# Making the Future

Technology Education Conference UW-Stout, Oct 13, 2000 Steven Bomba, VP, Technology Johnson Controls, Inc. Futures don't just happen.
They are made.

# Making the Future

Can we copy and paste?

# Powerful People

- Information
- Insight
- Influence

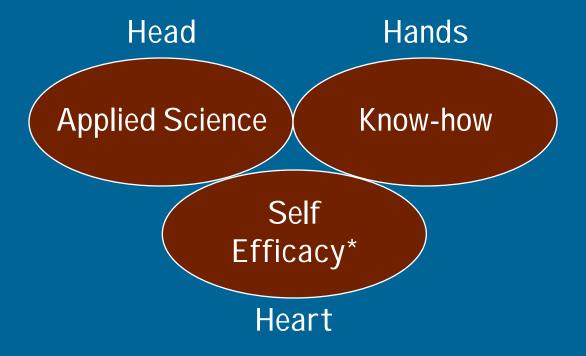
#### Innovating...

- Doing it better
- Doing it differently
- Doing something else

...with Technology

We know technology by what it makes.

# Technology is...



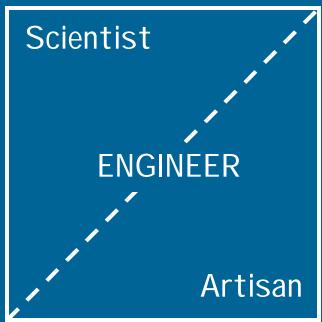
\*Mark Mone UW-Milwaukee

# Technology Practitioner s

Science Based

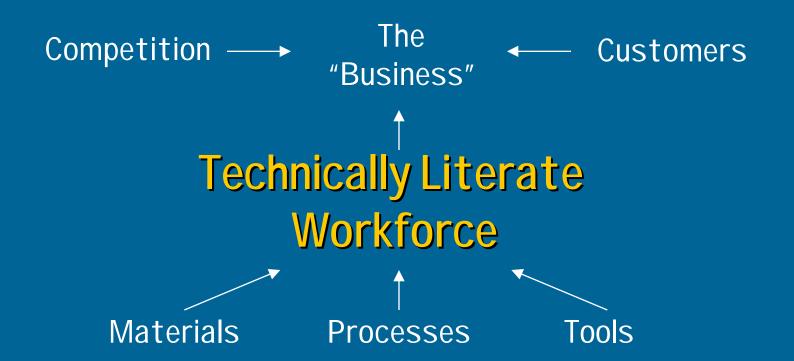
Experience Based

Knowing Knowing Why How



M.Dayne Aldridge Auburn University

#### Requirements are chang ing...



Teaching systems will change.

#### **Conventional Thinking**

Student + Teacher = Employer + Career

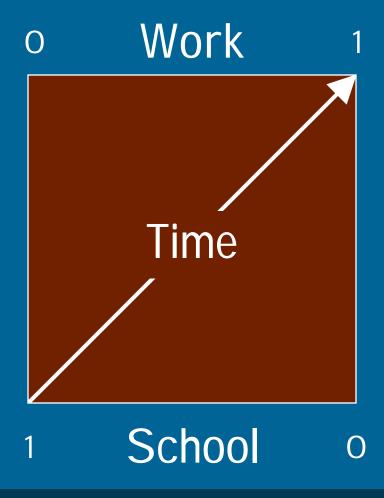
### Typical Activity Zones

Student + Teacher

Employer + Career

School: Lab, Classroom Work: Job, Office

# **Conventional Schooling**



Then the Internet happened.

#### Results

Complexity
Interdependency
Control
Risk









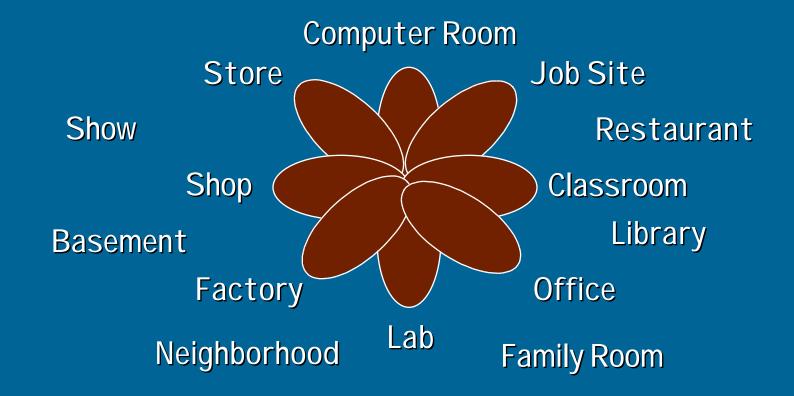
The Internet disintermediates teachers in schools.

The Internet disintermediates books in libraries.

Computers facilitate **Storing** Information and Storing **K**nowledge

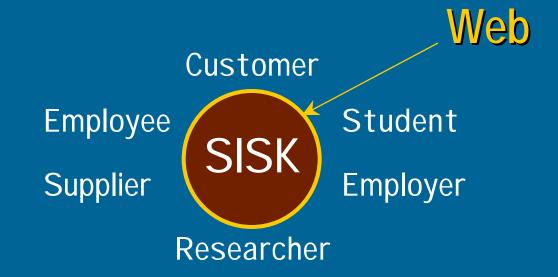
The "Web" facilitates Sharing Information and Sharing **K**nowledge

#### Learning Everywhere...



...with the omnipresent Web!

# **Learning Continually**



Shared Information and Shared Knowledge

#### **Educational System Needs**

- Facilitate lifelong learning
  - →Head
  - → Hands
  - → Heart
- Provide and nurture the SISK

**Teachers** stimulate students thinking and feelings...

#### In a world where you can:

- Remember everything about everything
- Find anything about anything
- Share Information and Knowledge

# What's more important?

- Basic Insight
- Established Methods

# Where we all experience...

- Ubiquitous Browsing
- Immediate Sharing
- Mediated Relationships

# Organizational Challenges

- Shared Vision
- Mental Model
- Personal Mastery
- Team Learning
- Systems Thinking

P.Senge Fifth Discipline 1990 Information
Insight
Influence

Head Hands + SISK = OUR Future Heart

# Teachers are Powerful Pe ople

The End

P.S.

#### The "make do" Gap

Delivery

Expectation

Possibility

Someone "making do"

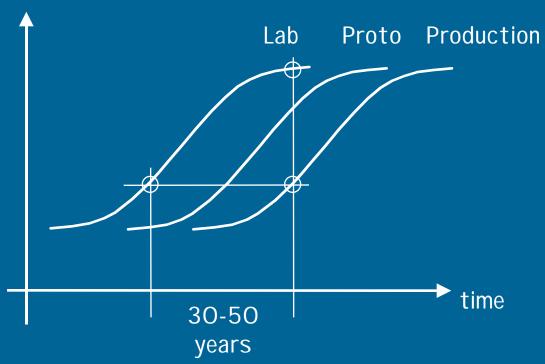


#### Axiom

Innovation is the root of sustainable competitive advantage.

# **Changes Move Slowly**





Taniguchi CIRP Annals, 1983