

#### Planning Manual Part II: Risk-Informed Planning

#### **PCOP Rollout Webinar**

Charles Yoe August 17, 2017

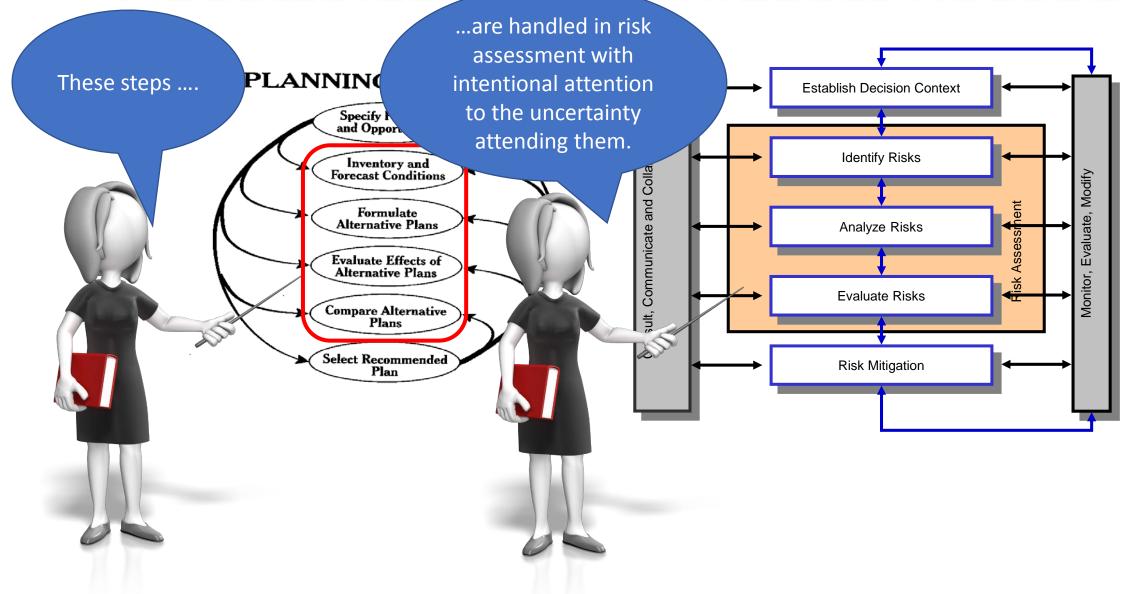
### 7 Risk-Informed Planning Take Aways

- 1. There is a new risk-informed planning process figure but the planning steps are unchanged
- 2. Risk-informed planners reduce uncertainty wisely and iteratively
- 3. Everyone is a planner
- 4. Everyone is a risk manager
- 5. There is no such thing as "the number"
- 6. Residual risk and assessing the risk of the TSP are focal points
- 7. Tell effective stories, don't just dump data

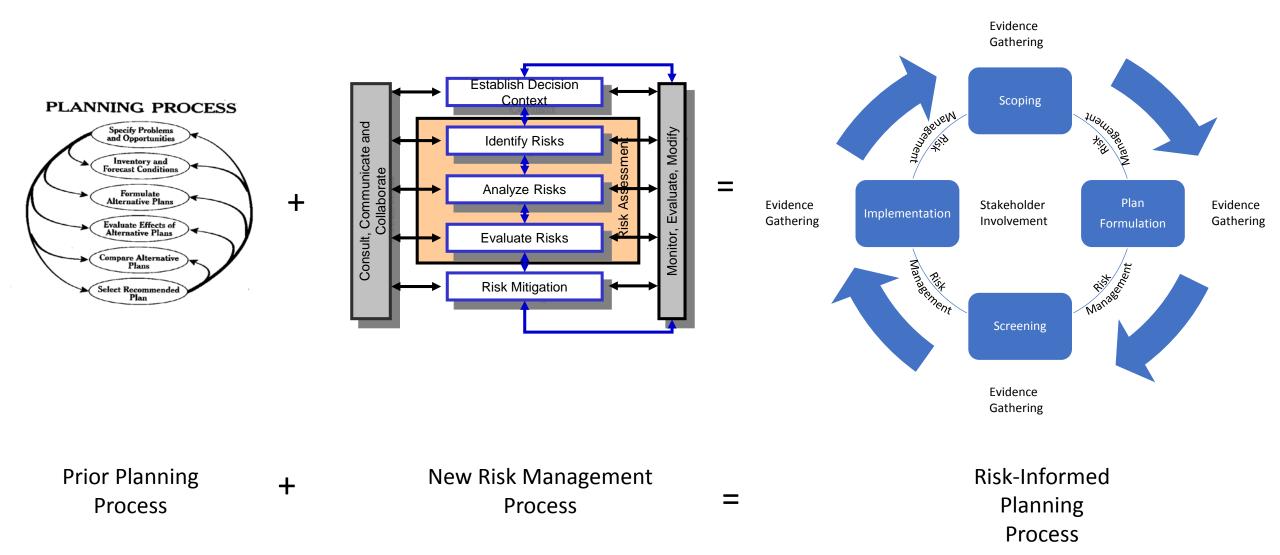
## **New Process Figure**

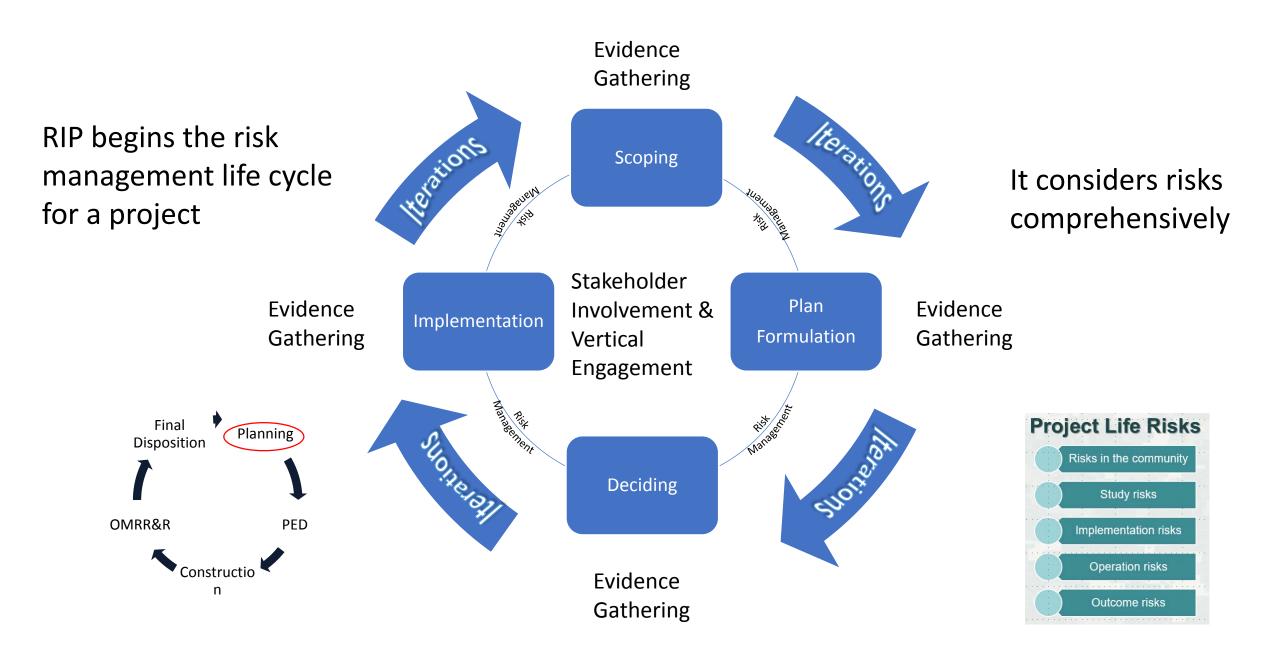


## Uncertainty Is The Biggest Reason



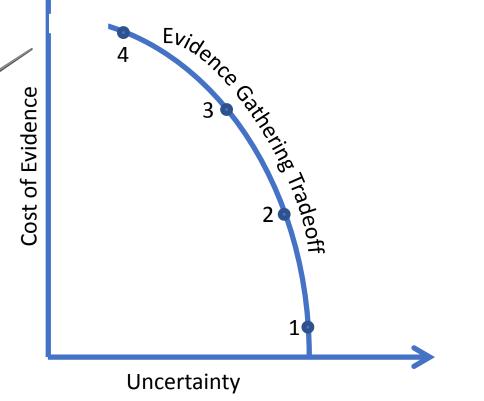
## **Exolution Not Revolution**





## **Reducing Uncertainty**

Iterations of the planning process provide the best way to reduce uncertainty intentionally.



#### 1<sup>st</sup> Iteration: Knowledge on the Team

We'll id our biggest data gaps, plug 'em, then do it all again.

Within 30 days

What things do we most need to know more about?

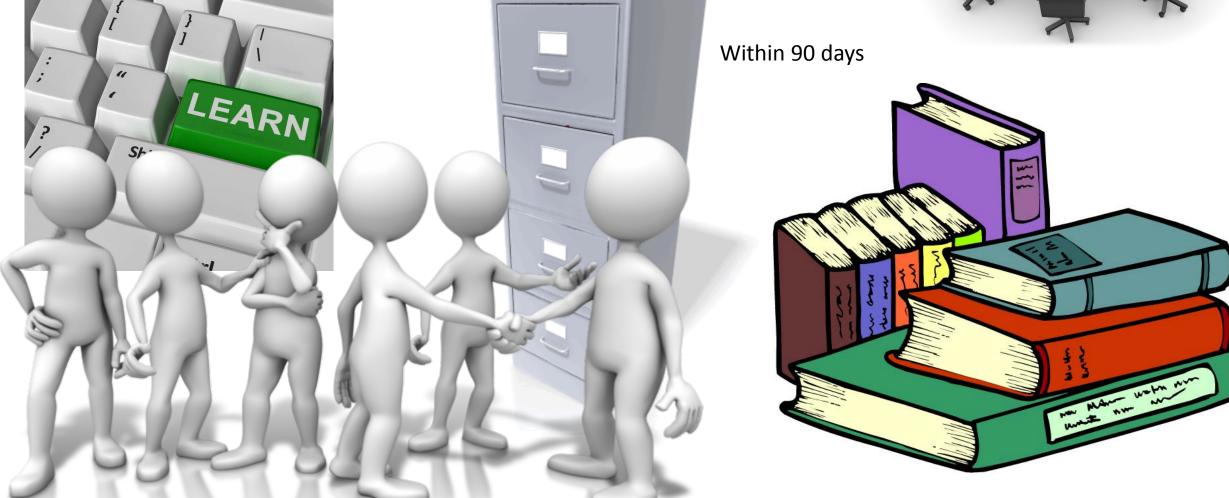
Uncertainty at start

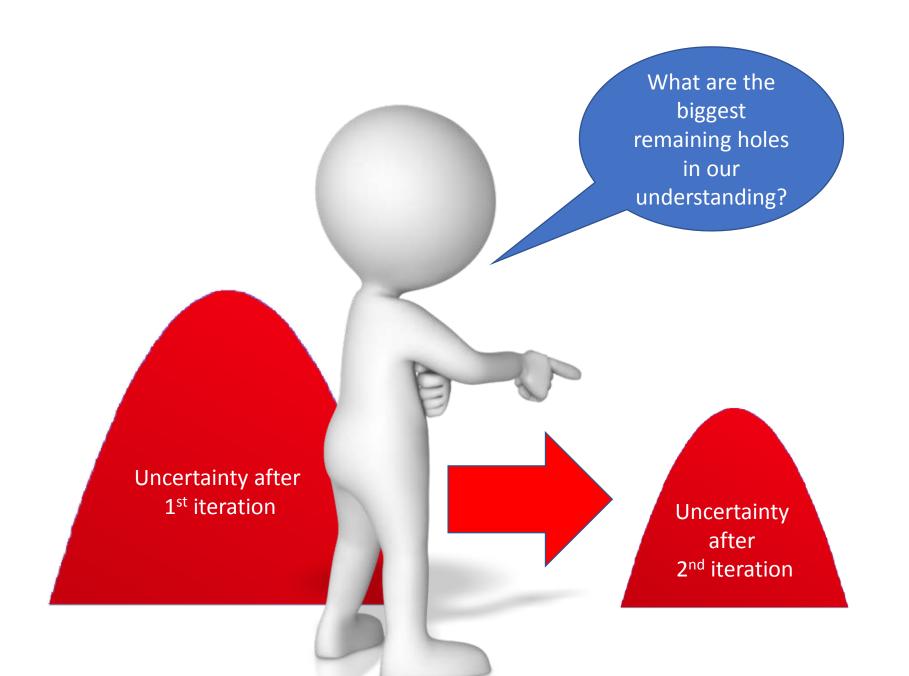
Uncertainty after 1<sup>st</sup> iteration

### 2<sup>nd</sup> Iteration: What Do Others Know

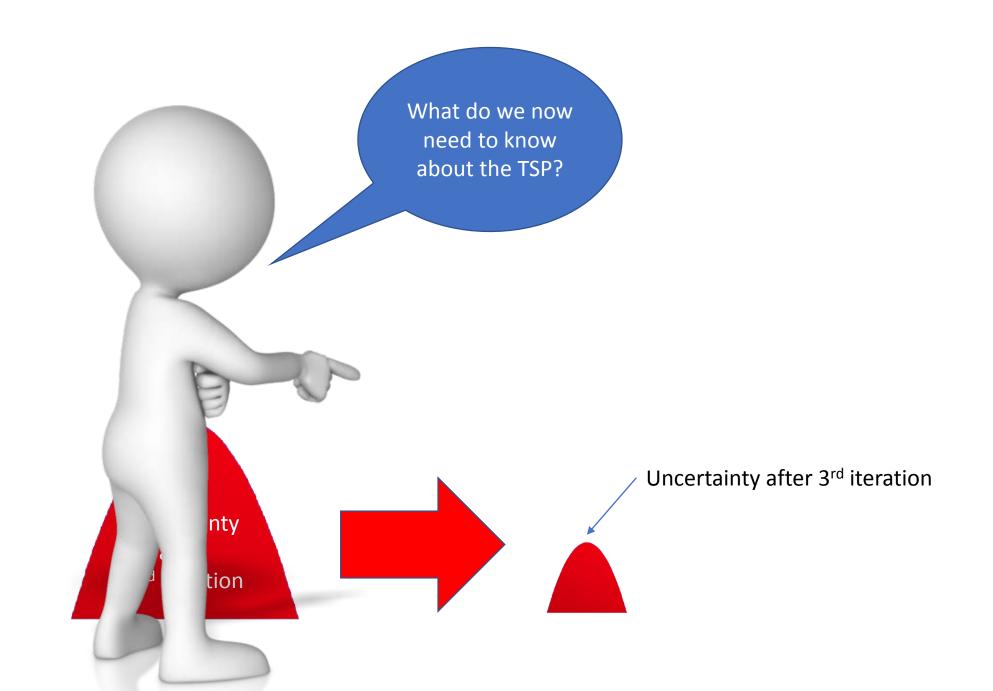
Backspace







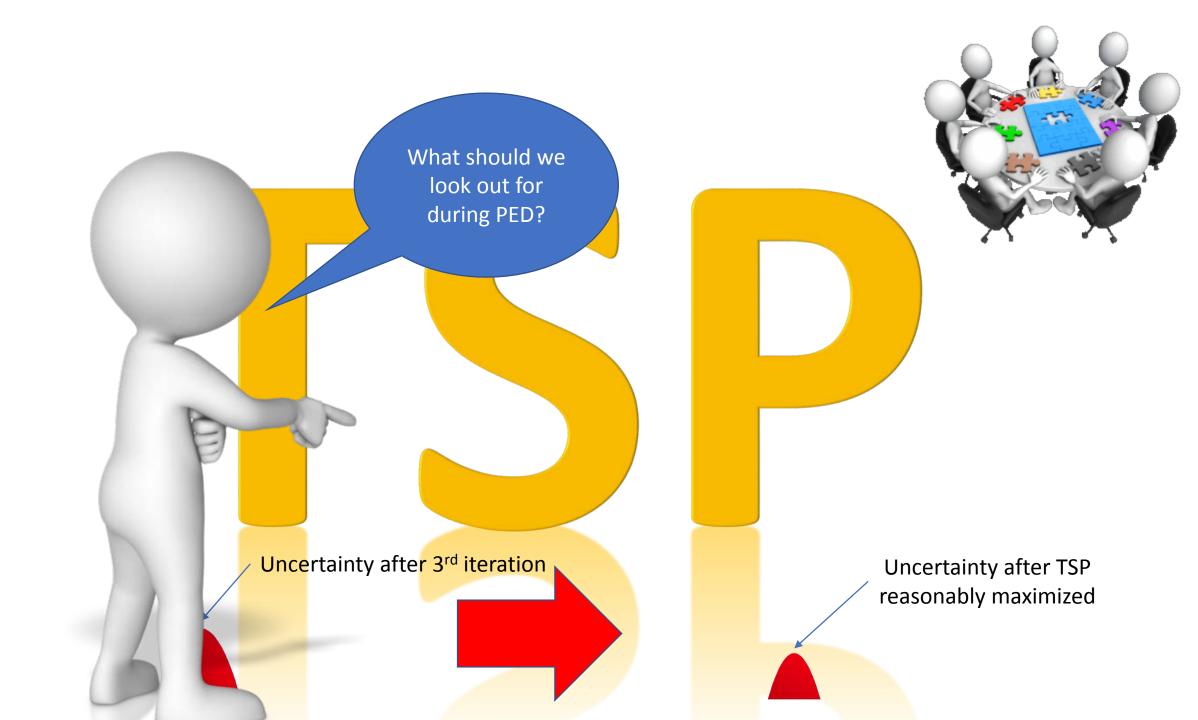




#### Do I need a waiver?

.

Follow this process to a TSP and you will be 3x3x3 compliant or you will have a strong case for why you cannot be.



# **BIP Is Learning to Live With Uncertainty**

There will always be some uncertainty.

At start

After 1<sup>st</sup> Iteration

After 2<sup>nd</sup> Iteration

After 3<sup>rd</sup> iteration

After TSP optimization

# Acquirir

You don't need all the evidence, just enough to make planning decisions.

# as Needed

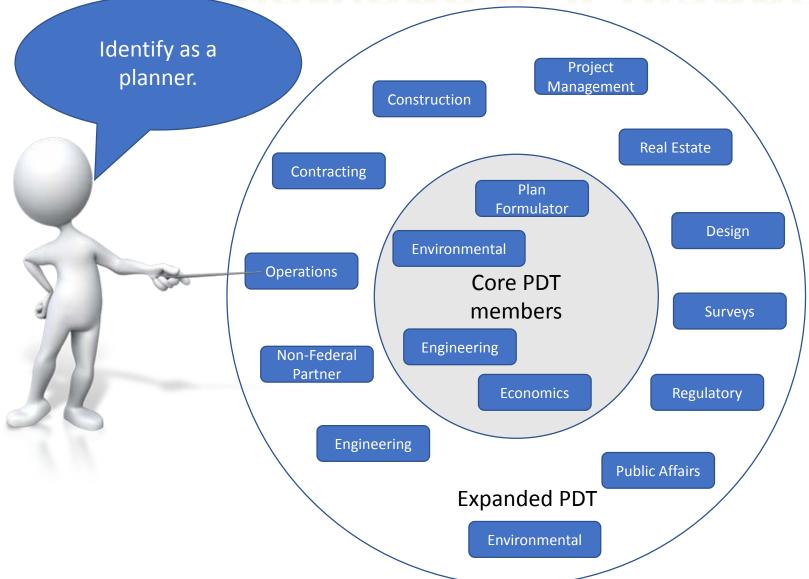
After 2<sup>nd</sup> Iteration

After 3<sup>rd</sup> iteration

After TSP optimization

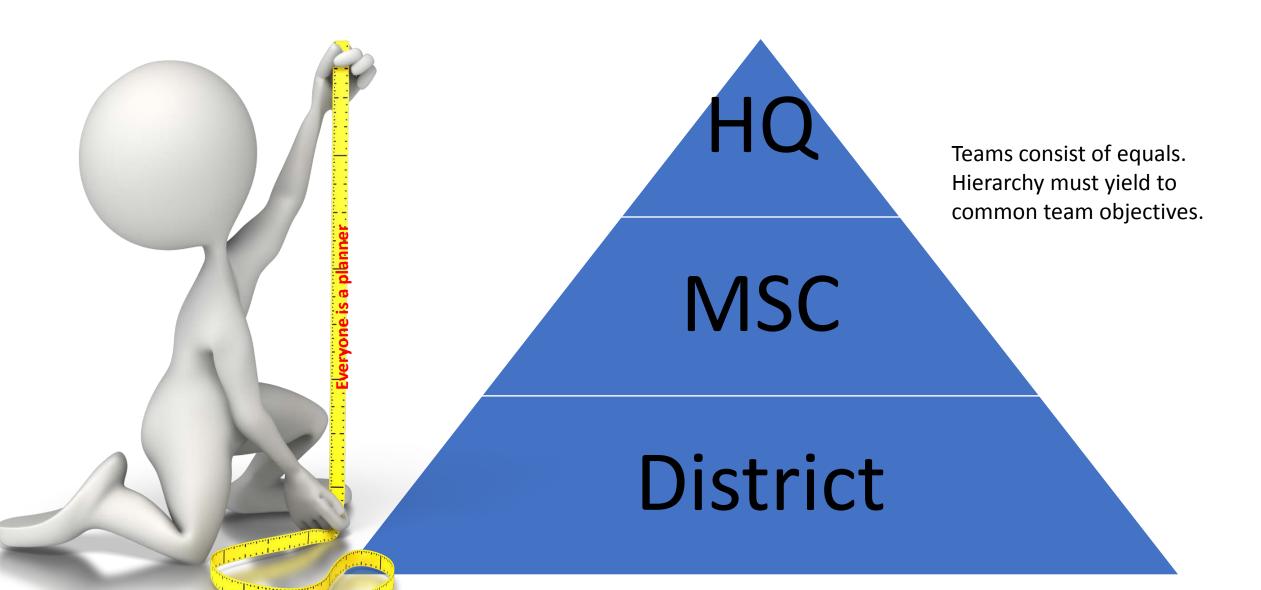
## **Everyone Is A Planner**

## **Exervone Is A Planner**

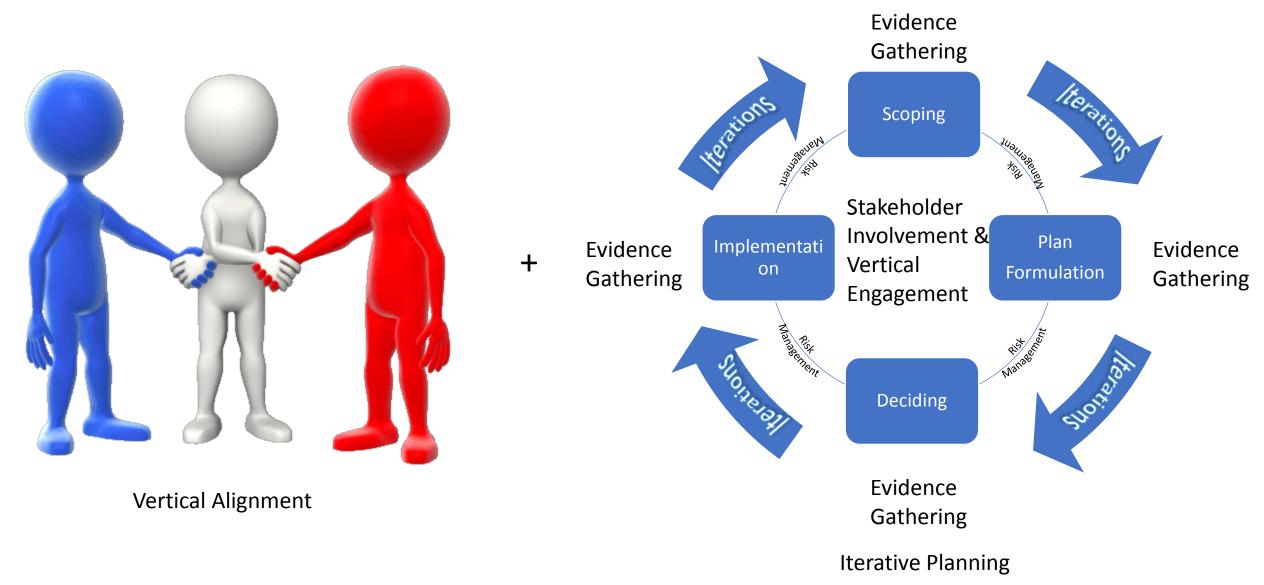


If you identify only with your discipline and define yourself by that skillset, you become obsolete when challenges outside your discipline arise.

# The Entire Vertical Team Must Measure Vp



#### Power Down Decision Making





#### More power for the PDT in making planning decisions



Risk Register is actively used as a management tool.

USACE



Risks are monitored and management is modified as needed

### **Everyone Is A Risk Manager**

### Risk Register



- Risk management tool
- To be used by vertical team
- Someone must own each High and Medium risk
- Actively manage and monitor risks that result from conducting a study that is intentional about uncertainty

### **Risk Register Sample**

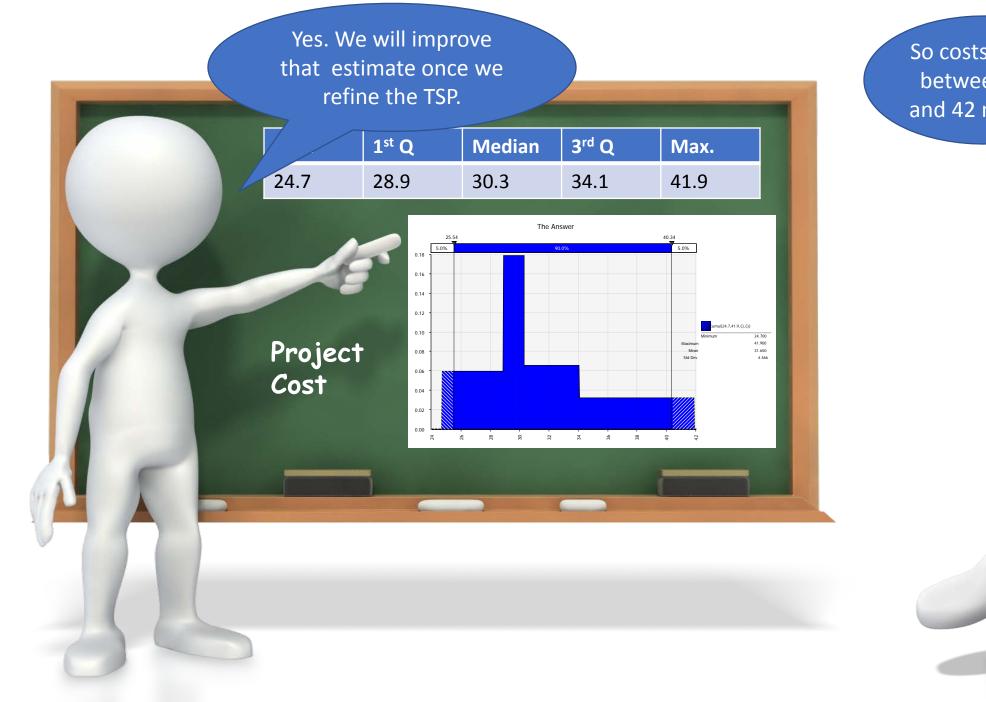


Hope is not a risk management strategy. Everyone is a risk manager.



## There Is No Such Thing As "The Number"

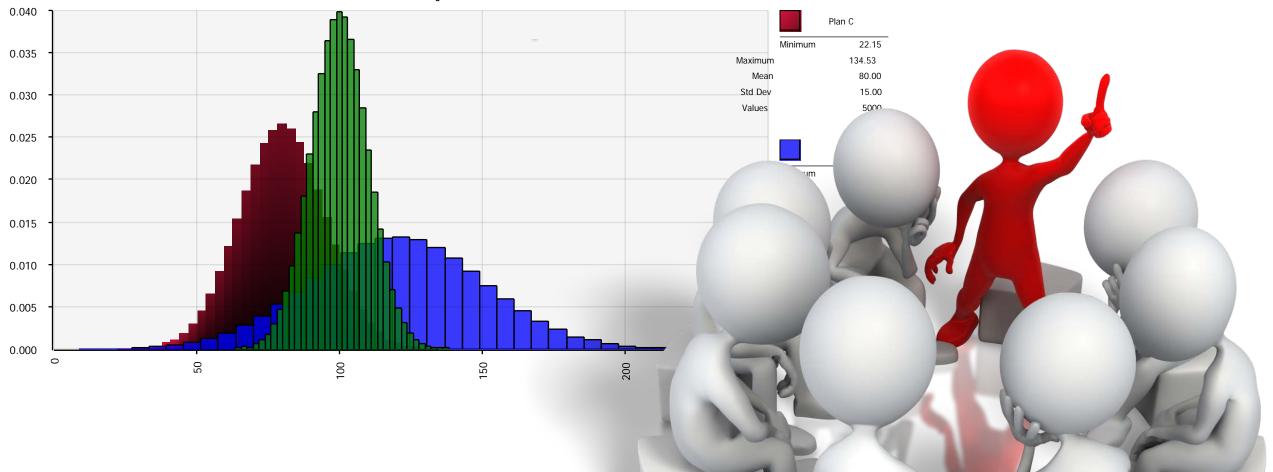
Uncertainty means there are some things we are not going to know for sure.



So costs will be between \$25 and 42 million?

By reporting a single number, we hide our ignorance and keep our bosses ignorant of the limitations of our models and data. We need to be honest with them so they can openly account for uncertainty.

Net Benefits of Final Array



Decision making is different with uncertainty

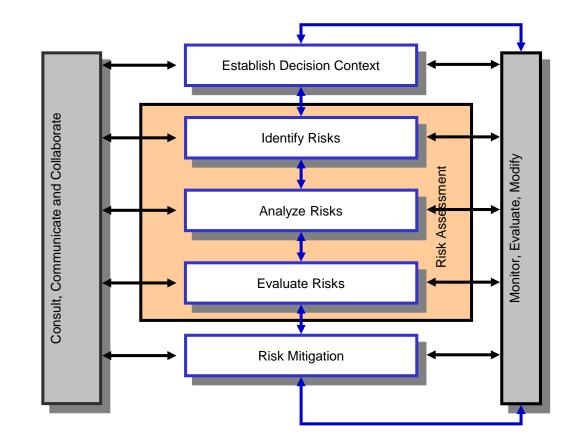
## Residual Risk and TSP Risk Assessment



### TSP Risk Assessment

- Conduct at least a qualitative assessment of the TSP
  - What can go wrong?
  - How can it happen?
  - What are the consequences?
  - How likely is it?
  - Carry risks forward to PED.

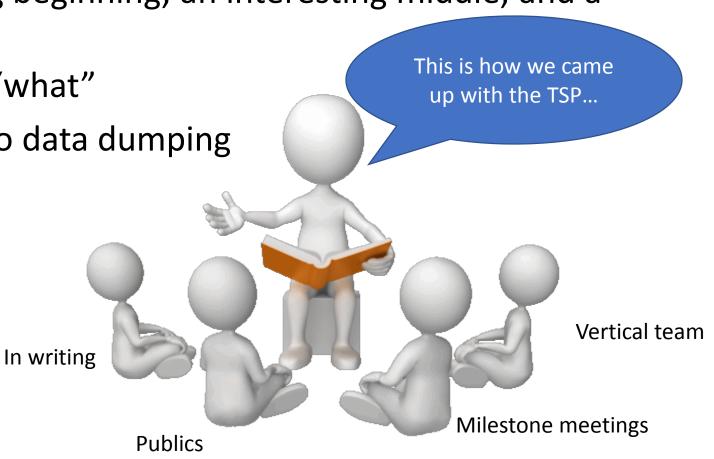




## **Tell Stories**

### **Tell Stories**

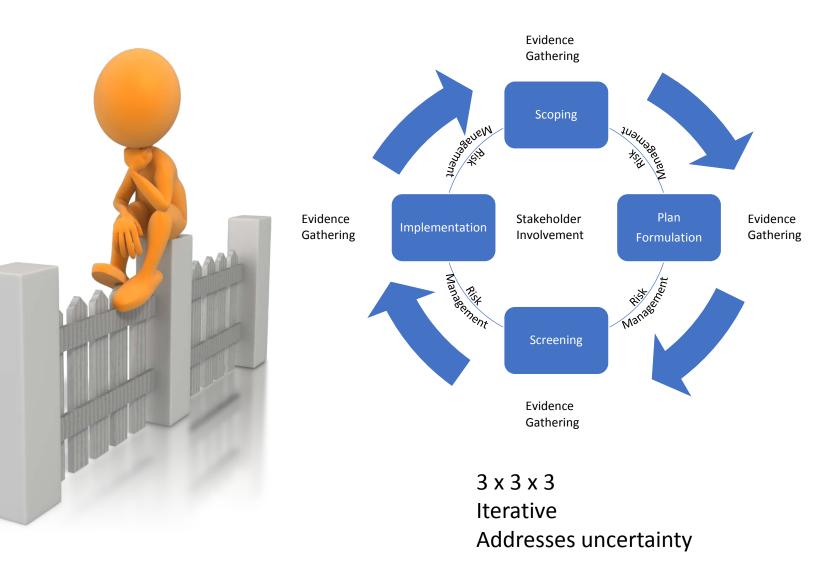
- Riskography with an engaging beginning, an interesting middle, and a satisfying ending
- More "why" less "how" and "what"
- No more six step structure, no data dumping
- Explain uncertainty
- Explore alternative media



### Be A Risk-Informed Planner



Bloated budgets Prolonged schedules Unhappy stakeholders



### Discussion