

# PROJECT MANAGEMENT



- **Presenter:**

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# WHAT IS PROJECT MANAGEMENT?



**Project management:**

***is the discipline of  
planning, organizing,  
motivating, and  
controlling resources to  
achieve specific goals***

# ELEMENTS OF PROJECT MANAGEMENT:

## Managing ---

- The Contract/Project
- Personnel
  - Internal
  - external
- Time/Schedules
- Logistics
- Expectations
- Communication
- Conflicts
- Expectations
- Quality
- Cost
- Elected officials
- Public/Media
- Family
- Modification/changes
- Weather
- Shutdowns
- Stress/health
- Emergencies
- Crashes



# PROJECT MANAGEMENT IS PROJECT DELIVERY



# COMMON FACTORS IN PROJECT MANAGEMENT....

Regardless of the Contracting model for delivery of the project, good Project Management must have the following:

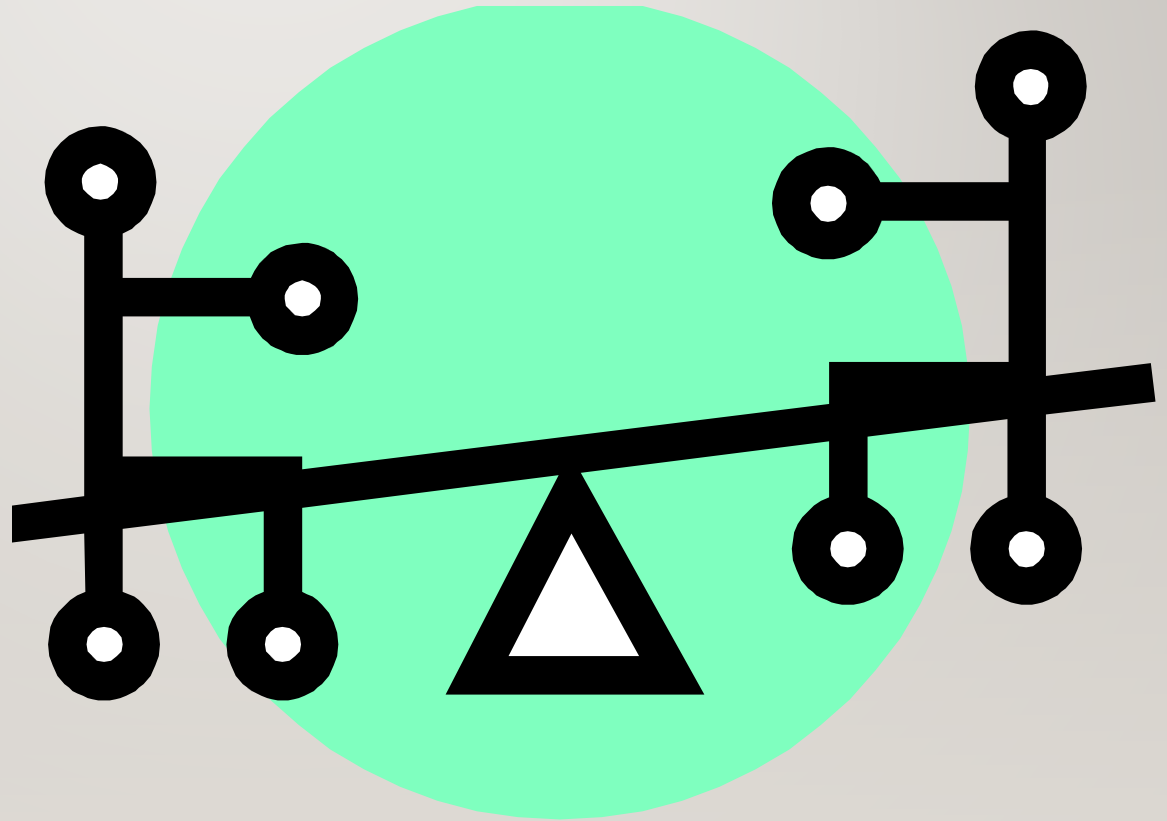
- **The Plan**.....clear goal and vision for the project
- **Schedule** for delivery
- **Materials, equipment and logistics**
- Key **Personnel**
- **Funding and political support**





The three components of any Project, which must be balanced for success.

- Cost
- Quality
- Time



# BALANCING THREE LEGS

- **Cost**
- **Quality**
- **Time**





# LETS LOOK AT -- COST

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What happens when **Cost** is the most important factor in managing the project...

- Can lead to reduced quality
- Can lead to scheduling problems

# WHEN PROJECTS ARE CONSTRAINED BY COST

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A project near Mt. St. Helens was designed with an inadequate budget:

- Specifications [quality] were compromised, increasing the risk of roadway failure
- Time was impacted when the Contract had to be extended due to failures in the newly constructed roadway.



# SLOPE FAILURE

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# RESULTS IN ROADWAY SETTLEMENT & PAVEMENT FAILURE



# AND WHAT ABOUT QUALITY?

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When **Quality** is out of balance.....

- Can lead to costs increases and overruns for a higher quality....but do you need a Cadillac to get you to work?
- Can lead to increases in time to obtain the higher quality









# GRAND TETONS EAST SIDE HIGHWAY

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Quality was primary in the reconstruction of the highway.

- Production of crushed material was more expensive
- Longer production time



# AND THEN THERE IS TIME

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- When **time** is critical, cost and quality may suffer.....
  - Can lead to accelerated efforts, overtime, etc which cost more, and
  - Can lead to quality loss in order to meet the schedule.

# HURRICANE RIDGE SLIDE



Before

After →





# HOW DO WE MEASURE SUCCESS?



- Quality
- Safety
- Long term durability
- Final cost
- Did we meet the needs of the community?

# SUMMARY

- ***Project Management is the planning, organizing, motivating and controlling resources to achieve specific goals.***
  - Through balancing:
    - Cost
    - Time
    - quality

A photograph of a gravel path in a forest. On the left, a black bear stands on its hind legs, adjusting a yellow surveying instrument on a tripod. On the right, another black bear is walking away from the camera. The path is surrounded by dense green foliage and trees, with shadows cast across the ground.

**SURVEY BEAR –  
QUESTIONS?**



# THANK YOU !!

