The “Happy Factory”
Harmony between Humans & Machines
Productivity Centric Innovation

Courtesy Charlie Chaplin Modern Times 1936
Human Centric Innovation

Courtesy: OBI robots
The path towards harmony between people and machine.

- Mass automated production
- Collaborative & Adaptive
- Collaborative
- Lean manufacturing
- Autonomous & Collaborative
- Mass manual production
The path towards harmony between people and machine
The path towards harmony between people and machine

- Disharmony between man and machine
- Help people to develop **added value tasks**
- Facilitate their **contribution** to the optimization of the manufacturing processes.
- Support **Knowledge transfer** from Experts to the Young generation
- Worker upskilling
Autonomous Knowledge transfer & Learning
Autonomous Coaching

- Automatic Recognition of Operator movement and Support Autonomous Learning
- Visualization of proficiency Level
- Harmonious Workplace

AI analysis of collected worker traffic line data × Real-time feedback on the differences with experts

Beginner vs. Skilled worker
Turning Operators into Creators

Robotics & AI Adaptive Vision

- Facilitates knowledge transfer between experienced and non-experienced employees
- Reduces the learning curve for operators
- Helps people to avoid human mistakes
Making Work more enjoyable and efficient

Reduce Frustration
Support processes prone to mistakes.

Autonomous Coaching
Proficiency based Self coaching.
Making Work more enjoyable and efficient

*Increased motivation*
Real time constructive Feedback.

*Increased Harmony –
Collaboration between Men and Machines.*
Harmony between worker and machine
The collaborative and adaptive workplace

Industrial Automation Solutions
Summary - Happy Factory Defined

A shop floor where there is seamless & valuable harmony between people and machines making the right conditions for them to be successful in their daily pursuits, more productive, and creative.

- Board & Shareholders
  - Sustainable operation
  - Increased ROIC

- Corporate Planners
  - Smooth Supply chain management
  - Improved ROI
  - Globally connected factories
  - Agility to manage Supply/Demand

- Factory Managers
  - Flawless execution of forecast
  - Flexible and Reconfiguration “On-Demand”
  - High OEE & Factory Visualization
  - Zero Compliance breaches
  - Maintaining Autonomy & skilled workforce

- Factory Operators
  - Zero Breakdown
  - Predictable machine
  - Safety
  - Quick on-time assistance
  - Prescriptive maintenance
“At work for a better life, a better world for all”

“To the machine the work of the machine, to mankind the thrill of further creation

Dr K. Tateisi - 1960