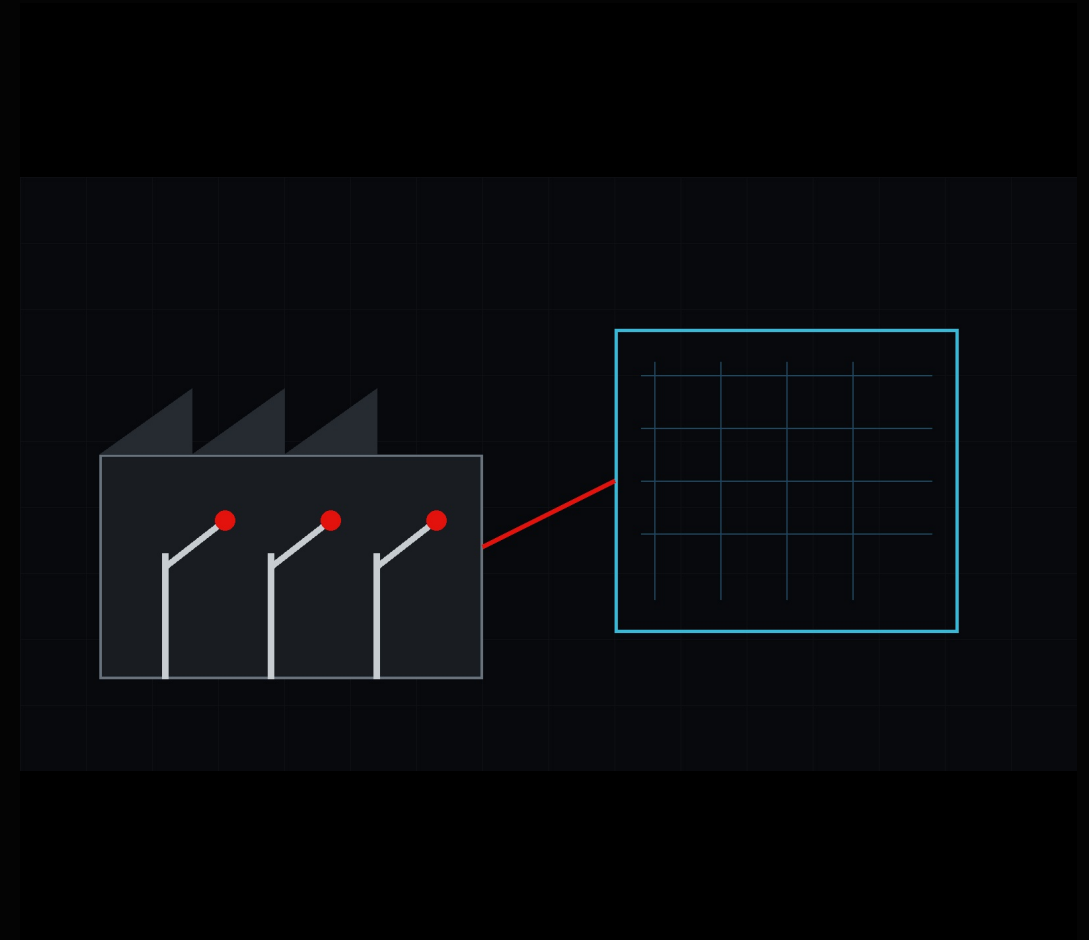
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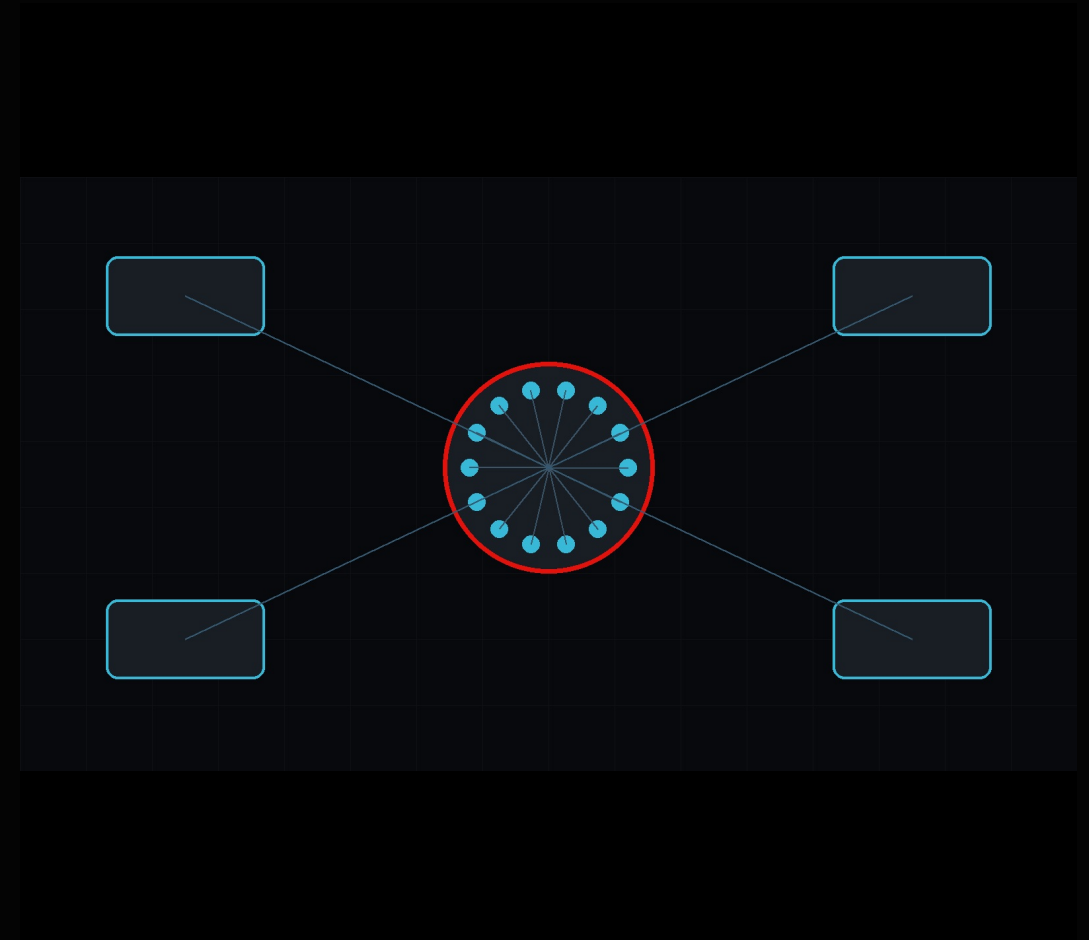
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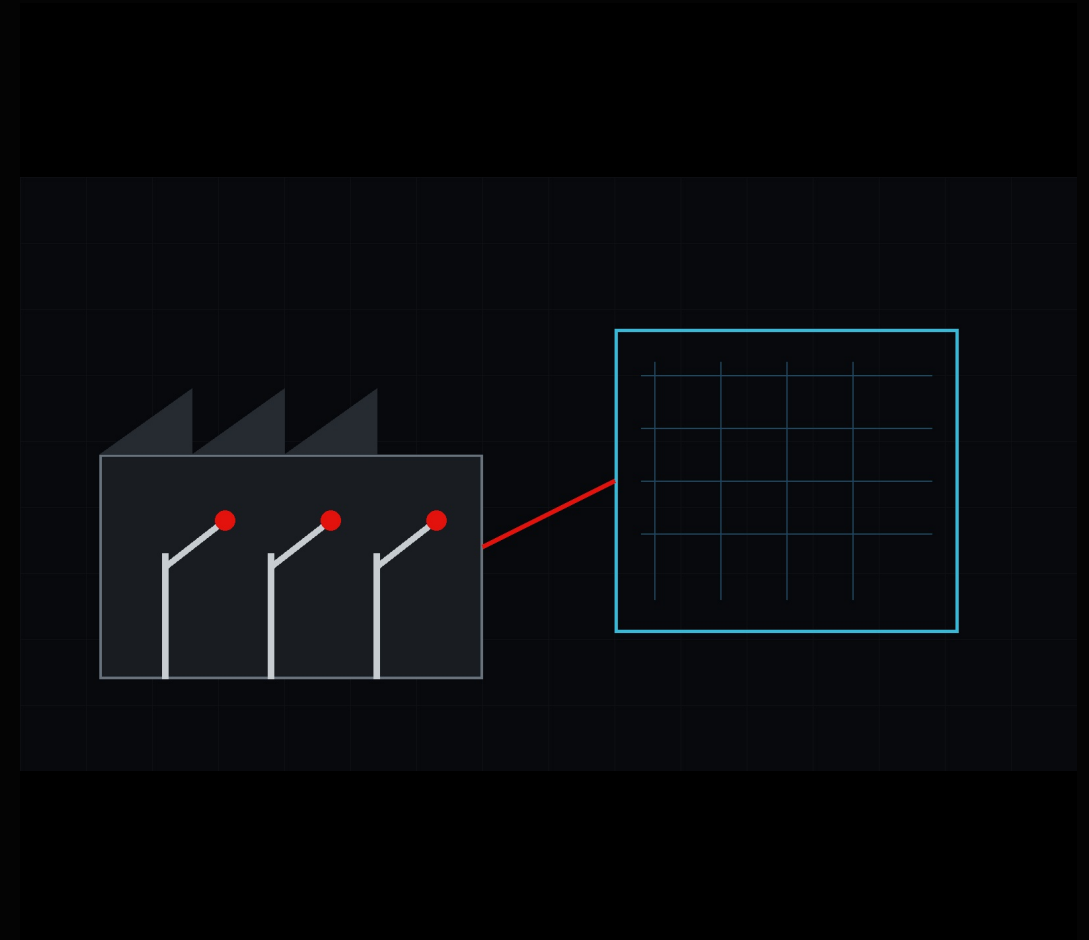
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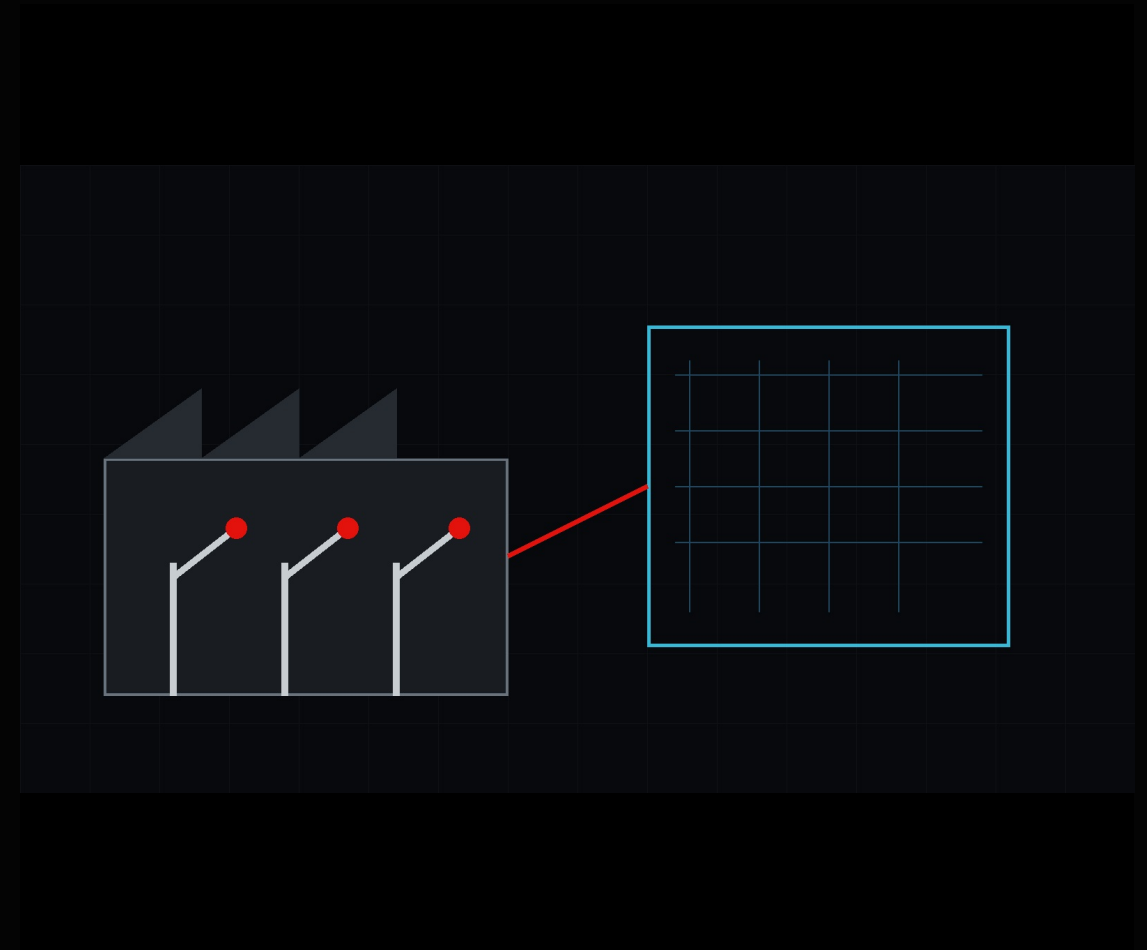
Amsted Rail

Traditional manufacturing reinvented through materials, 3D printing and connected products.



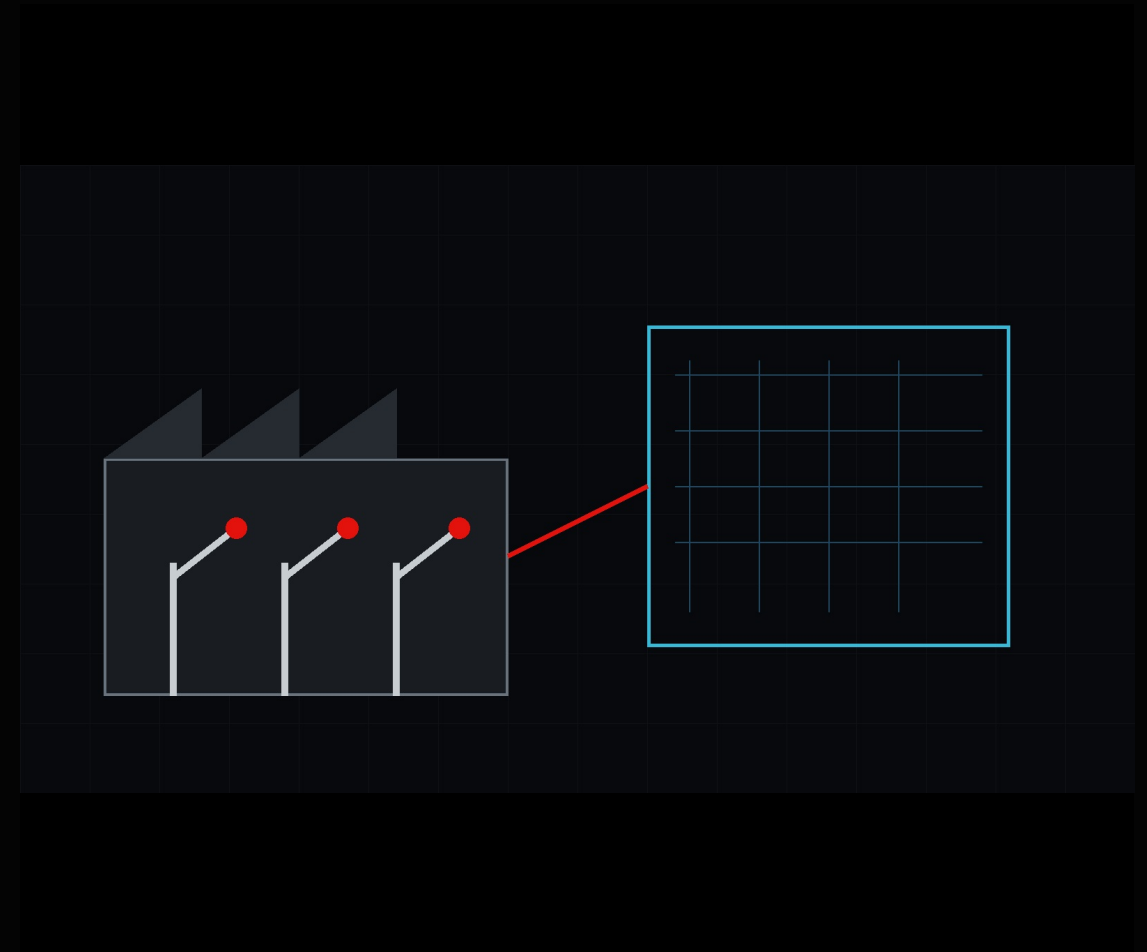
BIFMA 360

Project Aura 2035: digital twins, bio-responsive materials and product-as-a-service.



Manufacturing Leadership

Legrand, Schneider Electric, Whirlpool, QAD, Camstar, Swagelok and others.



ACROSS THE ECOSYSTEM.

DaimlerChrysler • Caterpillar • Parker Hannifin • TSMC • IBM Advanced Manufacturing • Amsted Rail • Schneider Electric
• Legrand • Whirlpool • Swagelok • QAD • Camstar • Alignex • Metal Powder Industries Federation • Association of
Manufacturing Technology • Society of Manufacturing Engineers • BIFMA • Columbus McKinnon • Assa Abloy

25-50+ HOURS OF CUSTOM RESEARCH.

Client calls. Industry research. Event objectives. Trend analysis. Current developments. No two keynotes are the same because no two audiences face the same future.



**LISTEN → RESEARCH → MAP THE TRENDS → BUILD THE STORY → CONNECT THE ROOM →
LEAVE A PLAYBOOK**

WHAT DOES YOUR LEADERSHIP TEAM NEED TO UNDERSTAND NEXT?

You do not need a finished brief. Tell Jim who is in the room, what is changing fastest around them, and what decisions are becoming harder.

Direct access to Jim • Exploratory Zoom or phone call • Deep customization • Practical event planning

CONTACT JIM