

Industry 4.0 Maturity Model

“Helping companies drive competitive advantage”

What is Industry 4.0?

Fundamentally:

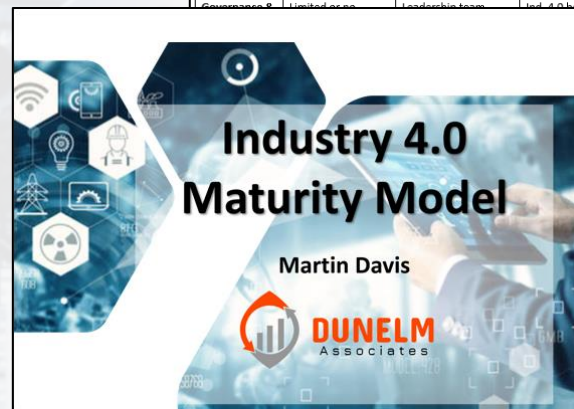
Turning data from your equipment into real-time information to make decisions and improve your processes (manual or automated).



Industry 4.0 Maturity Model

- Defines key attributes for Industry 4.0 success
- Clear stages of maturity that help you move forward
- Allows comparison between lines, plants or companies
- Built on 8+ years of practical experience

| Industry 4.0 Maturity Model | | | | |
|-----------------------------|-----------------|---|-----------------|--|
| Leadership & People | | | | |
| Characteristic | Entry Level | Basic | Intermediate | Advanced |
| Governance & Limited scope | Leadership team | Ind. 4.0 benefits are | Leadership team | Leadership team actively driving plus benefits recognised across the company |
| | | Ind. 4.0 Strategy understood throughout the organisation | | |
| | | All levels prepared to champion change | | |
| | | Process ownership is end-to-end and crosses functional boundaries | | |
| | | Building the right expertise internally | | |
| | | Widespread digital and analytical skills across the organisation | | |
| | | Automated data collection across most or all machines | | |



Industry 4.0 Maturity Model

Martin Davis

DUNELM Associates

Abstract

This model is designed to measure the Industry 4.0 maturity of manufacturing companies. It is based on a combination of Industry 4.0 research and practical experience.

6 Categories, 28 Characteristics

Technology

- Everything Connected
- Internet of Things (IoT)
- Augmented Reality
- Virtual Reality

Supply Chain

- Just in time Maintenance parts
- Just in time Raw Materials
- Dynamic Supply Chain

Operational Excellence

- OEE
- Availability / Downtime
- Performance
- Quality
- Process Improvement
- Digital Modelling



Leadership & People

- Governance
- Strategy
- Change Management
- Talent

Data & Information

- Collect it
- Use it
- Integrate it
- Add Context

Manufacturing

- Automation
- Robotics
- Advanced Automation
- Maintenance
- Safety

4 Levels of Maturity

- The model consists of 6 categories and 28 characteristics
- For each characteristic four levels of maturity are described
- Each level provides direction as to how to increase your maturity

Leadership & People

| Characteristic | Entry Level | Basic | Intermediate | Advanced |
|------------------------------------|-------------------------------------|--|--|--|
| Governance & Leadership | Limited or no awareness of Ind. 4.0 | Leadership team aware but unsure of the benefits of Ind. 4.0 | Ind. 4.0 benefits are recognised and are being pursued | Leadership team actively driving plus benefits recognised across the company |

Industry 4.0 Virtuous Circle

- Many aspects of Industry 4.0 maturity are interconnected
- We partner with you to help you understand the “right levers to pull” to make the most impact

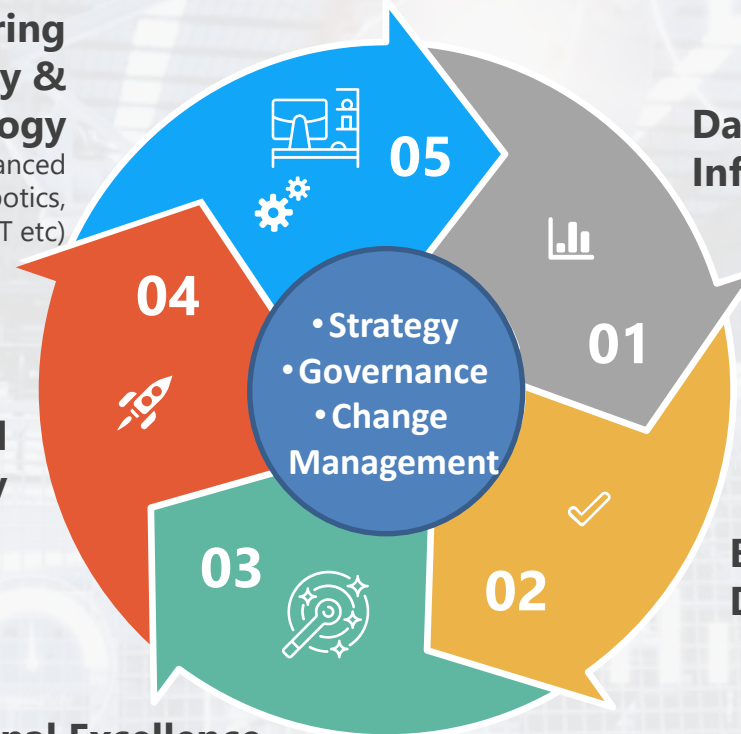
Investment in Manufacturing Efficiency & Technology
(incl. Automation, Advanced Manufacturing, Robotics, Connected Systems, IIoT etc)

Increased Profitability

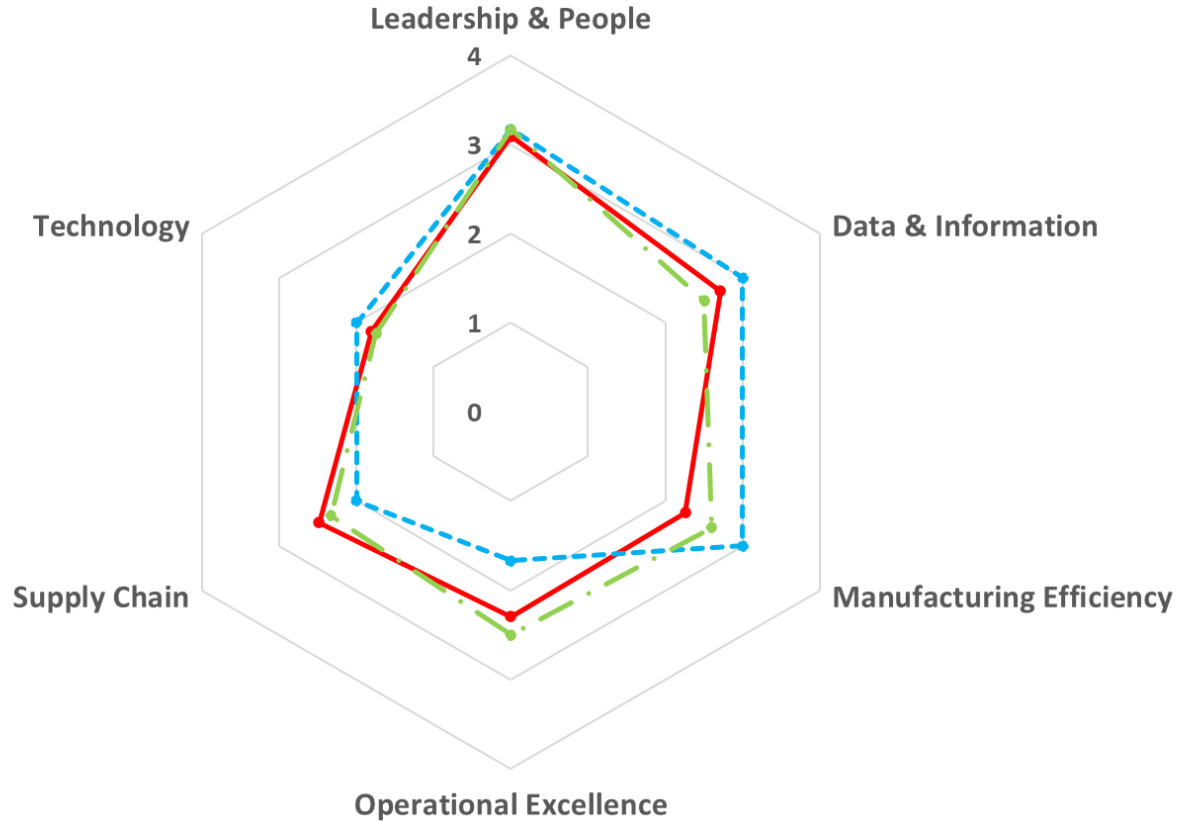
Operational Excellence

Data & Information

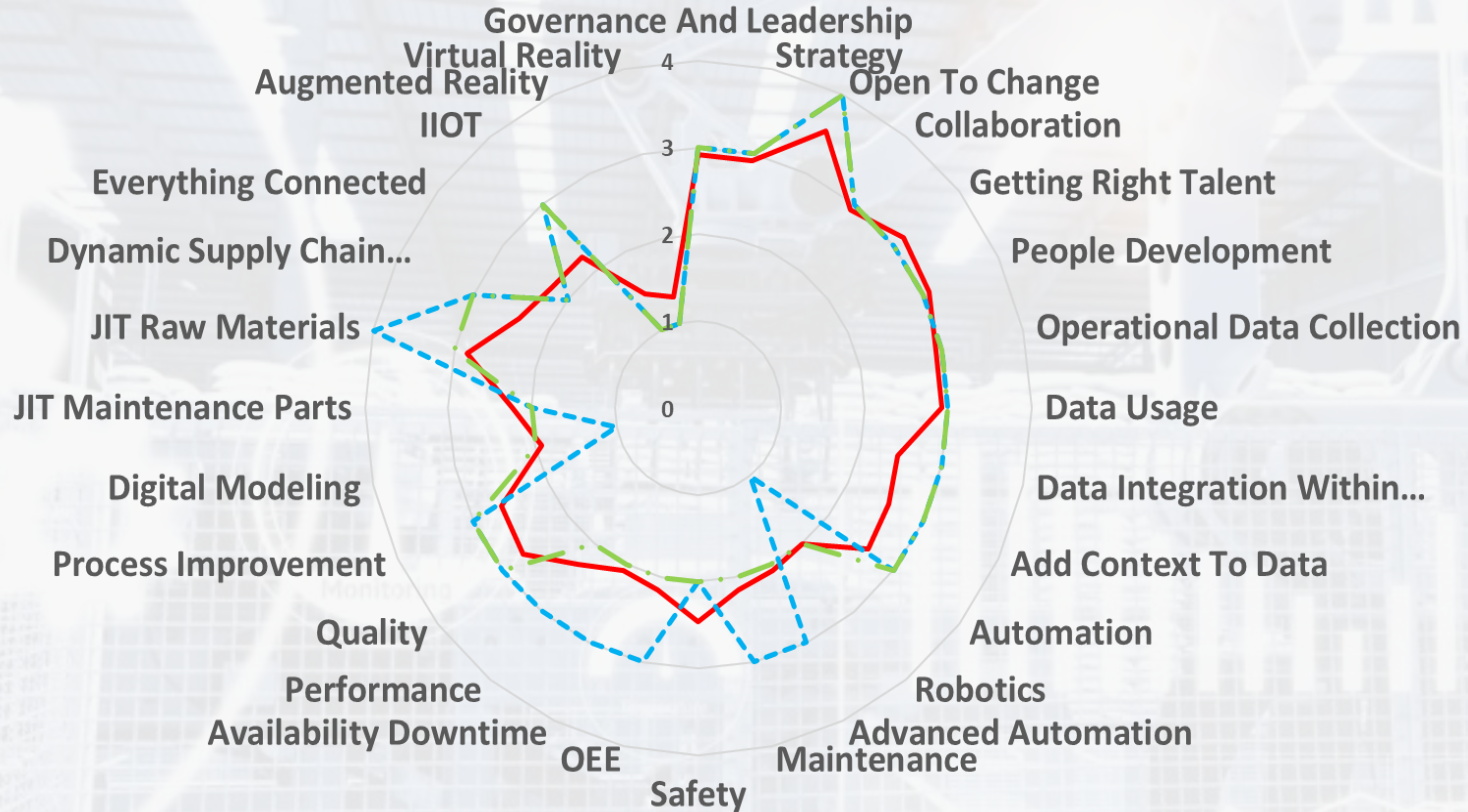
Better Decisions



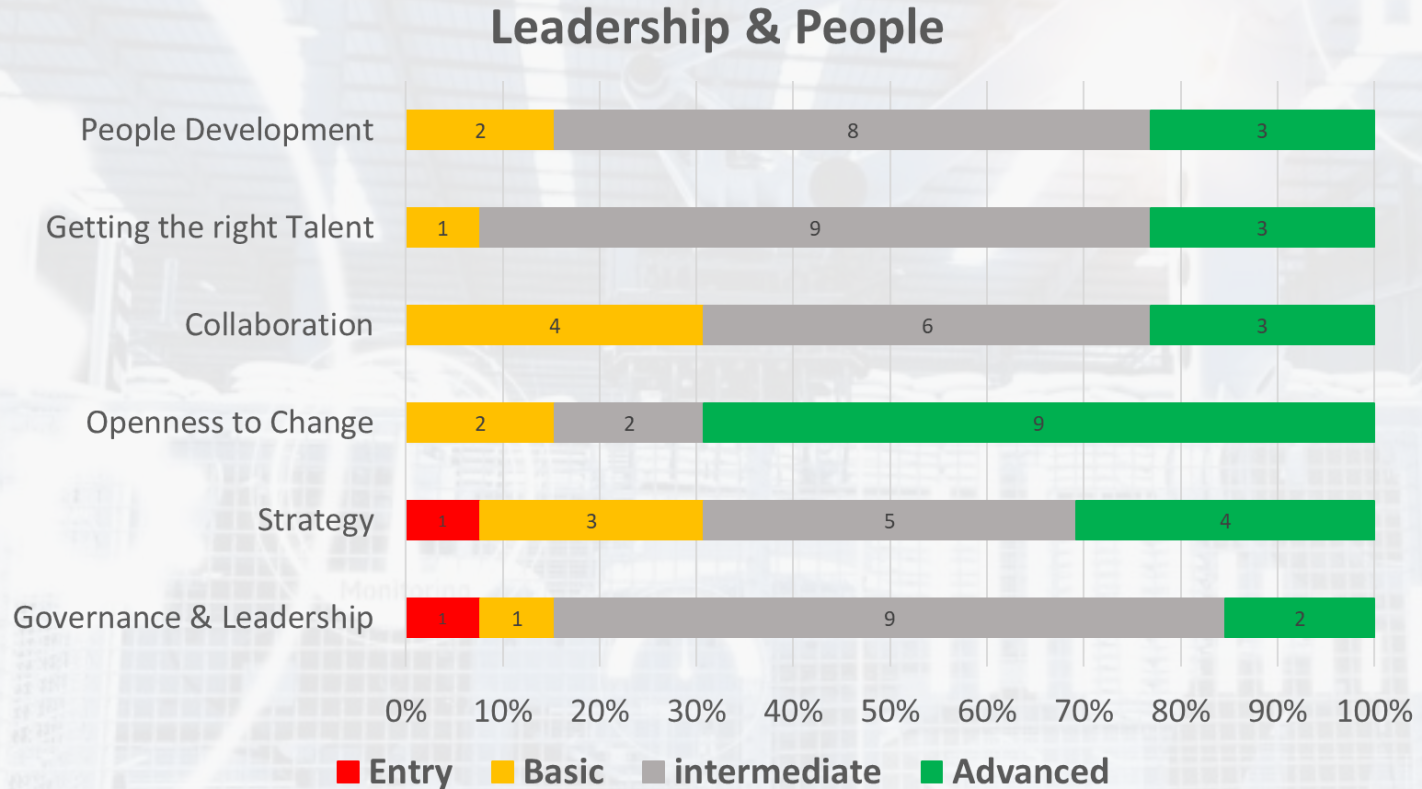
Example Diagram of Results



Example Detailed Diagram



Example Distribution of Results



What is included?

- License to use the **“The DUNELM Industry 4.0 Maturity Model©”** for one or more plants (see pricing)
 - Our considerable experience distilled into a simple to use maturity model
 - Covers all aspects of Industry 4.0 from Strategy to Technology
 - Allows simple comparison of lines, plants or companies by category or characteristic
 - Provides direction to drive increased maturity
- We believe in partnering with our customers to ensure success, which is why we include 10 hours of consultancy with our Industry 4.0 Maturity Model
- This guidance and direction will:
 - Help you understand and benefit from the model faster
 - Take advantage of our 8+ years of experience in driving Industry 4.0 and Operational Intelligence
 - Minimize missteps and gain value quickly
 - Assist with the interpretation of results and identify potential next steps
- Our consulting will ensure you get the most from the model

Useful Links

- Articles / Webinars
 - [Excellence in Manufacturing Consortium \(webinar\)](#)
 - [TechImpact Podcast on Industry 4.0](#)
 - [Economic Development Journal Article](#)
- Blogs
 - [Industry 4.0 Blog](#)
 - [IT Leadership and Change Management](#)

Contact us

If you would like more information, please contact:



Martin Davis

Managing Partner, DUNELM Associates

Tel: 1-506-899-1153

E-mail: Martin.Davis@DunelmAssociates.com

[Dunelm Company site](https://dunelmassociates.com/) (<https://dunelmassociates.com/>)