



Responsibly changing the world of metal manufacturing

www.plus-mfg.com



The Problem:
Current metal manufacturing processes are slow, costly, dangerous, and harmful to workers and the environment.

The Solution

Our disruptive yet practical metal additive manufacturing system for industrial applications, prototype to production.



The Solution

Our system uses the revolutionary Plus Mfg AMD™ process which is faster, cleaner, safer, and less expensive than any other process in existence, *while being 20% to 80% more energy efficient.*



FASTER



CLEANER



SAFER



LESS EXPENSIVE

What is the **best** way to make a metal part?

Safety,
low cost

Wire
feedstock

Energy
efficiency

Arc
melting

Minimum
material

Additive
Mfg.

WAAM

Wire Arc Additive Manufacturing

WAAM

Wire Arc Additive Manufacturing

Less heat

Lower
power

Increased
speed

Quench

Uniformity

Temp.
control

Lower cost

Non-stick
surface

Safety,
Less gas

Enclosed
process

Many
more

Unique
synergies

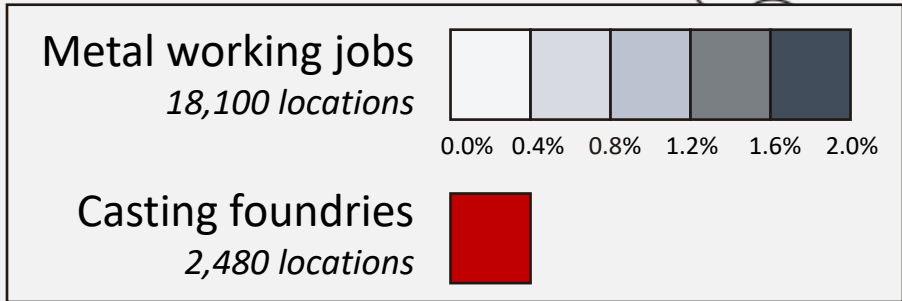
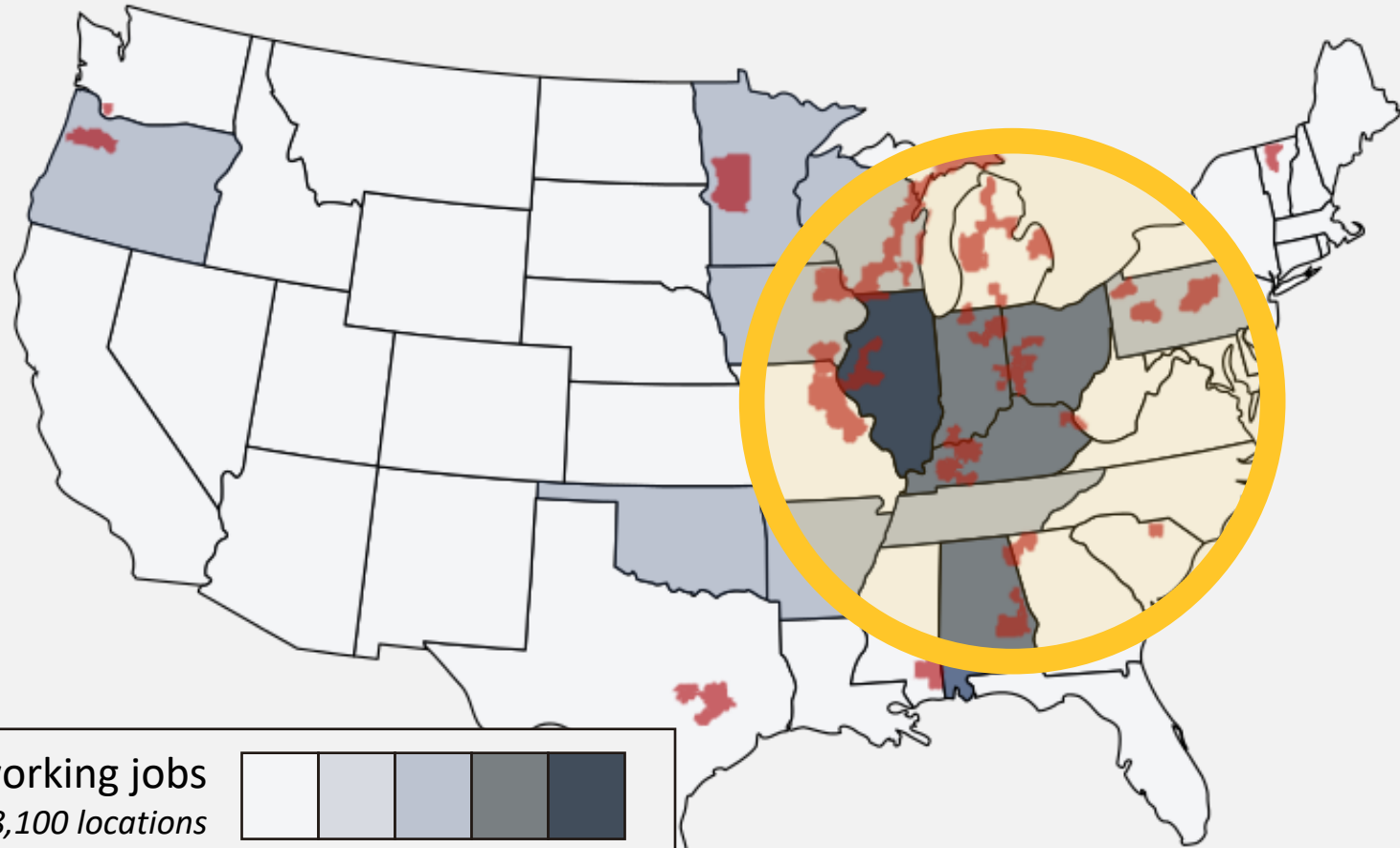
**Plus Mfg AMD™ is now the best
way to make a metal part...**

**... for:
prototype,
tooling,
low volume *and*
high volume production.**

Responsibly Changing The World

- ✓ Enhances agile supply chains
- ✓ Speeds development and time-to-market
- ✓ Enables advanced designs
- ✓ Reduces part and production costs
- ✓ Lowers energy consumption
- ✓ Eliminates toxic manufacturing waste
- ✓ Minimizes scrap and recycling costs
- ✓ Catalyzes manufacturing reshoring

14,000 Customers In Our Backyard



Target Applications

Initial Targeted Applications

- + Custom cast parts
- + Preforms for forgings
- + EV suspension components

Mid Term Targets

- + Foundry tooling
- + Injection molds
- + Automation tooling

Long Range Targets

- + Every metal part made

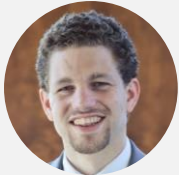
Company Leadership

- + Founded in 2014, Plus Mfg LLC is a Northern Kentucky-based start-up
- + Leadership team is directed by a board of governors.



Tom Kruer, *Co-founder, CIO, BSME, MBA*

Tom has been involved in or led over 300 new product development projects at 40 different firms around the world. Plus Mfg, LLC is his tenth startup company.



Stephan Abt, *Engineer, BSME*

Stephan is one of our talented, young Engineers that form our innovative “design wolf pack”. This four-person team is tasked with designing the production system to be of the highest quality, while being easy to fabricate and eventually assemble around the world.



Pam Jackson, *Marketing, MS*

Pam has over 35 years in the corporate hi tech industry in both international B2B marketing and sales. Vast experience in launching new products to market.



Gerald Planck, *Business Consultant, BA*

Gerald brings 20 years of team management, development and finance experience to our team. Facilitator of our YP Group, he is accelerating company growth with fresh ideas, developing next-gen leadership and supporting succession planning.



Karen Zerhusen Kruer, *COO, JD*

Karen has over 25 years of experience in senior management and executive roles in complex organizations. Background in governance, operations, investment, finance and administration.



Ben Westermeyer, *Production, BA*

Ben has proven himself as a Process and Quality Control Engineer at Tier One automotive suppliers. His experience as a machine builder for the aerospace and automotive industries is being brought to bear setting up our production facility.



Dave Zerhusen, *Logistics, BSBA*

With his extensive experience at FedEx and P&G, Dave represents a great asset when we start moving our machines, upgrade modules, and wire feed stock out to our customers around the country.



Melanie Burden, *HR and Organizational Development*

Melanie believes that organizations can thrive and become the best that they can possibly be by incorporating effective human capital management.

Partners

Our team is joined by Tier 1 vendors and key strategic business partners seeking diversification.

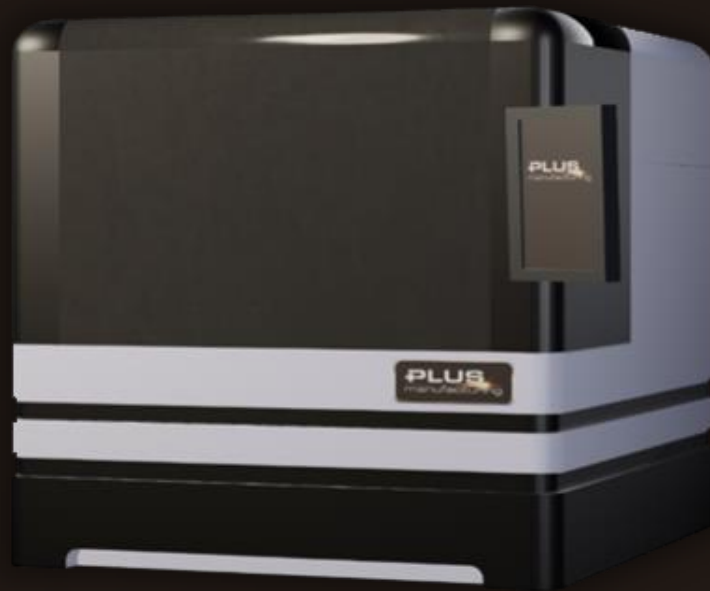




**We're thinking big:
With our
technology, drive
and vision,
we can obsolete
all metal casting
foundries by 2030.**



Thank you!



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