















# There Are Many Sources of Project Risk

### External risks:

- Market shifts
- Government action
- Budgets
- User advocacy
- Congress
- Technology advances

Example from Portland PMI

Chapter PMP certification training

- Threat
- Lawsuits

### Internal Risks:

- Staffing assignments
- Cost estimates
- Design risks
- Technical feasibility
- Integration
- Reliability
- Maintenance levels
- Stocking levels/Provisioning

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- Operational politics
- Labor conflict
- Cash flow
- Safety
- Licenses/patent rights
- Contractual failure
- Attrition







Seems Simple, But Each Step Includes Many Different Methods				
PMBOK Methods to Identify Risks				
Documentation Reviews				
Information-Gathering Techniques Brainstorming Unioritunately, the apparent to Techniques				
leads many to not even try a more				
Checklist Asystematic project risk management				
approach, even though there are many				
Diagramming Techniques System or Process Flow Charts	s			
SWOT Analysis	-			
Expert Judgment				
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### <u>Risk Rule 1</u>: Optimism Clouds Our Thinking – We Underestimate Risk

"Kahneman and Tversky (1979a, b) found that human judgment is generally optimistic due to overconfidence and insufficient consideration of distributional information about outcomes.

Therefore, people tend to underestimate the costs, completion times, and risks of planned actions, whereas they tend to overestimate the benefits of those same actions.

Such error is caused ... where focus is on the constituents of the specific planned action instead of on the actual outcomes of similar ventures that have already been completed."

Wikipedia, on "Reference Class Forecasting"

### What Does This Mean?

Good examples: most of the recent large-scale man-made disasters (Iraq war, financial system collapse, BP spill in the Gulf, Fukushima nuclear plant), affordable health care websites rollouts, most enterprise change efforts, M&A's







### The Nature of the Project Itself Introduces Intrinsic Project Risk

### **Higher Risk Projects**

- Untried technology or work
  processes
- Large group of stakeholders
  with little agreement
- Exploratory project with indefinite objectives
- Multi-discipline task team with little experience

### Lower Risk Projects

- Proven technology or work processes
- Focused and aligned group of stakeholders
- Clearly defined project, appropriate expectations
- Experienced team with strong record on similar projects

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# **Decision Errors Are Common**

- 1. Plunging in
- 2. Frame blindness
- 3. Lack of frame control
- 4. Overconfidence in judgment
- 5. Shortsighted shortcuts

- 6. Shooting from the hip
- 7. Group failure
- 8. Fooling yourself about feedback
- 9. Not keeping track
- 10.Failure to audit your decision process

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\* From <u>Decision Traps: The Ten Barriers to Brilliant Decision-Making & How</u> to <u>Overcome Them</u>, Russo and Schoemaker, 1989



















# Main Message for This Section

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![](_page_17_Picture_3.jpeg)

![](_page_18_Figure_1.jpeg)

![](_page_18_Figure_2.jpeg)

# Then Start Identifying Strategies to Meet the Objectives

- There typically are many ways to get through a project
- Each way is a strategy – an assumed approach
- A strategy underlies the project plan – change the strategy, change the plan

![](_page_19_Picture_5.jpeg)

![](_page_19_Figure_7.jpeg)

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### Pick a Strategy That May Best Meet the Objectives and Balance Risks

![](_page_20_Figure_3.jpeg)

With a Strategy, Start Detailing, Note Constraints, Resources, Assumptions						
Project Description	~	<u>Assumptions</u>	~~			
<u>Dbjectives</u> • Objective 1 • Objective 2 • Objective 3 <u>Constraints</u> • Constraint 1 • Constraint 2 • Constraint 3	<u>Delivery Strategy</u> <b>Write all</b> <u>Resources</u>	this!	~~			
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### Why the Detail? All the Elements Involve or Introduce Risks

![](_page_21_Figure_3.jpeg)

![](_page_22_Figure_1.jpeg)

![](_page_22_Figure_2.jpeg)

![](_page_23_Figure_1.jpeg)

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![](_page_24_Figure_1.jpeg)

# Switch Strategies if Needed, Update Plan With New Approach

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![](_page_26_Picture_1.jpeg)

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		Questions?	
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