

Manufacturing

Philosophies

Continued

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Seire

Seiton

Seiso

Seiketsu

Shitsuke

Sort

Set in order

shine

standardize

Sustain

Kanban

request supplies when needed

make parts when needed

attach request to item

requests show inefficiencies

Agile Manufacturing

(Reconfigurable factory: easily change what is produced)

The Future

Digital Twin

NASA Apollo Program "twin"

Simulation

Use Cases:

Airframe Maintenance

Record of Production Process

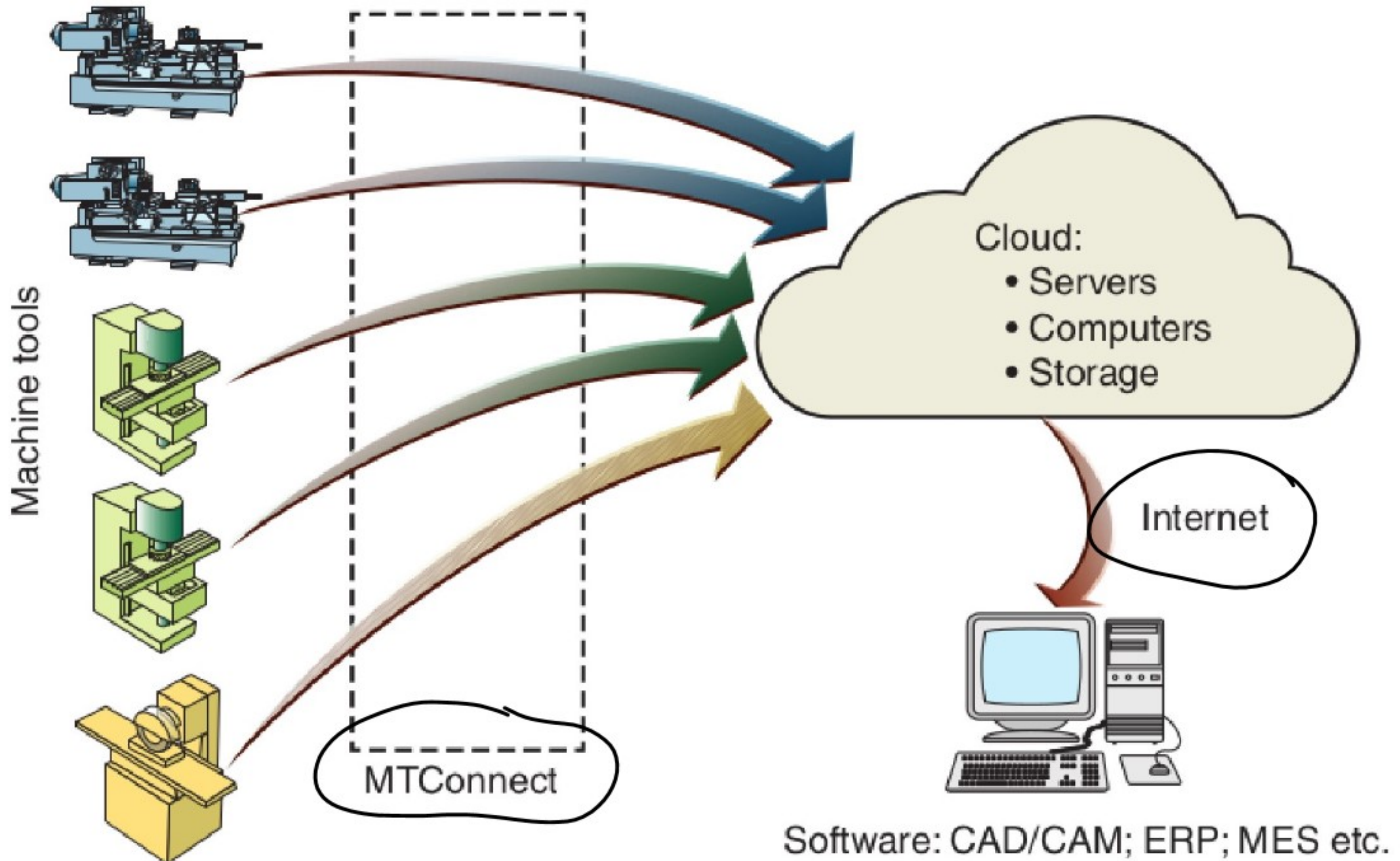
Industrial Internet of Things

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>)