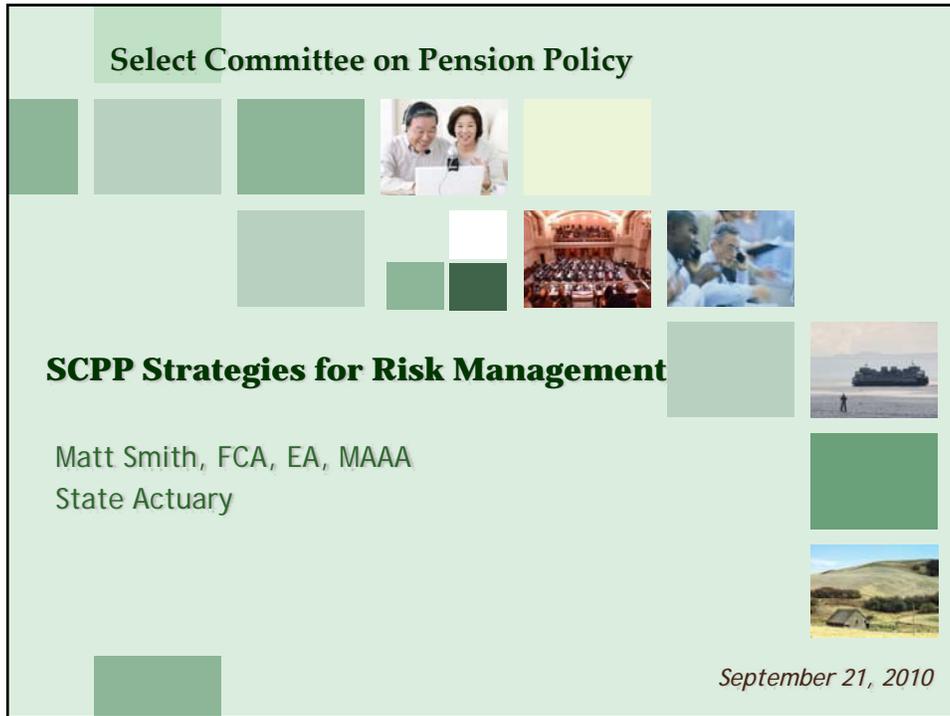


Select Committee on Pension Policy



SCPP Strategies for Risk Management

Matt Smith, FCA, EA, MAAA
State Actuary

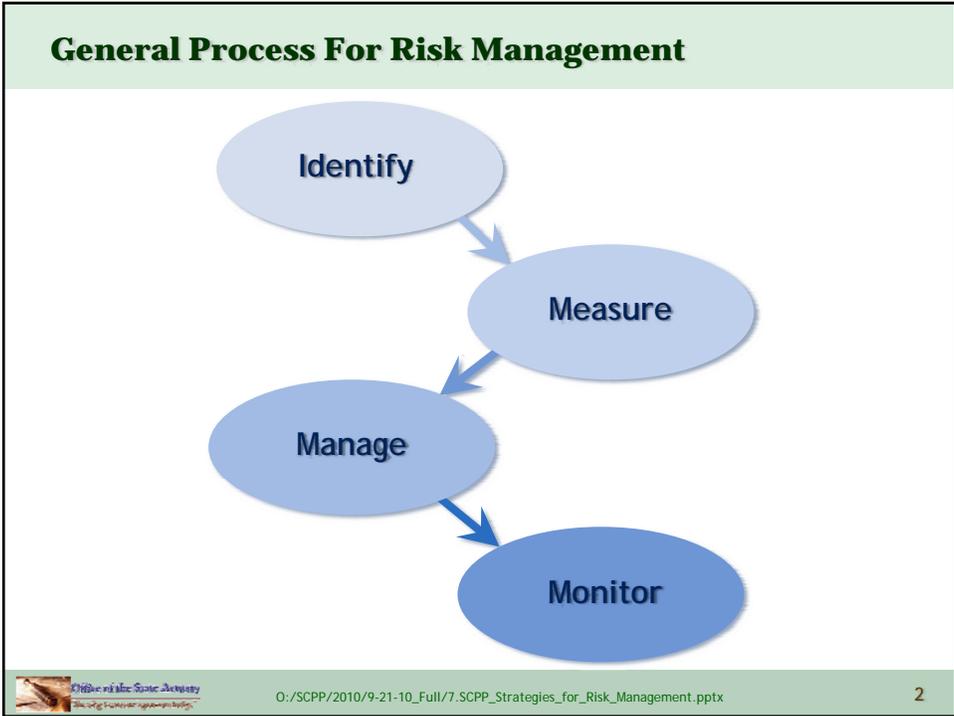
September 21, 2010

Today's Presentation

- Help you prepare strategies
 - Financial risk management
 - Where to focus and why
- Understanding financial risk for pensions
- Identifying root sources
- Controllable vs. non-controllable risks
- Discussing opportunities
- Next steps



 O:/SCPP/2010/9-21-10_Full/7.SCPP_Strategies_for_Risk_Management.pptx 1



What Is Risk?

- Multiple definitions exist
- "Exposure to the chance of injury or loss" (dictionary.com)
- "An uncertain event or condition that, if it occurs, has a positive or negative impact on a project's objectives" (wikipedia.org)

?

What Is Financial Risk?

- "An umbrella term for any risk associated with any form of financing" (wikipedia.org)
- "The risk that a company will not have adequate cash flow to meet financial obligations" (dictionary.com)

Financial Risk For A Pension Plan

- Chance of having insufficient assets to pay promised benefits
- Possible outcomes
 - Plan closure
 - Pay-go funding
- Symptoms
 - Low funded status
 - Unaffordable contribution rates



Sources Of Financial Risk For Pensions

- Funding deficiencies
- Unaffordable benefit improvements
- Untimely asset losses

Digging Deeper Identifies Root Sources

- What are some root sources for funding deficiencies, unaffordable benefit improvements and untimely assets losses?
- We'll review each separately



Root Sources For Funding Deficiencies

- Reaction to increasing contribution rates
 - We can't afford it
- Reaction to unsustainable asset growth
 - We think the plan costs less than it really does
- Lack of revenue when needed
 - We don't have the money

Root Sources For Unaffordable Benefit Improvements

- Reaction to unsustainable short-term revenue and/or asset growth
- Reaction to unsustainably low contribution rates
- In both cases we adopt permanent benefit improvements with one-time extra money



Root Sources For Untimely Assets Losses

- Market risk combined with poor funded status
- Market rewards come with risk
- A poorly funded plan may have little time to recover from market losses

Findings From Risk Assessment

- Twenty-year look back
- Funding deficiencies
 - On average, plans received 80 percent of required contributions
- Unaffordable benefit improvements
 - Consistent growth in liabilities from past benefit improvements
 - Time will tell whether they're affordable
- Untimely asset losses
 - Investment income on target but with large asset losses at end of PERS 1 and TRS 1 life cycle

Possible Future Outcomes From Risk Assessment

- Continuing past practices leads to increased financial risk
 - Affordability challenges
 - Significant pay-go risk in closed plans
- Risk assessment measured those risks (earlier presentation)

Controllable Vs. Non-Controllable Risks

- Can we control some of these risks?
- Pension system can control reactions
 - To increasing or unsustainably low contribution rates
 - To unsustainable short-term revenue growth
 - To unsustainable asset growth
- Pension system can't control
 - Market risks
 - Available revenue



Managing Controllable Risks

- How can we manage controllable risks?
 - Through funding and benefit policy
- Fully fund the plans
- Anticipate revenue volatility and capitalize on short-term revenue growth when available
 - Fund more when you can
- Recognize unsustainable revenue and asset growth
 - Maintain minimum levels of funding
 - Sustainability analysis before significant benefit improvements

Managing Controllable Risks Helps Manage Non-Controllable Risks

- Pension system can't control market risks and available revenue, but ...
- Fully fund plans
 - Less vulnerable to market risk with higher funded status
- Fund more when you can
 - Provides a "reserve" or "insurance" when revenue falls short
 - Capitalizes on strengths to address known weaknesses
- Maintain minimum levels of funding and sustainability analysis before significant benefit improvements
 - Decreases chance of adopting unaffordable benefit improvements and unsustainably low contribution rates
 - Improves funded status and protection against market risk

Back To Basics

- Risk management basics
- Identifying sources of financial risk
- Measuring these risks
- Developing plans or strategies to manage risks
- Measuring and monitoring on an on-going basis



Recap

- Financial risk for a pension plan
 - Chance of having insufficient assets to pay promised benefits
- Three root sources of financial risk for pensions
 - Funding deficiencies
 - Unaffordable benefit improvements
 - Untimely asset losses
- Manage controllable risks (examples)
 - Fully fund plans
 - Fund more when you can
 - Maintain minimum levels of funding
 - Sustainability analysis before significant benefit improvements
- Managing controllable risks helps manage other risks

Questions To Consider

- Which financial risks or outcomes do you want to
 - Accept?
 - Avoid?
 - Mitigate?
 - Transfer (if possible)?
- Answering these questions will help you prepare specific risk management strategies



Next Steps

- Executive Committee direction on which strategies to explore
- Staff available to consult as you develop and evaluate strategies
- Staff will report back to full committee

