

# Insurance Smart Quote, Powered by Pega AI

*Increase your strike rate using data-driven analytics from Pega*



**Higher hit ratio,**  
lower loss ratio



A matured and  
**self-learning data  
model** with real-time  
feedback



Highly personalised  
and competitive offers to  
**increase customer  
satisfaction**



Data models and Pega  
Decisioning ensure  
**better product  
offerings** for customers

**New solution brings in the objectivity needed to facilitate fact-based, predictable and self-learning decisions for new business**

# The Facts

Underwriters are no longer just responsible for risk selection and pricing, they are now expected to:

- Support Sales function and increase new business
- Significantly decrease the loss ratio
- Increase retention rates of existing customer base

The information used by underwriters can vary widely. Also, underwriting actions are not always truly risk-based, but instead influenced by:



**Market dynamics**

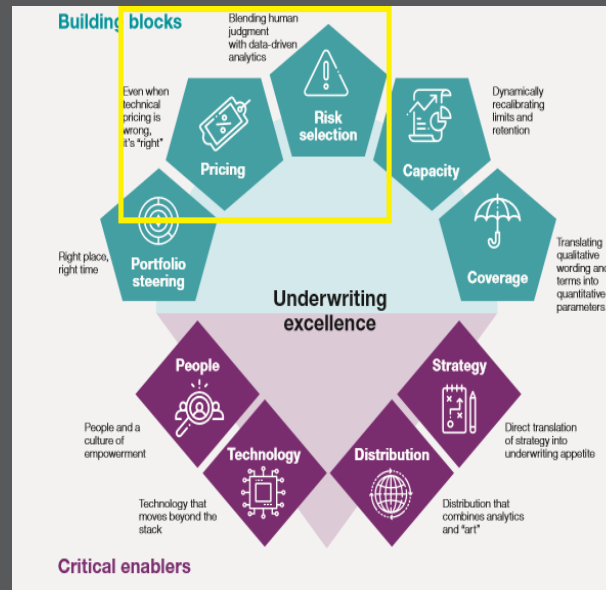
**Subjective decision making**

**External competition**

## Other Challenges

- Uniqueness of applicant's data from a risk assessment standpoint
- Inefficiencies while handling huge datasets related to risk profiles
- Risk selection and competitive pricing to avoid under/over pricing
- Deciding between risk averseness and applicant's propensity to buy

## Analyst View



Data-driven AI/ML based policy pricing and risk selection help control the Loss Ratio and contribute to Underwriting excellence

## Augmenting Underwriting with AI/ML



Of respondents believe that predictive model solutions are amongst the top 3 technological investments for underwriting

## Machine Learning is extensively used across the Insurance value chain

| PROPERTY/CASUALTY         |     | LIFE/ANNUITY              |     |
|---------------------------|-----|---------------------------|-----|
| New Business/Underwriting | 56% | New Business/Underwriting | 39% |
| Claims                    | 40% | Customer Experience       | 26% |
| Product Development       | 36% | Product Development       | 26% |
| Policy Servicing          | 32% | Policy Servicing          | 26% |
| Distribution              | 32% | Claims                    | 26% |
| Customer Experience       | 32% |                           |     |

SMA Research, 2016 Innovation and Emerging Technologies, n=84

Source: EY- CPCU underwriting

# Introducing Smart Quote, Powered by Pega AI

## Business Problem

It is widely acknowledged within the Insurance industry that data-driven analytics based human judgement would help minimize the subjectivity in Underwriting decisions and significantly improve business efficiency



## Solution Overview

Powered by Pega AI/ML based decisioning models, Smart Quote will augment the Underwriting process by:

- Providing real-time quote acceptance propensity
- Underwriter decision feedback loops into the predictive model
- Customer risk data from D&B and Pitney Bowes
- Data driven Pega Predictive models



## Future State/ Strategic Benefits

- Higher hit-ratio, lower loss-ratio with a more mature and self-learned predictive model
- Improved CSAT scores with possibility of offering new and highly relevant product mixes



## Differentiators

- Pega predictive and adaptive modelling covering the real-time aspects of business
- Providing a holistic risk assessment of the act to aid better business decisions

# ■ Adoption of Smart Quote



## Scope of Activities

**Duration for Discovery (1 week) and Dev: 4 - 5 weeks**

- Understanding of AS-IS workflow and business use case
- Extract historic data and create the prediction model
- Create the Pega Decision Strategy and link to data model
- Link Decision Strategy to Underwriter workflow
- Creation of Underwriter UI components

**SIT/UAT/Go-Live:** Along with next release of the Underwriting application

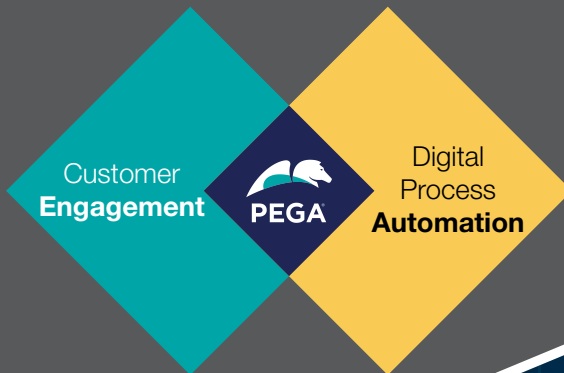
**Team:** 1 Business Analyst, 1 Pega Developer, 1 Data Analyst

## Commercials

- Smart Quote framework provided free of charge
- 4-6 week framework customisation cost to be provided to the customer as part of consultation process

## Pre-requisites

- Pega 7.x or 8.x platform license, Pega Decisioning license
- Datasets with good Data Quality and Quantity of data of at least 1 - 2 years
- Unbiased data which is representative and balanced



# Smart Quote Case Study

This client writes more than U\$1.2 billion of property and casualty insurance around the world and provides over 80 products through 18 lines of specialty insurance including most complex risks from Olympic athletes to offshore oil rigs.



## Business Challenges

- › Low premium growth esp. in soft market
- › Low quote to policy conversion rates
- › Lack of targeted segmentation of customers based on various risk factors

## What we did

- › Cleansed and analysed historical data to understand the patterns
- › Identify the key predictors that are impacting the Underwriter's decision making
- › Built an analytical model to provide actionable insights to Underwriter

## Program details

**Technology stack:** Pega 7.3, Pega DM 7.3 | **Engagement Model:** Onshore (15%) – Offshore (85%) | **Time to Development:** 5 weeks



## Business Benefits

- › Significantly improved hit ratio
- › Enhanced Underwriting with data driven risk factors to ensure accurate pricing
- › Reduced cost of risk assessment with better understanding of risk exposures

Transforming the **Customer Experience** through **Intelligent Automation**