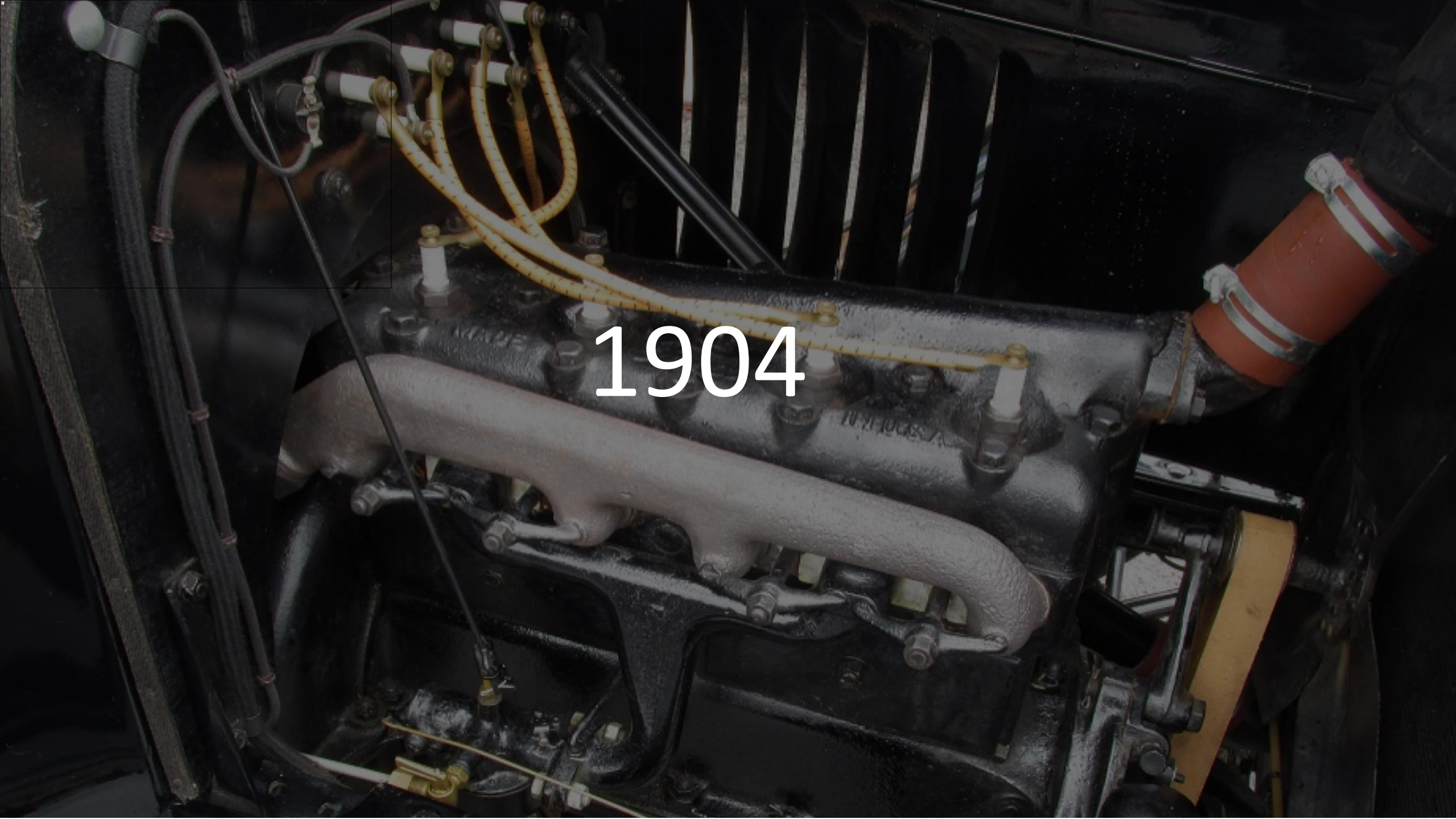
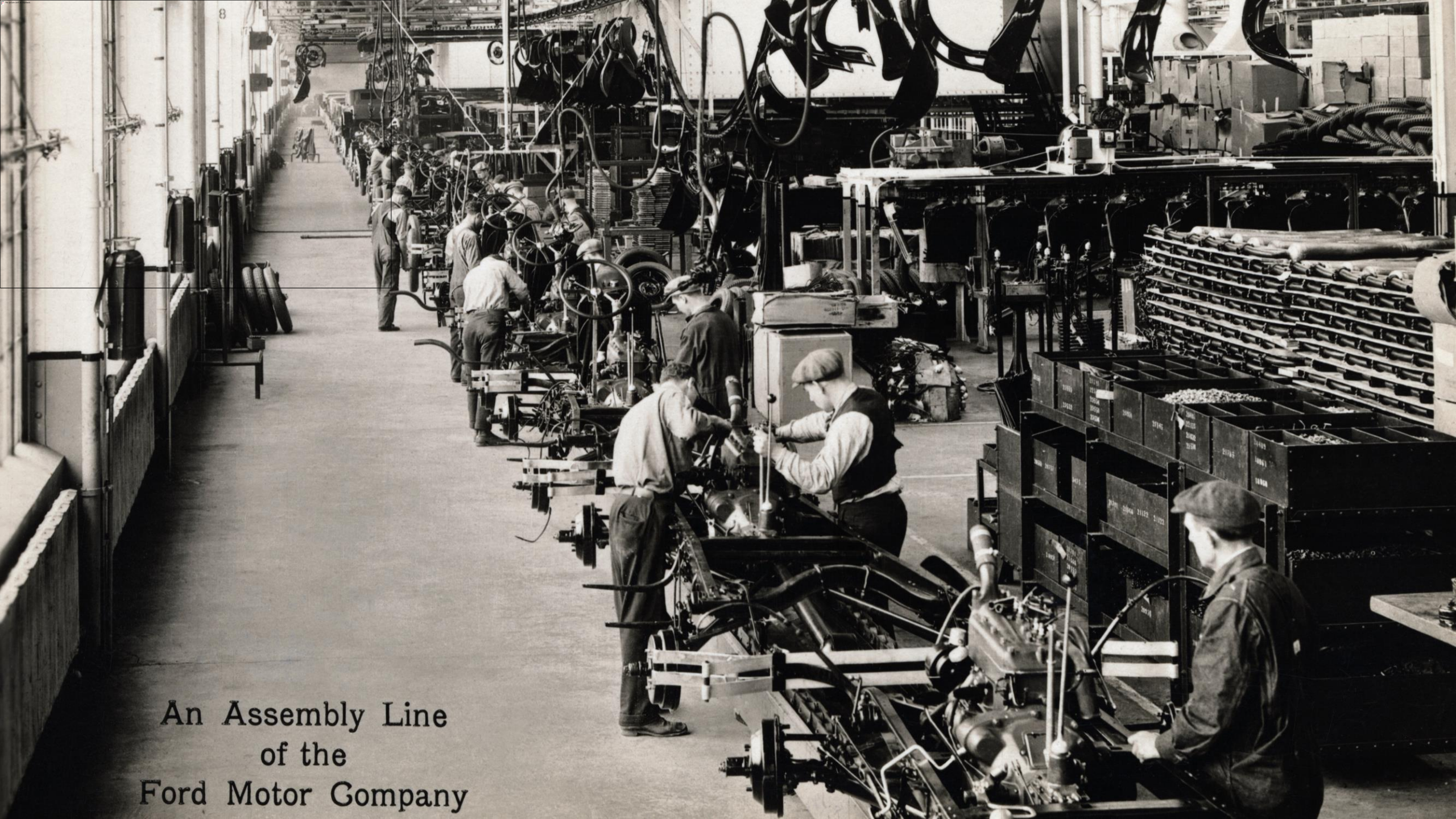
Visualizing the Future


1904



An Assembly Line
of the
Ford Motor Company

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Case Study

Virtual Reality (VR*)

Energy Management

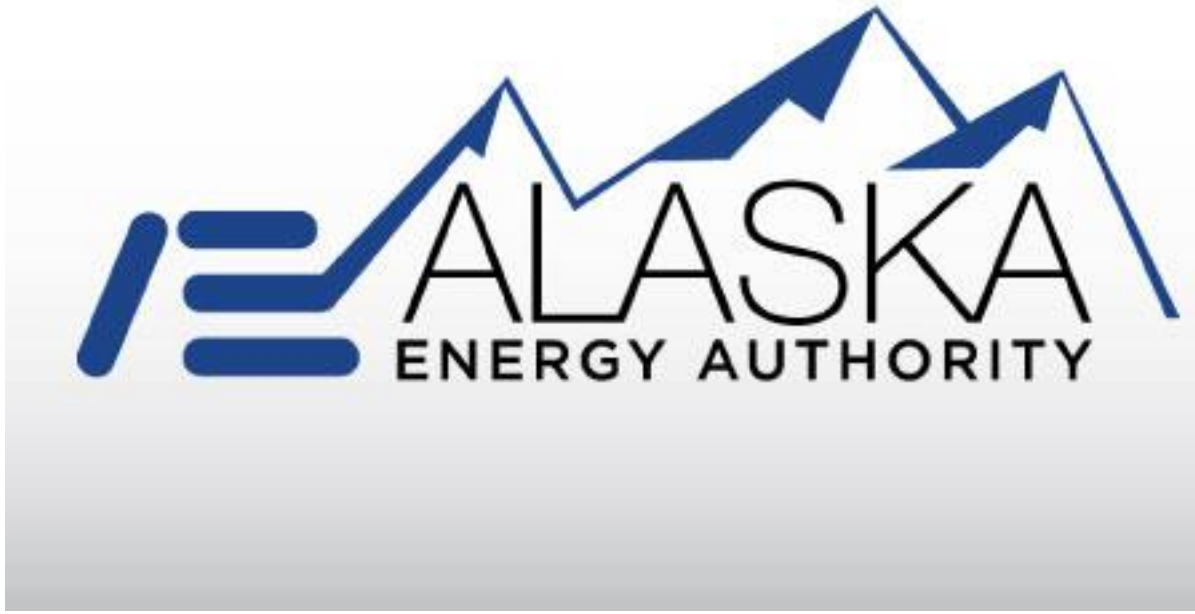
Alaska (SW*)

Erik OBrien – Economic Development Specialist

EMAIL:

eobrien@swamc.org

Initiating Event



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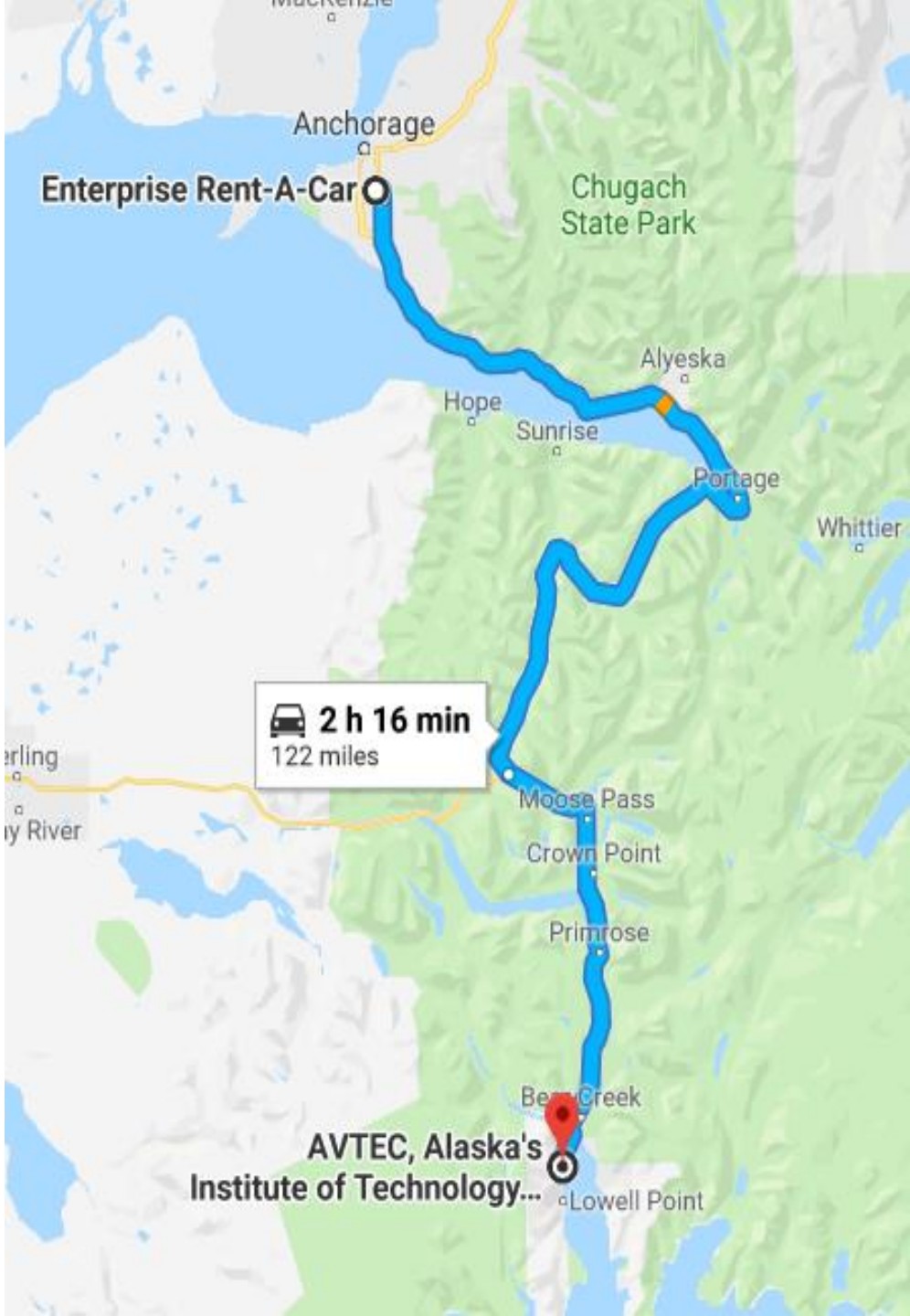
Anchorage
Enterprise Rent-A-Car
Chugach
State Park
Alyeska
Hope
Sunrise
Portage
Whittier
2 h 16 min
122 miles
Moose Pass
Crown Point
Primrose
Creek
AVTEC, Alaska's
Institute of Technology...
Lowell Point

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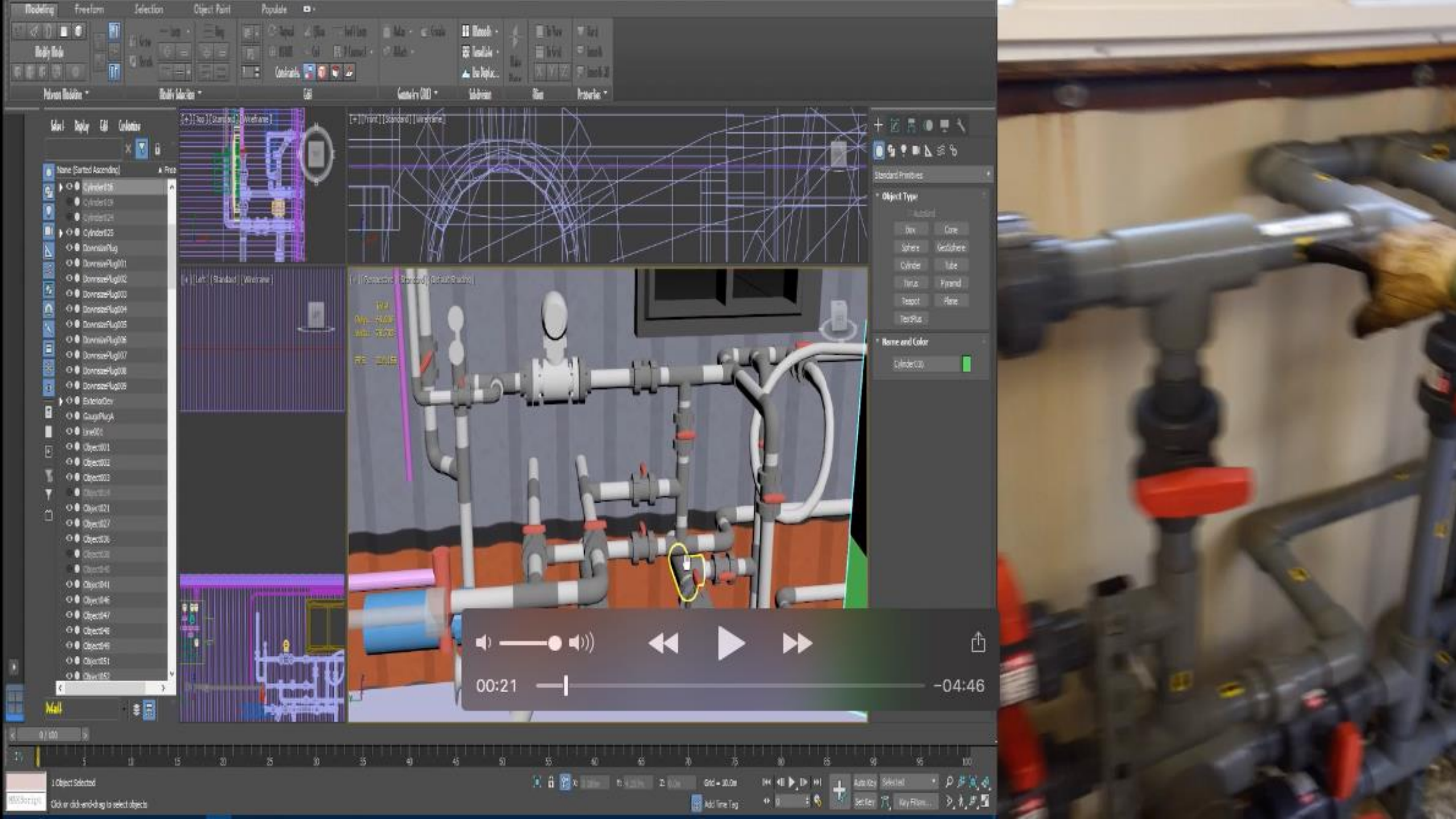
SWAMC


00:21
-04:46

DESIGNORI

WE DESIGN LEARNING EXPERIENCES

FORKLIFT

V1.0

©DESIGNORI 2019

TUTORIAL

SIMULATION

SANDBOX

CONTROLS

EXIT

ALASKA ENERGY AUTHORITY

Alaska Energy Authority

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Starter Motor Test

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Switch Gear Overview

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Sitchgear Manual Mode

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Switchgear alarms

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Power Plant Switchgear Batteries

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Reality Capture

Reality Modeling

Reality Projection

Reality Gamification

Reality Mining

Reality Experience

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Emergent Technology / Instructional Design				
Reality Capture (SENSES) Video Video 360 Auditory	**Reality Capture** (SPATIAL) Lidar Scanning Photogrammetry Augmentation	**Reality Mapping** (ENVIRONMENT) Auto Desk Suite AutoCAD 3DS Max	**Reality Modeling** (INTERACTIVITY) Game Engine Unity3D Unreal	**Reality Immersion** (VR IMMERSIVE) Virtual Reality Oculus HTC
Data Gathering / Data Analysis				

ALASKA-CENTRIC

Reality Projection

Designori
@richard

PUBLIC CHANNELS +
- Boardroom
- BOT
- Emulsification Project
- Forklift Project
- Instructional Design
- SAEVR Project
- Sales & Marketing
- Tanker Project
- Testing Lab Project
- Web Presence

More...

PRIVATE CHANNELS +
- Identity
- Management

DIRECT MESSAGES +
- cody

SAEVR Project
Add a channel description

6 | Search

Image Pasted at 2019-2-26 09-30.png

Try this color

ppachuta 9:23 AM
Yeah, unity shaders are actually really powerful

jake 9:23 AM
@rodrigotakase Can you color this easier?

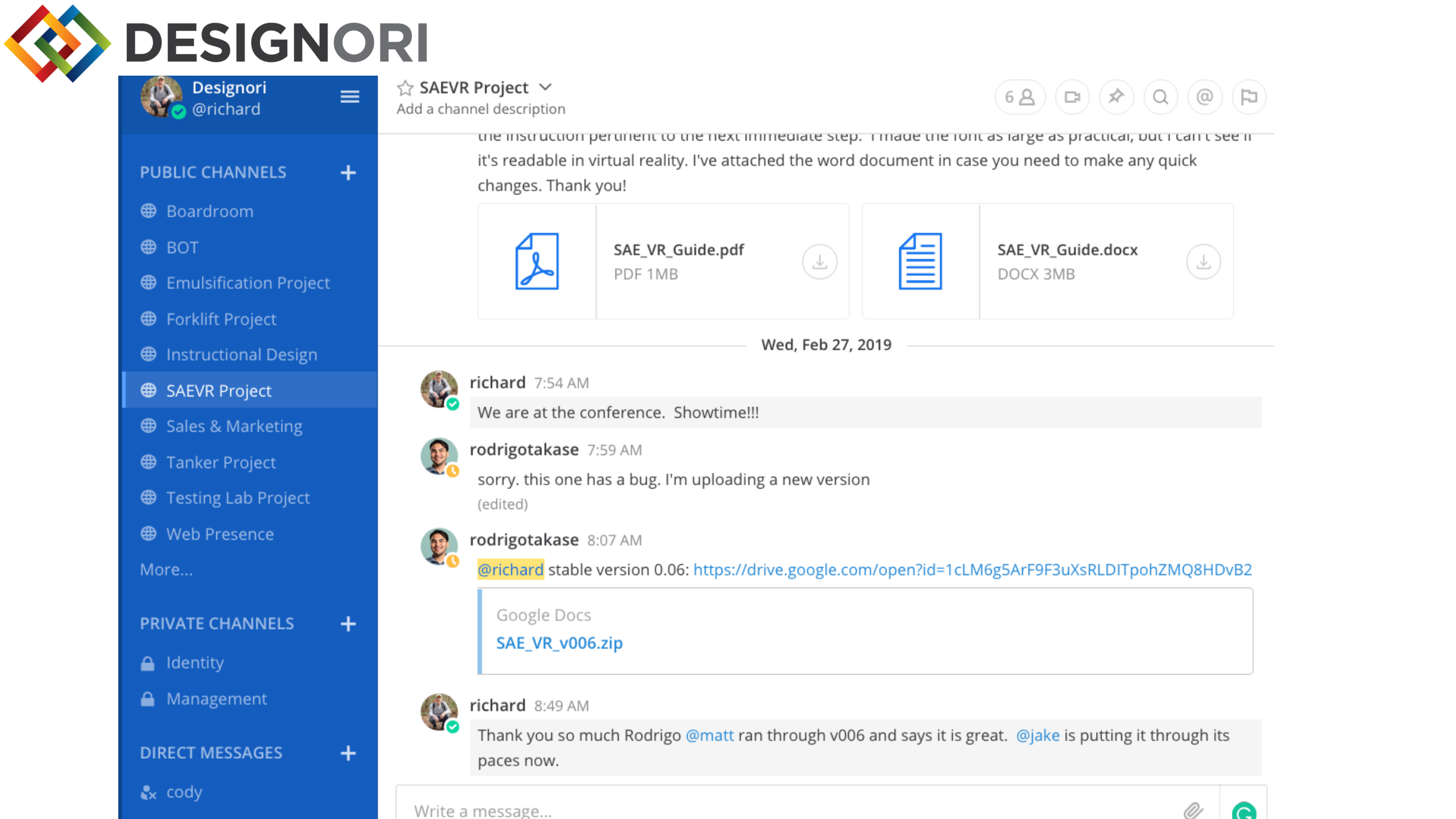
1

richard 9:23 AM
Yeah, that is really freak'n BLUE

IMG_0111.jpeg

IMG_0109.jpeg

Write a message...


DESIGNORI
Designori
@richard
SAEVR Project
Add a channel description
6
PUBLIC CHANNELS
Boardroom
BOT
Emulsification Project
Forklift Project
Instructional Design
SAEVR Project
Sales & Marketing
Tanker Project
Testing Lab Project
Web Presence
More...
PRIVATE CHANNELS
Identity
Management
DIRECT MESSAGES
cody
it's readable in virtual reality. I've attached the word document in case you need to make any quick changes. Thank you!
SAE_VR_Guide.pdf
PDF 1MB
SAE_VR_Guide.docx
DOCX 3MB
Wed, Feb 27, 2019
richard 7:54 AM
We are at the conference. Showtime!!!
rodrigotakase 7:59 AM
sorry. this one has a bug. I'm uploading a new version
(edited)
rodrigotakase 8:07 AM
@richard stable version 0.06: https://drive.google.com/open?id=1cLM6g5ArF9F3uXsRLDITpohZMQ8HDvB2
Google Docs
SAE_VR_v006.zip
richard 8:49 AM
Thank you so much Rodrigo @matt ran through v006 and says it is great. @jake is putting it through its paces now.
Write a message...

Reality Capture

AERIAL CAPTURE

FLIGHT

$40,000

PER PROJECT

DRONE

FROM

$1,500

TO OWN

2007 — 2017

GROUND CAPTURE

LiDAR

$80,000

TO OWN

24 lbs

BLK360

$16,000

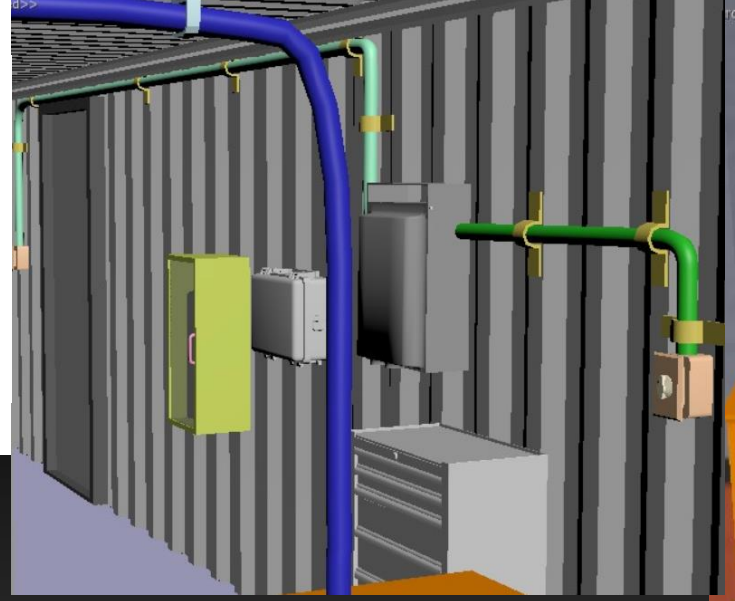
TO OWN

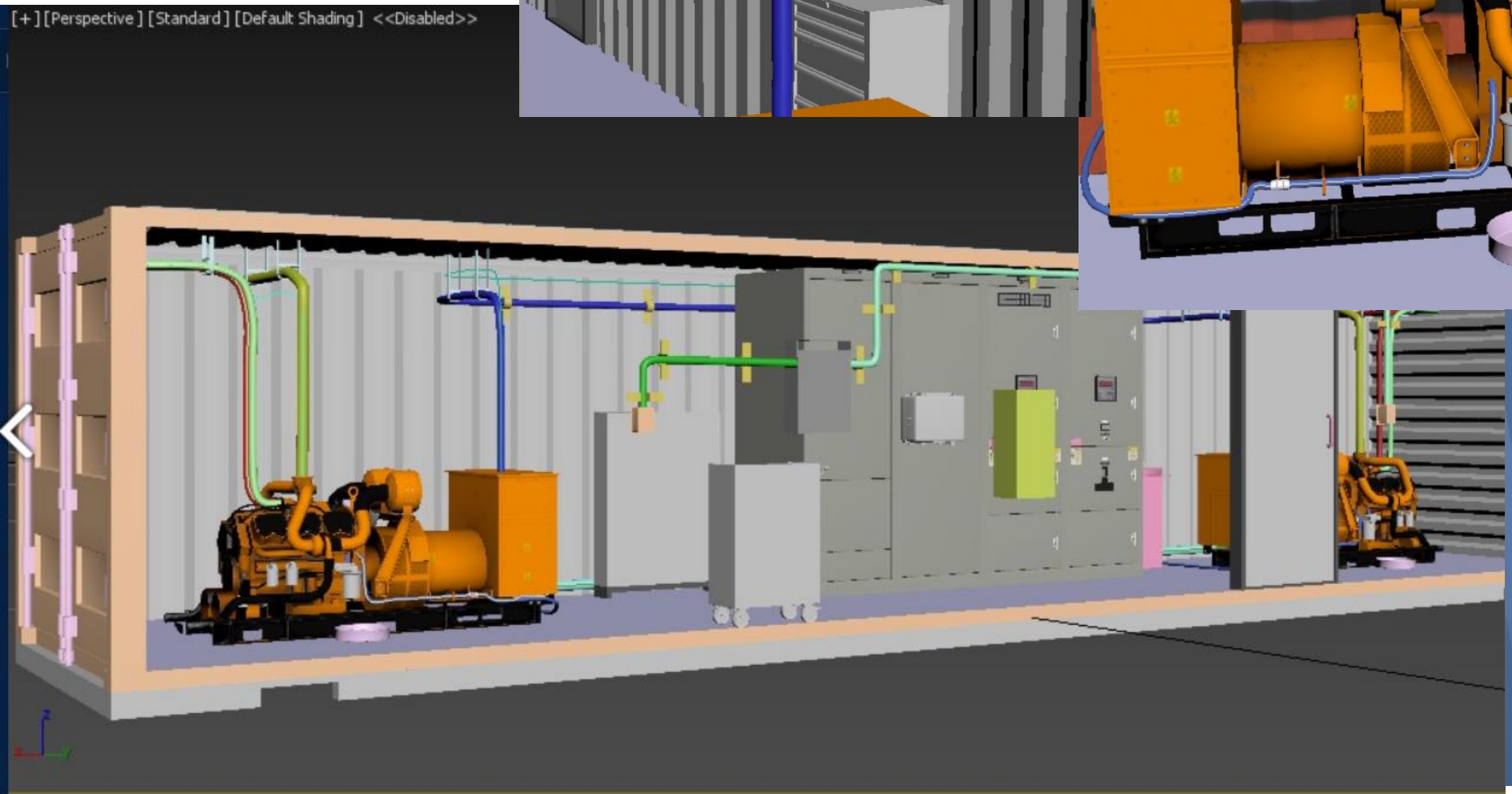
2 lbs

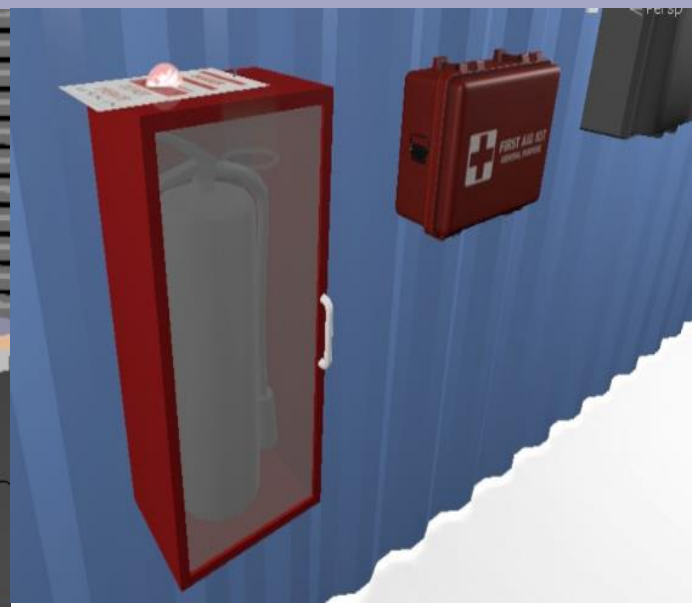
*Illustrations not to scale

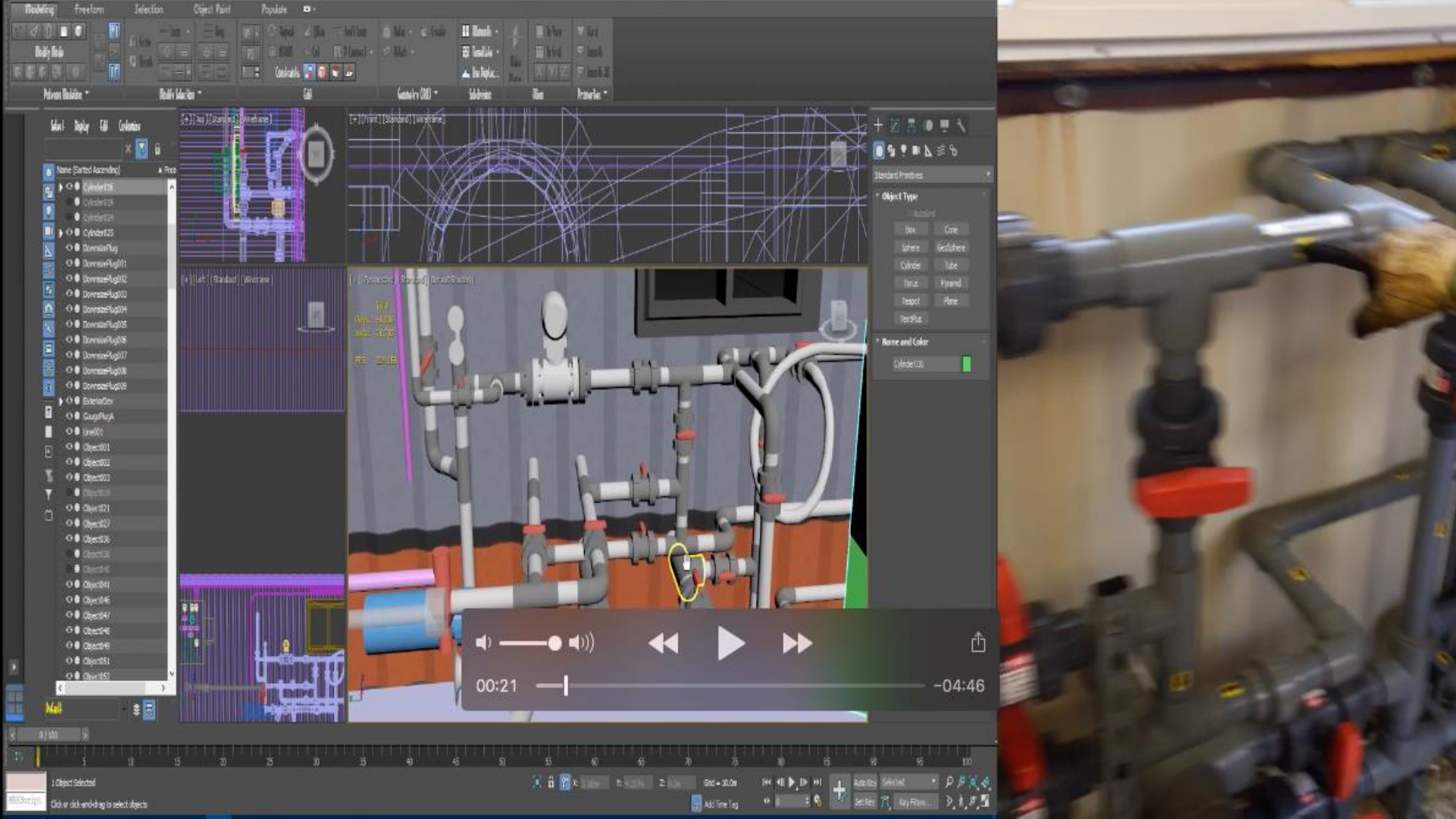
6' 8 5/8

Reality Modeling




[+] [Perspective] [Standard] [Default Shading] <<Disabled>>

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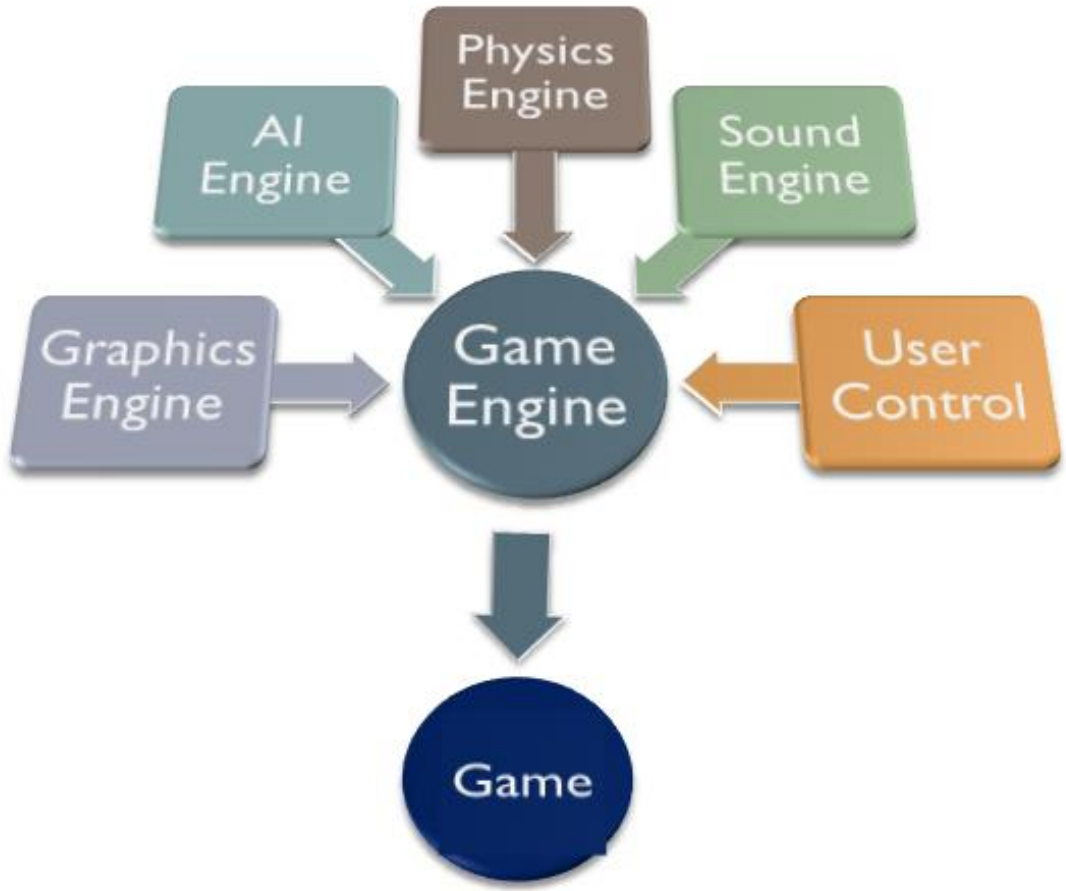
-04:46

Reality Gamification

Game Engine


Physics Engine
AI Engine
Sound Engine
Graphics Engine
Game Engine
User Control
Game

Unity - CinemaScene_Beginning.unity - CinemaPresentation - PC, Mac & Linux Standalone*
File Edit Assets GameObject Component Window Help
Hierarchy
Main Camera
Scene
Game
Asset Store
Animator
Inspector
Transform
Camera
GUILayer
Flare Layer
Audio Listener
Slo Mo Script (Script)
Add Component
Camera Preview
Project
Console
Animation
Favorites
Assets

made with unity
VC-TURBO

Reality
Experience

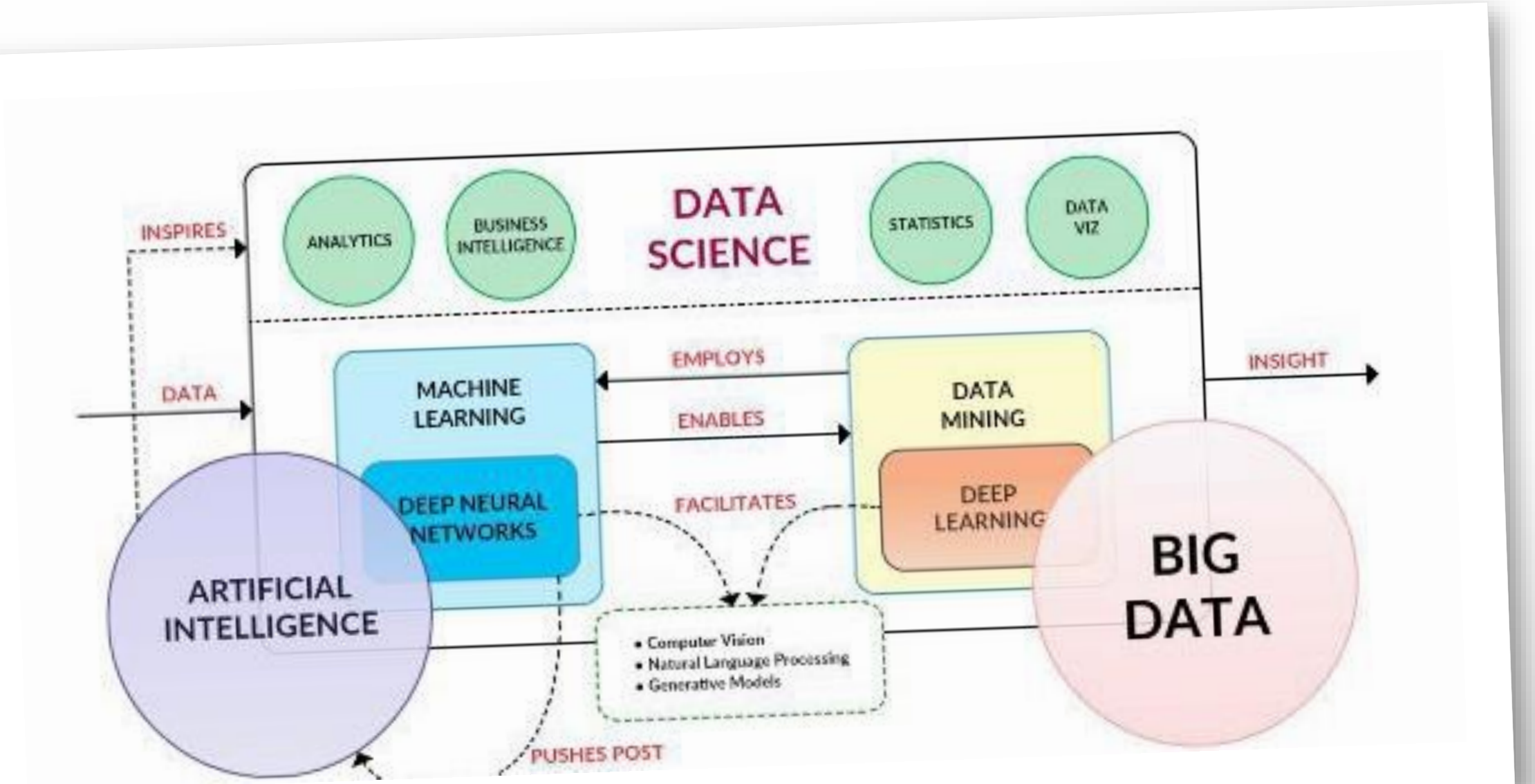
WATER FLOW
CHEMICAL
ACID FLOW
START
WARM WATER PUMP
CHEMICAL PUMP
ACID PUMP
STOP
WARNING
LINE HEAT
TRANSFER PUMP

Play (k)

1. Press the MANUAL button to enter manual mode. This starts up the next largest unit.

2. Press STOP button to auto transfer the load. This opens the breaker & unloads the generator then enters a cooldown/shutdown state.

Reality
Mining


INSPIRES
ANALYTICS
BUSINESS INTELLIGENCE
DATA SCIENCE
STATISTICS
DATA VIZ
DATA
MACHINE LEARNING
EMPLOYS
ENABLES
DATA MINING
INSIGHT
DEEP NEURAL NETWORKS
FACILITATES
DEEP LEARNING
ARTIFICIAL INTELLIGENCE
• Computer Vision
• Natural Language Processing
• Generative Models
BIG DATA
PUSHES POST

Data Layers
Geology
Drill Holes
Buildings
Tailings
Regions
Transport
Rivers
Waypoints
Pits
Bornite
Chalcopyrite
Fault Traces
Click trigger to toggle data on/off
Hold trigger to teleport
Labels
All Layers Off
Default Layers

Reality Capture
Reality Modeling
Reality Projection
Reality Gamification
Reality Mining
Reality Experience

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Learning Experience 3D

1. Design
2. Development
3. Delivery

Reality Spectrum

1. Technology
2. Testing
3. Training

Discussing the Future

FINANCIAL

EDUCATIONAL

INDUSTRIAL

CULTURAL

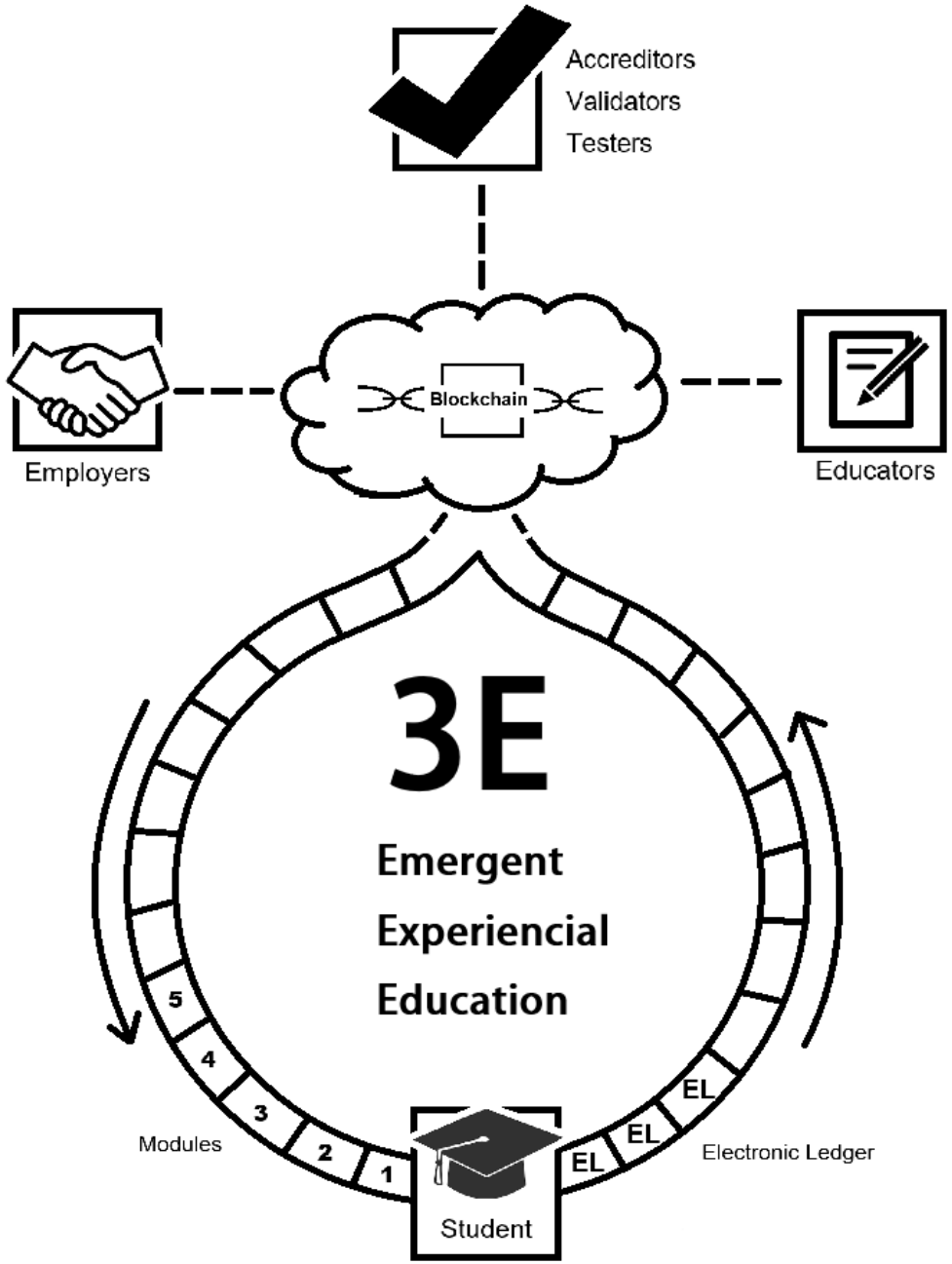
EDUCATIONAL CREDENTIALS COME OF AGE

A Survey on the Use and Value of Educational Credentials in Hiring

Sean R. Gallagher, Ed.D.
Executive Director, *Center for the Future of Higher Education & Talent Strategy*
Executive Professor of Educational Policy

December 2018

Northeastern University
Center for the Future of Higher Education and Talent Strategy



INDUSTRIAL

Pump in Operation

Data

Industrial IoT Platform

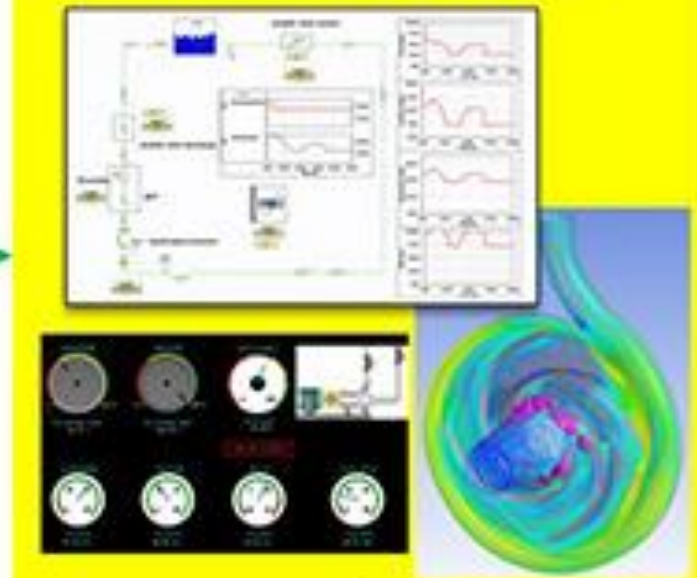
Big data streaming
Big data analytics
History
Triggers
Security
Connectivity

Preventive maintenance
Value-added services
Feedback to engineering

Inputs

Pump Digital Twin

ANSYS
Simulation Platform

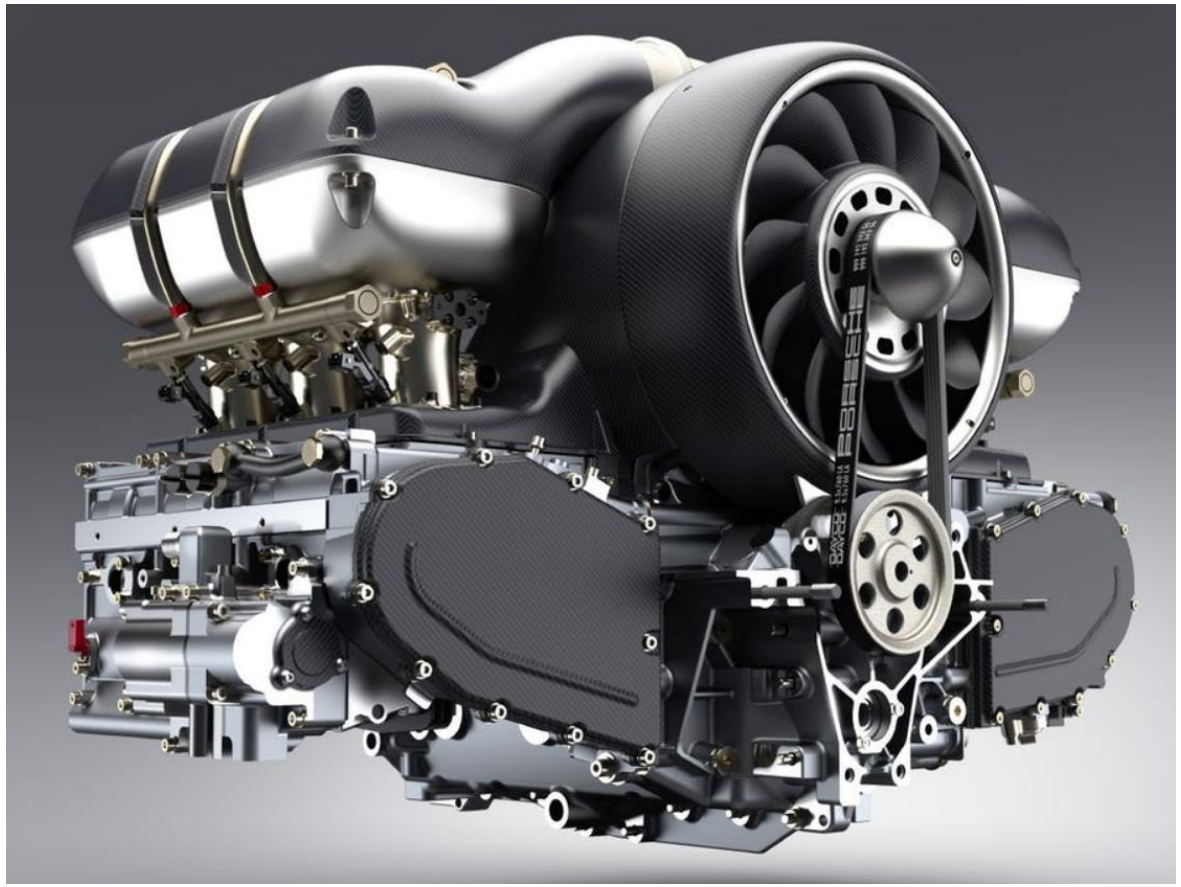


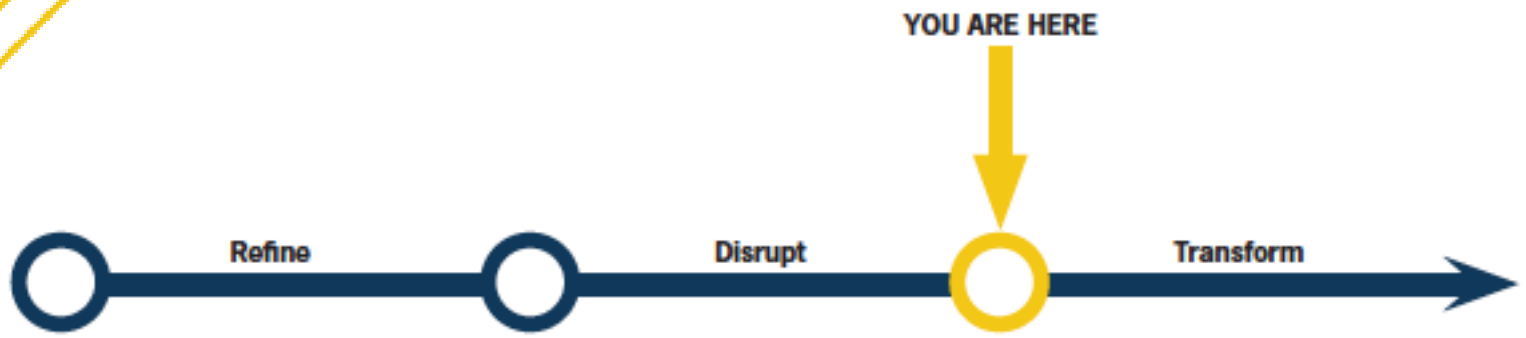
Simulation outputs

Solutions Discussion

Alaska Energy Authority (AEA)
230 Power Microgrids

Historically, technology shifts follow a regular pattern with three phases: *refinement* of the technology, innovative *disruption*, and societal *transformation*.

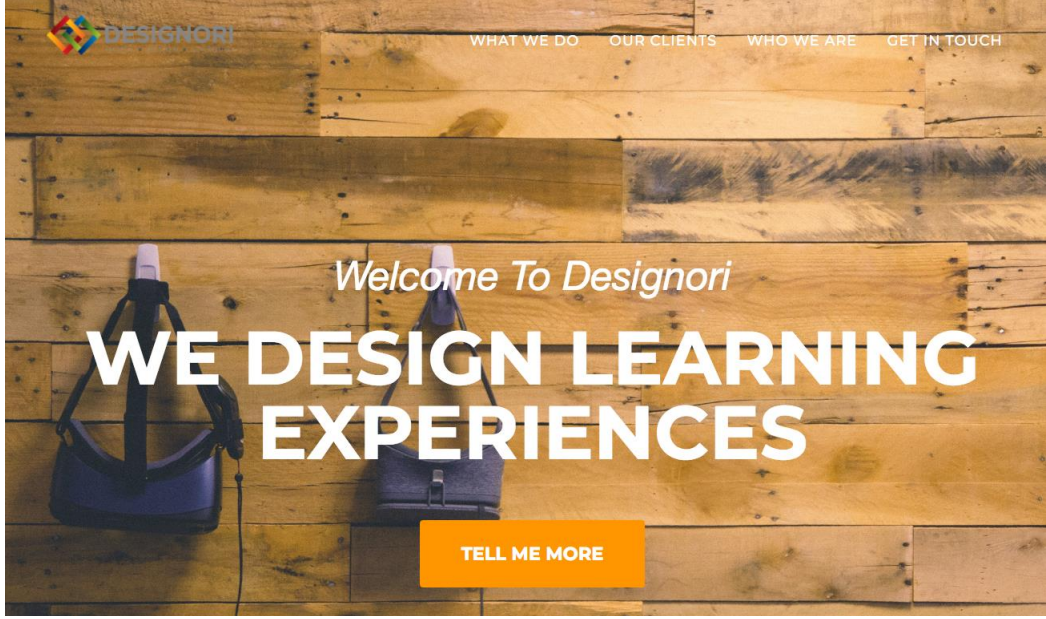




Richard Lovell Webb, PhD

Realities Spectrum Education & Technology

Anchorage, Alaska



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