Are You Ready for The Fourth Industrial Revolution?
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Technological innovation and manufacturing are coming together to re-invent the manufacturing industry. These advancements are being powered by:

- AI
- Robotics
- Nanotechnology
- Energy Storage
- Materials Science
- Quantum Computing
- Biotechnology
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These technologies will change the way we work, and the way we live—on a global level.
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Welcome to the Fourth Industrial Revolution

A.k.a., Industry 4.0
What does this Fourth Industrial Revolution look like?

Robots and humans work side by side, performing complex non-repetitive tasks.

Self driving cars become a reality.

3-D printing will produce complex products in one place—from furniture and medical devices to airplane parts and prosthetic limbs.

Consumers will be able to buy the products they want with the functionality and design they need—at the same speed as something that is mass produced.

Get ready for an industrial boom
unlike anything we’ve seen in decades

THIS WILL RESULT IN:

• An improved quality of life for communities around the world
• Higher income levels
• A huge network of knowledge that connects populations in new and exciting ways.

Productivity, which has been on the decline for decades, could increase by more than 30 percent in the next 10 years.
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What came before?
A history of our industrial revolutions

First Revolution: 1760 – 1840
- Steam and water power
- Mechanization

Second Revolution: 1870 – 1914
- Mass production
- Assembly lines
- Electricity
- Division of labor

- Automation
- IT
- Electronics

Fourth Revolution: Underway
- Robotics
- Cyber-physical systems

Industrial Revolution refers to any movement in which machines impact manufacturing methods and people’s way of life.

There will be requirements to thrive in Industry 4.0
Business leaders need to be ready.

You will need agility and speed.
Time will move exponentially, not linearly.

You will need to accomplish more with fewer people.
AI, robotics and automation will perform repetitive jobs.

Only the lean and mean will survive.
Cutting costs and maximizing growth is the name of the game.

You’ll need flexible processes.
Factories will be smaller, more agile. Scale will give way to customization at a mass production speed.

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Many organizations and their teams aren’t prepared for the future

Current project systems can’t manage the influx of productivity.

The age of mass production, where parts travel between factories all over the world, is going to be a thing of the past.

Industry 4.0 is going to evolve into smaller regional factories that will mass produce made-to-order products—requiring fast and flexible processes to keep up with demand.

Do you think old world technology will take you into this next industrial revolution?

If you’re using spreadsheets, static Gantt charts or non-collaborative non-automated project management tools—you’re applying second and third revolution tools to fourth revolution needs.

The first spreadsheet was invented in 1979.

The Gantt chart was first developed in the 1910s.

This popular scheduling tool has historically been tied to rigid start and finish dates, and isn’t flexible enough to reflect changes in real time. This is counter-productive for teams that are inventing first-time products!

Microsoft Excel came out in 1987.

This is a static tool that requires constant manual updating, and prevents teams from sharing schedules and updating plans.
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Many organizations and their teams aren’t prepared for the future. Current project systems can’t manage the influx of productivity. The popular scheduling tool has historically been tied to rigid start and finish dates, and isn’t flexible enough to reflect changes in real-time. This often compromises future product development and increases time to market.

Do you think old world technology will take you into this next industrial revolution?
The new rules of the game:

Being **flexible** is going to be the key to managing productivity and to business success.

The organizations that will lead us into the next revolution will use work management tools that are fast and flexible enough to stay ahead of the incoming changes.

Do you have what it takes to be **Industry 4.0 ready**?

7 signs you don’t have the right tools in place for the new age of manufacturing

1. Interdependent teams work at cross-purposes because they have no way to stay on top of each others’ progress.
2. Projects and deliveries are often late.
3. Your supply chain is over-extended and chaotic.
4. A chronic state of panic runs through your projects.
5. Customers are dissatisfied. You’ve even lost a few over the years. Some are hanging by a thread.
6. Employees are leaving. Team members are overworked and burnt out.
7. Competitors are beating you to market. You risk becoming irrelevant.
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So what does an Industry 4.0 project management tool look like?

- **Flexible and nimble**
  Smart software moves with the unpredictability inherent to manufacturing projects—and moves work forward.

- **Data driven**
  Every touchpoint of progress creates a rich vault of project data used to make important decisions—even on the fly.

- **Schedules update automatically**
  No more time-consuming manual updates. The new world demands software that keeps up with every project change along the way.

- **Radically collaborative**
  All team members (and teams) have an unprecedented ease of communication and project tracking to see the small and big picture at all times.

- **Supports more innovation, less administration**
  Smart software trades in the time-consuming job of wrestling project schedules for strategic thinking and using skillsets in meaningful ways.

- **Real time progress and resource allocation**
  Software of the future integrates availability into schedules—to show managers who’s working on what and make the needed adjustments.

You’ve got this

It might feel like you have to re-examine the way you do things . . .

like manage projects and everything that goes into that. But—you’re already in the business of being relentlessly innovative!

By bringing this innovative eye to how you manage the workflow of your projects—you’ll be one step ahead of the pack as we move into this new era of industry.

We are on the edge of a bright future in manufacturing and technology.

Give your team the tool to prosper.
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Be ready for anything

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Get Started for Free
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References:

The Next Manufacturing Revolution Is Here
Olivier Scalabre, TED

The Fourth Industrial Revolution: What It Means, How to Respond
Klaus Schwab, World Economic Forum

A Brief History of Spreadsheets
D.J. Power, DSSResources.com

Spreadsheet
Wikipedia

The Second Industrial Revolution, 1870 – 1914
Ryan Engelman, U.S. History Scene

The Four Industrial Revolutions
Hofstra University