

Risk Management: The Known and Unknown

Presenters: Sharon Verry & Steve Arthur

> Department of Professional and Occupational Regulation

Promoting Regulatory Excellence





September 10-12

#### **Goals and Objectives**

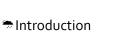
- Thiroduce Risk Management as a "best" practice" business process
- Take you through the development of a Risk Management Plan
- Give you some tools for "Your" Risk Management Program

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# Today's Journey



- Risk Management by the numbers \*
- Questions
- \* Includes exercises and the use of risk management templates



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#### Sharon G. Verry

Sharon serves as the Risk Manager for the Commonwealth of Virginia's Department of Professional and Occupational Regulation (DPOR). This department regulates over 30 professions and occupations, licenses over 300,000 regulants, and has an operating budget of over 20 million dollars. Prior to joining DPOR, she served as the Risk Management Audit Specialist for the Commonwealth's Auditor of Public Accounts. Before state government service, Sharon served for six years as the State Secretary/Treasurer and Business Manager for the state office of a national non-profit organization. Her education includes a Bachelor of Science in Finance with a concentration in Risk Management and a Master of Business Administration. She holds the Associate in Risk Management and Associate in Risk Management for Public Entities designations.

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#### Steven L. Arthur

Steve serves as the Deputy Director for Administration and Finance for the Commonwealth of Virginia's Department of Professional and Occupational Regulation (DPOR). During his 15 years with DPOR he also served as both a Contracting Officer, and as the Administrator for the Tradesman Certification Program. Before state government service, Steve retired from active duty with the United States Army. During his twenty years of military service at installations around the world, he utilized his extensive training in logistics and contracting. Steve holds a commercial multi-engine airplane and helicopter pilot's license, and has flown over three thousand hours of accident free flight in military helicopters and airplanes in the United States, Korea, Central America, and the Middle East. He has a Master's Degree in Management Science (Complex Logistic Systems), and is a Virginia Contracting Officer (VCO).





## We Manage Risk Every Day...

- Logical, consistent, disciplined approach to the future's uncertainties
- A step beyond faith and luck
- Links an event to its cause

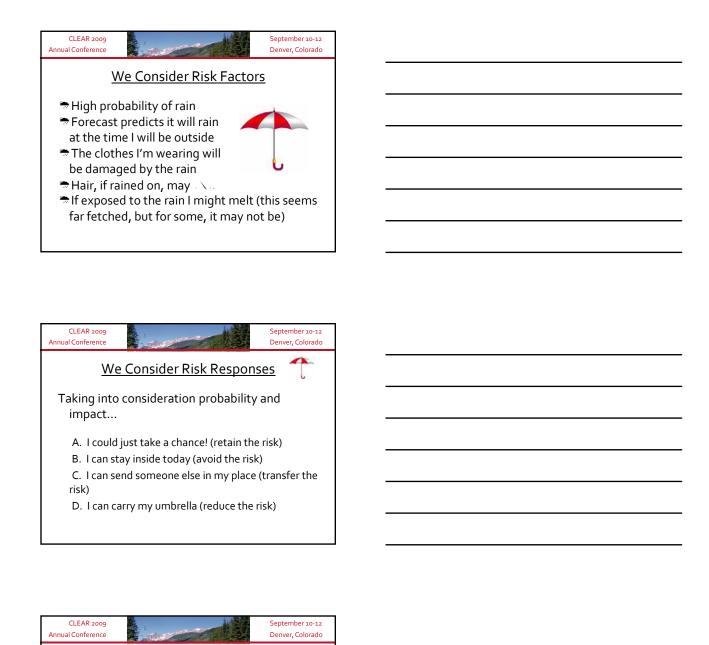
Examples: Buckling a seat belt; using a child safety car seat; obtaining auto and health insurance; crate-training a puppy; carrying an umbrella...the list goes on and on

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Risks are a part of life	4
Risks are a part of life;	1000
They offer value, excitement, adventure  We can't get to a new place without taki	, , , , , , , , , , , , , , , , , , , ,
"Twenty years from now you will be more disappointed didn't do than by the ones you did do. So throw off the from the safe harbor. Catch the trade winds in your sai Discover."	e bowlines. Sail away





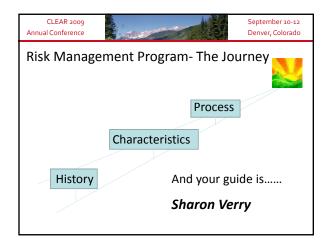




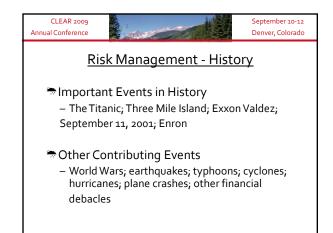
### We Consider Options and Make Decisions

- We utilize the data we've collected to make a decision
- The process used to manage the risks involved in going out in the rain is similar to the process used to manage other risks in both our personal lives and those affecting organizations

Let's look at the process of managing risks!









Operational and strategic planning

Framework" published in 2004

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- COSO "Enterprise Risk Management-Integrated

## **Enterprise Risk Management (ERM)**

- Provides methods and processes to manage risks and seize opportunities
- Provides a framework for risk management relevant to the organization's strategies and objectives



- Society



#### **ERM Roles in the Organization**

- Director, CEO level overall risk culture, scope, and implementation
- Risk Manager facilitates and coordinates the enterprise risk management process
- Senior and operational managers (and all employees) – identify risks, develop mitigating strategies or controls, ensure monitoring

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## Scope of Risk Management

- Determined by Director/Senior Management
- Risks related to Strategic Objectives; Financial Reporting; Operational Risk in Daily Activities other than Financial Reporting
- Risks related to a specific project
  - Example: New Licensing System Implementation
- Combination of risks

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Value of Enterprise Risk Management			
"Value is created, preserved, or eroded by			
management decisions in all activities, from			
setting strategy to operating the enterprise			
day-to-day".			

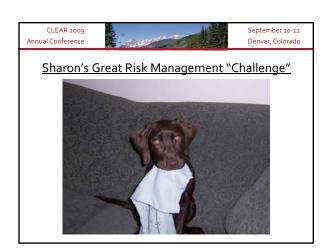
- COSO ERM Framework, Institute of Internal Auditors, 9/2004

ERM - Proactive approach to reduce risk



## Value of Enterprise Risk Management

- Enables management to:
  - Deal effectively with potential future events that create uncertainty
  - Respond in a manner that reduces the likelihood of negative outcomes and increases the likelihood of positive outcomes



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Risk Management: Formal Pr	ocess .		
Step 1 – Risk Identification			
Step 2 – Risk Assessment			
Step 3 – Determine Risk Response			
Step 4 – Develop & Implement Mitiga Strategies	ating		
Step 5 – Monitor			
Step 6 –Review & Modify Plan as Nec	essary		



#### Step 1 - Risk Identification

"As we know, there are known knowns. There are things we know we know. We also know there are known unknowns. That is to say, we know there are some things we do not know. But there are also unknown unknowns; the ones we don't know we don't know."

- Donald Rumsfeld

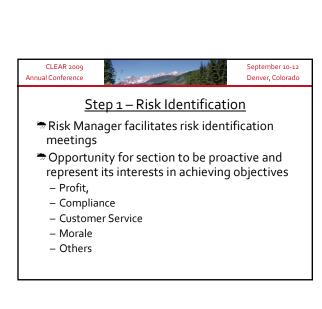
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#### Step 1 – Risk Identification

- Documentation of the material threats to the organization's achievement of its objectives
- Documentation can include a risk matrix to collect data in an organized manner
- Risk identification may be linked to organization's strategic objectives, a specific project, and/or divisional tasks and goals

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Reso	ources for Risk Identifica	ation_

- Stakeholders
- Benchmarking
- Lessons learned from previous projects, other divisions, or other organizations
- Enterprise Risk Management texts, publications, articles
- Compliance issues statutes, regulations, policies





## New Licensing System - Example

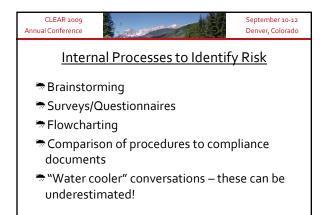
- What tasks does my section perform that can be affected by the new system?
- The What can go wrong with each task?
- How does my section interrelate with other sections?
- How does the new system affect existing operations?
- The What can go wrong if we don't coordinate?

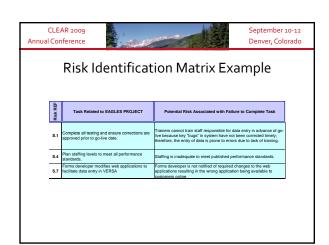
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New Licensing System - Example			
What can go wrong related to implementing the new system?			
	lo we expect problems t	o occur? (the	

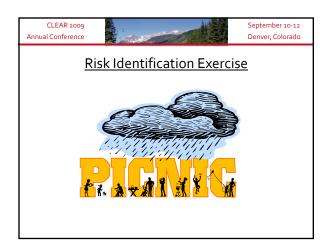
Where might unexpected problems occur?

- (The unknown unknowns)

  What issues will affect other issues?







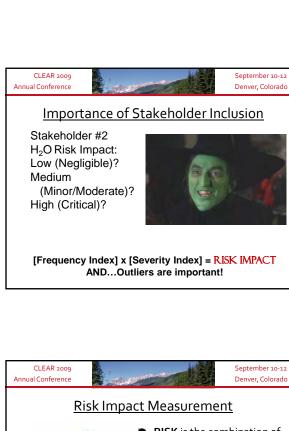


Step 5 – Monitor

Step 6 – Review & Modify Plan as Necessary

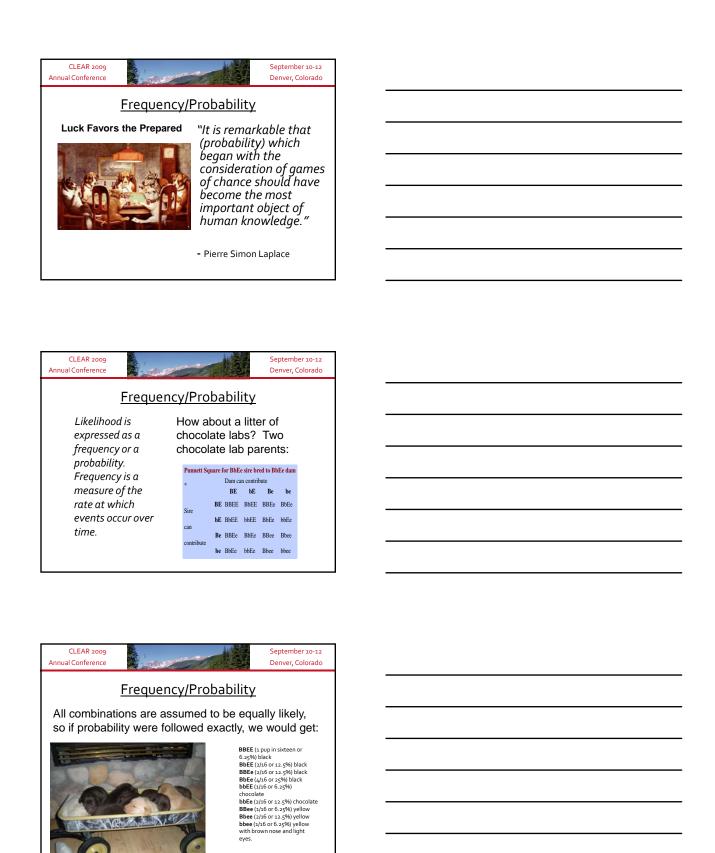


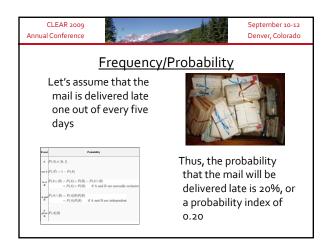


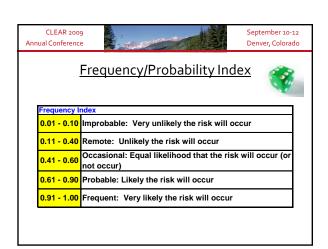






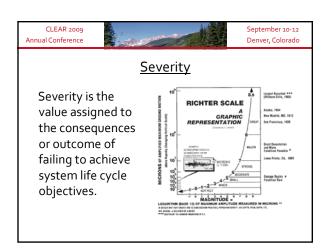


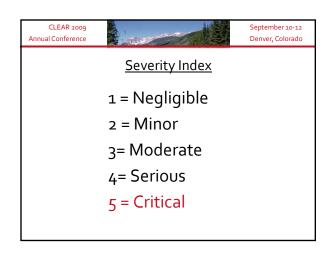


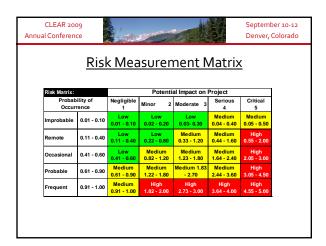






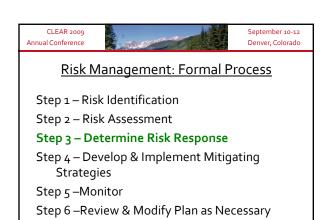














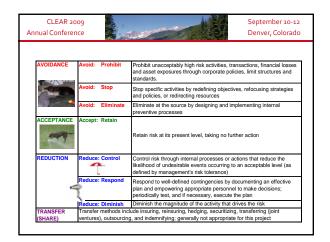
### Step 3: Agency Risk Response

Risk Response Options:

- Avoid the risk
- Accept the risk
- Reduce the risk
  - Control
  - Reduce
- Transfer the risk

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Step 3: Agency Risk Response				
Based on:				
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- Risk appetite the amount of risk an entity is willing to accept in pursuit of objectives
- Risk tolerance the amount of risk (or loss) an entity can tolerate in pursuit of objectives
- Risk Management Culture
- Tone from the Top!





#### Risk Response - Avoidance

Prohibit, stop or eliminate

Redefine objectives:

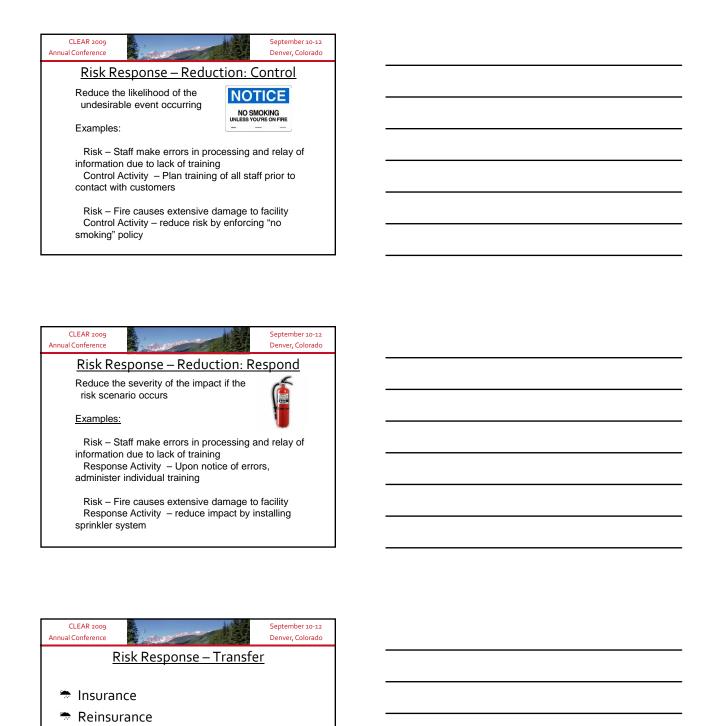
High level of defects in production of Widget#1; remove from line and no longer produce

Corporate policies, limits and standards:

Prohibit specific types of investments, purchases, etc.



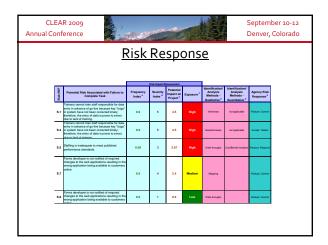
- This involves accepting the loss when it occurs
- All risks that are not avoided or transferred are retained by default
- Tiable strategy for small risks in which cost to mitigate is greater over time than the losses sustained
- ⇒ Includes risks that are so catastrophic that they either can't be mitigated or the cost to mitigate is infeasible



Hedging

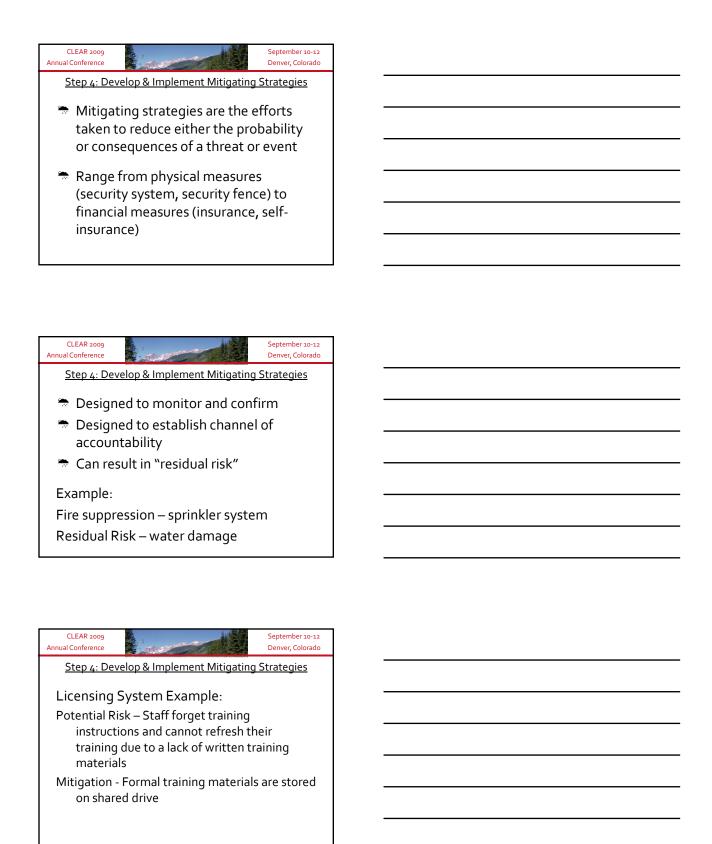
Outsourcing

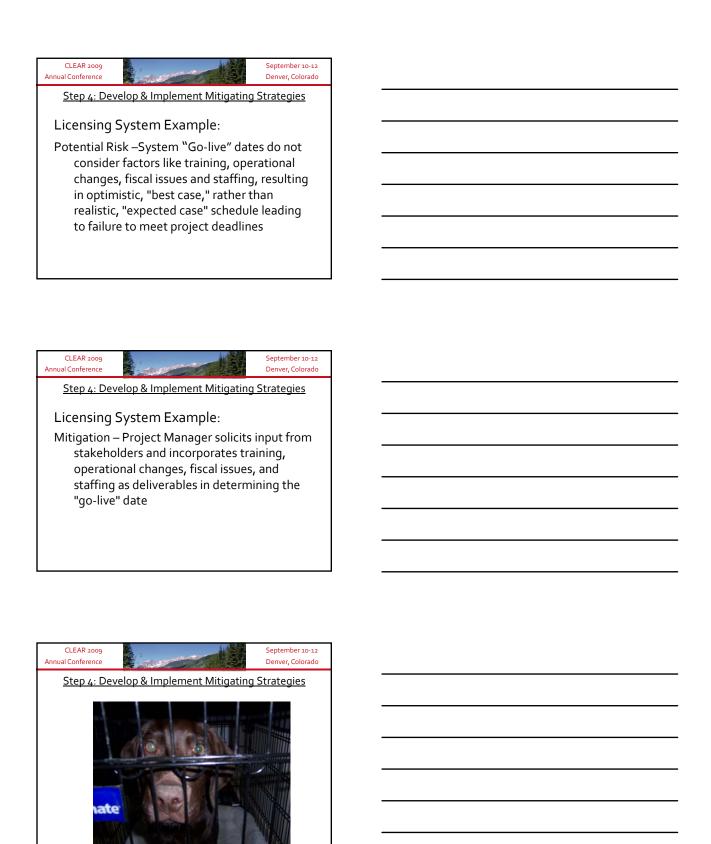
Indemnification (hold harmless clauses)

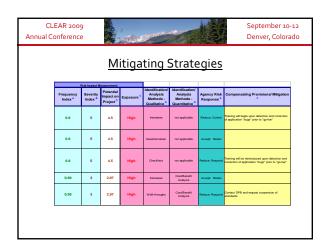






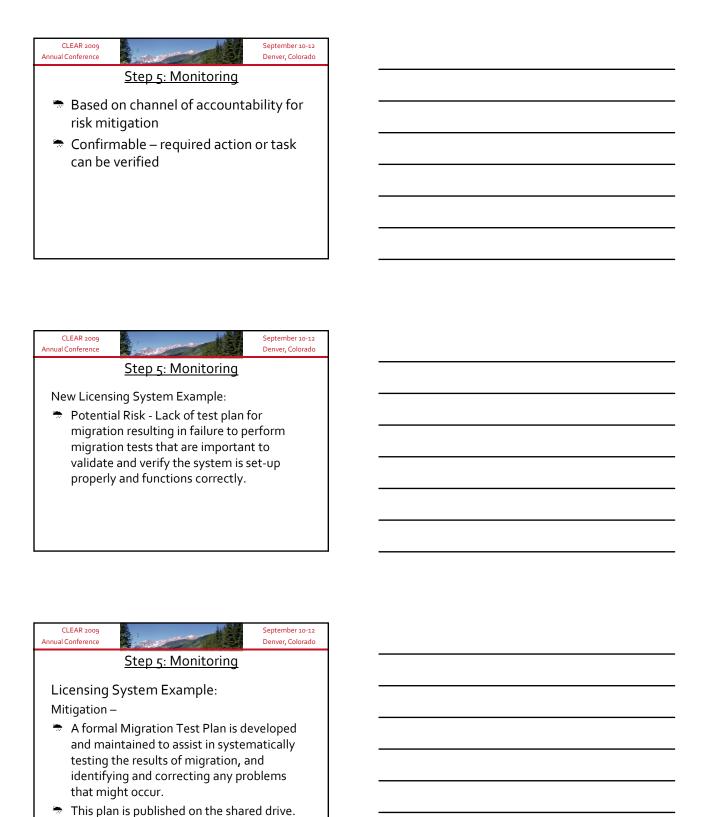












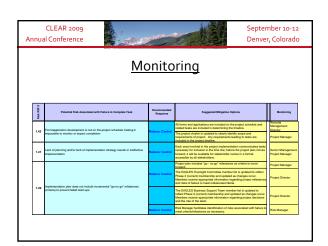


## Step 5: Monitoring

## Licensing System Example:

### Monitoring -

- The development of the formal Migration Test Plan is assigned to an individual with a due date.
- Completion is confirmed to the Risk Manager to include file name and path of location on shared drive; updates to the plan are confirmed to the risk manager.



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