



What is Technology?

Introduction to Technology

So . . . What is Technology?

Is this a Technology?



. . . is this?

So . . . What is Technology?

How about this?



Can you define Technology?

The Definition of Technology

- *Human made products and processes that extend human potential and satisfy human needs.*



Areas of Technology

■ **Physical -**

- *Transportation, Manufacturing, and Construction*



A
N
D



A
N
D



Areas of Technology

■ Information / Communication-

- *Sending and Receiving of information (human or machine)*



Digital Disruption

The Digital Disruption Has Already Happened

- World's largest taxi company owns no taxis (Uber)
- Largest accommodation provider owns no real estate (Airbnb)
- Largest phone companies own no telco infra (Skype, WeChat)
- World's most valuable retailer has no inventory (Alibaba)
- Most popular media owner creates no content (Facebook)
- Fastest growing banks have no actual money (SocietyOne)
- World's largest movie house owns no cinemas (Netflix)
- Largest software vendors don't write the apps (Apple & Google)

Areas of Technology

■ **Bio Related -**

- *Prosthetics, human safety devices, cloning, environmental protection etc.*



Careers in Technology

Engineer
Architect
Computer Engineer
Astronaut
Drafting
Machinist
Biomedical
Telecommunications
Graphic Communications
Video Production
-and MANY more!

Who is a Technologically Literate Person?

■ *Understands*

- *what technology is*
- *how technology and its processes both work and are created*
- *how the use of technology shapes society*
- *. . . . and how society shapes the development of technology*



*Technology influences our
everyday lives!*

- *The “driving” force for society
and culture . . .*



C H E V Y

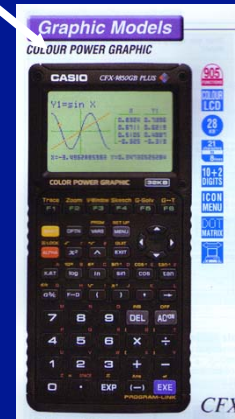
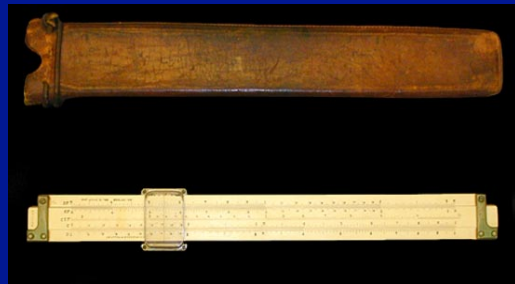


WE'LL BE THERE

GM

Technology influences our everyday lives!

- *The building blocks of other technologies*



Technology influences our everyday lives!

- *Legal, ethical, and moral decisions must be made . . . YOU DECIDE!*



MP3's



Technology influences our everyday lives!

- *Has consequences that are both positive and negative - expected or unexpected*



Consequences

EXPECTED



Positive

Negative



UNEXPECTED



Positive

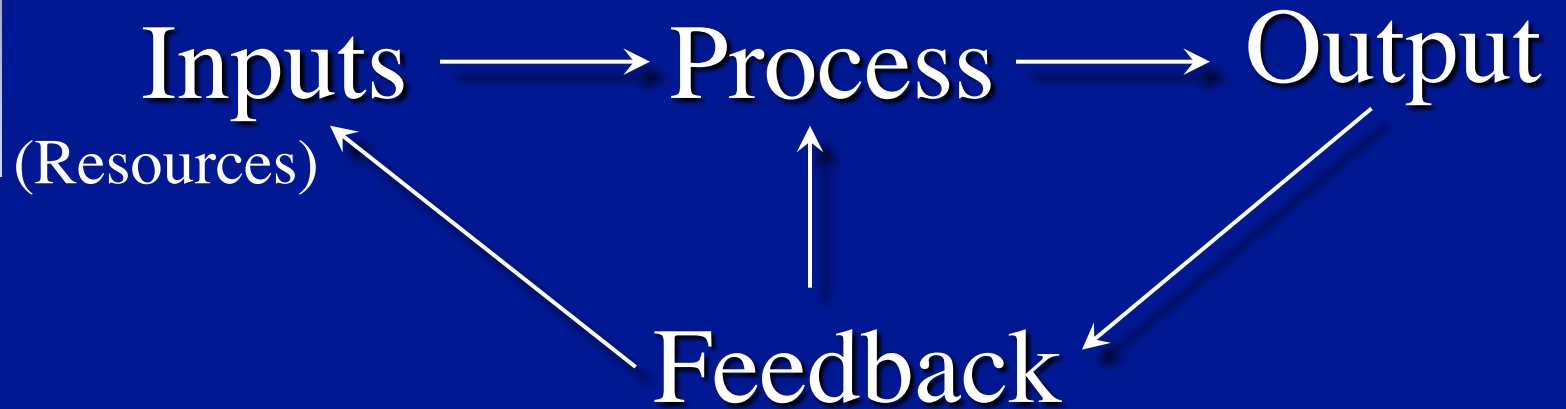
Negative



Systems in Technology

- *Technology is made up of systems.*
 - *Can you define “System”?*
 - *Can you name some systems you use everyday?*

The Universal Systems Model



All technological systems can be classified into this model.



Inputs of the system - RESOURCES

- *Tools / Machines / Processes*
- *Materials*
- *People*
- *Capital*
- *Energy*
- *Time*
- *Information*



* The 7
resources of
Technology

Problem Solving Process

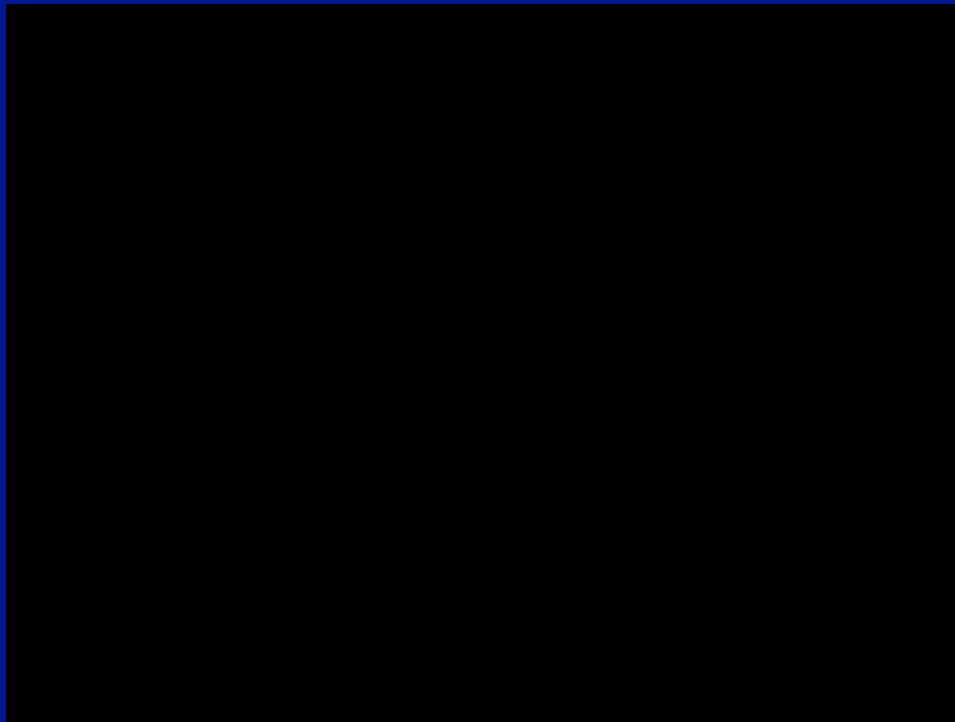
A decorative vertical bar on the left side of the slide, consisting of several overlapping rectangular segments in shades of grey, yellow, red, and light blue.

(Change to Problem Solving Presentation)



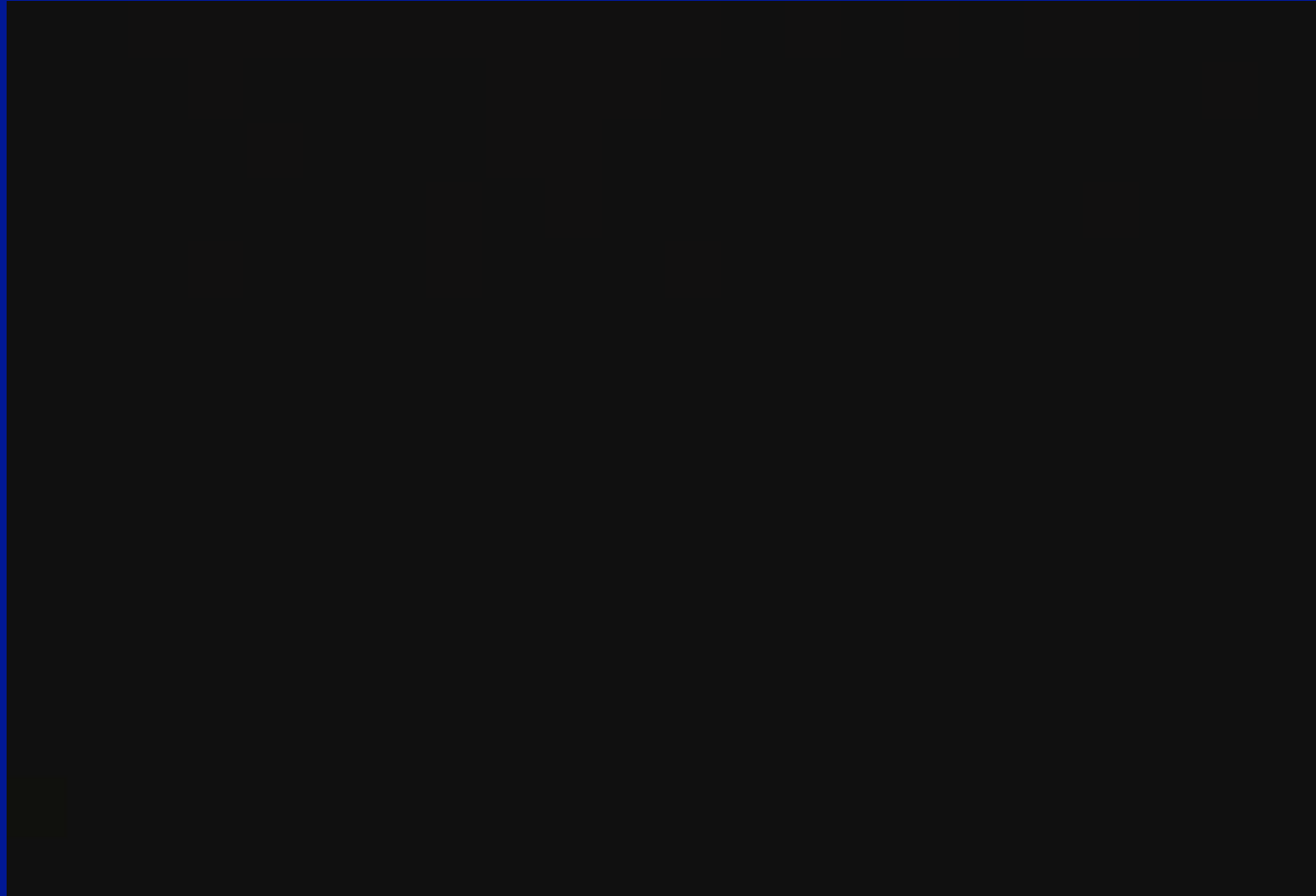
**Junkyard Wars =
Real-Life Problem
Solving in Action**

IT Industry Video

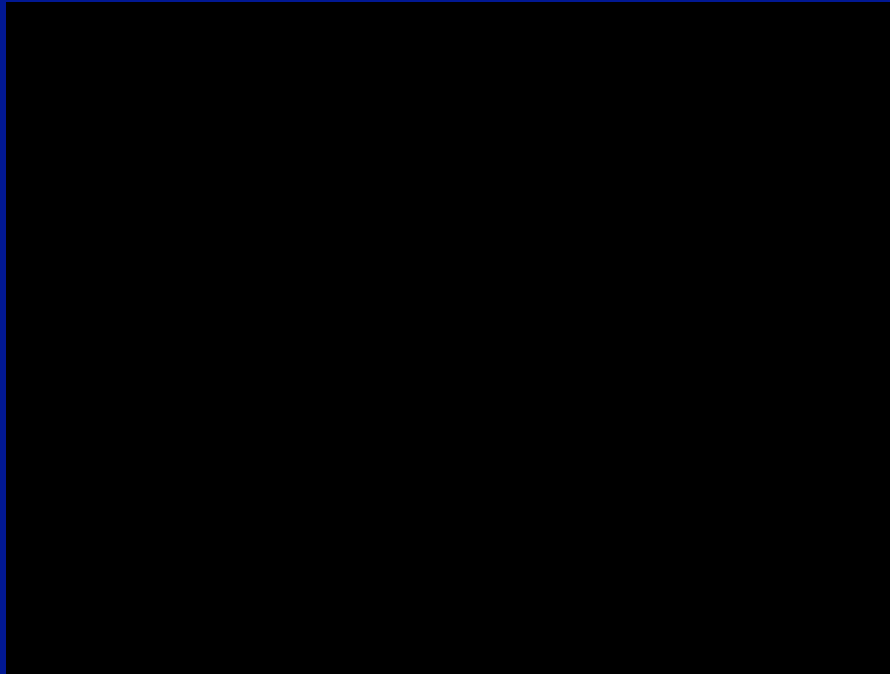


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Construction Trades Video



BIO-Engineering Video



...Give me 10-15 seconds to load up after clicking!