

Economic Development Update

Economic Development Appropriations



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January 30, 2014

Today's Presentation:

- Updates
 - 3D Printer
 - Advance Iowa
- New Initiatives
 - Supporting Entrepreneur Growth



Rapid Casting Technology

- Operated under the direction of the UNI Metal Casting Center
- Largest printable area available in any 3D printer in North America and can produce molds for virtually any metal alloy



Rapid Casting Technology

- Located off Campus at the Cedar Valley TechWorks
- Provides a solid starting point for the Iowa Advanced Manufacturing Center



Status Report

- August 22, placed order for equipment
- September 9th, printer arrived on Boeing 747 from Germany
- September 27th installed the printer
- October 14th started printing 1209 lbs. of prototype cores for Deere & Company
- January 22nd received America Makes (NAMII) award
- Currently working with 20 private industry companies, 4 universities and 5 state and federal organizations

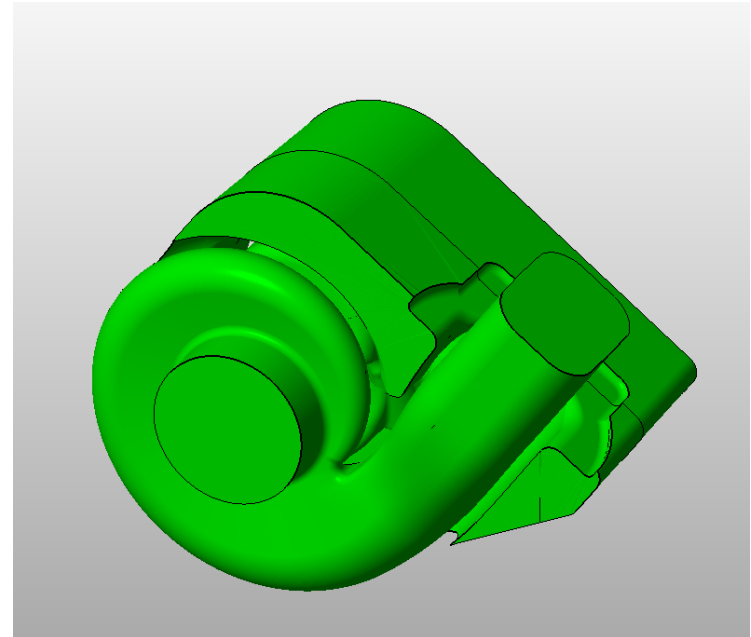
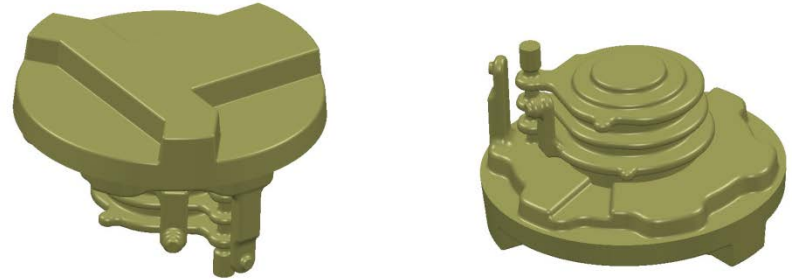
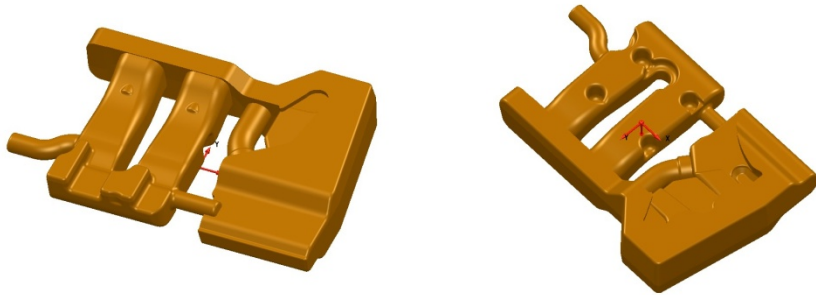
Rapid Casting Technology

- Provides the ability to support Iowa Manufacturers including :

- Deere & Company – New Tractor Build – New Engine Prototypes
- UES, Waverly – Limited production hydraulic swivel castings
- Emerson Process Control – Replacement of Imported Investment Castings
- Caterpillar – Wear bushings
- Vermeer Manufacturing – Wear Plates
- See Bee Foundry – Turbo Housings
- Viking Pump
- Wellman Dynamics Fansteel
- American Pattern Company

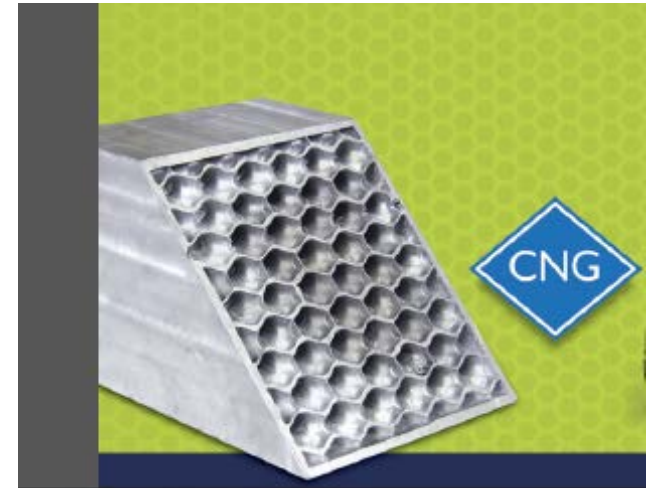
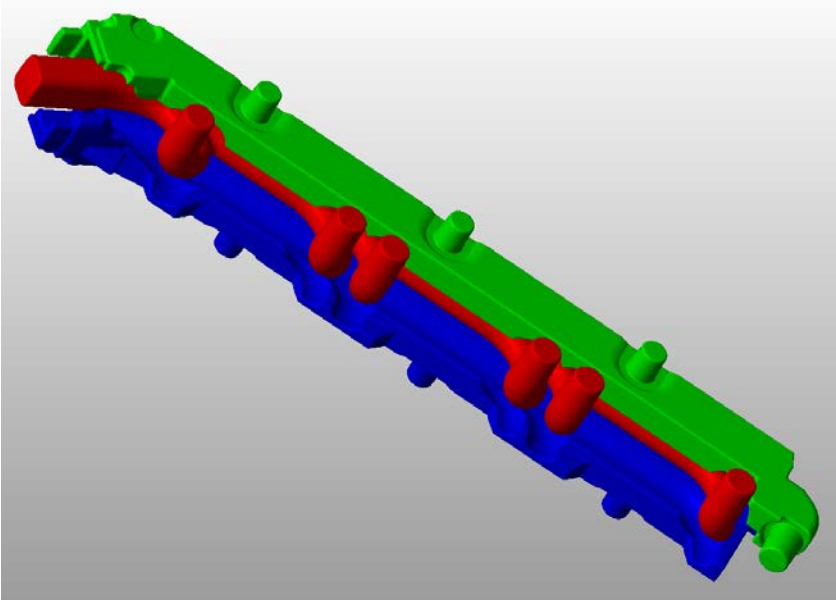


Keeping Iowa Companies Competitive



Transforming Imagination into Reality

Conformable Natural Gas Tank



Water Cooled Exhaust Manifolds

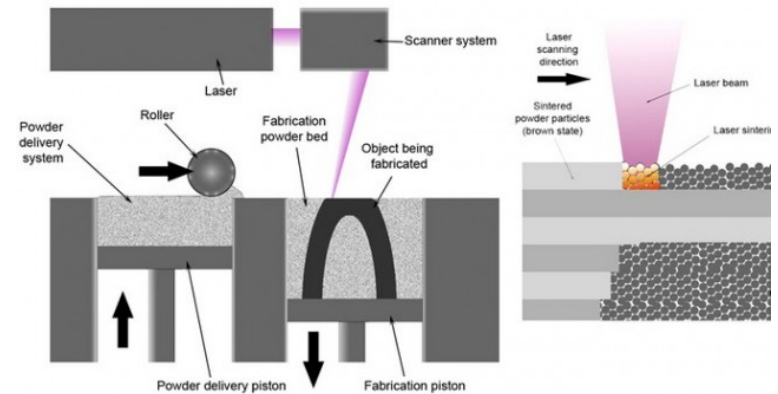
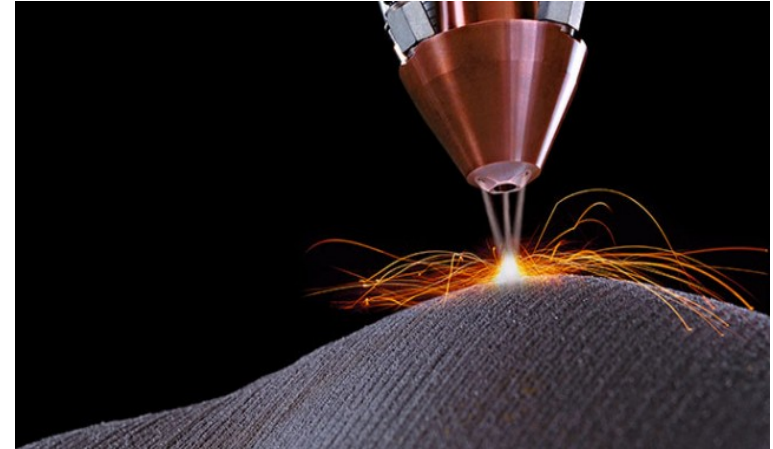
Next Phase of 3-D Printing – Direct Metal



Bonded Metal,
Furnace
Infiltration

Laser Sintered,
Direct Metal
Printed

Electron Beam
Sintered,
Direct Metal
Printed



Direct Metal Printing

Making Iowa a Technology Leader

- Building on similar sustainable technology model as currently being used in Sand Mold Printing
- Ability to provide advanced technology solutions to almost any manufacturing company in Iowa
- Ability to integrate alloys, materials and expertise that are “Iowa Home Grown”
- Ability to attract additional funding through leveraging of advanced technology resources
- Continued sustainability for UNI, IIC and TechWorks through IAMC

Advance Iowa: Iowa's Economic Gardening Program

**Dan Beenken,
Program Director**

**Anita Messerschmidt
CEO, Embark IT**



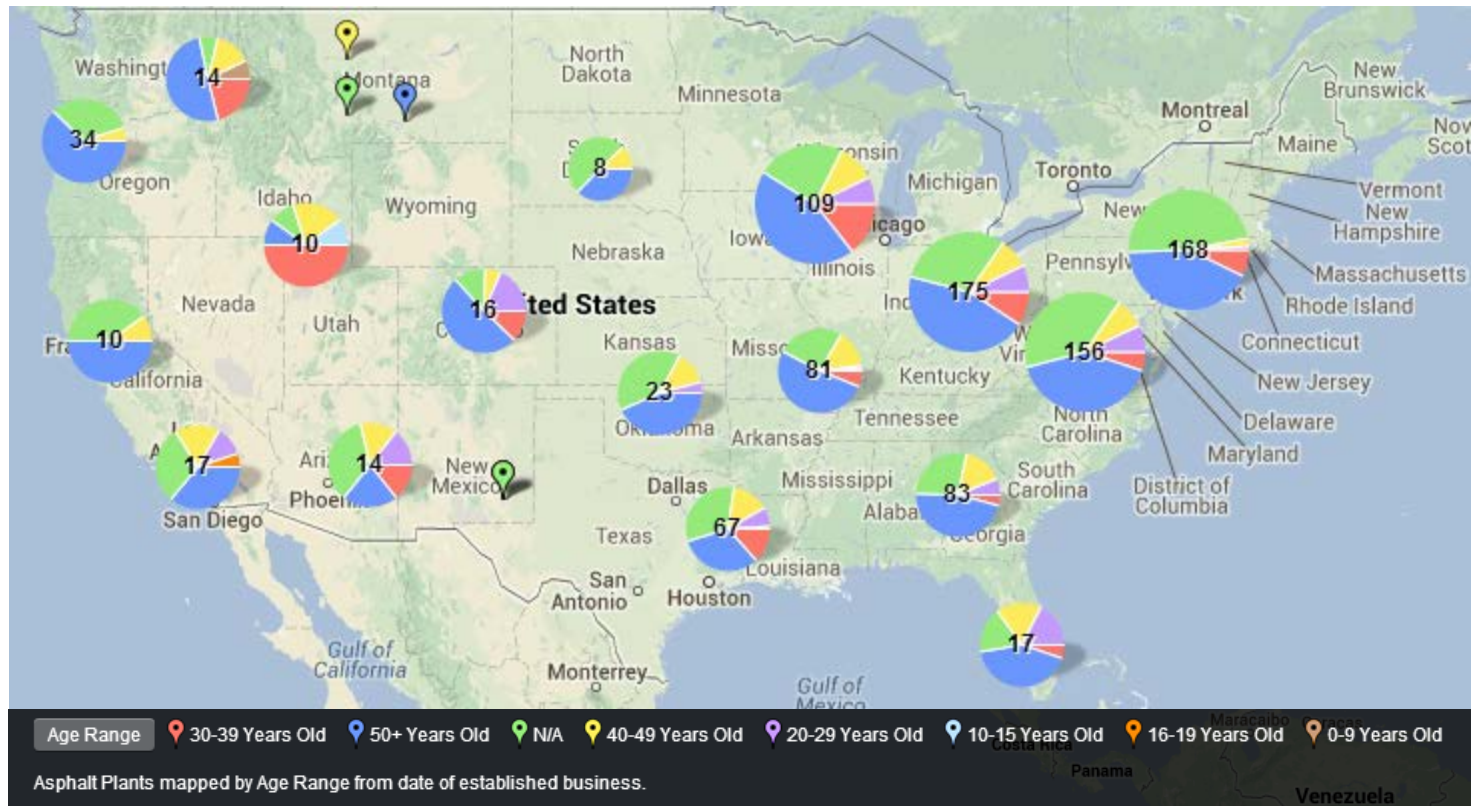
What is Economic Gardening?

- Economic development program focused on growing existing mid-sized Iowa firms (10-100 employees)
- Engages tools and resources that these firms would not be able to access otherwise
- What is Provided?
 - Custom research
 - New Media/E-commerce analysis
 - Competitive intelligence
 - Sales leads
 - Market/Industry Research





Example Report For Systems Equipment – Waukon, IA



Client Testimonial

EmbarkIT - www.embarkit.com

Anita Messerschmidt, Owner/CEO

- IT services firm based in West Des Moines
- Project focused on market research, creating a target customer profile, competitive intelligence, and web strategy

Supporting Entrepreneur Growth

Iowa Business Concierge



**800 Small Businesses
Served - All Online!
Goal – double those served
Add to local development websites**



- Ask Us Anything

Referrals
Mailing lists
Demographics
Competition info
Industry trends
Grants/loans

Supporting Entrepreneur Growth

Advance Iowa

- Peer roundtables



Apps Lab - JPEC

- Expand pilot phase
- Support entrepreneurs

Dream Big – Grow Here

- More Partners

IASourceLink



Thank you.

For more information, please visit

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