# **SEAC 2020**

Why the Chief Modeling Officer should have a seat at the Executive Table

Van Beach, FSA, Principal Milliman

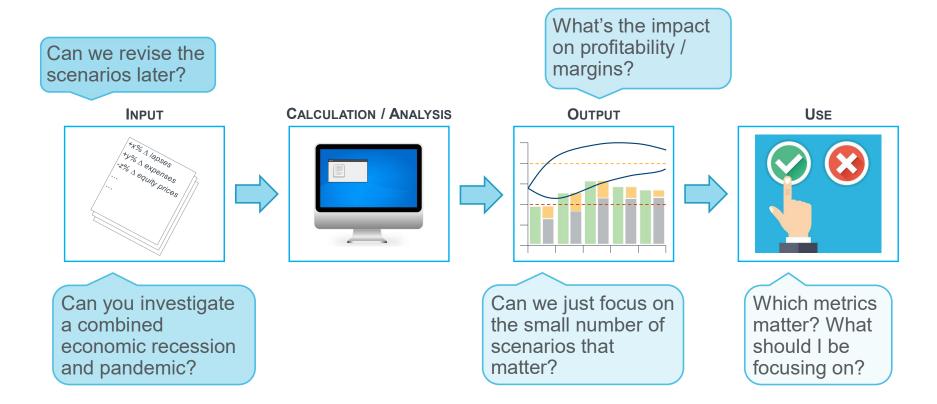
**NOVEMBER 2020** 



# 1. Stakeholder Requirements Increasing demands for analysis and quality

## **Stakeholder Requirements (1)**

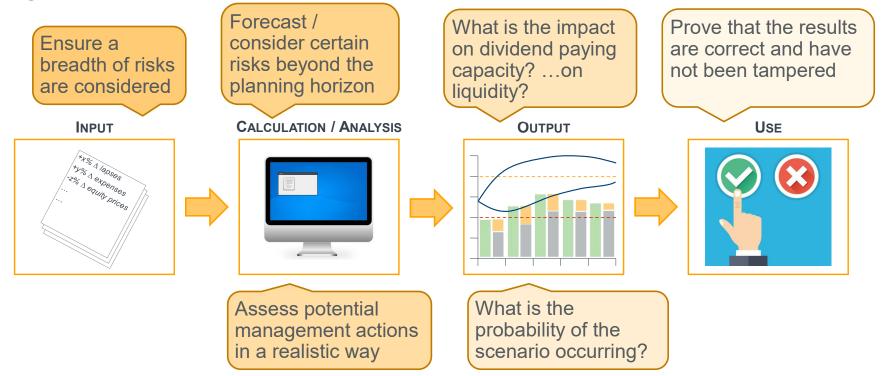
### The Board





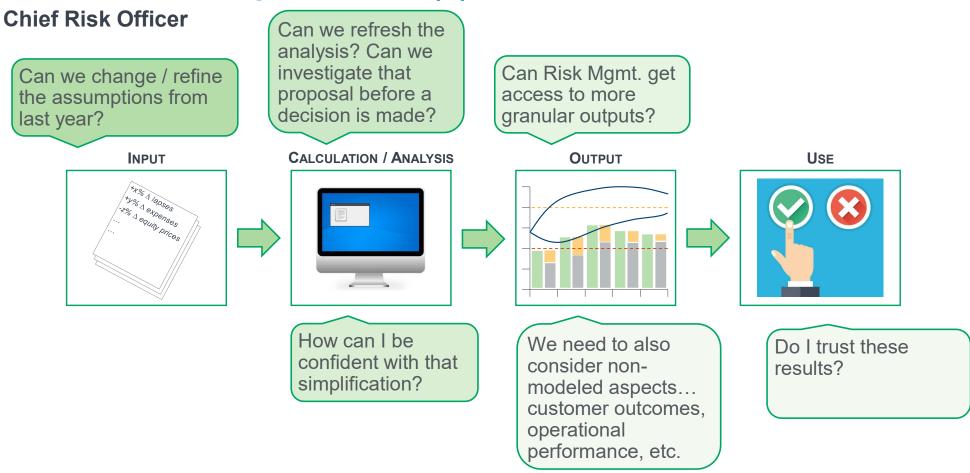
## **Stakeholder Requirements (2)**

### The Regulator



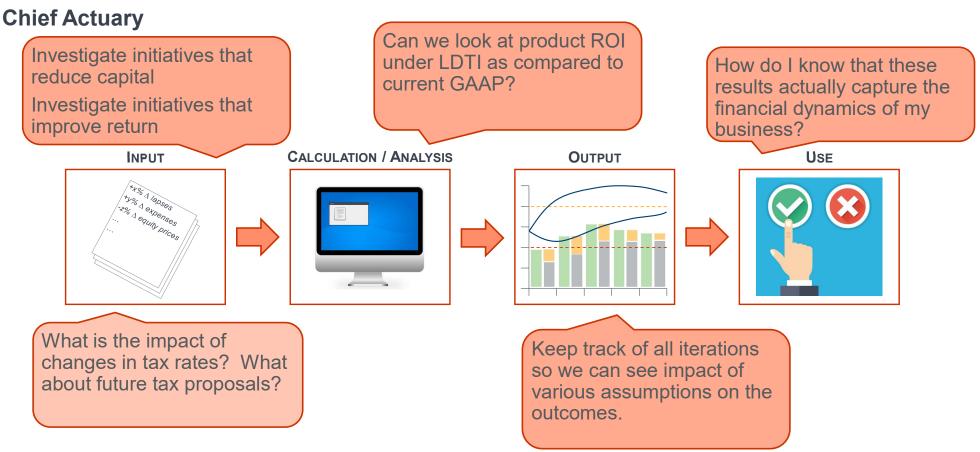


### **Stakeholder Requirements (3)**





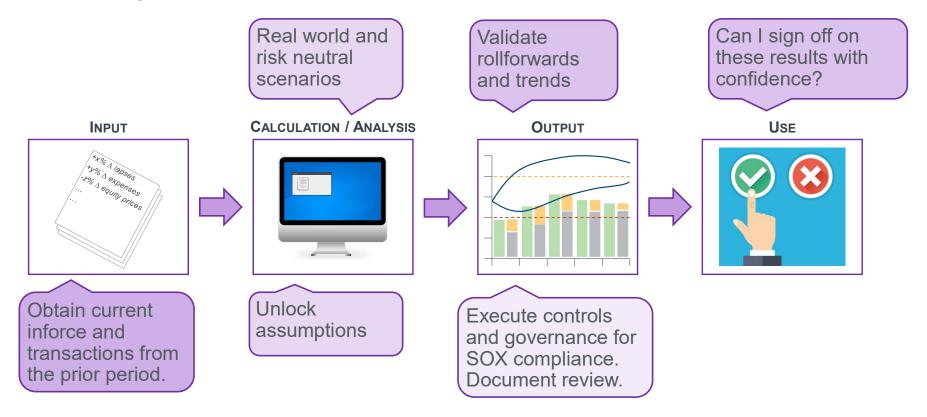
## **Stakeholder Requirements (4)**





### **Stakeholder Requirements (5)**

### **Valuation Actuary**





# 2. Practical Challenges Actuarial and Risk Functions

### **Practical Challenges**

What is hard about keeping the stakeholders happy?



- Ever increasing reliance on models not built for scale or consistency
- Reliance on manual processes and key persons
- Models not well-understood



- Making changes without breaking other calcs
- Insufficient granularity for reporting
- Lack of scale for complex analyses



- Inter-team resource / priority conflicts
- Sub-optimal skills and resourcing
- Clarity on requirements



- Low technology enablement
- Diversity of tools and processes
- Loose change management
- Actuarial domain not wellunderstood



# 3. Remodeling the Actuarial Function Introducing the Chief Modelling Officer

### **Evolving the modeling function**

- Understand the process
- Reduce the effort to produce the "must-haves"
- Refocus and redeploy the capacity
- Recognize and consolidate the function
- Get the org structure, skills, and responsibilities aligned
- Elevate a leader for accountability and respect



### **Business vs. Operations | Development and Production**

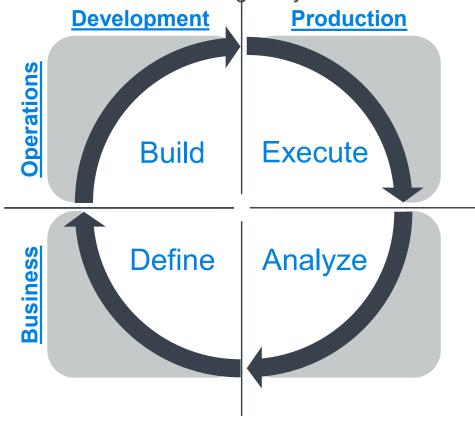
Modeling has evolved to become a complex, diverse, manual process that is often not well-understood. First we must understand this fundamental modeling lifecycle.

### **Operations**

- Owns the "how" of the model
- Skills are highly technical
- Processes are general and must be consistent

### **Business**

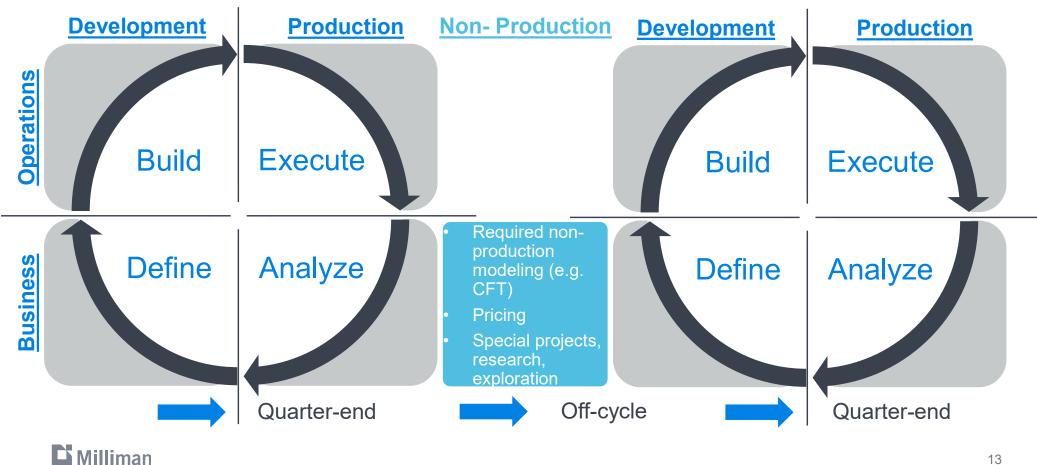
- Owns the "what" of the model
- Skills are business and analytical
- Insights are diverse and specific to the analysis





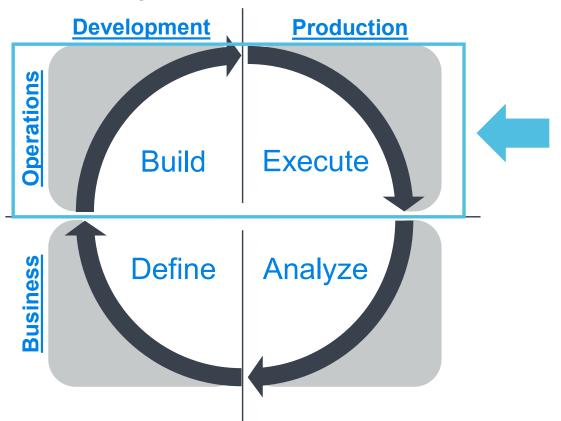
### Production modeling too often dominates actuarial activity

Production processes dominate, limiting time for value-add analysis



### How to shrink the production footprint

The challenge is operational

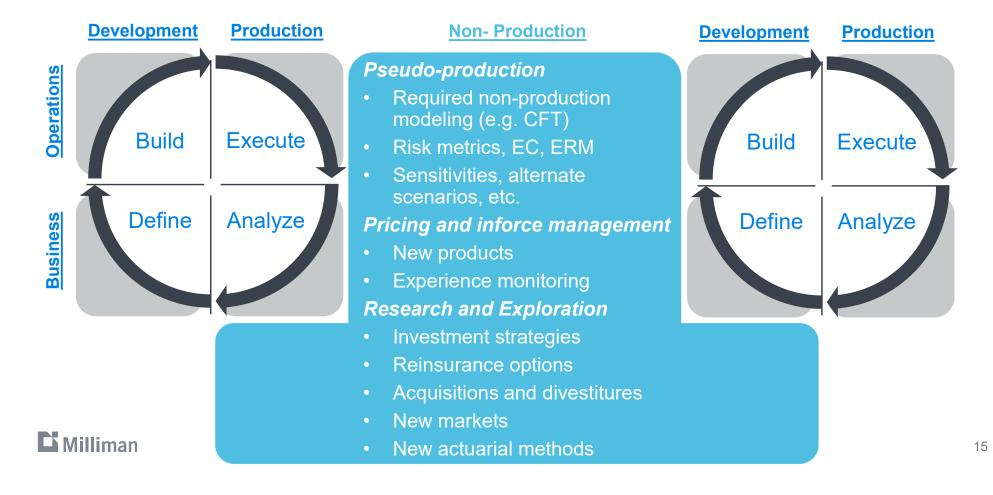


- Consistency and reuse
- Automation
- Focus on maintenance and structure of the models and process
- Rationalize tools and models
- Align skills with the tasks
- Build skills and best practices continuously improve

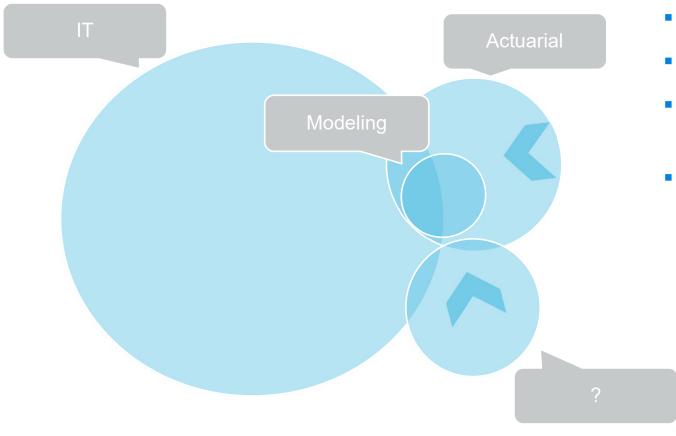


### What is to gain?

Optimizing the production lifecycle unlocks capacity



## Worlds colliding – what to do?



- Partner with the IT org
- Partner with a vendor
- Bring the skills into the actuarial org
- Some combination of the above

Milliman Milliman

### Modern actuarial function requires an evolution

Business needs to drive more analytics; enabled through an operations-focused partner



- Leverage new technology
- Deliver automated, compliant processes
- Enable research and exploration



- Acquire and develop specialized skills
- Create synergies amongst
  IT, modeling, data science,
  process engineering, etc.



- Create partnerships
- Be accountable to business partners



- Consolidate, rationalize, and harmonize tools and process
- Focus on consistency, maintenance, AND enablement

Modeling needs to be recognized, consolidated, elevated



### Chief Modeling Officer- Leader of the modern modeling function

An organization who can be a partner with the business – sum greater than the parts



Focused.

- Reduce cost of compliance and production
- Enable greater levels of exploration and analysis
- Long-term sustainabiltiy



Accountable.

- Measured on ability to unlock capacity and add value
- Accountability to deliver to stakeholders



Diverse, Inclusive, and Respected.

- Cast wide net, assemble a diverse skillset
- Create a career path to retain technical talent
- Staff with appropriate resource (i.e. not junior actuaries)



- Mandate to optimize the actuarial modeling function
- Aggressively pursue technology, expertise, approaches that will advance actuarial capabilities

Modern actuarial organization enabled to



move beyond compliance

to explore possibilities and

pursue competitive advantage



# Thank you

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# The CModO deserves a seat at the Executive Table

Read and hear more:

https://theactuarymagazine.org/undeniablesynergy/

https://soapodcasts.libsyn.com/modeling-sectionundeniable-synergy-a-discussion-on-the-chiefmodeling-officer-role-with-van-beach