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Product Architecture

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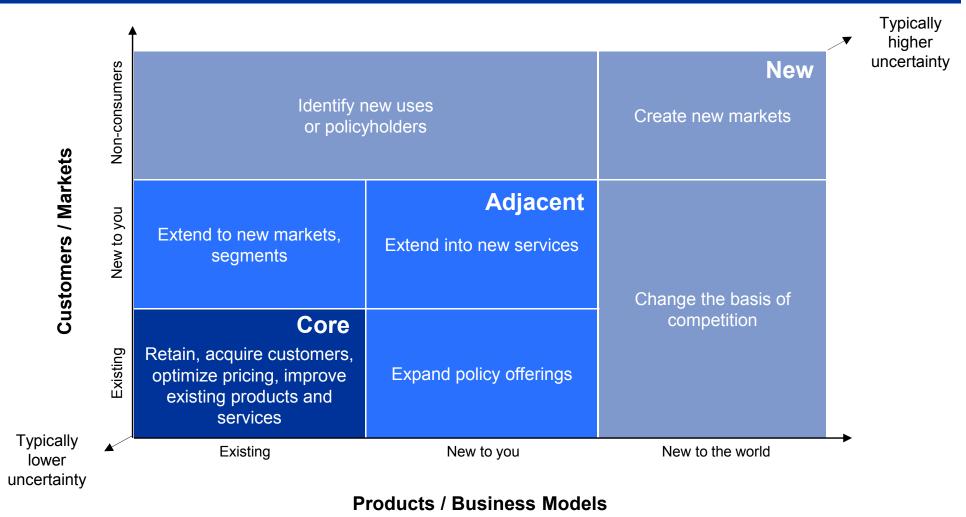
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Leading practices in Product Management

What is Product Architecture?

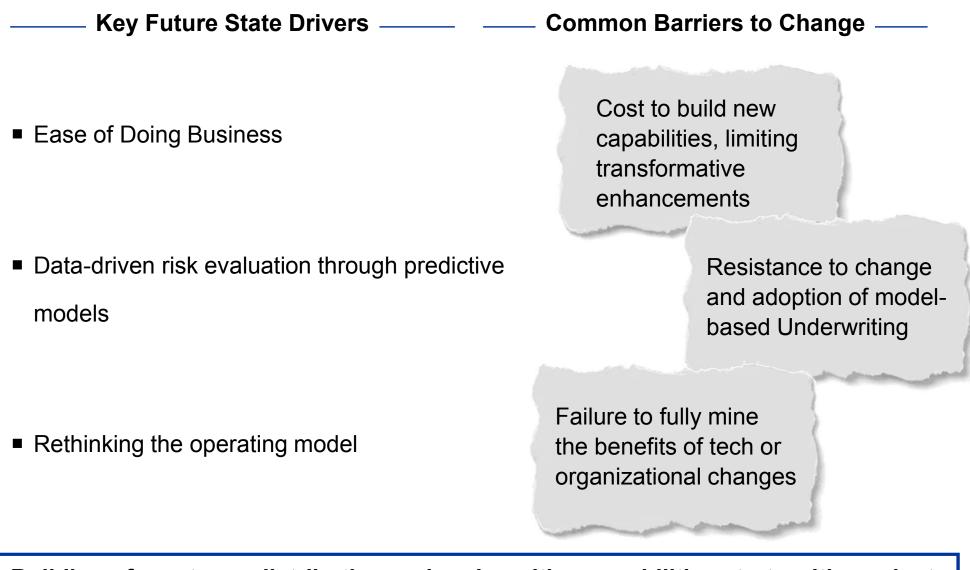
Examples

Strategic product objectives focus on top-line growth and profitability



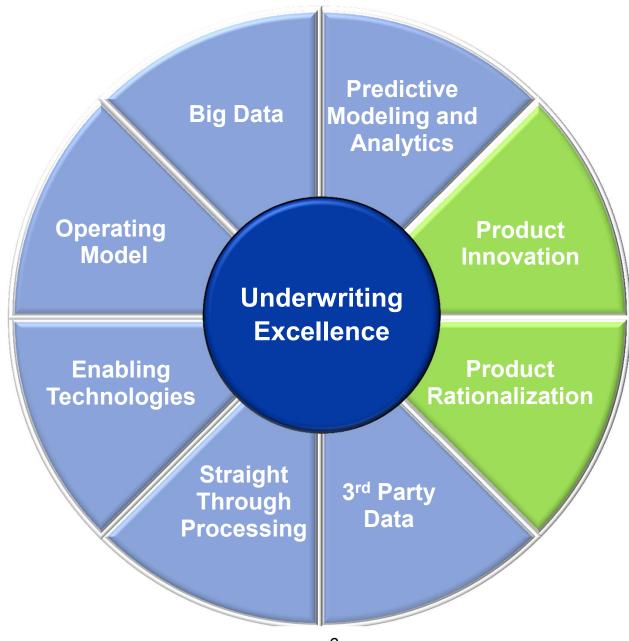
Insurers are reengineering and innovating rather than circling the wagons and defending the status quo

Three key underwriting trends driving the future state



Building of most new distribution and underwriting capabilities starts with product. Focusing on how product architecture can create speed and agility is critical.

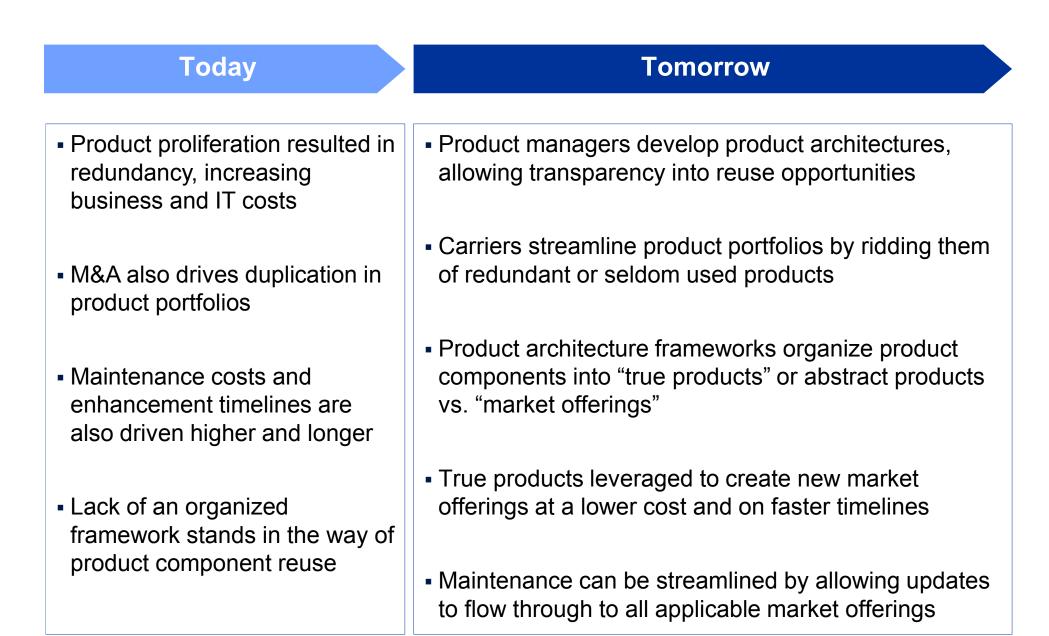
Capability areas impacting the future of underwriting



Trends in Product Innovation

Today	Tomorrow
 New products to meet evolving	 Customer expectations will drive the need for new and
needs of customers	modified products
 Increased packaging and	 Data sources and expert resources to drive product
bundling to allow flexibility	design is a key to success
 Product modifications driven by	 Fact-based business case will aid in securing
regulatory change	allocation of scarce product development resources
 Barrier for speed to market is	 Maximizing use of existing products to create new
legacy system environments	market offerings can help manage budgets
	 Effective monitoring of products post-launch requires early planning for data and capability needs

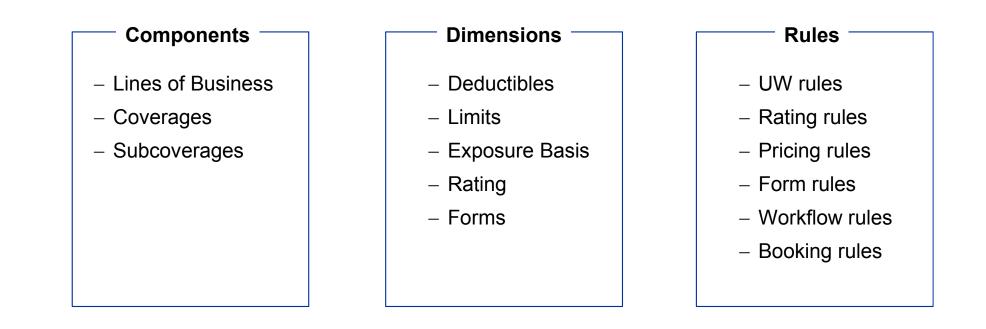
Trends in Product Rationalization



What is product architecture?

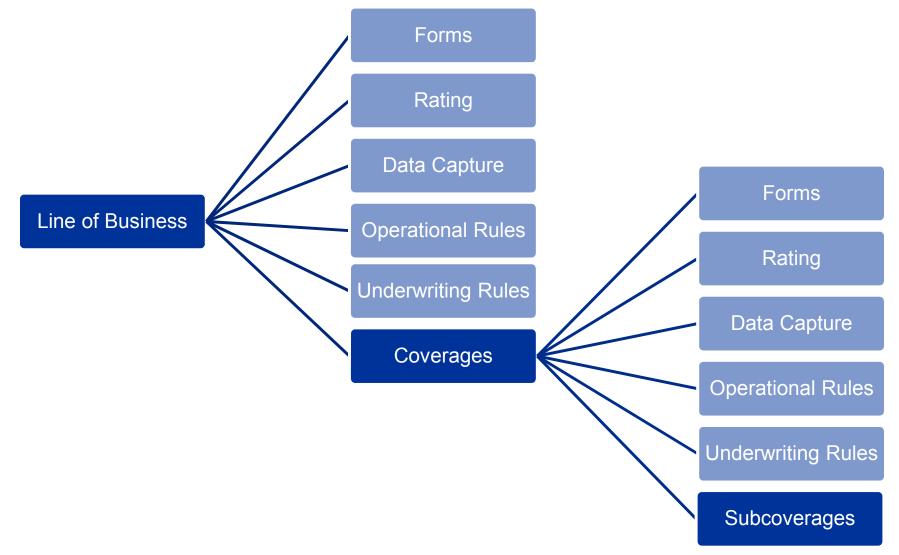
A comprehensive mapping of the components, dimensions, and rules of an insurance product with a focus on isolating the reusable assets

Typically, a product architecture for a P&C product would consist of the following:



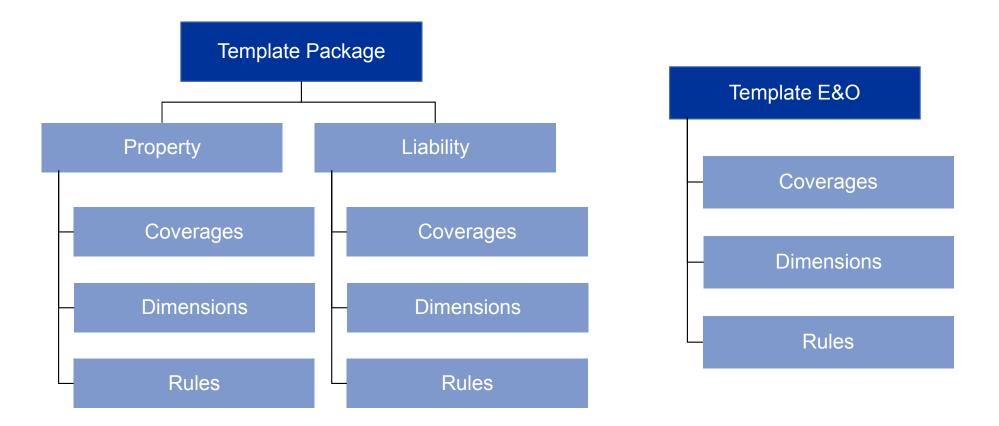
What is product architecture?

Product information is organized so that the elements can be reused to create new market offerings or to facilitate product updates



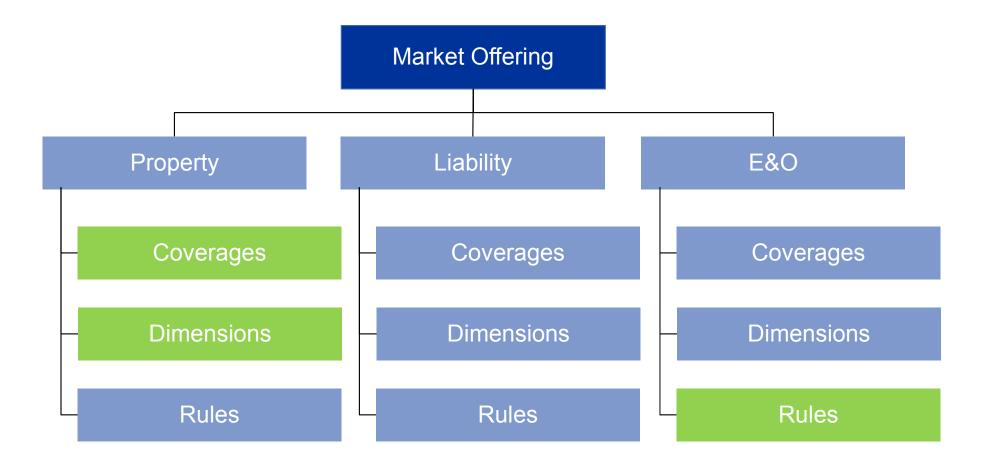
Example: product development

New market offerings can be created by leveraging abstract products to create tailored market offerings



Example: product development

New market offerings can be created by reusing or modifying any of the components, dimensions or rules for unique risk characteristics of target market



Example of how a new product can be built from existing products

Small Commercial Package for Optometrists

Current Inventory (written as stand alone policies):

- Basic BOP Abstract
- EPLI Abstract
- E&O Abstract

Proposed New Market Offering:

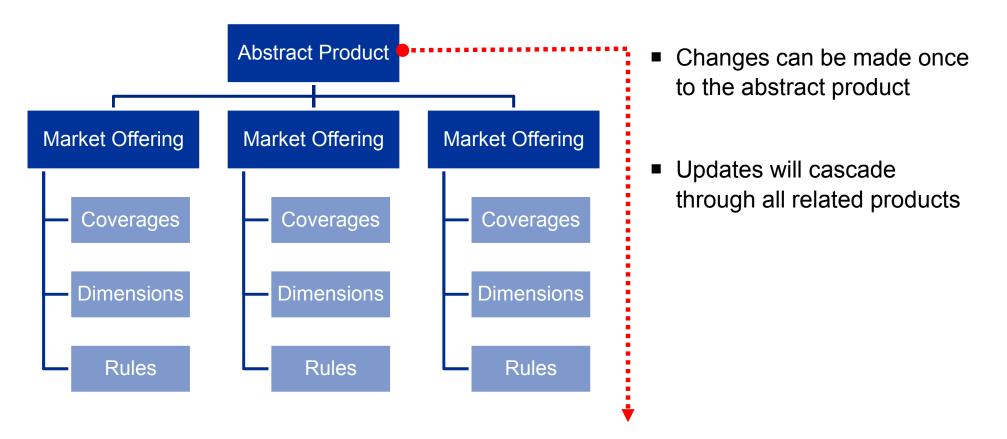
- BOP for Optometrists with built in EPL and E&O
- Property and E&O to be dialed back to fit target market (optometrists working in kiosks, e.g. Costco)

Solution – a new Optometrists Product:

- Reuse property with less coverages and restricted limits
- Reuse EPLI as an added coverage by endorsement rather than a separate policy
- Reuse E&O with restricted limits and coverage by endorsement
- Significantly reduced development time (business and IT) as only the differences need to be supported

Example: product maintenance

Product maintenance processes can be streamlined, minimizing errors and aiding compliance



Example:

SC Windstorm credits need to be invoked on all property products. Develop a solution at the line of business level and let it be reused by every property rating plan.

- Business Benefits:
 - Creates a clear view of the existing products, and their construct, to promote reuse across distinct businesses
 - Eliminates redundant work in creating new products
 - Reduces the workload associated with product maintenance and enhancements
 - Provides a streamlined means for ensuring compliance with product filings
 - Creates a framework for defining business intelligence requirements early in the process – proactive, not reactive
- IT Benefits:
 - Creates an organized structure to communicate requirements to IT
 - Serves as a tool to mine opportunities for reuse of existing IT assets, significantly reducing time to build solutions (new products, enhancements and maintenance)

Steps in developing a product architecture

Inventory	Design	Implement
 Review and potentially rationalize products to identify go-forward product portfolio 	 Review product inventory to identify commonalities 	 Configure the product on the system using the product architecture
 Deconstruct products Lines of business Coverages & sub-coverages Rating plans Target markets Forms 	architecture structure that allows for reuse	 Collect specifications for each go-forward product and populate the system, defining only the required differences to construct new market offerings
 Create a product inventory to map products to various components, dimensions, and rules 	to build market offerings	 Conduct change management, communication, and training activities
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		Coverages									
		1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10
Product Na	oduct Name	. Bldgs & Structures		Personal Property	Boiler & Machinery	Building Glass	Debris Removal	Business Income	Earthquake	Computer Fraud	Valuable Papers
1	Product A	Y	0	Y	Y	Y	Y	Y	0	Y	0
2	Product B	Y	0		Y	Y	Y	Y			
3	Product C					Y					
4	Product D	Y		Y	Y		Y				
5	Product E			Y							0

Property Example –

— Liability Example —

		Coverages									
		2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	2.10
Pr	oduct Name	Premises	Completed Products & Ops	Employment Practices	Personal & Advertising	Electronic Data Liab.	Punitive Damages	D&O	E&O	Architects & Engineers	Worldwide Coverage
1	Product F		Y						Y	Y	Y
2	Product G				Y	Y	0	Y			
3	Product H	Y		Y	0			Y			0
4	Product I	Y	Y	Y	Y						
5	Product J	Y					Y	0	Y	Y	0

Key	Y	Included Coverage
	0	Optional Coverage

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