Long Duration Targeted Improvements (LDTI) -The path to successful implementation

Presentation by **Ailen Okharedia** May 13, 2019



Agenda

- 1. Key takeaways from the recent PwC LDTI survey
- 2. Multi-phased approach to implementation
- 3 Technical accounting decision making process
- 4. Systems and Data implications
- 5. Leverage tools and accelerators for Systems & Data work

Key Takeaways (1 of 5)

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Virtually all companies favor a **delay of** the implementation deadline for Long **Duration Targeted Improvements. The** most common reasons are more time for testing and dry-runs, minimizing the use of temporary implementation solutions and concerns about the time it takes system vendors to develop their solutions

Key Takeaways (2 of 5)

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Implementation is seen as challenging. 87% of those surveyed consider the timeline as challenging, 61% even as extremely challenging. Over 70% see actuarial processes as well as systems and communication of impacts to investors as challenging

Key Takeaways (3 of 5) 66 60% of the companies now expect more work than they did when the standard was issued in August 2018.

Key Takeaways (4 of 5)

About 60% of companies still have a **compliance focus** in general. This is a decrease from August 2018 where 75% responded with a compliance focus.

Key Takeaways (5 of 5)

The most interesting areas for modernization are actuarial models (50%) and actuarial process (55%). 30% of companies now see data as a strategic modernization opportunity compared to only 10% in the 2018 survey

Multi-phased approach to implementation (1 of 2)

A multi-phased approach to implementation is ideal to ensure a well-organized and structured path to implementation.

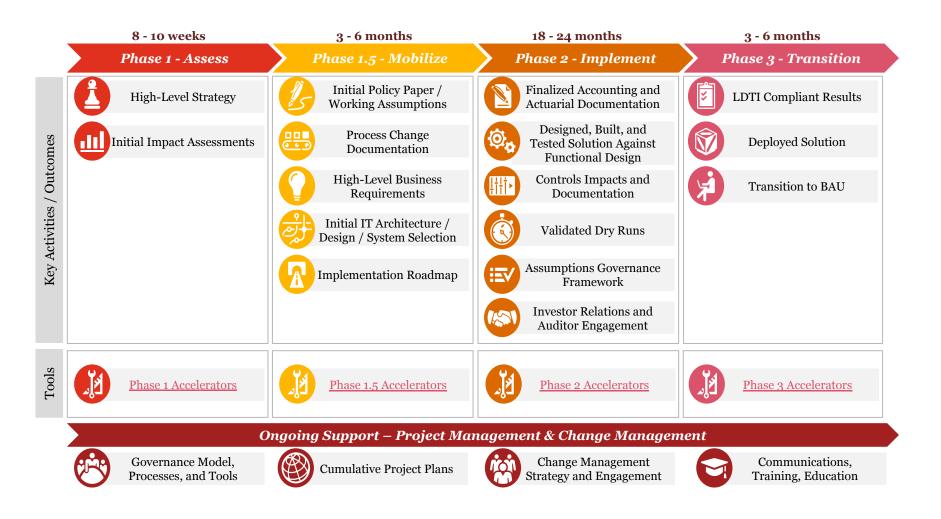
Phase 1	Phase 1.5	Phase 2	Phase 3
Scoping / Assessment	Mobilization	Implementation	Transition

Project Management, Risk Management, Change Control, Audit Sign-Off

Ensuring Consistent Application of Implementation and Communication

Stakeholder Management, Communication, Team Building, Skills and Knowledge Transfer

Multi-phased approach to implementation (2 of 2)



What are firms doing now?

Example of immediate focus areas following the Phase 1 impact assessment work are highlighted below.

Governance:

Determine governance structure and agree upon overall priorities. Develop a detailed plan and roadmap to support execution of LDTI project. LDTI Financial Statements: Mock-up financial statements to include new financial statement line items and required disclosures to develop business requirements for data, process and systems.

Education &

Awareness: Develop a plan to build expertise and educate others in the organization on the impact of the new standard in a way relevant to their role. Focus on Board education and initial investor communications.

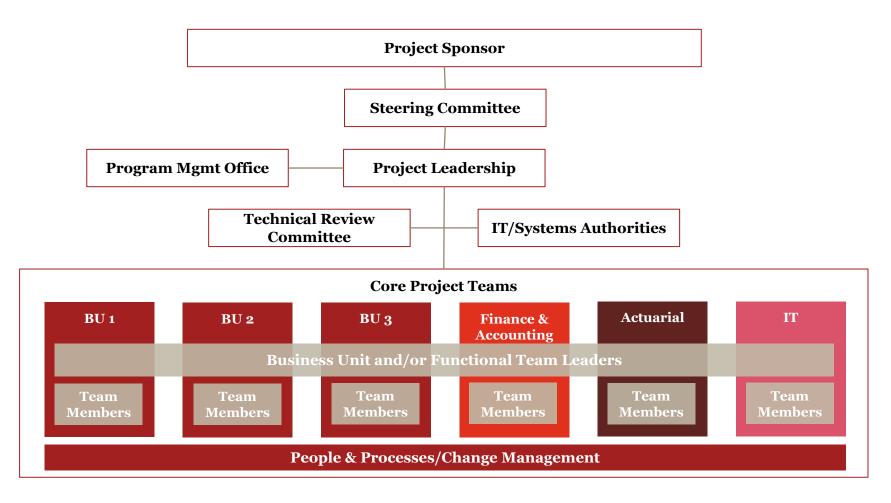
Accounting policy decisions:

Review accounting decisions identified in the initial gap assessment and develop working assumptions to be tested through additional financial modelling.

Strategy considerations: Consider impacts to Hedge strategy, Product strategy, Pricing strategy, Market and Competitiveness strategy.

Financial modeling: Extend current financial to provide a high-level holistic financial impact assessment leveraging working assumptions on accounting elections and alternative scenarios. Actuarial platform strategy: Develop a strategy to meet LDTI requirements across actuarial platforms and perform initial pilots Systems & data design: Perform a detailed system and data design that presents the target state solution that can meet LDTI requirements.

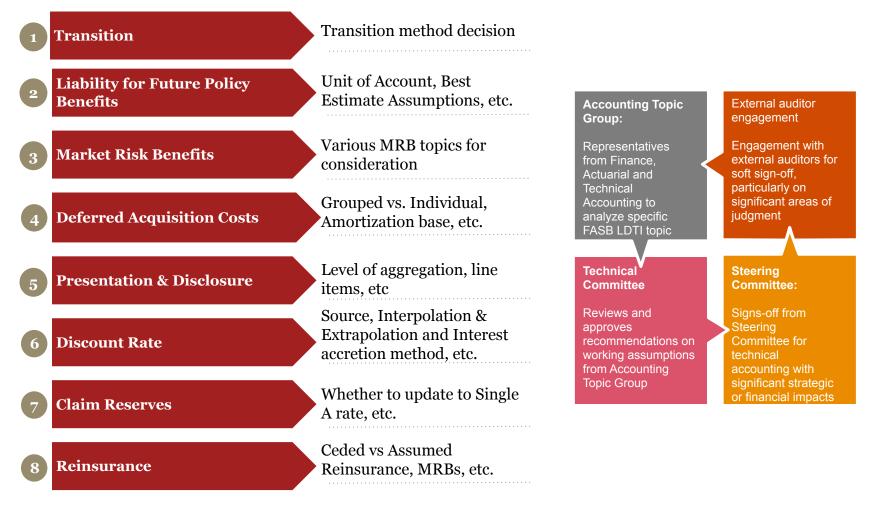
Technical accounting decision making process (1 of 2)



Note: This is intended to be illustrative and may be tailored to an organization based on an organization's special circumstances

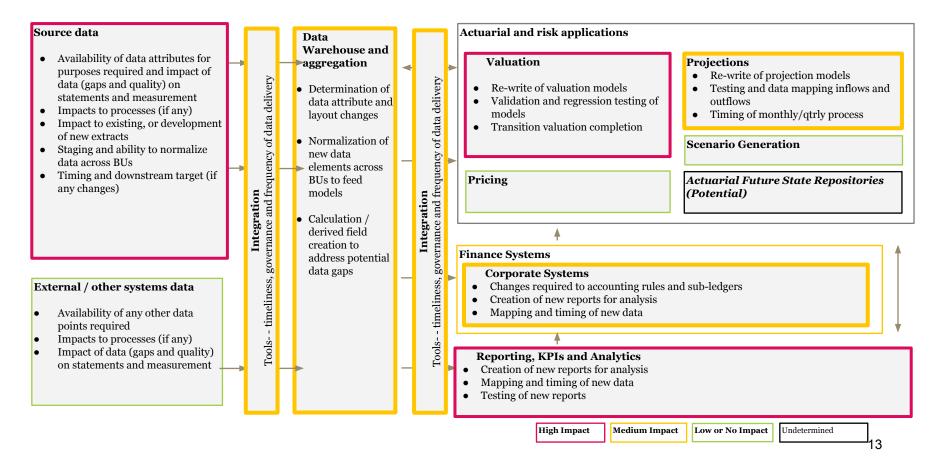
Technical accounting decision making process (2 of 2)

The following are identified key execution risks from impact assessment work performed to date:



System and Data implications

End to End Architecture with multiple systems interactions that needs to be considered while designing a "Right-Size" solution compliant with LDTI guidance



Financial Reporting Data Gap Analyzer

Financial Reporting Data Gap Analyzer

Allows users to understand and analyze the disclosure requirements related to LDTI. Data elements and mapping to disclosure tables can be customized for a client's specific architecture.

Who is it for?

As this is primarily used for mapping data sources into illustrative disclosure tables, members of IT are intended target audience. Finance and Actuarial teams may also benefit from participating in the mapping.

What else does the Data Gap Analyzer do?

- Provides a listing of the data elements that are needed to fulfill financial statement disclosure requirements.
- Maps where the data typically comes from and which disclosure requirement(s) the data elements help to fulfill.
- The data element listing has been paired with data visualization technology to allow dynamic analysis and drill-down capabilities.

Data Inventory	Tach en herein ti	pagement team is responsible for re a provide to the client. Populated da	viewing each tab and will need t ta is purely illustrative.	to customize the info	mation			
Ref 🔻 944 reference	 Unique ID 	Category	• Statement	CoA Reference	Data Element Description Applicable?	Is the data element new, modifying elements already available or directly leveraged from historical elements?	Type	Source 1
1 944-40-45-3	Z.1.1.1	MRBs	Footnote	B2.8.2.21	CV of MRB	Likely new data element	Balance	Val system
2 944-49-45-3	Z.1.1.2	MREs	Income statement	B2.8.2	Change in FV of MRB, unrelated to instrument-specific credit risk	Likely new data element	Calculation	Val system
3 944-40-45-3	Z.1.1.3	MRBs	OCI	B2.8.2	Change in FV of MRB, related to instrument-specific credit risk	Likely new data element	Calculation	Val system
4 944-40-50-78(0)	Z.1.1.4	MRBs	Footnote	B2.8.1.1	Net amount at risk (NAR)	Likely to be directly leveraged	Balance	Val system
5 944-40-50-7B(b)	Z.1.1.5	MREs	Footnote	N/A	Weighted avg attained age	Likely new data element	Calculation	Val system
6 944-40-50-7B(c)	Z.1.1.6	MRBs	Footnote	B2.8.1.3	Balances in asset vs liability position	Likely new data element	Period amount	Val system
7 944-40-50-7C	Z.1.1.7	MRBs	Footnote	N/A	Inputs - Specific data elements	Likely new data element	TED	Various
8 944-40-50-7C	Z.1.1.8	MRBs	Footnote	N/A	Assumptions - specific data elements	Likely new data element	TBD	Various
0 944-40-50-7C	Z.1.1.0	MRES	Footnote	N/A	Assumptions - judgment	Likely new data element	TBD	Various
10 944-40-50-7C	Z.1.1.10	MRBs	Footnote	N/A	Assumption - methods	Likely new data element	TBD	Various
11 944-40-50-7C	Z.1.1.11	MRBS	Footnote	N/A	Inputs - effect of changes related specific data elements	Likely new data element	Calculation	Val system
12 944-40-50-7C	Z1.1.12	MRES	Footnote	N/A	Assumptions - effect of changes related to specific data elements	Likely new data element	TBD	Various
13 944-40-50-20	Z.1.1.13	MRBs	Footnote	N/A	Assumptions - effect of chanzes related to assumptions - indeement	Likely new data element	TBD	Various
14 944-40-50-TC	Z-1.1.14	MRBs	Footnote	N/A	Assumptions - effect of chanzes related to assumption - methods	Likely new data element	TBD	Various
15 944:40:55:29G	Z.1.1.15	MRBs	Footnote	N/A	Reconciliation of market risk benefits by amounts in an asset position	ar Likely to be directly leveraged	Balance	General ledge
16 944-40-55-13K	Z.1.2.1	MRB Rollforward	Footnote	B2.8.2.2	Issuances		Period amount	Val system
17 944-40-55-13K	Z.1.2.2	MRB Rollforward	Footnote	B2.8.2.3	Interest accrual	Likely new data element	Period amount	Val system
18 044-40-55-13K	Z.1.2.3	MRB Rollforward	Footnote	B2.8.2.4	Attributed fee collected	Likely new data element	Period amount	Val system
10 044-40-55-13K	Z.1.2.4	MRB Rollforward	Footnote	B2.8.2.5	Benefit psyments	Likely to be directly leveraged	Period amount	Admin system
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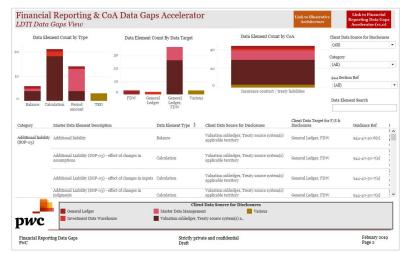


Chart of Accounts Accelerator

Chart of Accounts (CoA) Accelerator

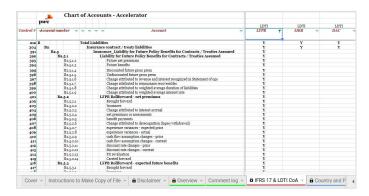
Allows users to understand and analyze an illustrative set of required accounts for each disclosure requirement set out in LDTI. Accounts can then be customized to meet an insurer's specific account structure.

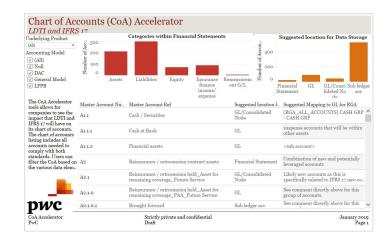
Who is it for?

Primary users of this accelerator will likely be in the Accounting function. IT may also find this useful for mapping out updates to account structures.

What else can the CoA Accelerator do?

- Provides a listing of all potential accounts needed to account for LDTI.
- Accounts can be linked to an insurer's product using the optional product template embedded within the workbook.
- Tables within the CoA accelerator have been paired with data visualization technology to allow dynamic analysis and drill-down capabilities.





Data Dictionary & Lineage Analyzer

Data Dictionary & Lineage Analyzer

Allows users to understand and analyze data elements related to LDTI. Users can drill into all inputs for a given data element as well as explore relevant information about the element, including output system of record, input source, and LDTI definition of each element.

Who is it for?

This tool is primarily used to understand characteristics of key data elements and is intended to be used by members of Finance, IT, and/or Actuarial.

What else can the Data Dictionary & Lineage Analyzer do?

- Filter data into meaningful groupings to understand the volume and complexity of data elements necessary for a desired disclosure requirement or product type.
- Trace new required E2E through the technology architecture, identifying data elements relating to specific guidance.
- Read simple element definitions to help facilitate stronger communication throughout cross functional teams.



DWC	tail View his dashboard to understand	the specifics of a chosen data element,	including the element's current and future stat	te definitions as well as where	the element arises in the go	idance.	
Standard Category [(41) Product UL	•						
Element Name-Wildcard Sear			Detail View Sheet				
No Of Future Net Premiums	Product (Generic)	PV of exactled gross premiums multiplied by the Net Premium Ratio (NPR) NPR = the ratio of the PV of expected benefits to the PV of expected gross premiums, accord at 10%	For traditional and limited-payment long-duration insurance contracts, the net premium is that portion of the pross premium required to provide for all benefits and expenses, excluding acquisition costs or		Beneti Origio Reporting Output	Elected Type Calculation	944 Reference 944-40-50-6(4)
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evenue And Interest ecognized in Statement Of Opr	u.	The errount of revenue and interest recognized in the statement of operations	Unchanged from prior definition	FPBs	Reporting Output	Calculation	944-40-50-6(bs)

Thank you

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