

Analytics in Action Intelligent Intervention Underwriting Decision Support

March 2019



Underwriting Decision Support

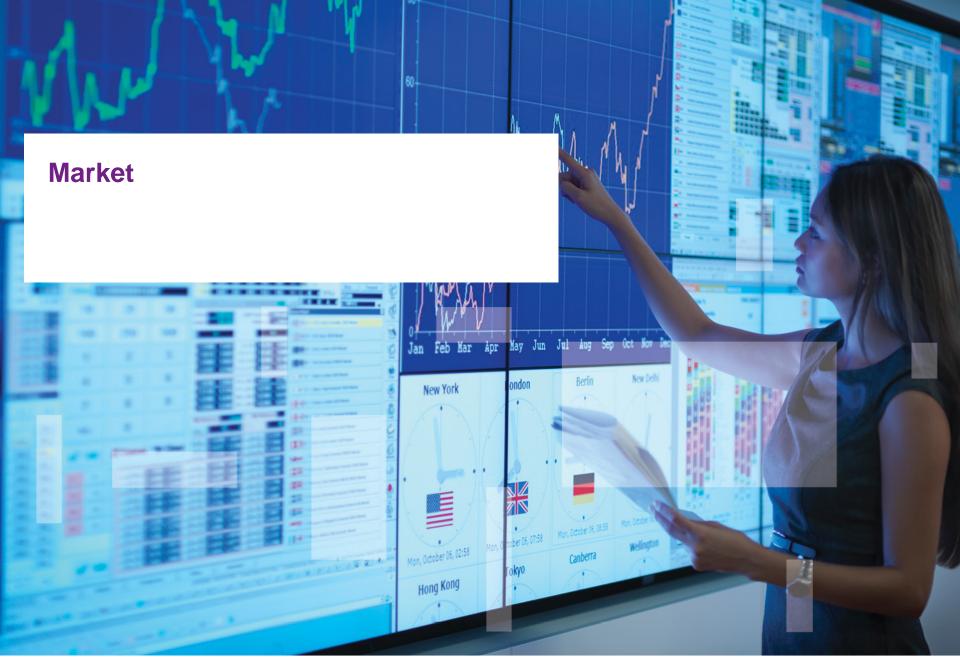
- Overview and Introduction
- What's happening in the market
- Future of underwriting
- Intelligent Underwriting Intervention
- Decision Support
- Underwriting Workbench



Analysis in Action

Learning Objectives

- Understanding where analytics can add value to case underwriting
- Use case exploration:
 - Active Renewal Management
 - Survey Optimisation



The Insurance Market

Market Themes

Aggressive Competition

Political Uncertainty

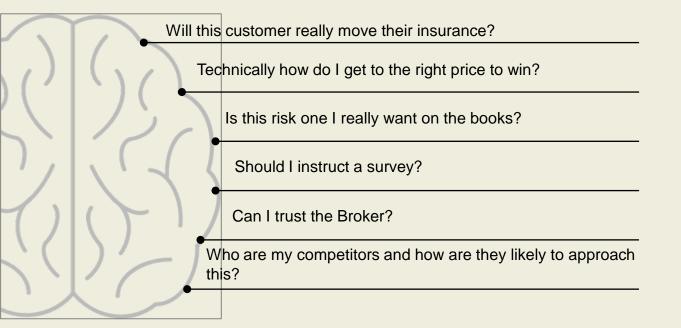
Ageing IT Infrastructure

Value Chain Compression

Commercial insurance is a complex transaction...

Performance Improvement Pillars

What is the underwriter thinking about? Commercial insurance is an experience based profession requiring complex decision making and judgement.





Current Underwriting task allocation

Underwriting

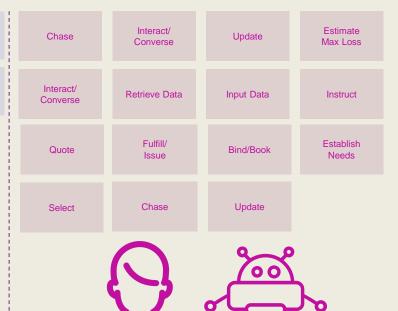
Read	Evaluate	Monitor	Complex Judgment	Interact/ Converse	Quality Check	Respond			
Assess	Update	Approve	Research	Negotiate	Decide	Quote			
Input Data	Chase		0		Identify	Fulfill/Issue			
Allocate	Establish Needs		X		Instruct	Bind/Book			
Retrieve Data	Select		W		Relationship management	Estimate Max Loss			
Underwriting									

Illustrative

Underwriting task allocation – with robotic process automation (RPA)

Underwriting

Read	Evaluate	Monitor	Complex Judgment	Respond	Quality Check	Relationship Management
Assess	Identify	Approve	Research	Negotiate	Decide	Allocate



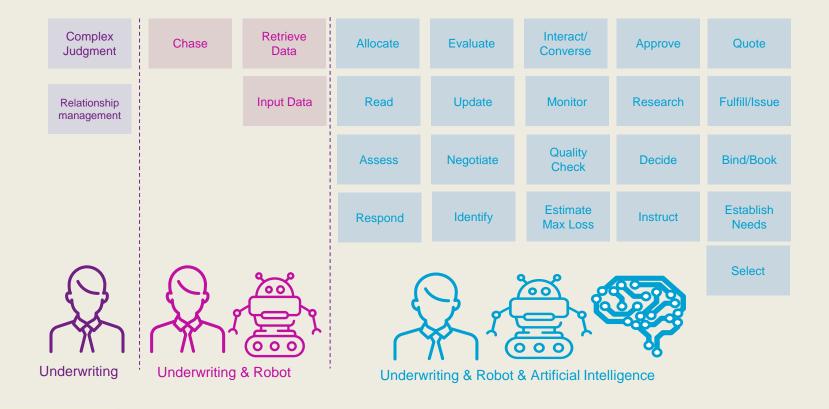


Underwriting & Robot

Illustrative

Underwriting task allocation – with RPA & Artificial Intelligence

Underwriting



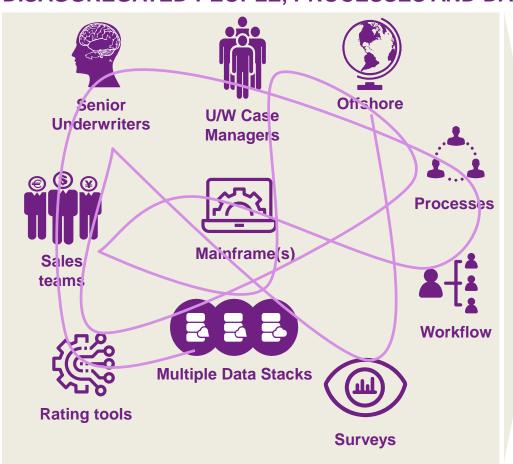
Illustrative



Challenge is how to overcome current ways of working

Difficult to optimise pricing, underwriting and risk selection

DISAGGREGATED PEOPLE, PROCESSES AND DATA



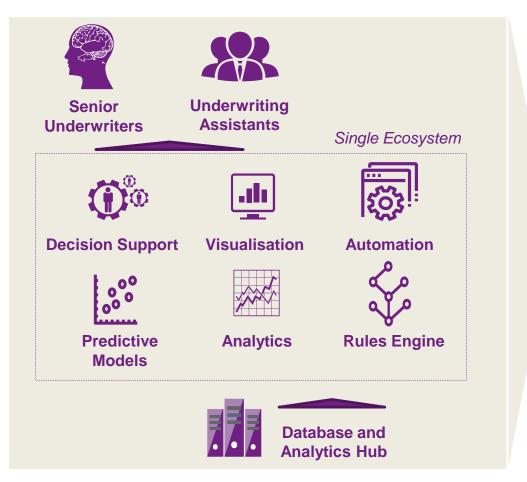
REDUCING UNDERWRITING PROFITABILITY

- Poor data integration
- Difficult to extract and master information
- Fragmented underwriting processes
- High variation and low control over underwriting decision making
- Underwriting leakage
- Silos operating across functions and geographies
- Inefficient and expensive to run

Operating model designed to improve top and bottom line

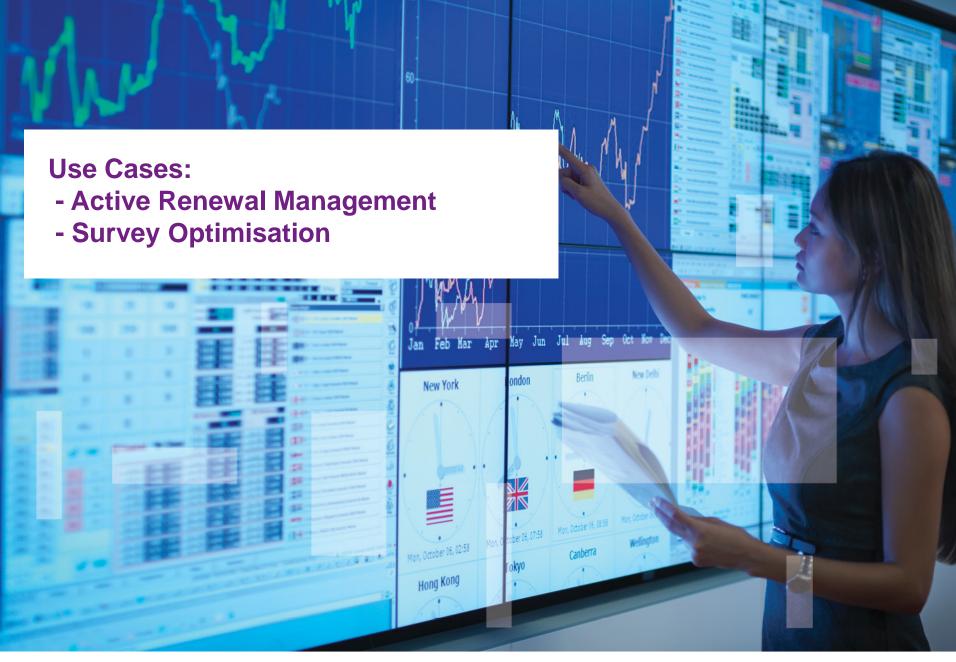
Delivering solutions that align decision making/accuracy to strategy

INTEGRATING PEOPLE, PROCESS AND DATA



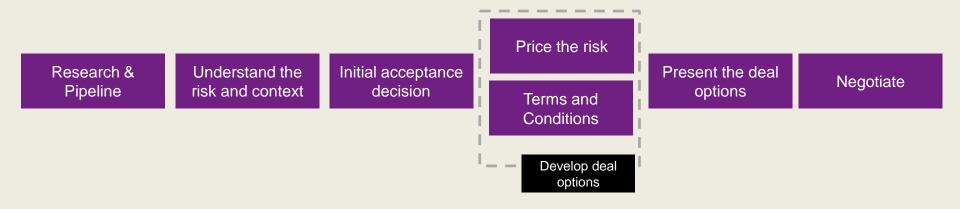
IMPROVING ALL PARTS OF INSURANCE P&L

- High consistency in pricing and underwriting decisions – selection as well as routing
- Decision augmentation designed into processes
- Significant increase in both information and intervention points for management
- Active Portfolio Management
- Removes or reduces nonexpert processing which causes delays and traps expense
- Repatriating process no need for offshoring



The importance of a process

An underwriting process



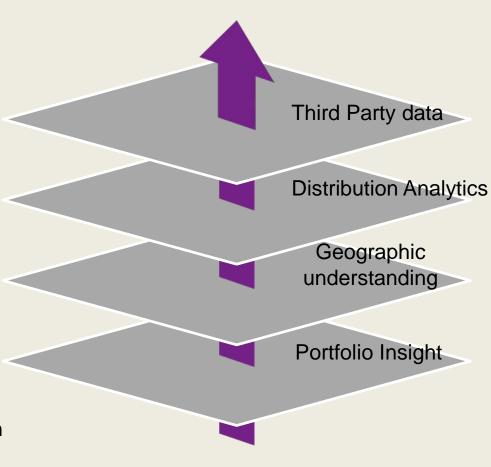
Injecting sophistication into decision rules

Intervention Rules

Using an increasingly wide range of internal and external data assets, it possible to develop, test and deploy a range of models across the workflow process:

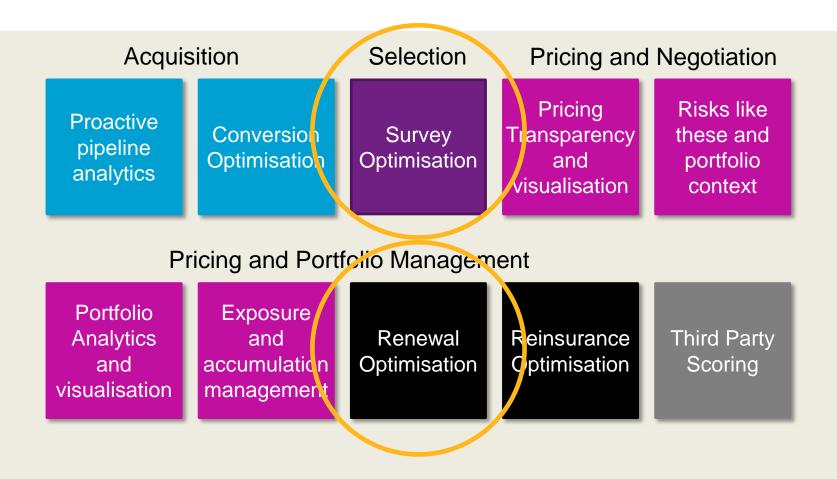
- Pricing
- Risk selection
- Structured interventions
- Routing
- Prioritisation
- Evaluation

These can be used to automate all or part of the business process or support human intervention with decision support



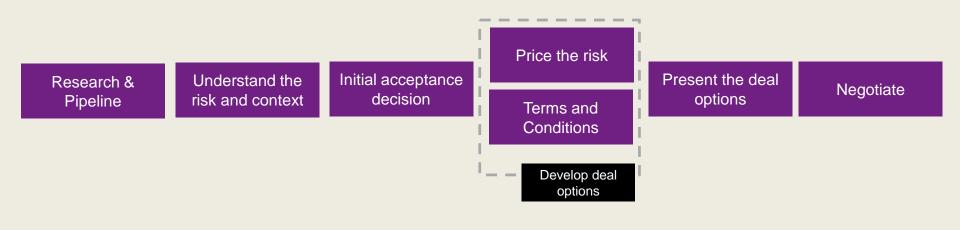
Decision support

Our view of the key elements of decision support across the value chain



Combining Insight and workflow

The underwriting process

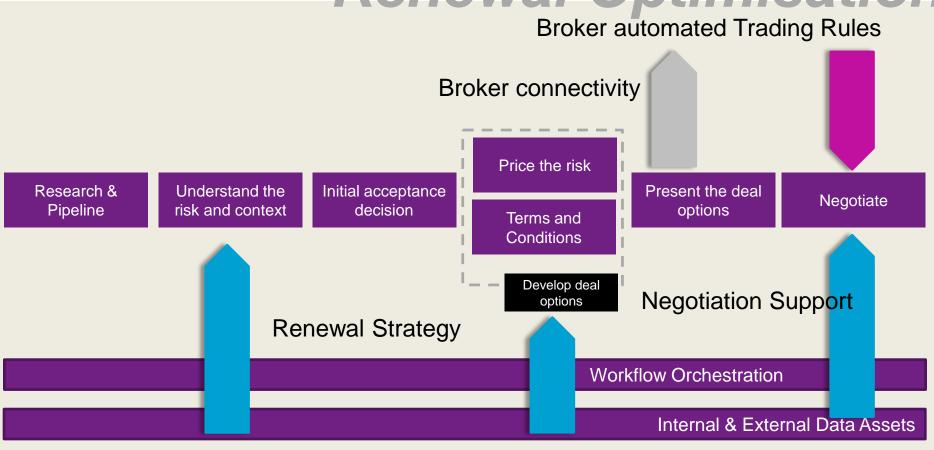


Workflow Orchestration

Internal & External Data Assets

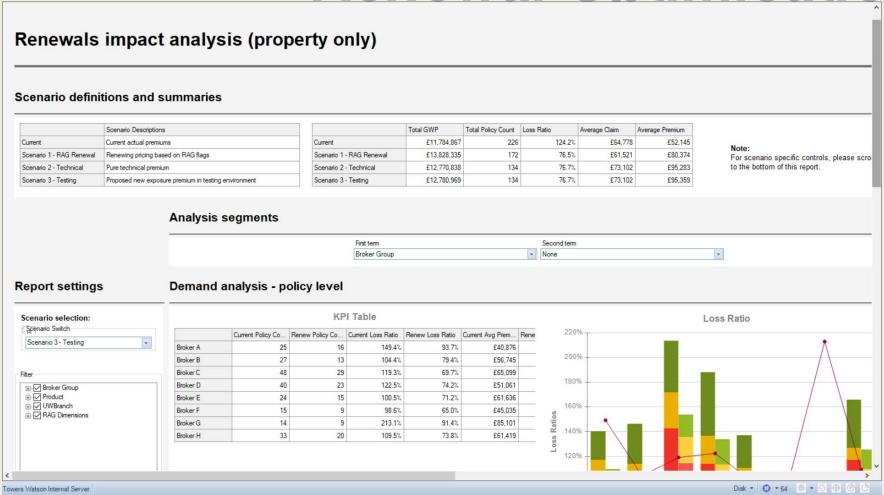
Example – Analytics, Operational Models & Decision Support

Renewal Optimisation



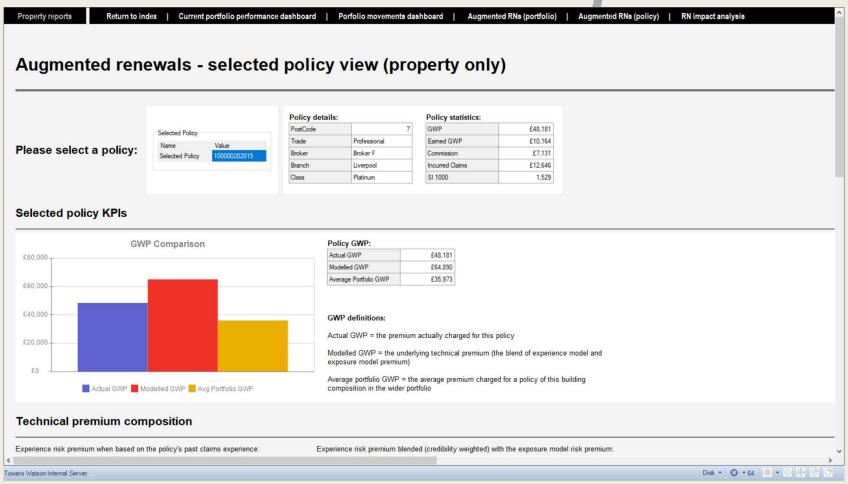
Example – Analytics, Operational Models & Decision Support

Renewal Optimisation



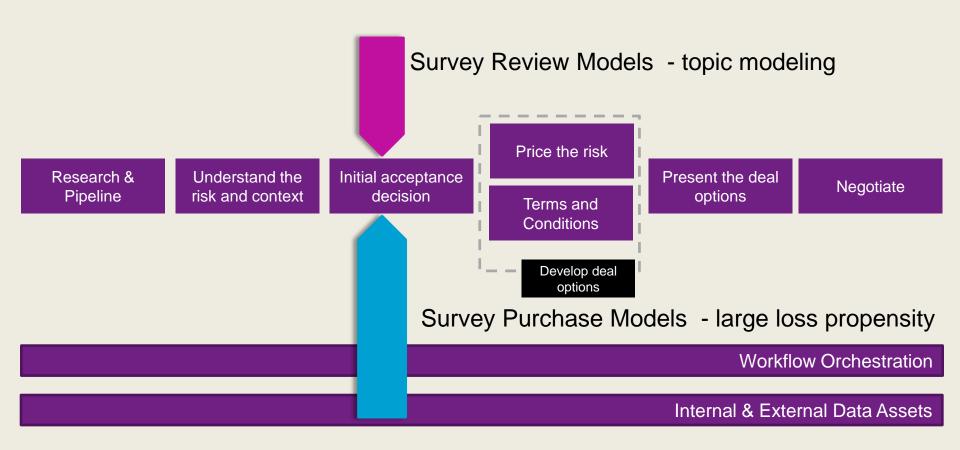
Example – Analytics, Operational Models & Decision Support

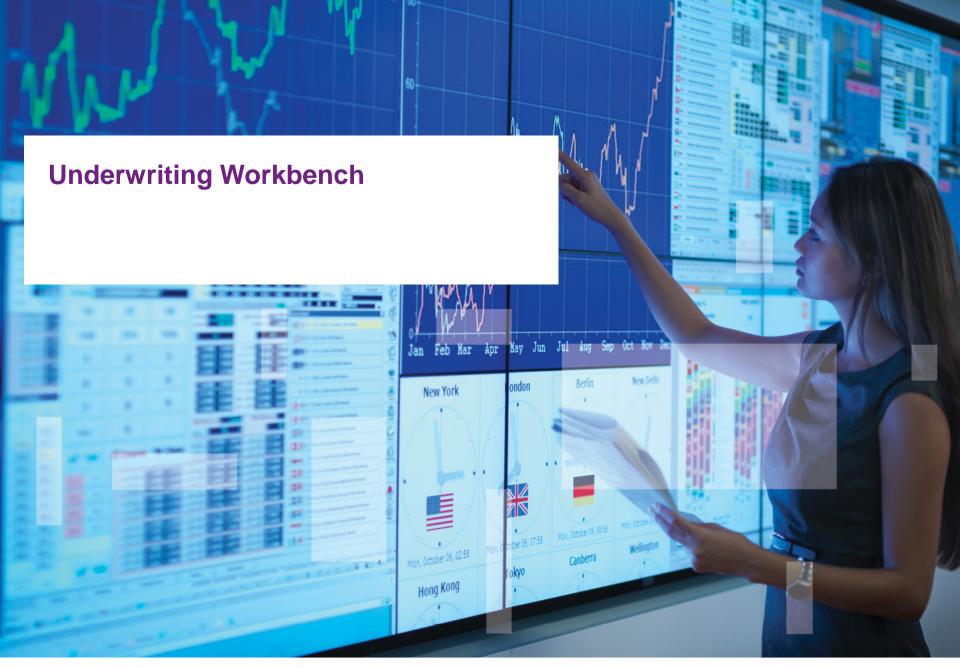
Renewal Optimisation



Example - Operational Models & Decision Support

Risk Selection Support





An Underwriter's Digital Environment

Underwriting Workbench

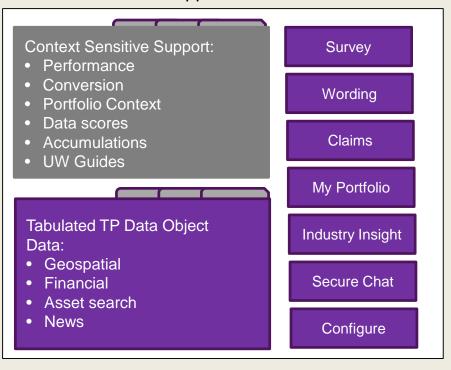
Screen 1 – executing tasks

Case facts and consistent header
Search / Breadcrumbs / Navigation / Status

Main Action window:

Quote / Renewal / Price
Prioritised workflow
Data Ingestion
Calling TP services
Sanctions check
Policy Admin
Automation overlay
Broker Communication

Screen 2 – decision support



Data integration to mainframe, data warehousing, pricing and analytics hub, unstructured data. TP services and broker portals

An Underwriter's Digital Environment

Underwriting Workbench - workflow, analytical decision support and data integration

