

# Writing An O&M Manual As A Young Professional Dreaded Assignment Or Opportunity?



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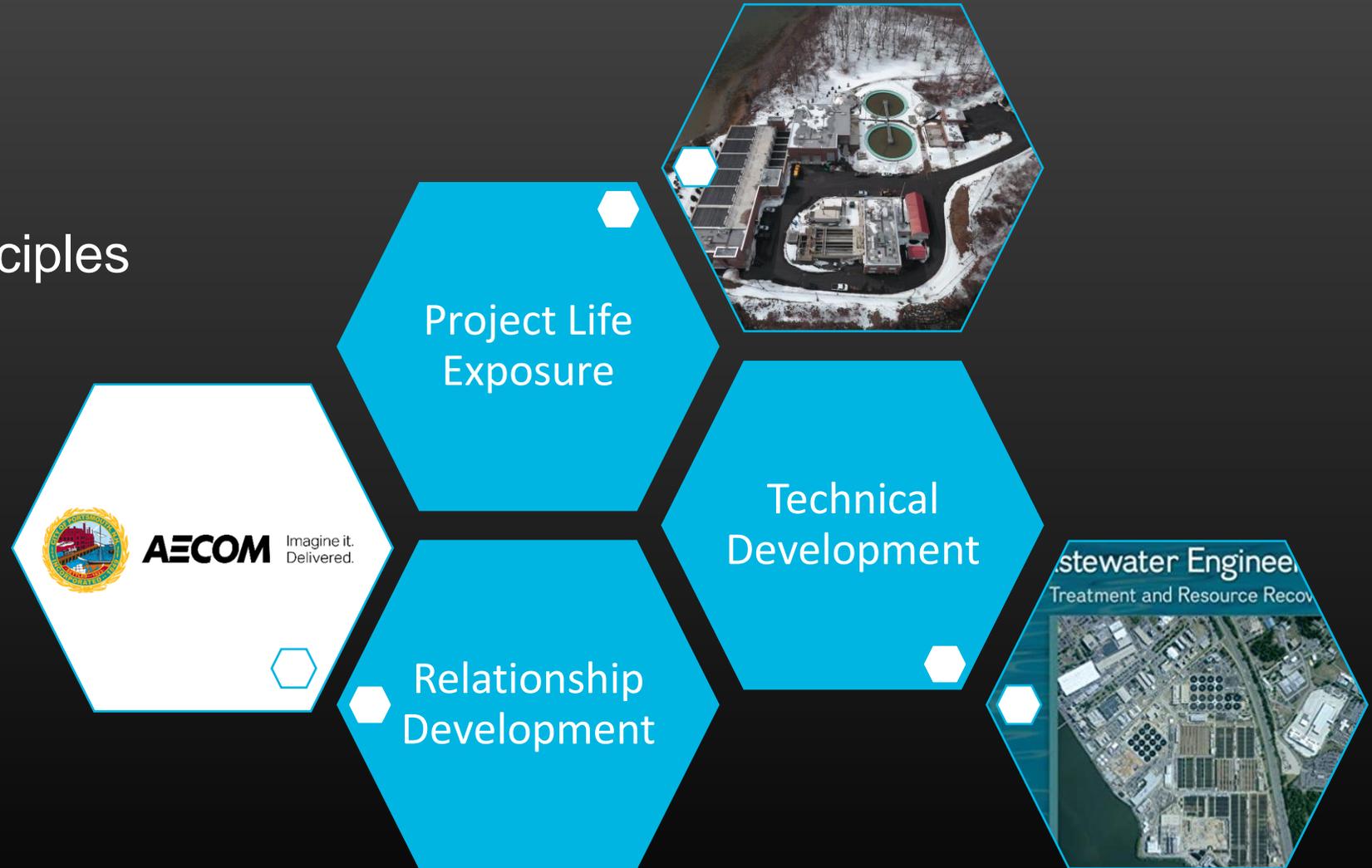
Co-Author: Peter Conroy – City of Portsmouth, NH

# The Young Professional Experience



# Advancing Young Professional Development

- Comprehensive assignments
- Reinforcement of principles studied in college



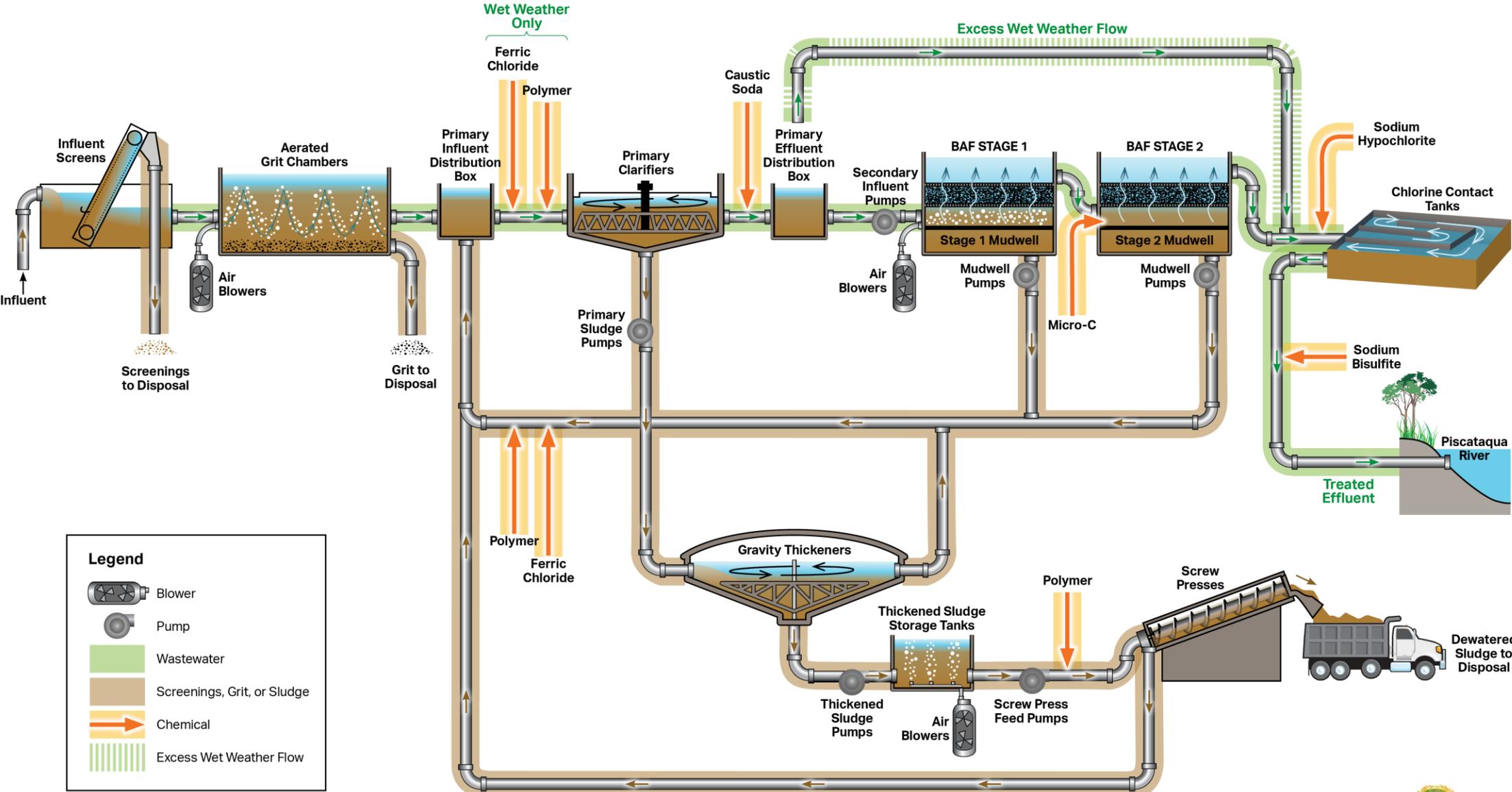
# WWTF O&M Manual

# Peirce Island WWTF

- Average daily design flow 6.13 MGD
- Design peak flow 22 MGD
- \$92M upgrade completed in 2021



# Process Flow Diagram



**Legend**

-  Blower
-  Pump
-  Wastewater
-  Screenings, Grit, or Sludge
-  Chemical
-  Excess Wet Weather Flow

CITY OF PORTSMOUTH, NEW HAMPSHIRE  
PEIRCE ISLAND WASTEWATER TREATMENT FACILITY  
BID NO. 39-16  
CWSRF CS-330106-16

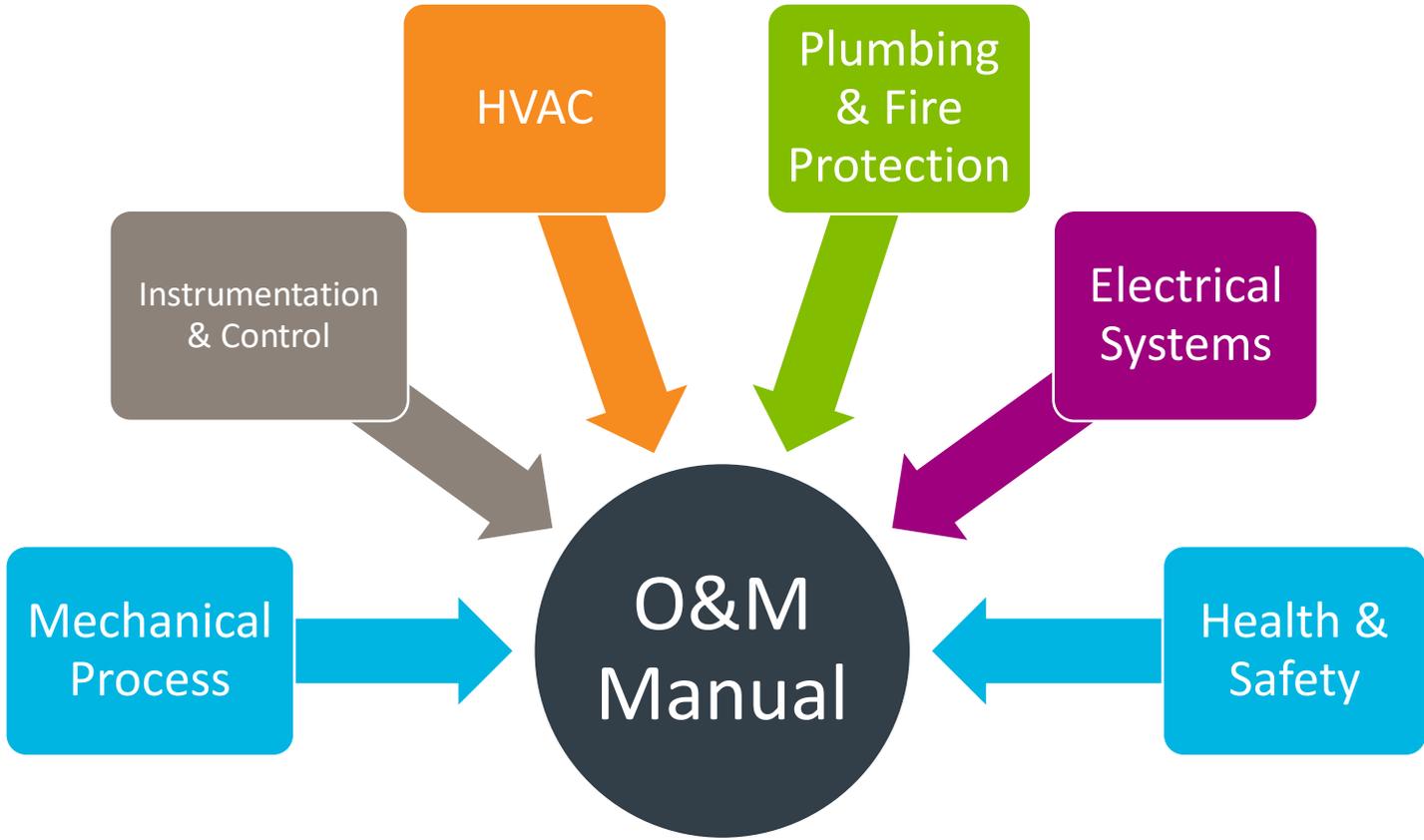
# OPERATION AND MAINTENANCE MANUAL (DRAFT)



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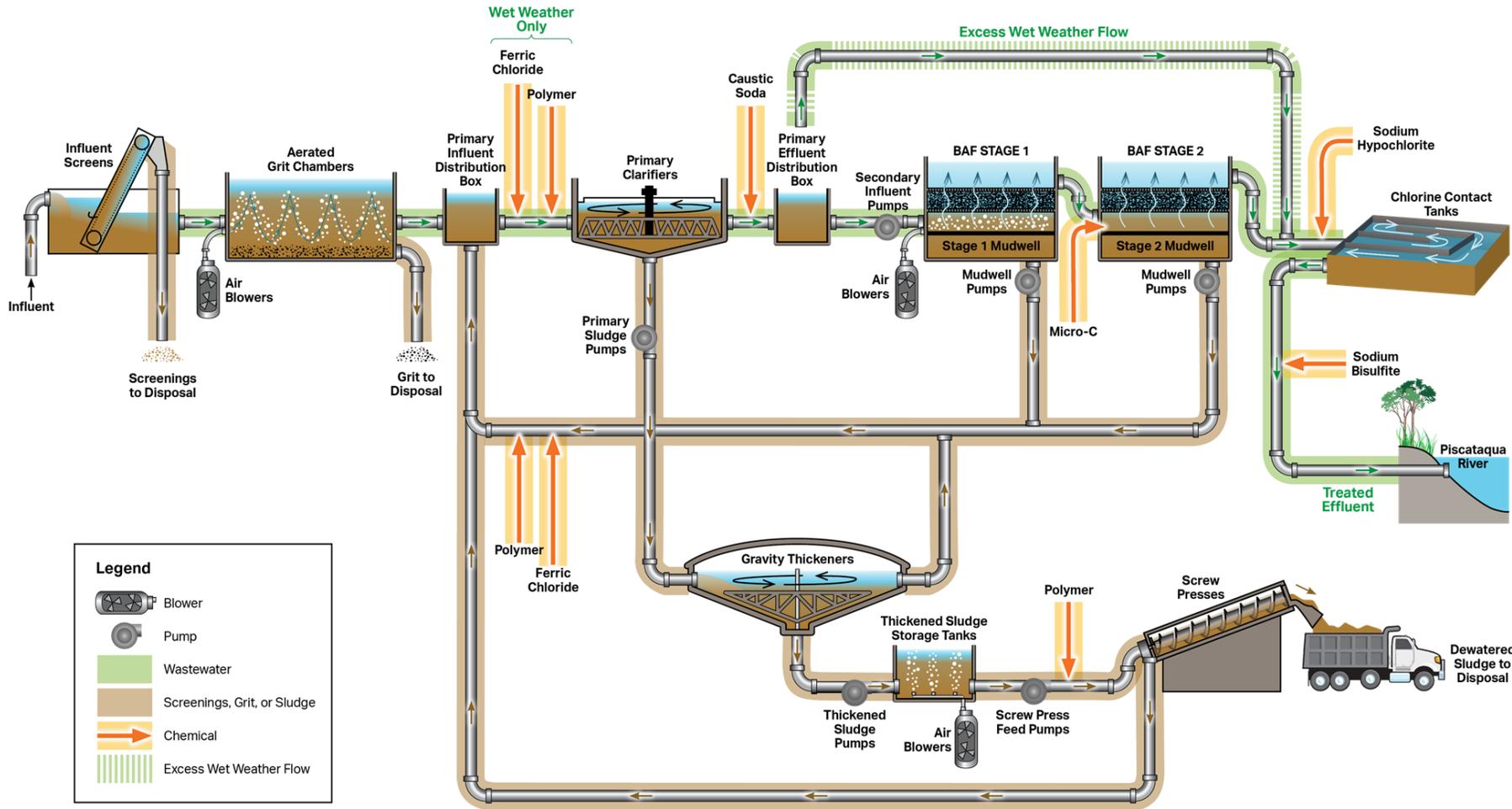
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January 2021



# Benefits Of Writing An O&M Manual For A Young Professional

# Wastewater Treatment Process Understanding

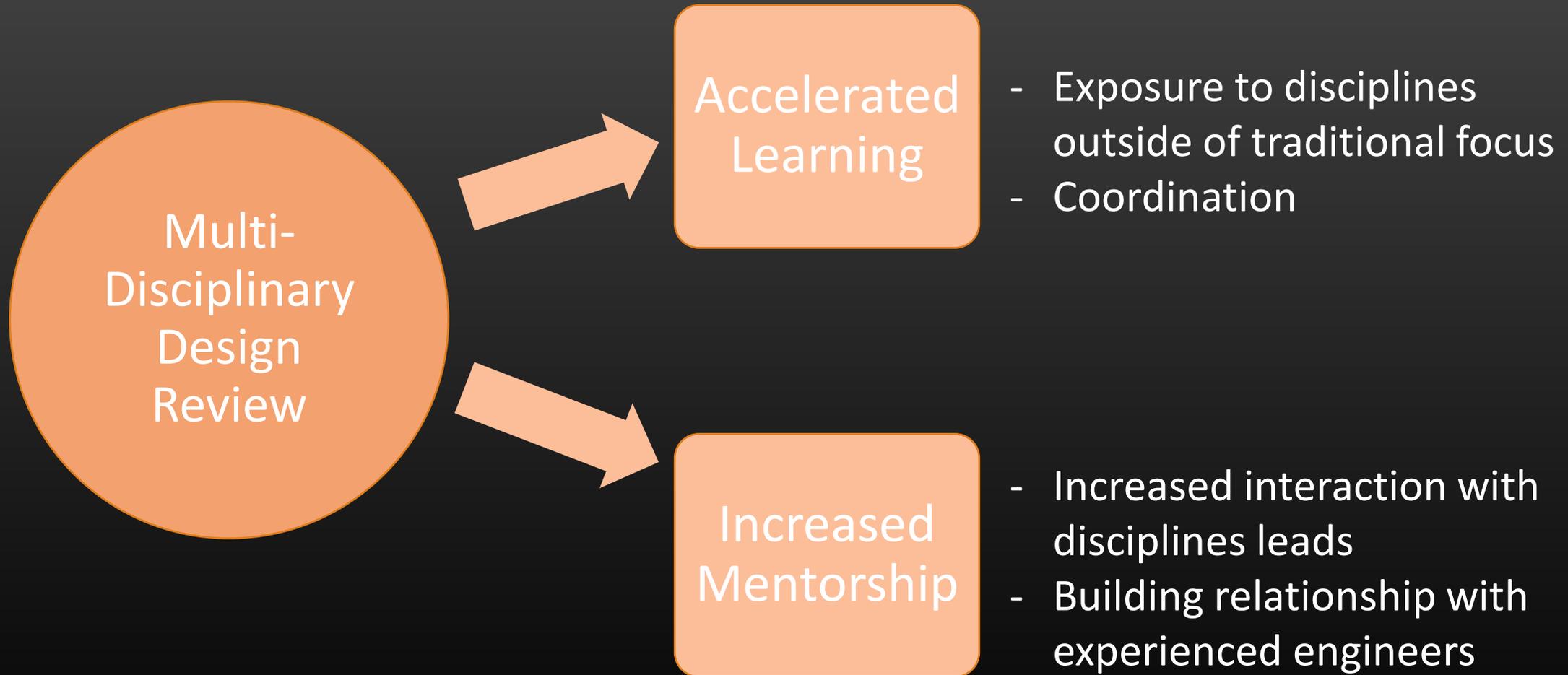


# Shortening The Learning Curve

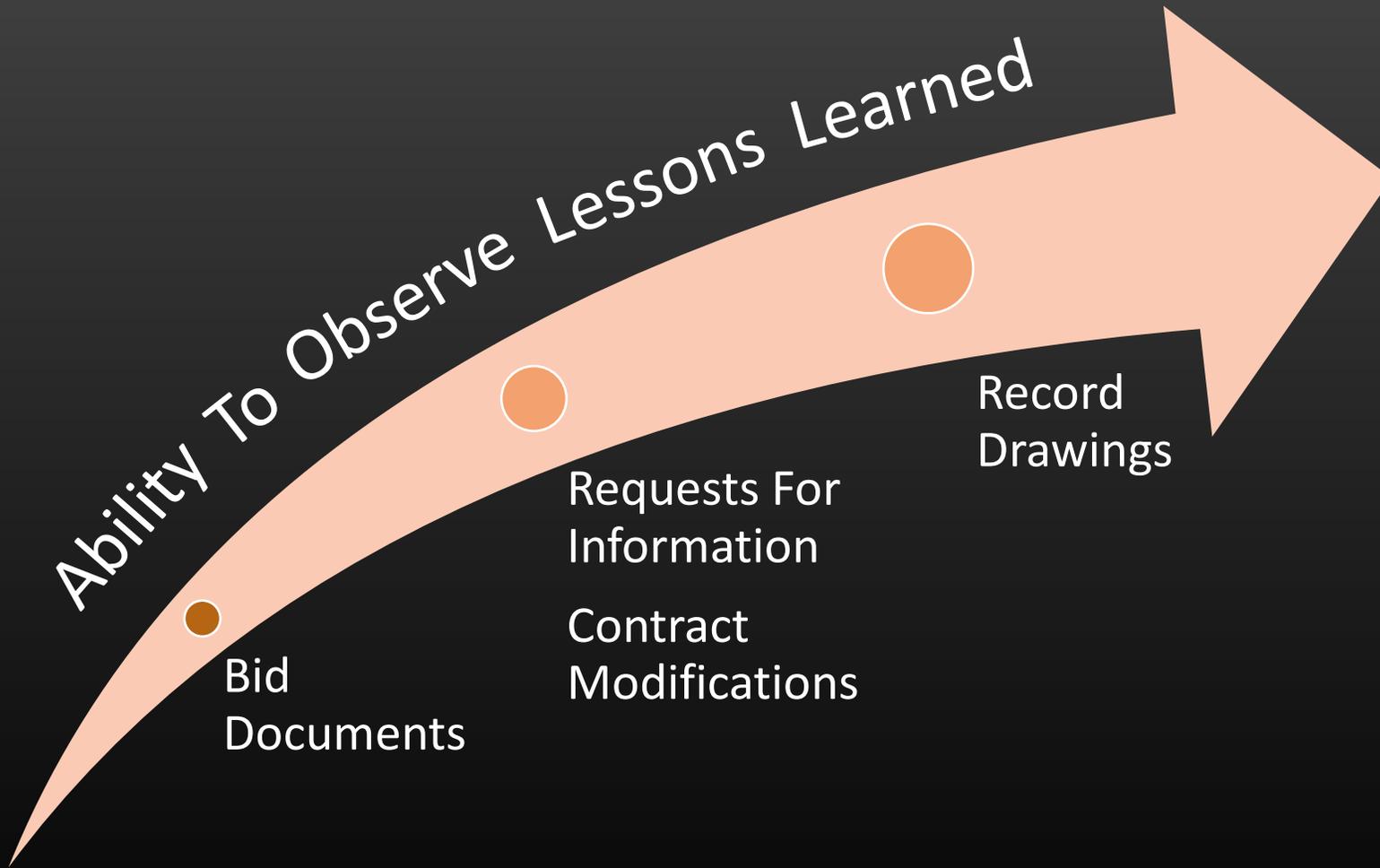
- Comprehension of new material
- View documents as pieces of a larger puzzle vs. as stand alone



# Shortening The Learning Curve & Promoting Mentorship



# Shortening The Learning Curve



# Shortening The Learning Curve

- Exposure to new scenarios
- Development of business acumen



# O&M Manual Benefits



Reinforced Understanding Of WW Treatment Process Principles

Improved Understanding Of Engineering Disciplines

Mentorship And Relationship Development

Ability To Observe Lessons Learned



**AECOM**

Imagine it.  
Delivered.

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