

ADVANCED MANUFACTURING FOR INDUSTRY 4.0

PRESENTED BY ZAK A. KONAKIS, MPH

OUR MAIN TOPICS TODAY

Identify Industry Partners Who Are Willing to Experiment

Know Your Team and Your Role

Adapting to New Information

Luck and Opportunity find the Prepared

**BUT FIRST SOME QUICK
BACKGROUND**

2020

THE YEAR SOME STUFF HAPPENED.

**COVID-19 AND
PATHWAY CREATION**

40 DAYS

WE TOOK THE GRANT FROM IDEA TO
ENROLLMENT IN 40 DAYS.

BIG IDEA #1

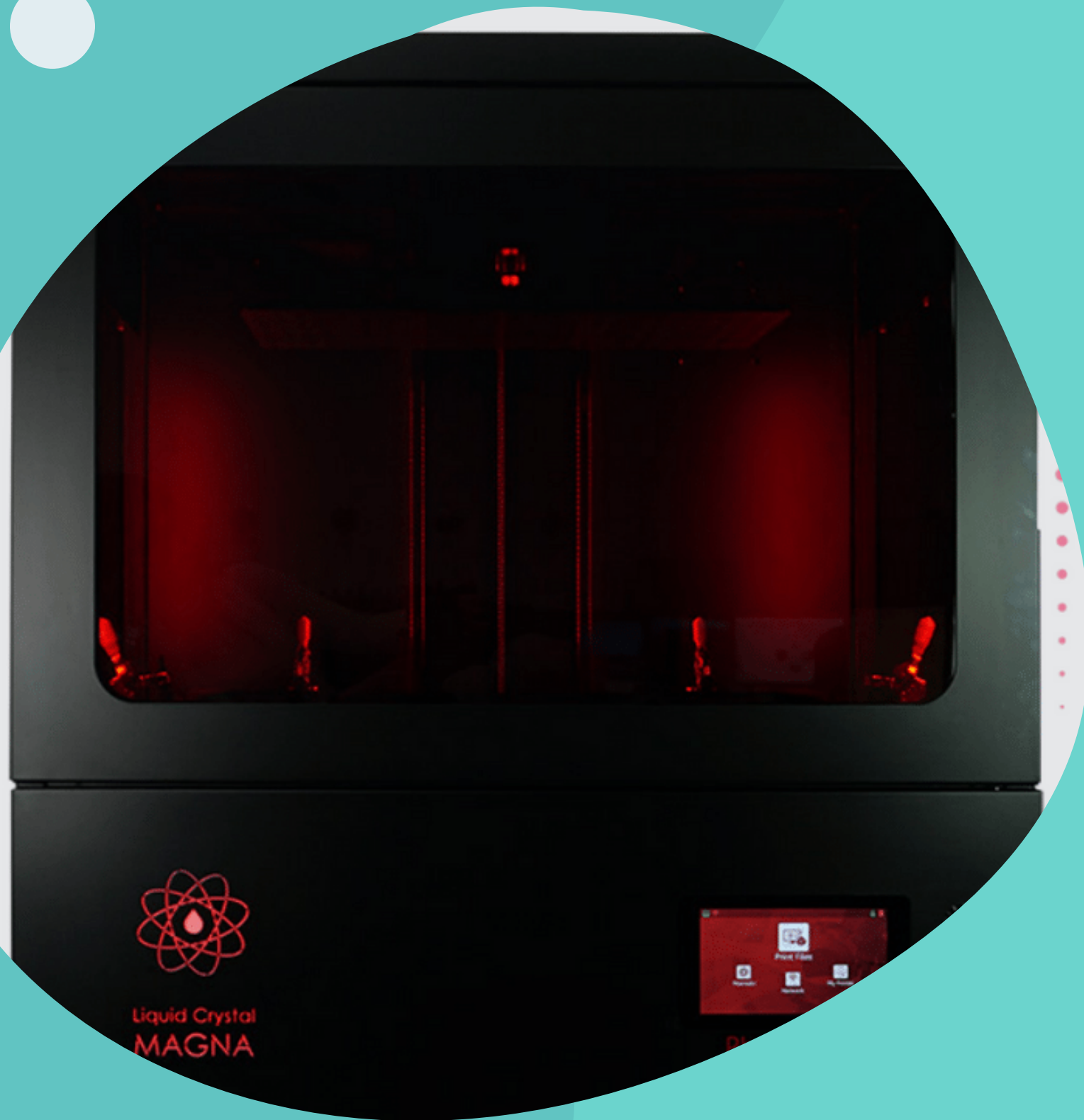
PATHWAYS ARE STRONGER WITH
STAKEHOLDER BUY-IN

What Is *Industry 4.0*?

AND WHO CARES ABOUT CARES?

3D PRINTING AS THE NEXT INDUSTRIAL REVOLUTION

Bespoke product creation with an emphasis on intentional and embedded revisions streamline the manufacturing and design process allowing companies the ability to scale or modify on-the-fly.





IDENTIFY WHERE YOU ARE FIRST:

We have varying levels of abilities and we need to understand what is in our wheelhouse and where we will need to request some assistance.



Creating A Pathway for Emerging Technologies

Creating intentional standards that are going to stand the test of time by looking at the big picture and finding the people who can help.





**OPPORTUNITIES COME
TO THOSE THAT ARE
PREPARED**

Contacted on a Friday and Grants
awarded on a Monday.

BIG IDEA #2:

YOU DON'T HAVE TO DO IT ALONE



GARY STRAQUADINE

Associate Vice President
CTE for the Southeast
Utah State University



TYLER AGNER

Data Analyst
Utah State University



JAMIE CANO

Associate Vice Chair
Utah State University

A bit of History before we visit the Present:

WHO LAID THE GROUNDWORK AND WHY DID THEY KNOW
TO ASK US IF WE HAD ANY IDEAS?

GOVERNOR'S OFFICE OF ECONOMIC DEVELOPMENT

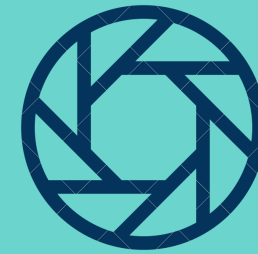
RURAL MANUFACTURING PATHWAY INITIATIVE
EST. 2017



16 Credits



One Semester



Lab Space at Merit-3D



Create State Visibility

BIG IDEA #3

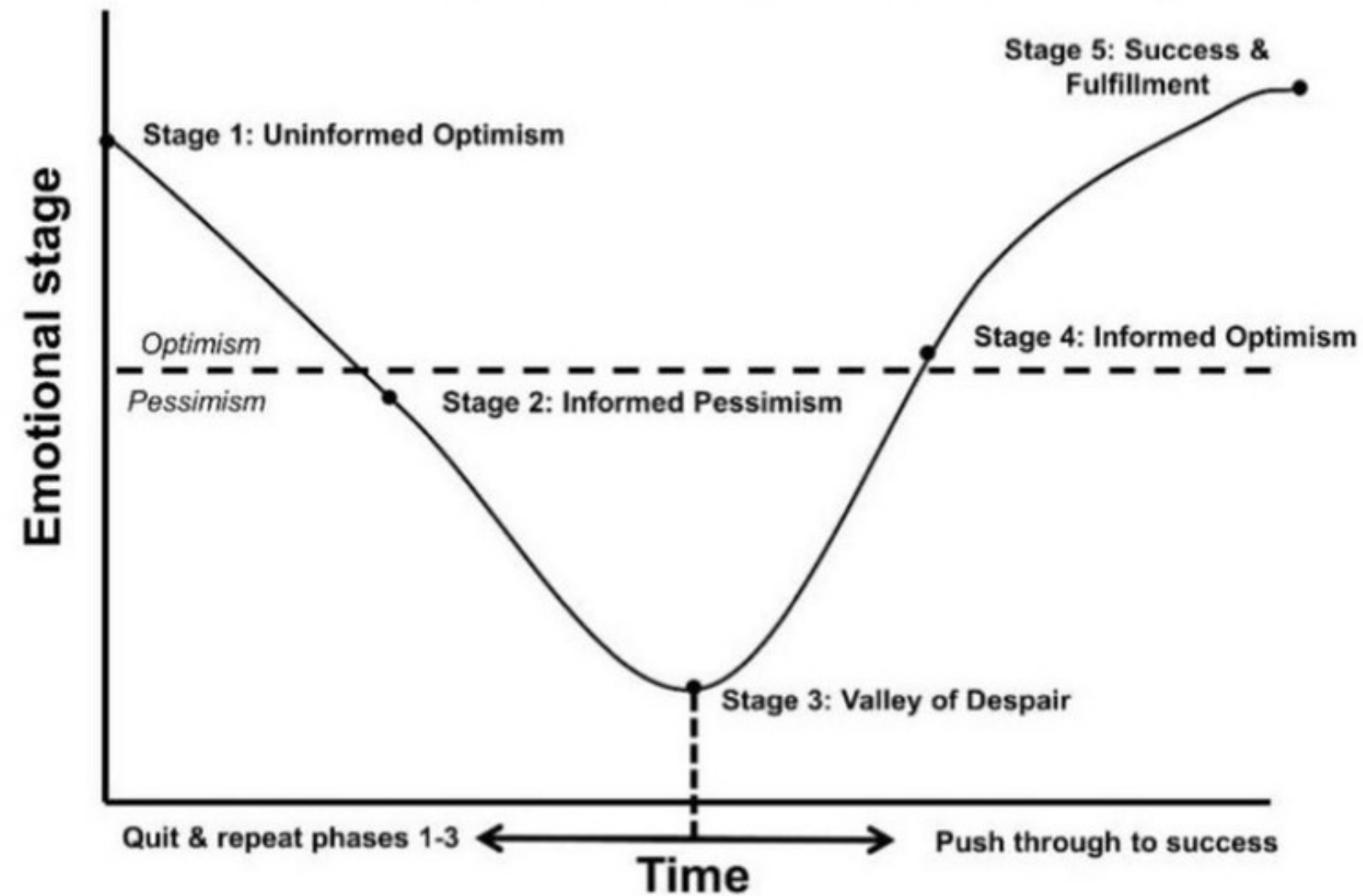
SOMETIMES BEING A TRAILBLAZER MEANS YOU GET
YOUR SHOES MUDDY.



**YOU WILL FEEL LIKE YOUR
PROJECT IS A DISASTER**

IT'S ALL PART OF THE PLAN.

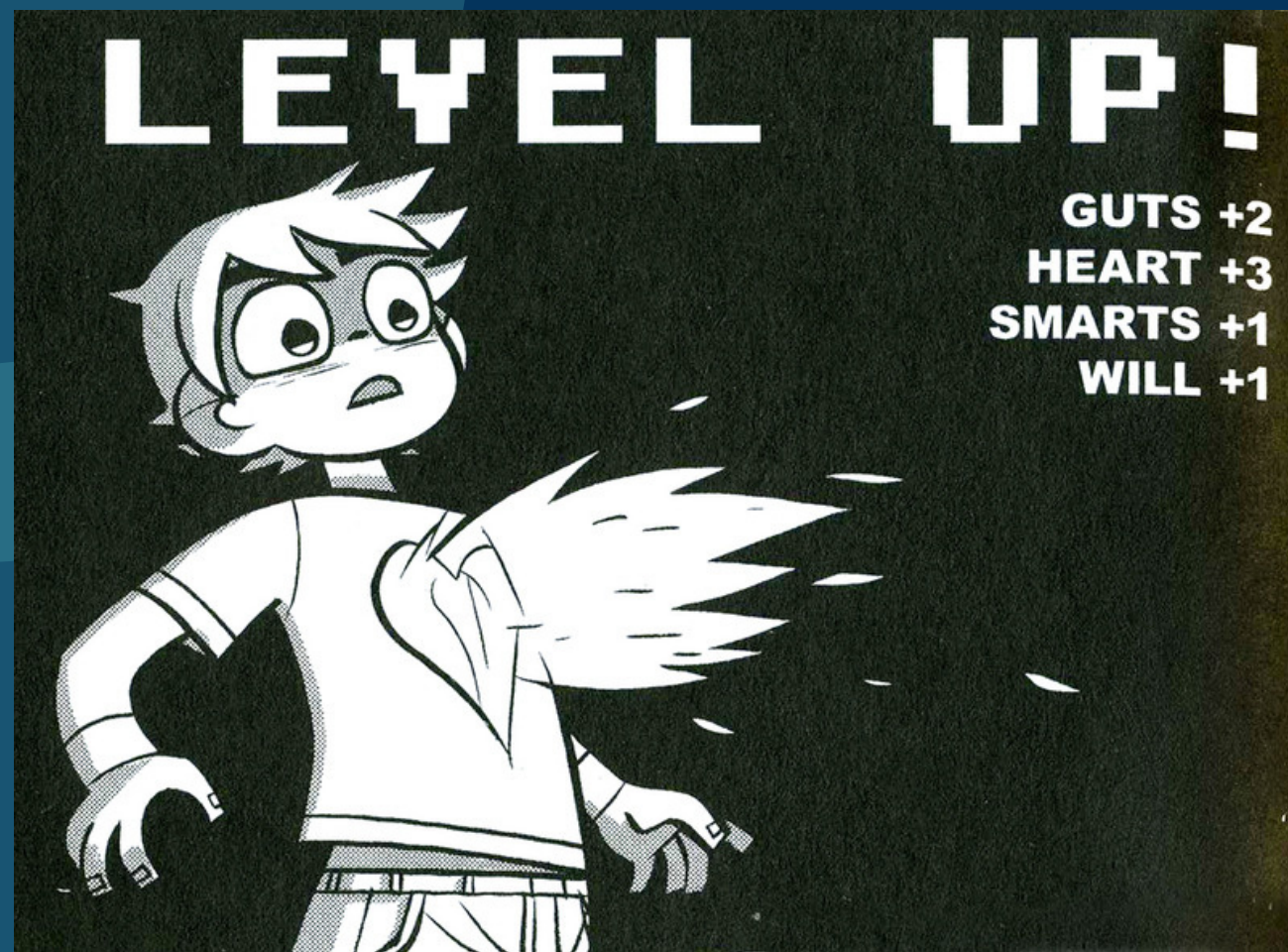
The Emotional Cycle of Change



RIDING THE WAVE OF CHANGE.

See also: The Dunning-Kruger effect.

Use your excitement to fuel through the time that it takes to push through to success.



LEARN TO LEVEL UP:

Identify obstacles as opportunities to grow.

TEMPORARY SETBACKS:

Adapt and overcome the difficulties of change.

ALLOW OTHERS TO DOUBT:

Not everyone will buy off on your vision, but that doesn't mean they will never come around.

Future Plans for this Pathway:

THE MANUFACTURING INNOVATION CENTER



THANK YOU!

ANY QUESTIONS?