

Digital Transformation | Opportunities for Manufacturers

Transform daily operations...

FROM: TO:

Reactive Predictive & Controlled

Siloed & Fragmented Aggregated & Integrated

Historical Knowledge Forward-looking Insights

Fixed Constraints High Flexibility

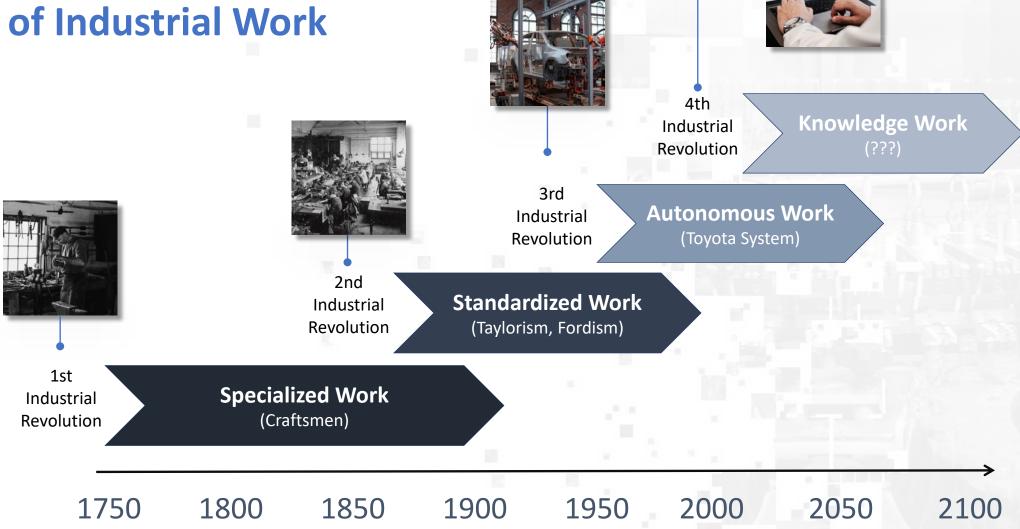
Culture of Adaptation — Culture of Innovation

...to improve performance!

- 1. Availability (Uptime, Efficient Maintenance)
- 2. Quality (RTY, DPM, CoPQ, Shipped Quality)
- 3. Speed (Takt Time, Changeover Time, TTM)
- 4. Throughput (Flow, Capacity, Utilization)
- 5. Agility (Respond to Changing Demands)
- 6. Sustainability (Energy, Waste)

Through a combination of quick wins, well-targeted use cases, and a 10-year roadmap, digitalization (intelligent systems) can create major value to manufacturing operations.

Transforming the Nature of Industrial Work



Digital Transformation | Key Challenges for Manufacturers



- Focusing on problems to solve (not solutions!)
- Data acquisition, asset connectivity, missing sensors
- Data cleansing, labelling, managing, maintaining



- Roadmap (vision, scope, targets, sequence, CSFs)
- Architecture and technology choices/constraints
- Program and project management (new methods!)



- Management engagement and alignment (x-function)
- Genba engagement and participation
- Resource constraints and skills limitations



- Benefits realization (short-term & long-term ROI)
- Integration with operations, extension, expansion
- Learning... and changing the workplace culture

Digital Transformation | Lessons Learned

- 1. Integrate your OpEx and DX Programs.
- 2. Early Engagement of People at the Genba.
- 3. Stakeholder Alignment. Governance model.
- 4. Minimum Viable Dataset.
- 5. Data Dictionary.
- 6. Design Thinking. Agile Engineering.
- 7. Encourage Creativity & Experiments. Allow Failures.
- 8. Stay Curious. Seek ideas especially outside Your Industry.



Thank You

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