





YEARS

Sustainable Retirement for all

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Consulting Actuaries

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Flow of our session



- Where are we on *pensions today* and the macro challenges?
 - Defined Benefit and Defined Contribution
- Why are we talking about it in *India*?
- Bringing *ERM* into pensions? –Some food for thought
- Defined Benefit
 - Funding for long term promises: The Basics
 - Liability Driven Investment Strategies: A refresher and rekindled opportunity?
- Defined Contribution
 - Collective Defined Contribution plans: An introduction to the next avatar of DC?

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The fine print:

In the interest of time today, most of the session will mostly reference workplace plans, though many of the principles will no doubt apply to social security schemes too.

A few numbers...and a letter



65% \$50%

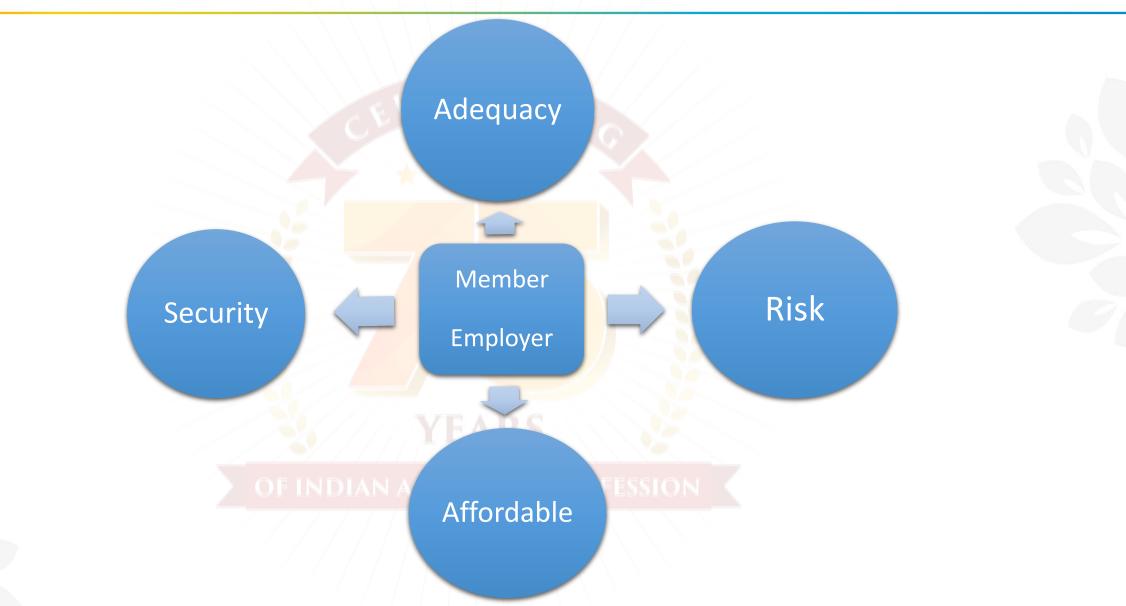
DB is **NOT** DEAD DC AUM in top 22 markets

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Pension & Investment World 300 2019 Thinking Ahead Institute: WTW Global Pension Assets Study 2020 Thinking Ahead Institute: WTW Melbourne Mercer Global Pension Index 2019







Why India?



Rs 4,227 bn (c.\$60bn) YE2013 BSE100 DB obligations

Accounting for Employee Benefits 2014: WTW

Rs 3,000 bn (c.\$40bn) Public Sector Banks YE2019 DB Obligations c\$145bn AUM EPFO

Pension & Investment World 300 2019 Thinking Ahead Institute: WTW

> Rs 4,170 bn (c.\$60bn) AUM NPS/APY

> > PFRDA: Feb 2020

Rs 2,500- 3,000 bn (c\$40bn) Gratuity Obligation estimate

Assumptions... 10 year service 24m organised workforce Rs 20,000 basic per month Actuarial assumptions so they net off (i-e) etc..

Back of the envelope: Kulin Patel

Secondary research: KA Pandit

These will keep growing!!!



- No occupational retirement/long term benefits regulator or Authority – excl. EPFO
- No funding requirement for Gratuity or other long term DB occupational schemes
- Those who fund have limited long term strategy
- Limited formal governance oversight requirements
- No mandatory employee education/awareness norms

Things will change....

Social Security Code
Pace of NPS Growth

No wonder we got a "D" Aim for a "B" in 5 years?

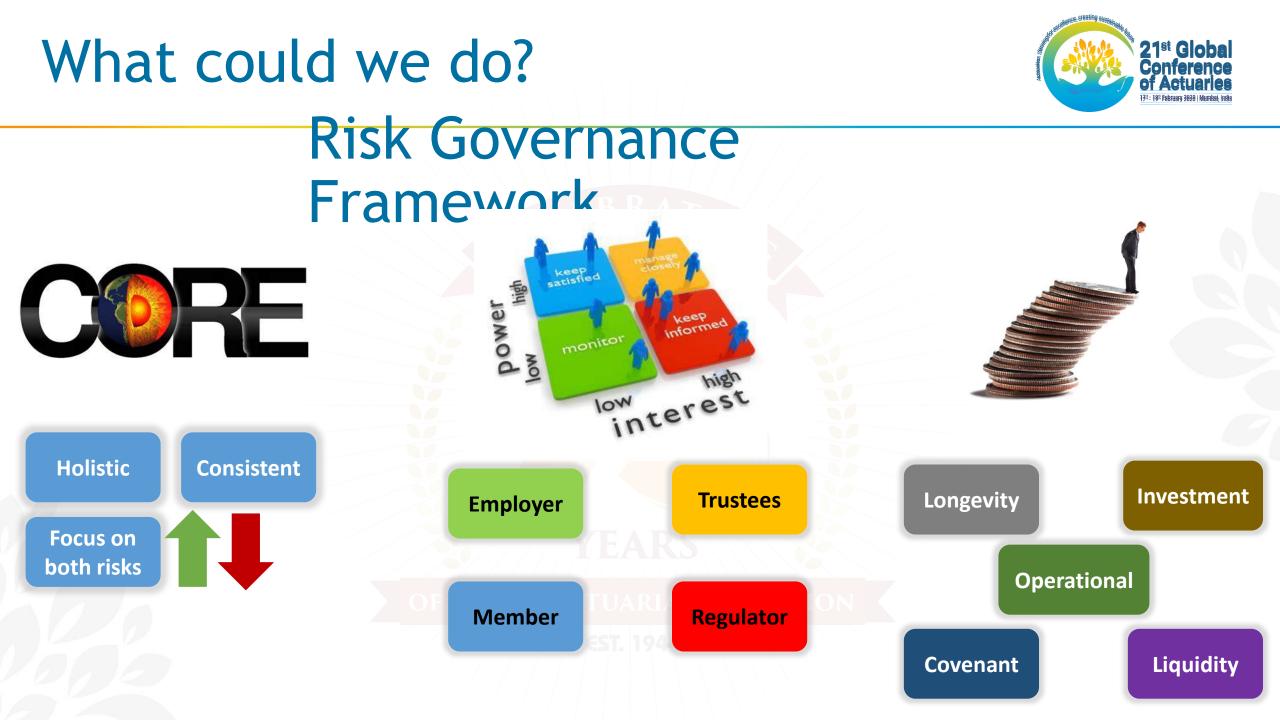
What could we do?



Risk Governance Framework

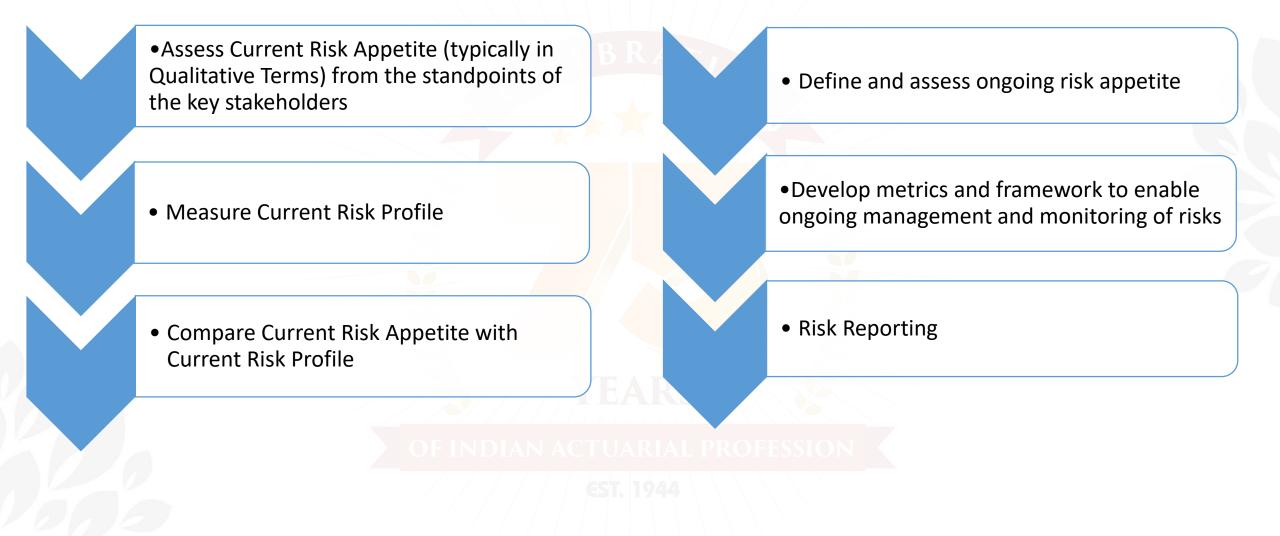
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How do we go about implementing it?









Risk Appetite Statement

"Maximise investment returns subject to the funding level of the scheme calculated on a specified basis, not falling below L% over a N year period in M% of the scenarios considered".

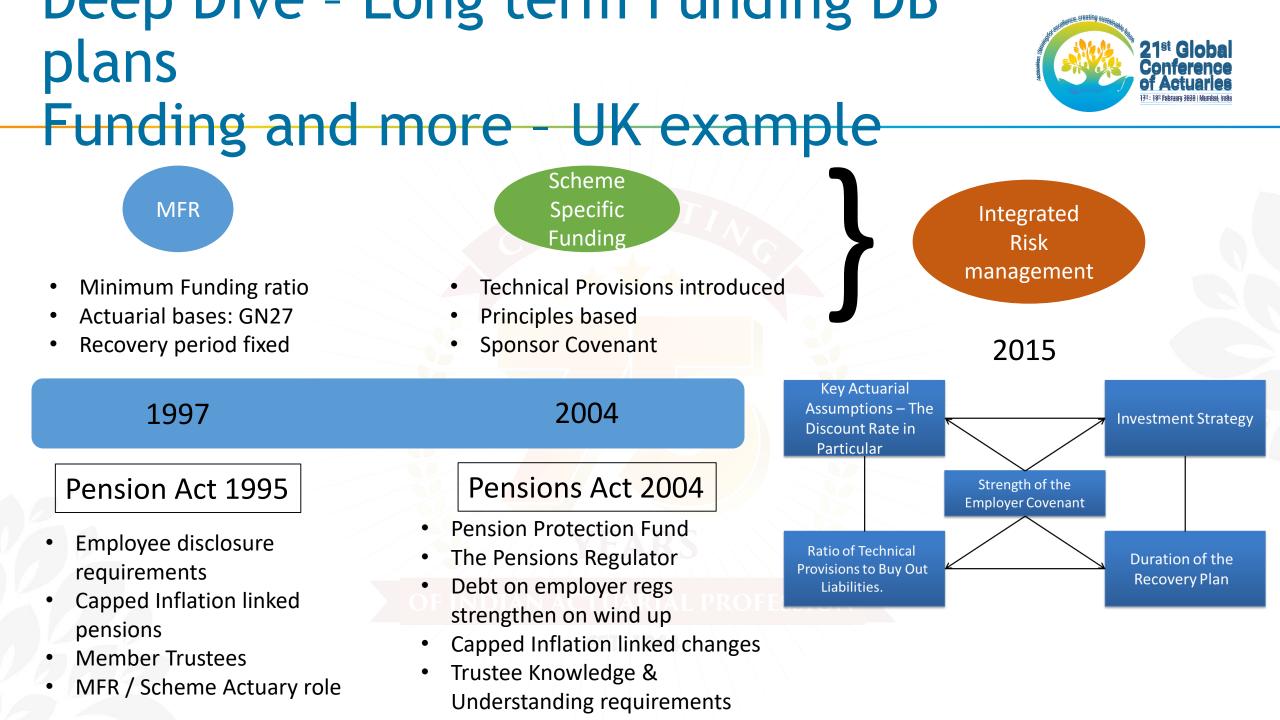


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Defined Benefit Plans Long Term Funding Approach Liability Driven Investment (LDI) Strategy



Other examples...



| | Minimum Funding Requirements | Insolvency Protection | Other Special Features |
|-----|---|--|---|
| | Minimum Funding Rules target full funding with in a specified period Rules eased since 2008 | Pension Benefits Guarantee Corporation | Single Employer Plans Multi Employer Plans |
| | Ongoing Test Discontinuance Test | No Insolvency Protection | Permits disadvantageous amendments to Plan Design like benefit reductions subject to certain conditions |
| | Similar to an ongoing test Restrictions on determining fund surplus | No Insolvency Protection | |
| 191 | Financial Assessment Framework based on market valuation & risk based financial requirements | No Insolvency Protection | Benefit reductions can be applied when recovery to full funding is not possible |





- Funding Objectives
 - Impact on Investment Strategy
- LDI Philosophy
 - Maximize the funding ratio given a specified risk tolerance





Constraints in the Indian Context

- Mandated Investment Pattern
- Lack(or Absence) of Risk Transfer Vehicles
- Focus on ALM approach?
- Insurer Managed Assets

Key Questions

- Have the trustees and sponsor articulated their risk appetite and risk tolerance?
- What should be the liability hedging ratio?
- How to construct the liability hedging portfolio?
- What should be the investment strategy for the return generating component of the asset (investment) portfolio?





Defined Contribution Plans

CDC Plans: A Game Changer in the DC Space

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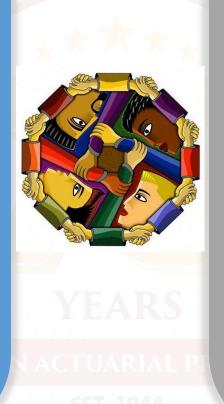
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Collective DC Plans: A Game Changer in the DC Space



- Capital Risk
- Inflation Risk
- Pension Conversion Risk

 Risks Addressed by Life Style Funds



- Key Features of CDC Plans
 - Collective Investment by investment professionals, not members
 - Benefits expressed in income terms, not capital accounts
 - Pensions are paid from the plan

The UK Experience



So what next?



Everyone find Avenues to raise awareness IAI efforts to continue engaging with Government **Stakeholders**

Opportunities for insurers and consultancies

We need to make sure stakeholders not under false sense of security for too long

Watch out for Social Security Code APY and PMSY Growth NPS Growth

We don't want to have to say "We told you so!"



Thank You