

Manufacturing Philosophies Continued

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Seiri	Sort
Seiton	Set in order
Seiso	Shine
Seiketsu	Standardize
Shitsuke	Sustain

# Kanban

request supplies when needed

make parts when requested

attach request to item

requests show inefficiencies

# Agile Manufacturing

# The Future

# Digital Twin

NASA Apollo Program "twin"

Troubleshoot on the ground

Simulation instead of physical object

Use Cases

Airframe Maintenance

Record of production process

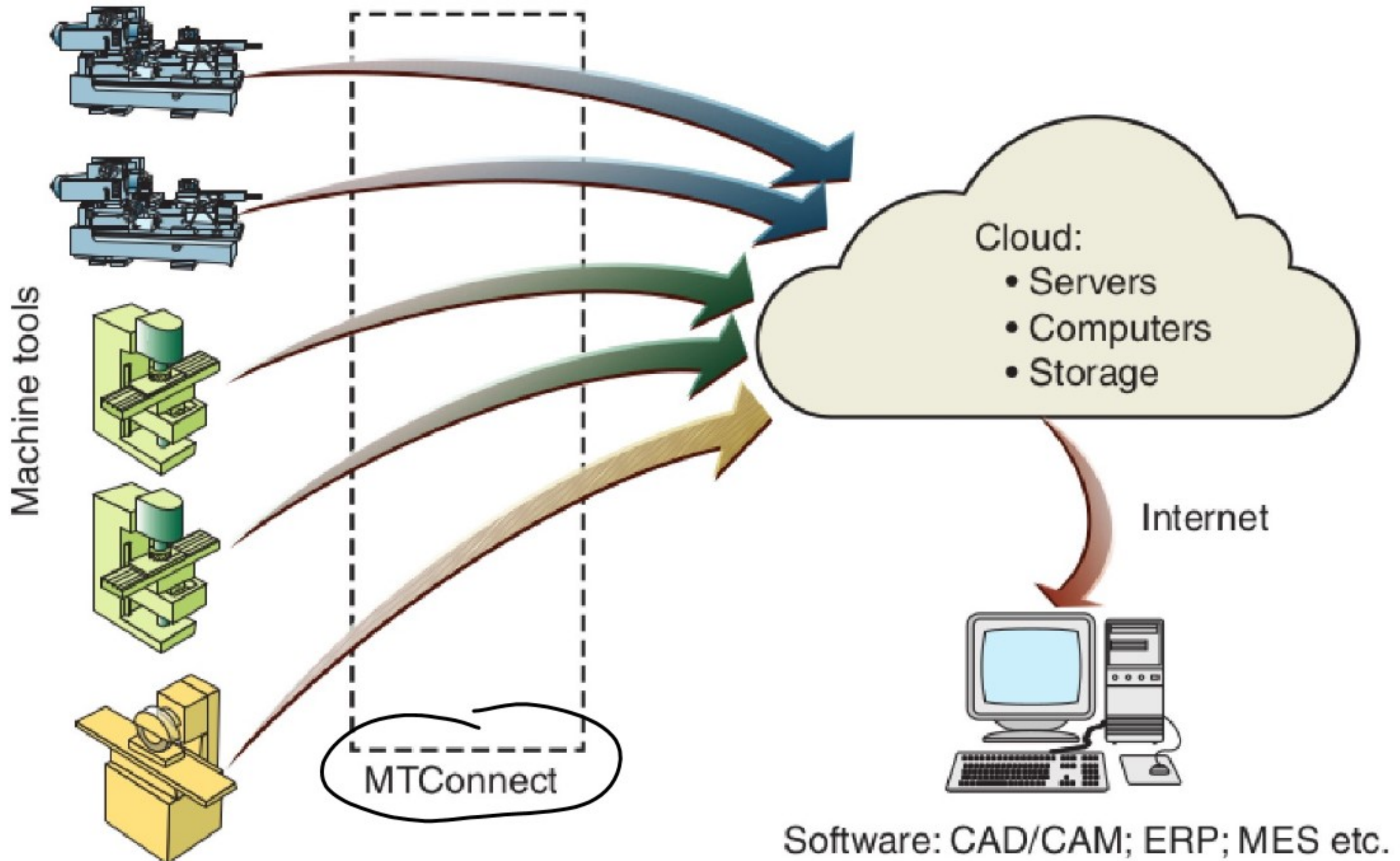
# Industrial Internet of Things

Data logging

Digital Twin

Big Data

Artificial Intelligence



- ▶ Part Feeder  
(<https://www.tiktok.com/@blancheteng/video/7171057584990965035>)
- ▶ Tape Winding  
(<https://www.tiktok.com/@solderingmachine/video/7170145360453618987>)
- ▶ Bending Brake  
(<https://www.tiktok.com/@pressbrake2/video/7167019888270118149>)
- ▶ Gear Cutting  
(<https://www.tiktok.com/@yeechopcnc/video/7150573693926640901>)