

HEALTH WEALTH CAREER

CONNECTICUT RETIREMENT SECURITY BOARD MEETING

October 7, 2015

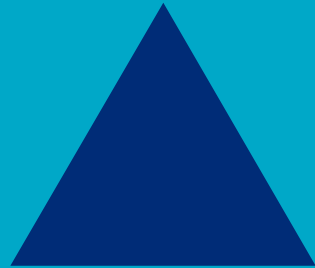
Rashid Hassan
Bradley Kellum
Neil Lloyd
Stacy Scapino

Hartford, CT

A G E N D A

1. Annuities & Securing Retirement Outcomes
2. Guarantees
3. Financial Feasibility Modelling Overview

ANNUITIES & SECURING RETIREMENT OUTCOMES



ANNUITIES SPECIFIC STATUTE

“The CRSB proposal should include, but not be limited to, the following goals and design features...”

Sec. 185 (8)

The provision of an annuitized benefit with options for conversion to lump sum payout upon retirement, spousal benefit, and pre-retirement death benefits, to enable a Program participant to bequeath assets to designated beneficiaries.”

A USEFUL ROADMAP

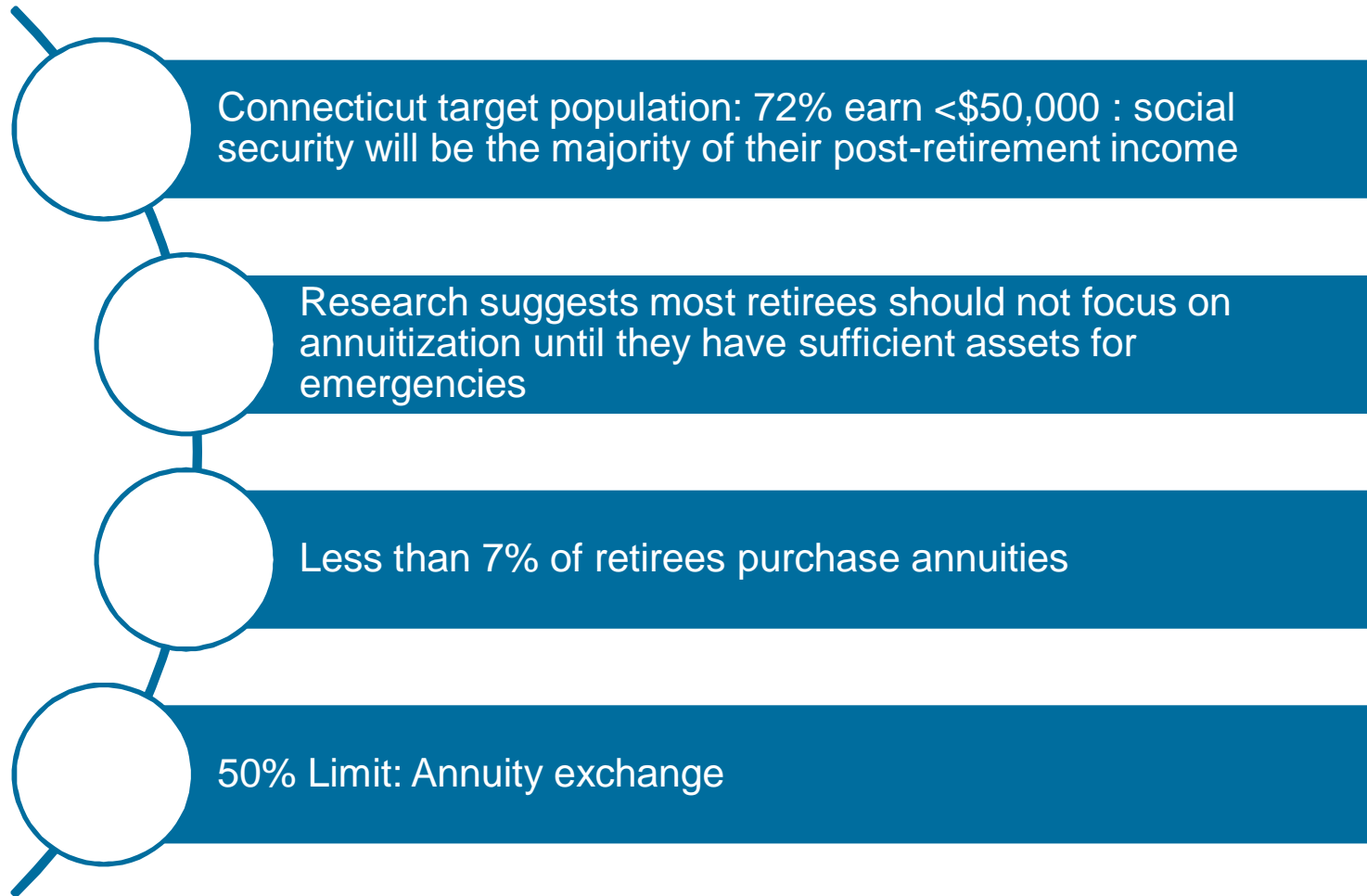


For today, we:

1. Consider the annuitization question
2. Discuss a more holistic approach to developing a retirement income strategy.
 - Principles for development
 - Lifecycle approach
 - Retirement income options

ANNUITIZATION QUESTION

KEY CONSIDERATIONS



GIVEN THE LEGISLATURE'S GOAL OF REDUCING POVERTY IN RETIREMENT, POTENTIALLY RECOMMEND

- Make annuitization one component of the retirement income strategy.
- Focus the retirement income strategy on the “reduced need for public assistance” objective as well as income in retirement.

A HOLISTIC STRATEGY SHOULD INCORPORATE RETIREMENT INCOME PRINCIPLES

Construct

Build a solid income floor

Design to the “U”

Leverage buying power

Know your fiduciary position

Understand participant demographics

Engage

Offer flexibility through an Income Menu

Provide assistance

Avoid too rapid drawdown

Execute

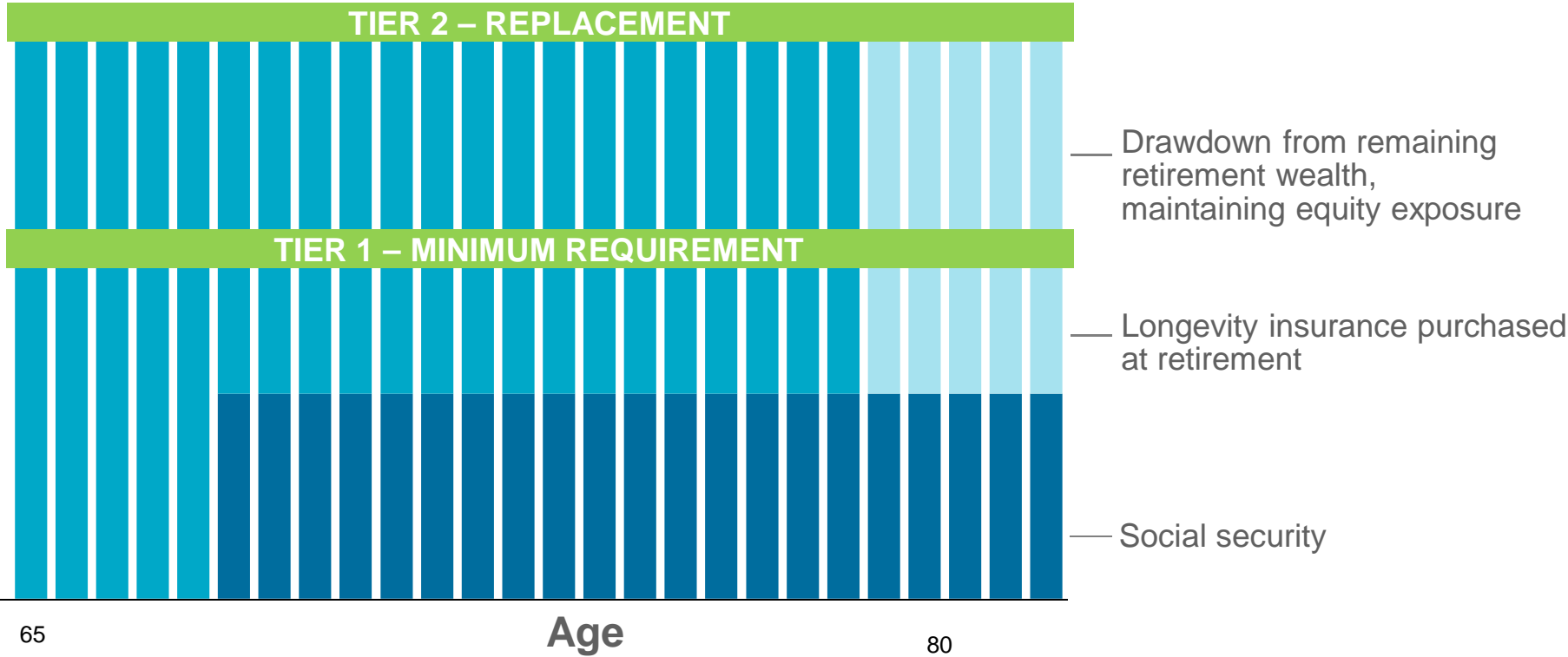
~~Integrate workforce planning~~

Put all wealth to work

Manage through the life cycle

Manage market and longevity risks

BUILD A SOLID INCOME FLOOR
PROTECTION AGAINST POVERTY



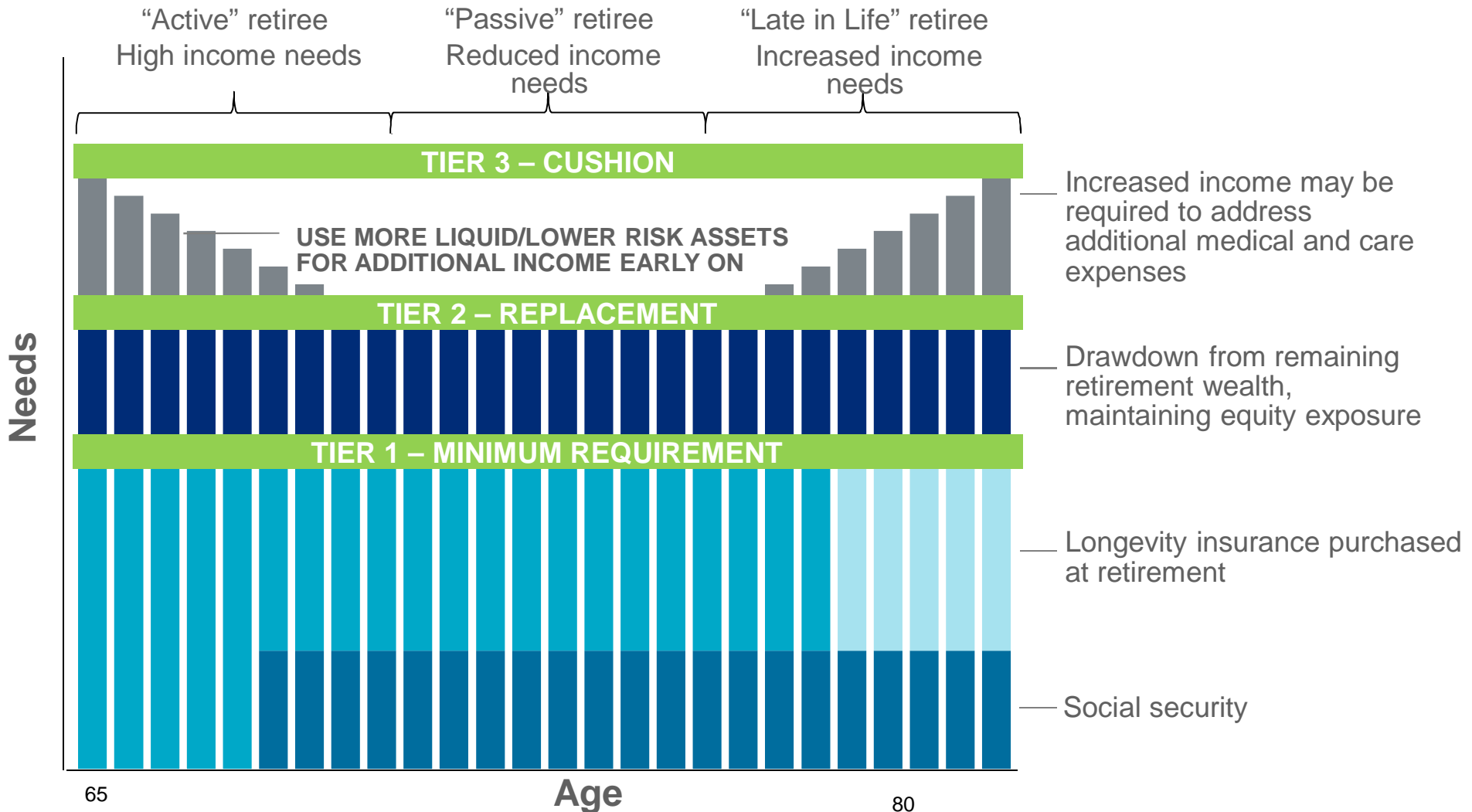
DESIGN TO THE “U”

INCOME NEEDS SHIFT THROUGHOUT RETIREMENT

| “Active” Retiree (~65-75) | “Passive” Retiree (~75-85) | “Late in Life” Retiree (~85+) |
|--|---|--|
| <ul style="list-style-type: none"> • Still physically active • Want to travel – holidays, see grandchildren • High (as possible) income needs | <ul style="list-style-type: none"> • Less physically active but generally healthy • More likely to be “stay at home” • Income needs reduce | <ul style="list-style-type: none"> • Less physically active, increased health issues • May need long-term care assistance • Increased income needs due to health and long-term care |



DESIGN TO THE “U”



ADDITIONAL STATUTORY GOALS AND ELEMENTS THAT ARE RELEVANT TO THE DISCUSSION

- (1) An increase in access to and enrollment in quality retirement Programs without incurring debts or liabilities to the state.
- (3) A minimal need for financial sophistication in Program participants.
- (7) Low administrative costs that shall be limited to an annual, predetermined percentage of the total Program balance.
- (18) The dissemination of educational information concerning saving and planning for retirement to potential Program participants.
- (23) Ensuring that any contract entered into by or any obligation of the Program shall not constitute a debt or obligation of the state and the state shall have no obligation to any designated beneficiary or any other person on account of the Program and all amounts obligated to be paid pursuant to the Program shall be limited to amounts available for such obligation.

A RETIREMENT INCOME STRATEGY THROUGH THE LIFECYCLE (SOME OPTIONS)

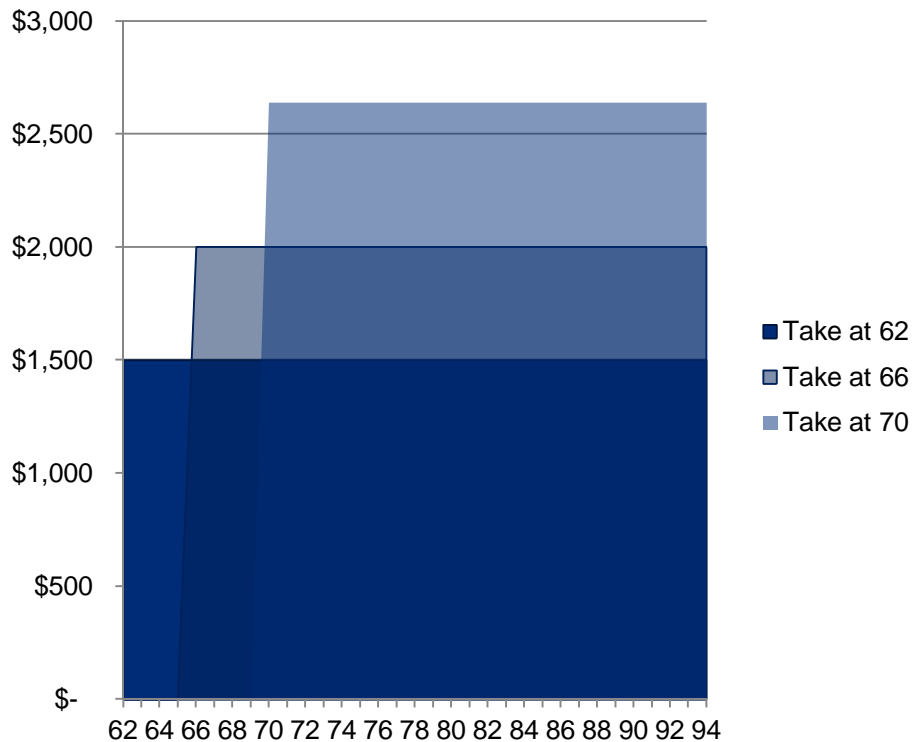
| Accumulating member (to ~55) | Pre-retiree (~55+) | At retiree (~65) | Retiree (65+) |
|--|---|---|----------------------------------|
| General financial and retirement education | Retirement-focused education | At retirement assistance/advice: | In retirement assistance/advice: |
| Frame retirement benefit as income | | | |
| | Build lifetime income product into investment product | | |
| | Managed accounts | | |
| | | Ability to make systematic withdrawals | |
| | | Access to institutional products: <ul style="list-style-type: none">Retirement income menu, including an annuity exchange | |
| | | Default retirement income option | |
| Consolidation | | | |

A RETIREMENT INCOME STRATEGY THROUGH THE LIFECYCLE

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AT RETIREMENT ADVICE

OPTIMIZE SOCIAL SECURITY AT RETIREMENT



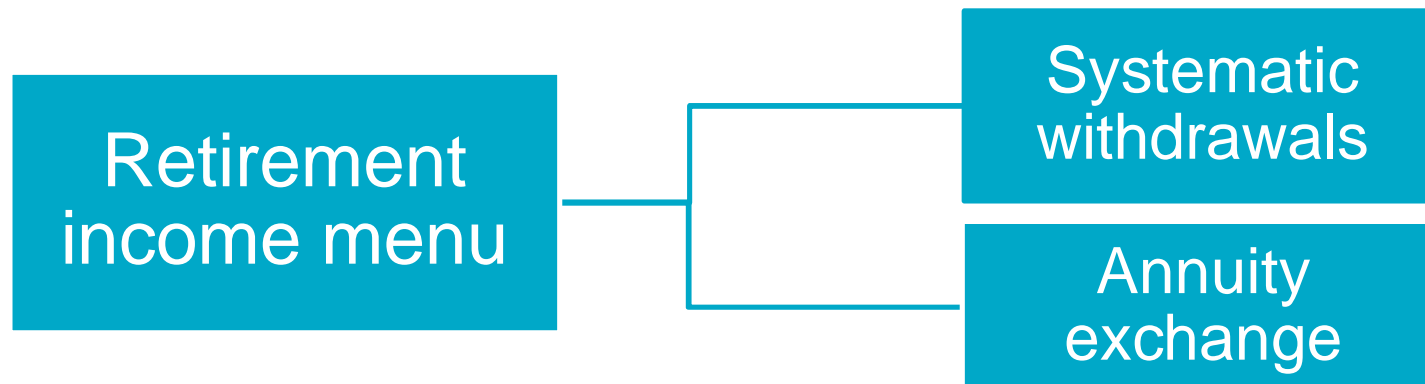
Other “at retirement” questions:

- If I delay social security, what do I do in the meantime?
- From which product/plan should I draw my retirement proceeds first? My 401K plan, my Roth IRA, etc...?
- How do I deal with the fact that Medicare only applies from 65 onwards?

RETIREMENT INCOME MENU AND DEFAULT

Proposed default: Required minimum distributions as a systematic withdrawal

- Low income: nudge for an active choice
- Reversible option; can integrate with TDF; legal compliance



SUMMARY PROPOSED RECOMMENDATIONS

Regarding annuitization

Make annuitization one component of a retirement income strategy

Focus the retirement income strategy on the “reduced need for public assistance” objective as well as income in retirement

Regarding participants

Frame the Program benefits as a lifetime income benefit by the inclusion of an income projection not just a wealth accumulation

Provide retirement-focused education to pre-retirees that highlights how a retirement income strategy needs to be tailored to an individual’s circumstances and that there is not an ideal ‘one size fits all “ solution

Do not include a lifetime income solution or a managed account solutions as an investment option (at this stage) in the accumulation phase

Encourage participants to consolidate their retirement assets into this Program, consider facilitating a service that can assist participants in consolidating their retirement assets

Provide assistance that enables retirees to optimize their social security claiming strategy

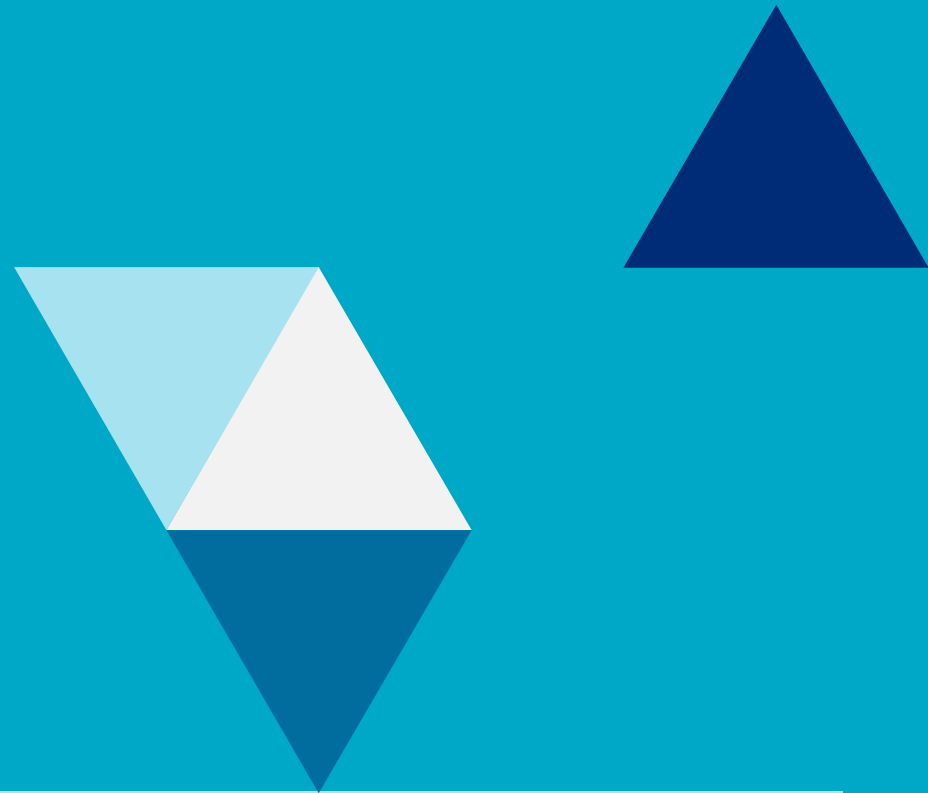
Provide assistance and guidance on the many key questions that participants face in retirement

Make the default retirement income option a Required Minimum Distribution

Make available a simplified retirement income menu comprising:

- The ability to make systematic withdrawals; ideally with accompanying retiree statements
- Access to an annuity exchange for retirees to purchase annuity contracts with all or a portion of their retirement capital

GUARANTEES FOLLOW UP



GUARANTEES

RELEVANT GOAL & DESIGN FEATURE

Sec. 185 (6)

Plan portability through maintenance of individual retirement accounts for each plan participant;

Sec. 185 (9)

“An annually predetermined guaranteed rate of return and the procurement of insurance, as necessary, to guarantee the stated rate of return;”

KEY CONSIDERATIONS IN OFFERING A GUARANTEE

| | Benefits | | | Cost | Participant Communication | Portability | Operational Complexity | Retirement Readiness |
|---|----------------------|-------------------------|----------------|--------------------|--------------------------------|---|-----------------------------------|---|
| | Principal Protection | Retirement Income | Longevity Risk | Insurance Fees | Difficulty level of explaining | Withdrawal limit | Additional Operational Complexity | Improves Income Replacement Ratio in Retirement |
| Target Date Fund (TDF) with principal guarantee | Only at retirement | No, must buy an annuity | No | 1.00% ¹ | Simple | Participants lose the guarantee if assets are withdrawn | Yes | No |
| TDF with x% return guarantee | | | | 2.00% ² | | | | |
| Stable Value Fund | Yes | | | 0.50% ³ | Difficult | Yes | Yes | |
| Conservative Fund | Yes | | | N/A ⁴ | Potentially difficult | Most likely | Yes | |
| Money Market Fund | Yes | | | N/A | Simple | No | No | |

¹ Indicative pricing gathered from two insurers.

² Assumes 1% return guarantee.

³Based on Mercer's stable value fund survey for qualified DC plans.

⁴This type of solutions typically lack fee transparency. The guaranteed rate of return includes the cost of offering the guarantee.

GUARANTEE COSTS* REDUCE THE INCOME REPLACEMENT RATIO

EXPECTED INCOME REPLACEMENT RATIO (INCLUDING SOCIAL SECURITY BENEFITS) AT 6% CONTRIBUTIONS, IF INVESTED IN A TARGET DATE FUND WITH NO GUARANTEES**

| | Age 25 | Age 40 | Age 55 |
|-------------|--------|--------|--------|
| Low Income | 93.3% | 68.5% | 58.1% |
| Mid Income | 88.8% | 59.7% | 49.5% |
| High Income | 83.7% | 51.8% | 36.0% |

THE EXPECTED DECLINE IN INCOME REPLACEMENT RATIO IF ASSETS ARE INVESTED IN A GUARANTEED OPTION LISTED BELOW VS. INVESTING IN A TARGET DATE FUND WITH NO GUARANTEE**

| Across all income levels | Age 25 | Age 40 | Age 55 |
|---|--------|--------|--------|
| Target Date Fund with Principal Guarantee | 10.7% | 2.8% | 0.3% |
| Target Date Fund with 1% Return Guarantee | 18.0% | 5.0% | 0.6% |
| Stable Value Fund | 20.4% | 5.4% | 0.6% |
| Conservative Fund | 30.4% | 9.2% | 1.1% |
| Money Market Fund | 30.6% | 9.3% | 1.1% |

*Cost includes both higher fees and lower expected return. Please see Mercer's Guarantee memo for assumptions used to calculate income replacement ratios.

**Includes investment management cost of about 20 basis points and 1% cost of plan administration

MEETS STATUTORY GUIDANCE?

| Options to Consider | Guarantee Statute | Portability Statute |
|---|-------------------|---------------------|
| Target Date Fund with Principal Guarantee | No | Yes |
| Target Date Fund with 1% Return Guarantee | No | Yes |
| Stable Value Fund | Yes | No |
| Conservative Fund | Yes* | No* |
| Money Market Fund* | Yes** | Yes |

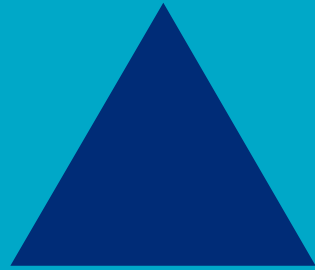
* The Conservative fund can be structured to have a withdrawal restriction or a withdrawal fee. Please note that the withdrawal fee can be in excess of the guaranteed rate of return, resulting in a loss of principal value.

**Meets the guarantee statute's requirement through its principal guarantee in most circumstances except in extreme capital market situation such as 2008. However, it is possible that after plan administration cost the asset value of an account invested in the money market fund may fall below its principal value.

DECISIONS

- Statutory Conforming Plan: What guarantee do you want to consider offering?
- Recommended Plan: Do you want to offer a guarantee at all? If so, in what format?

FINANCIAL FEASIBILITY STUDY OVERVIEW



THE FINANCIAL FEASIBILITY MODEL WILL REQUIRE MAKING ASSUMPTIONS TO ADDRESS A RANGE OF QUESTIONS ABOUT THE CONNECTICUT RETIREMENT SECURITY PROGRAM

Key questions

Assumed plan design

What program structure

- IRA structure
- Target date or similar investment vehicle assigned to individual based on age
- Key parties include employers, payroll provider, IRA admin, IRA depository/custodian, asset manager

Which employers will participate

- “Qualified employers” that do not currently offer a qualified retirement plan, defined as any person, corporation, limited liability company, firm, partnership, voluntary association, joint stock association or other entity that employs five or more persons in the state¹

Which employees will participate

- Automatic enrollment within 90 days of eligibility
- Mandatory participation unless an employee chooses to opt out

How much will employees contribute

- Eligible compensation includes “Box 1” W-2 income and certain other forms of income such as commissions
- Default contribution rate when employees are enrolled in the program
- Employees can change default contribution rate by instructing IRA administrator

What is the expected investment return

- Expected investment vehicle performance will be a function of expected risk and return for different asset classes in multi-asset class products and relative mix
- Guarantee option – decision pending

What are the expected costs

- Upfront: Program set-up (e.g. website, marketing collateral, advertising, contracting with service providers, legal fees)
- Ongoing: Outreach, IRA administrator, IRA depository / custodian, asset managers, advisors, legal, enforcement, education, tools

¹“Qualified employer” does not include: (A) The federal government, (B) the state or any political subdivision thereof, or (C) any municipality, unit of a municipality or municipal housing authority. Qualified retirement plans include Payroll deduction IRA, Simplified Employee Pension (SEP), Simple IRA, Profit sharing, with 401(k) feature, 403(b) (employer and/or employee contributions), Defined benefit plan (open to new participants and providing accruals), 457(b) plan

WE WILL DEVELOP A 15-YEAR MODEL OF PROGRAM ASSETS AND FINANCIALS TO FORMULATE A PRELIMINARY PERSPECTIVE ON ITS FINANCIAL FEASIBILITY

A. Develop baseline view

- Size the number of employers and respective employee base in-scope for the program using Census data
- Define income and age segments based on available data (e.g. Census) and estimate employee population by income and age
- Estimate haircut to account for employees changing jobs during potential 90-day pre-enrolment period
- Estimate aggregate eligible income by income and age segment
- Leverage the Center for Retirement Research at Boston College's findings to
 - Calibrate default contribution rate
 - Estimate opt out rates by employee income and age segment
 - Estimate deferral rates by employee income and age segment
- Estimate contribution amounts by employee income and age segment

D. Preliminarily assess program feasibility

- What do you have to believe about program participation, savings rates, investment returns, assets and expenses to cover costs at a reasonable fee level; how do the employee-related assumptions compare with Center for Retirement Research at Boston College research findings?
- How long will it take to achieve break-even status?
- What assumptions will need to be tested further during an implementation phase?

B. Develop 15-year projection

- Project number of in scope employers
- By income and age segment
 - Project base of eligible employees
 - Project participating employees
 - Project contribution amounts
- Map contributions for individual income and age segments to specific investment products (i.e. age-appropriate target date funds)
- Estimate the return for each product by year
- Develop baseline case for overall program balances by year
- Perform sensitivity analysis
 - Evaluate projected program balances using a range of inputs for key variables
 - We will also run the model with and without a guaranteed annual investment return feature

C. Model program financials

- Estimate program income by year
 - Evaluate income at different administrative fee levels
 - Consider both flat and asset-based fees
- Estimate one-time start-up expenses
 - High level costs for website, marketing collateral, advertising, contracting with service providers, legal fees, etc
 - Identification and initial enrollment of eligible employees, including know-your-client and anti-money-laundering controls
- Estimated ongoing expenses by year
 - Asset management fees
 - Payroll providers
 - IRA administrator
 - IRA depository / custodian
 - Other (e.g. Outreach, advisors, legal, enforcement, education, tools)
- Model program financials and perform break-even analysis
- Compare participant fee levels to existing private sector alternatives

NEXT STEPS

- Receive final output from the Center for Retirement Research at Boston College
- Initiate research on key assumptions
- Develop model prototype and define required sensitivities
- Develop discussion document and initiate preliminary discussions with potential IRA administrators / depositors/custodians regarding potential one-time and ongoing expenses
- Synthesize findings and incorporate into draft model output

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TODAY**

