

A family-owned manufacturer aligns technology with business priorities

A TESTIMONIAL FROM THE TECHNOLOGY HOUSE

LOCATION
Streetsboro, Ohio

OWNERSHIP
Family-owned

ENGAGEMENT
CESMII SM Roadmap pilot

Founded in 1996, The Technology House (TTH) is a women-owned, family-owned contract digital manufacturer with 77 employees, headquartered in Streetsboro, Ohio, with a machining facility in Solon. Under one roof, it takes products from design to prototype to production, combining engineering, additive manufacturing (3D printing), urethane casting, injection molding, CNC machining and finishing for aerospace and defense, medical, industrial and consumer products customers.

ManufacturingWorks introduced TTH to the CESMII Smart Manufacturing Roadmap, and TTH joined as a pilot company. The team saw a chance to come together and focus its energy on Smart Manufacturing through a clear, defined process.

The goal: grow by running more efficiently

TTH wanted to improve operating efficiencies, speed up customer quoting and improve on-time delivery.

It had already tried hiring more people, building a homegrown system for shop-floor visibility and buying a quoting system. The roadmap was built to make TTH more cost competitive for higher-volume production opportunities.

CFO Lauren Good brought a cross-functional view, and the core team spanned upper management, middle management and the shop floor, led by one of TTH's engineers.

"The roadmap was a very intense process for us to work on the business instead of in the business," Good said. "Without the support of both Visual Decisions and ManufacturingWorks, we most likely would not have moved forward."

With 11 prioritized projects and milestones mapped over three years, the team is more focused on the improvements with the highest financial returns. The roadmap also guides TTH's production expansion and its plan to create 72 new jobs over the next three years, helping it increase throughput while reducing costs.

IN PARTNERSHIP WITH

Results

55%
Reduction in setup time in the machining division with new equipment investment

8–17%
Reduction in machine cycle time across the current portfolio of production parts

~50%
Estimated reduction in time to quote a project (initiative in progress)

THE ROADMAP AT A GLANCE

11 prioritized roadmap projects

3 years to execute the plan

72 new jobs planned

What changed

The roadmap gave TTH a fresh look at how it collects data and improves efficiencies, while giving it the ability to expand rapidly. Many of the 11 projects call for a cross-functional team, so they build on each other to deliver data and efficiencies across the entire company. What's next? Continuing to execute the plan.

> **"Since the roadmap, we are more focused on collecting and analyzing data to make calculated decisions. As we look at new investments, we focus on how each one will bring improvements and efficiencies to the overall company instead of on a project-by-project basis."**
>
> LAUREN GOOD, CFO, THE TECHNOLOGY HOUSE

SM ROADMAP INITIATIVES: CURRENT FOCUS

New equipment to cut setup and machine cycle time

Automatic data collection to reduce manual time and errors

Cross-functional projects across departments







See what's possible for your organization.

A CESMII Smart Manufacturing Roadmap aligns your people, processes and technology to accelerate results and minimize risk.

Get Started Today!

ABOUT CESMII

CESMII – the Smart Manufacturing Institute – has a total current investment commitment of $201M from Department of Energy funding and public/private partnership contributions, with a mandate to create a more competitive manufacturing environment in the US through advanced sensing, analytics, modeling, control, and platforms. CESMII is one of 17 Manufacturing USA institutes on this mission to increase manufacturing productivity, global competitiveness, and reinvestment by increasing energy productivity, improving economic performance and raising workforce capacity. For more information about CESMII, its history and Smart Manufacturing, visit cesmii.org.

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