

Morgan Stanley

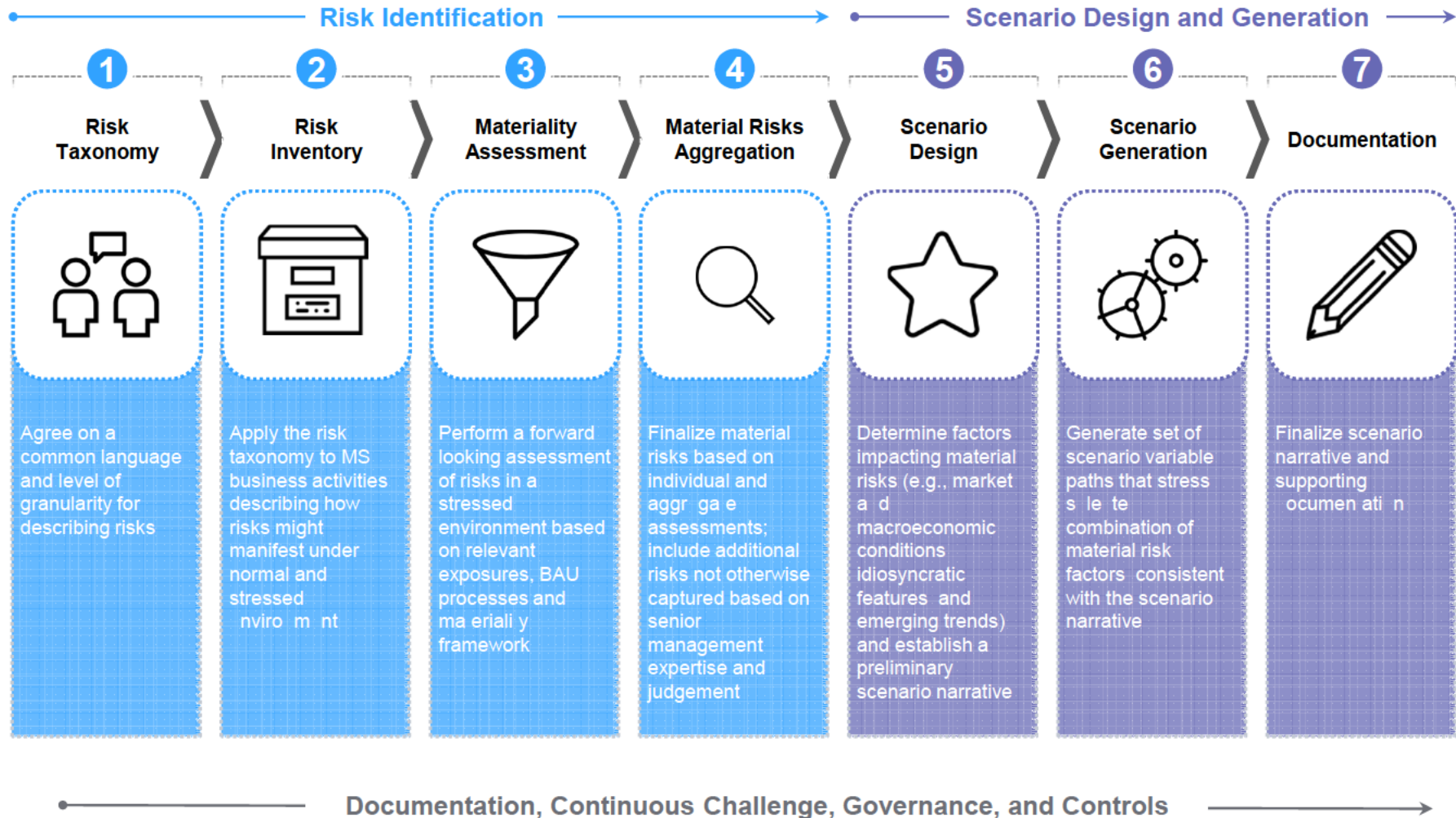


## **Risk Identification, Scenario Design and Loss Estimation**

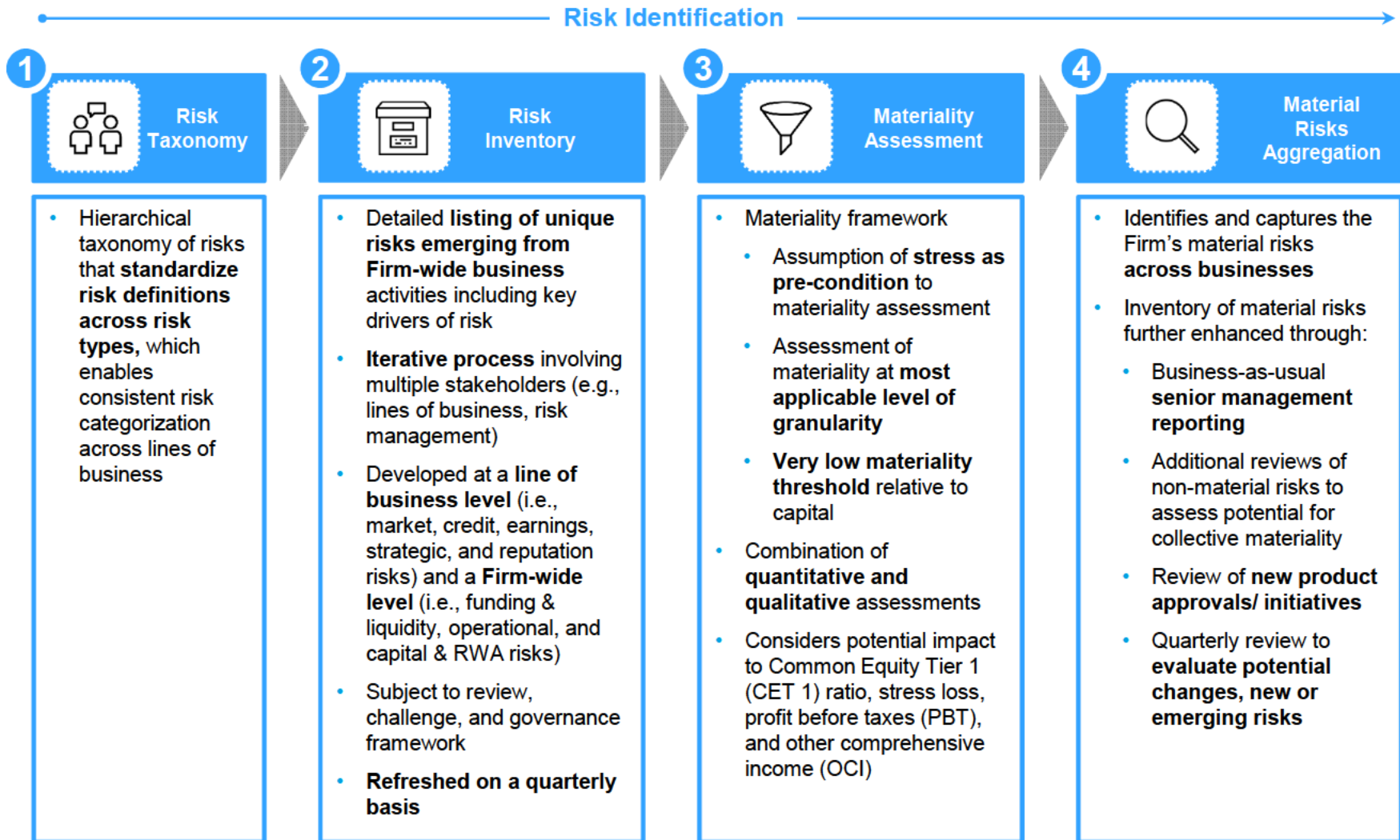
Morgan Stanley Presentation to the FRB Model Symposium

**October 4, 2017**

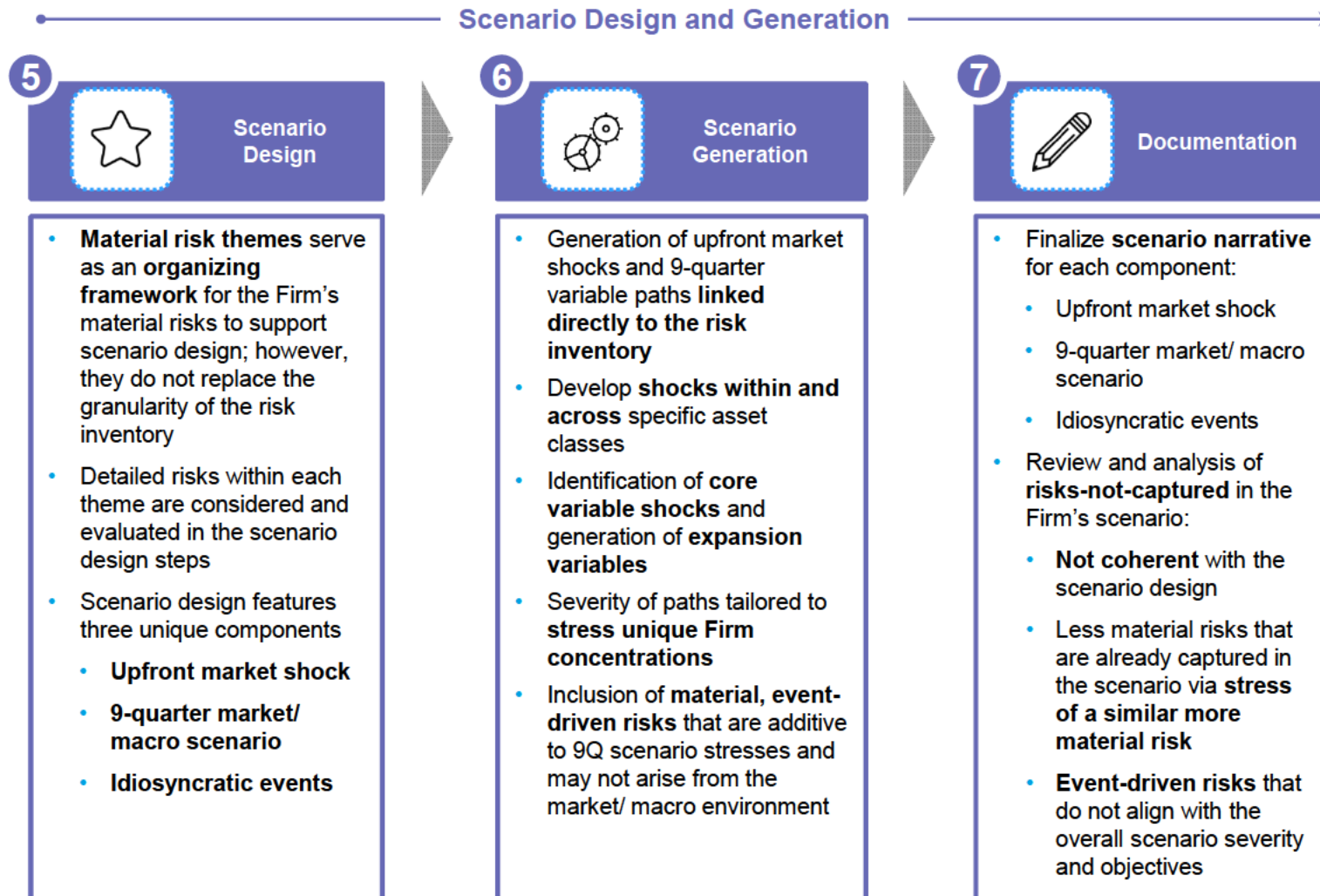
# Risk Identification and Scenario Design Framework



# The Risk Identification Process



# The Scenario Design Framework



# Risks, Materiality, Scenario Factors/ Variables and Results

## Examples From the Risk Inventory

The inventory is refreshed on at least a quarterly basis factoring in (i) new products/ business initiatives, (ii) changes to the Firm's exposures, business mix or risk profile and (ii) changes to the market/ macroeconomic environment

Sample Elements Included in the Firm's Risk Inventory										
Risk Taxonomy			Risk Inventory						Scenario Design and Generation	
Level 1	Level 2	Level 3	BU Owner	Risk Description	Key Risk Drivers	Risk Rating	Material Risk	Scenario Factor	Key Scenario Variables	Scenario Capture
Market Risk	Corporate Credit	Concentration Risk	FID	<b>Sector Concentration</b>  Potential for MtM losses due to changes in industry / sector specific credit spreads	Sector specific credit spread concentrations	Medium	Yes	More severe spread widening in sectors where the Firm is concentrated	Industry specific shocks	Captured through industry specific shocks for top sectors
Credit Risk	Obligor Credit Risk	Geography Concentration	IBD	<b>Geography Concentration</b>  The firm's Lending business has concentration to obligors in certain geographies	Country specific interest rates  Country specific spreads	High	Yes	Decline in GDP Growth  Spread widening	Country specific GDP  Country specific rates and spreads	Captured through regional / country level GDP and spreads

*Feedback loop from scenario results to materiality assessment and scenario factors*

# Integrated Role of Risk Identification/ Scenario Design into Capital Planning and Risk Management

