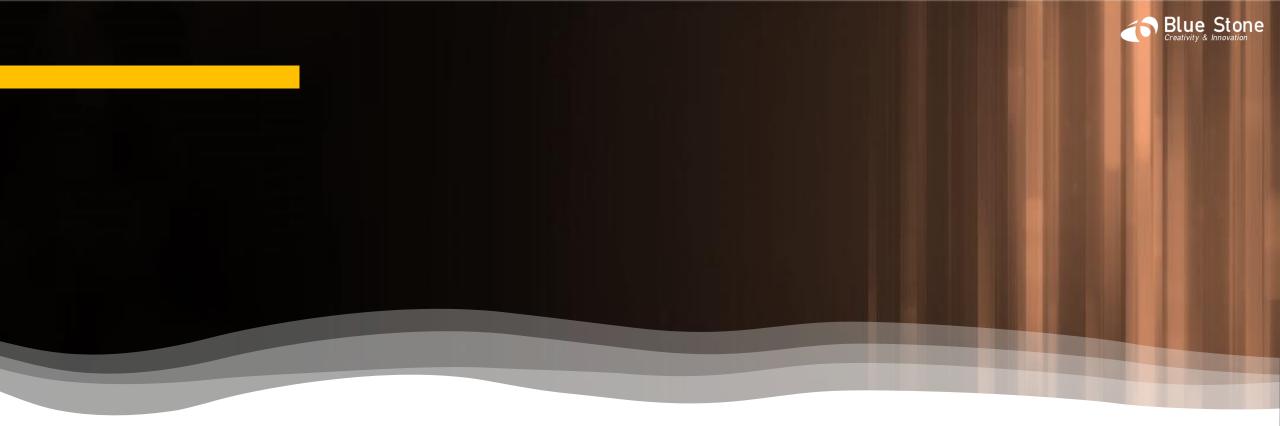
Insurance Digital Platform Trend & Application Of Insurtech

By : Blue Stone Solution

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1. InsurTech Trend in Korea

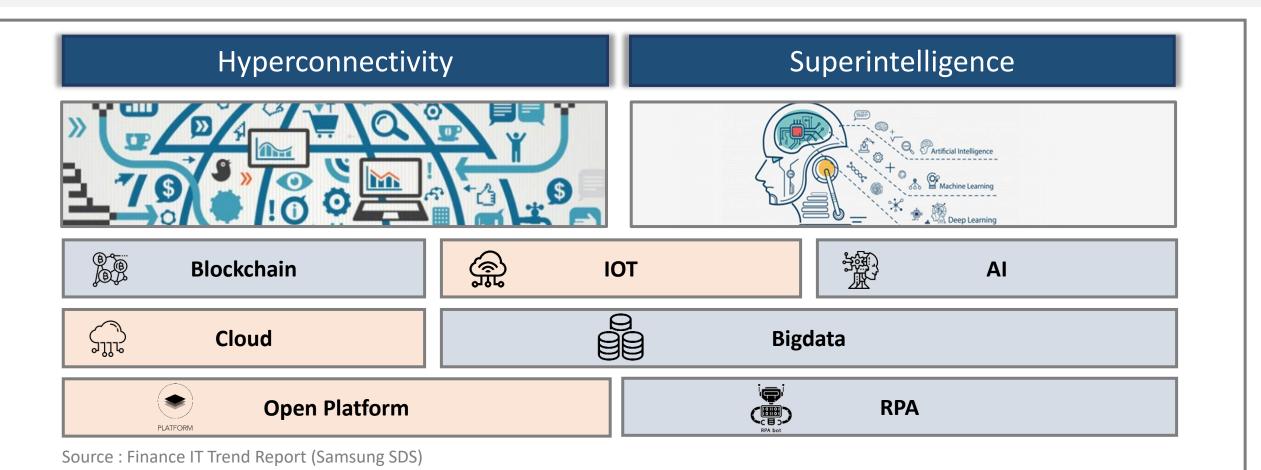
1. InsurTech Trend in Korea

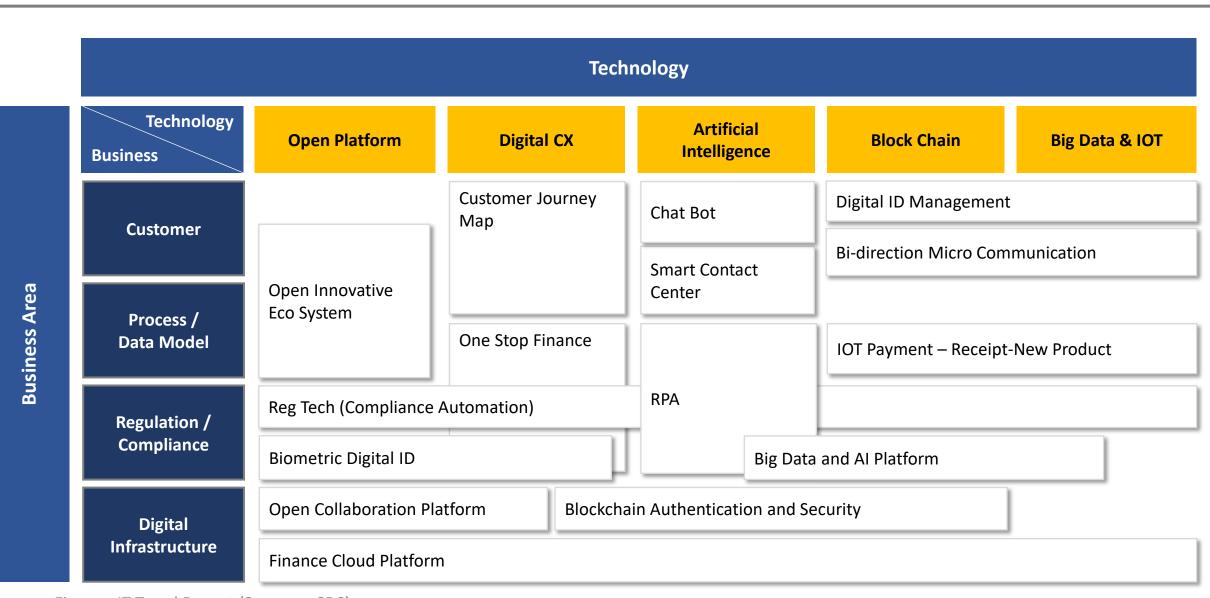


2 keywords defining Korea's 4th Industrial Revolution (4IR):

- HYPERCONNECTIVITY
- SUPERINTELLIGENCE

Hyperconnectivity and Superintelligence are becoming new growth engines for Digital Transformation, creating synergy based on ecosystem of core values of collaboration and sharing.





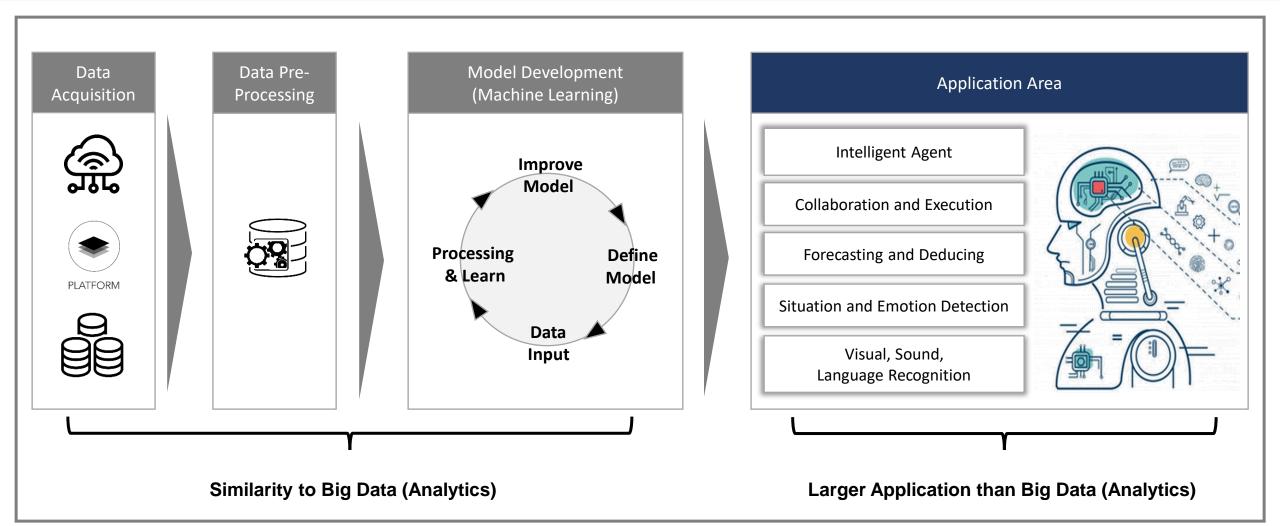
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Source : Finance IT Trend Report (Samsung SDS)

2. Case Study of AI & Big Data Approach



With explosive increase of current computing capacity and data volume, Artificial Intelligence (AI) and Big Data are significantly contributing to the Insurance industry. AI and Big Data are expected to continue its growth in Self-Learning technology, to improve prediction and refinement of Analytics Model.



2. Case Study of AI & Big Data Business Mapping



Value Chain of Insurance Business is based on co-relationship between different business areas and their relevant tasks. Under AI & Big Data, each business areas and tasks share similarity and can be converged for overall business analysis.

Customer	Product / Marketing	Sales	New New Business	Policy Administration	Underwriting / Payment	Post Service (A/S)
Analysis on Customer Churn	Analysis on Purchase based on Product Relationship	Analysis on Sales Patter of Agents	Prediction Analysis on Underwriting	Prediction Analysis on Policy Changes	Prediction Analysis on Claims	Complaint Analysis
Call Consultation (Call Center) On-Offline Contact	 Purchase Pattern by Customer Sales Similarity per Product 	 Performance Forecasting by Agent Activity Activity Analysis of Agents (who require special attention) 	• UW Object Scoring • Suitability Scoring	Policy Lapse Scoring or Grading	 Claim Underwriter Assignment Optimization Fraud Detection / Prediction Analysis 	Analysis on Call Differentiation (OB Monitoring)
Micro-Segmentation of Customer	Analysis on Product Recommendation	Optimization of Agent Management	Prediction Analysis on Application Cancellation	Need Analysis on Policy Loans		Analysis on Incomplete Sales
Multi Purpose Segmentation Customer Value	 Rider Recommendation Cross/Up Sell Target Segment per Product 	 Agent Segmentation / Competence Analysis Prediction on Agent Turn- Over 	 Application Withdrawal Risk Grading 	 Needs on Policy Loan based on Customer Segmentation & Scoring 		
Analysis on Customer Experience	Analysis on Response to New Products	• Early Stay Rate of Agents • Customer / Agent Matching • New Agent Recruiting	Prediction Analysis on Retention Rate			
Omni Channel Experience Interested Customer Activity Event Association	 New Product Sales & Response Customer Purchase Prediction Scoring 		• Retention Rate Grading			
	Personalized Premium					
		Agent Profiling				

2. Case Study of AI & Big Data Case #1. ING LIFE INSURANCE, Korea

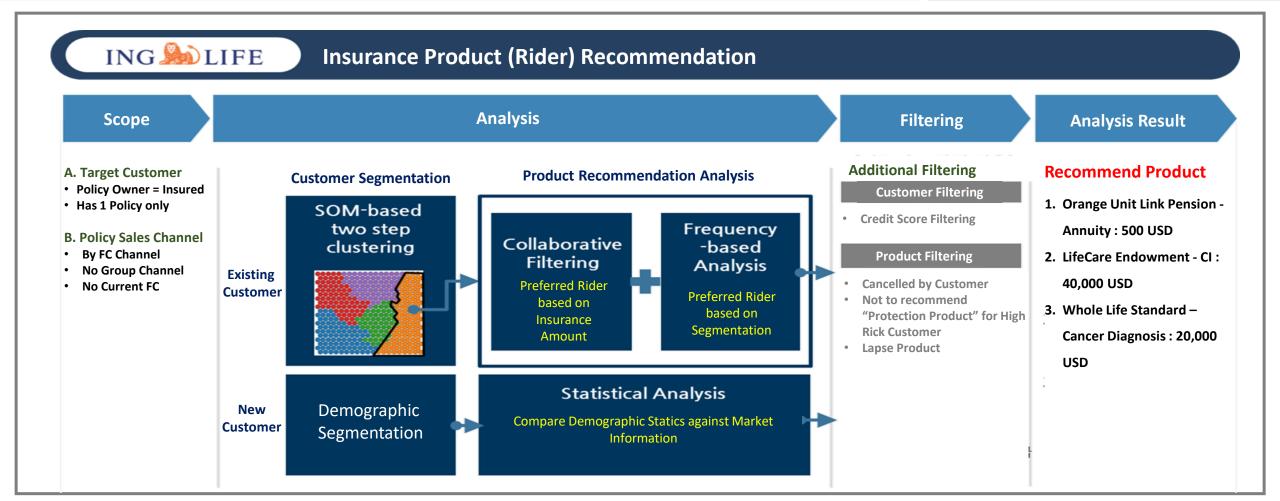


Product (Rider) Recommendation Model

Based on analysis of sales history per customer, Riders preferred by similar customers are extracted from Customer Segmentation Group by clustering and performing preference calculation.

ING Life Insurance

- 6th Largest Life Insurer in Korea
- Established: 1987
- Income Premium: 235 Million USD
- Total Assets: 25,597 Million USD



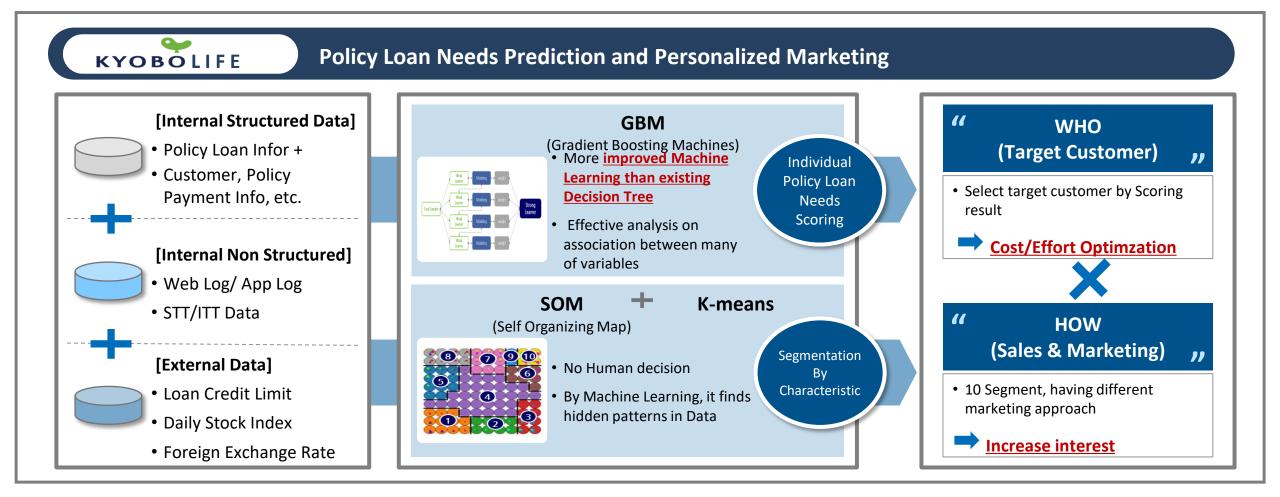
2. Case Study of AI & Big Data Case #2. KYOBO LIFE INSURANCE, Korea



Policy Loan Needs Scoring & Segmentation by Customer CharacteristicsKyoboDeveloped two analytical models (Policy Loan Needs Scoring & Segmentation by Customer• 3rdCharacteristics) which are built based on analysis of internal and external data. The models are used to
identify target customers and recommend Riders.• To

Kyobo Life Insurance

- 3rd Largest Life Insurer in Korea
- Established: 1958
- Income Premium: 9,875 Million USD
- Total Assets: 82,371 Million USD



3. Case Study of Block Chain Business Mapping



Value Chain of Insurance Business is based on co-relationship between different business areas and their relevant tasks. Under AI & Big Data, each business areas and tasks share similarity and can be converged for overall business analysis.

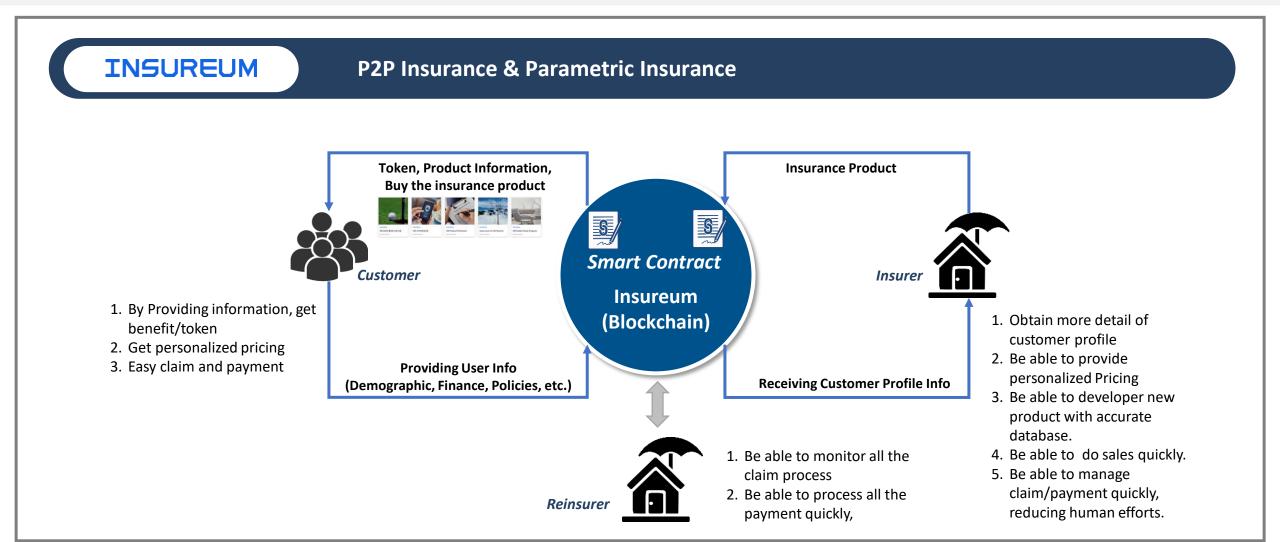
Customer	Product / Marketing	Sales	New Business	Claim / Underwriting	Reinsurance
Customer Identification	Parametric Insurance	Sales Material Integrity		Claim Payment	
 KYC (Know Your Customer) & Fraud Detection, AML (Anti Money Laundering) Empowering Customers of their personal information 	• New products made available through Smart Contracts	• All sales related documents are stored indefinitely in Block Chain Network		• Specific event will trigger automatic payment of claims amount (as agreed in the Smart Contract);	
Customer Satisfaction	P2P Insurance				
 Prevent incomplete sales Improve Retention Rate 	• Enhance existing P2P models, such as reciprocals and mutuals, by automating tasks and holding funds in escrow on Smart Contracts				

3. Case Study of Block Chain Case #1. Insureum



Block Chain based Products

Insureum is an ethereum base P2P insurance platform which provides parametric insurance for customers, and all the premium payment and claim payment are made though its own crypto currency.



3. Case Study of Block Chain Case #2. KYOBO LIFE INSURANCE, Korea

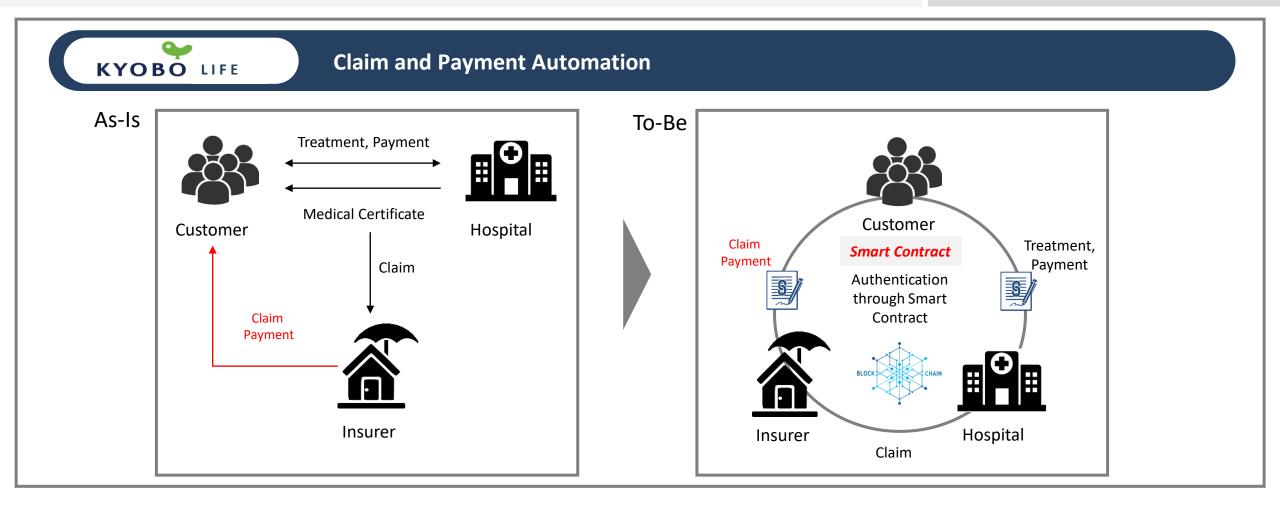


Authentication through Smart Contract

Through Smart Contract, Claims Process and Payment is made simple through integrity and transparency provided by Block Chain Authentication.

Kyobo Life Insurance

- 3rd Largest Life Insurer in Korea
- Established: 1958
- Income Premium: 9,875 Million USD
- Total Assets: 82,371 Million USD



4. Case Study of Robotic Process Automation (RPA) Business Mapping



Robotic Process Automation (RPA) is the conversion of standardized and rule-based tasks that humans on a computerized system. RPA in Insurance Industry easily connects core insurance processes with the newer capabilities you need to reduce response times, decrease operations costs, and ultimately focus your employees on higher value work

RPA Applicable Spectrum				3-Stages of RPA Growth				
Field	Finance, Accounting Human Resource	Product Development Sales, Marketing	Production, Purchase Logistics, etc.	Unstructured	ſ	Cognitive	Data & Process Benefits	I/O of Non-Structured Data Support to Human Labor
HR Services	Onboard Process Tardiness HR Admin	Benefits Legal Reporting Salary	Data Entry Training Recruitment	Uns		Automation	Model Tasks	AI, Neuro Positive Analysis Intelligent Analytics
ιт	System Installation FTP Down/Upload, Backup	File Management Email Management Folder Synchronization	Batch Server Monitoring Application Monitoring			ntelligent utomation	Data & Process Benefits Model	I/O of Semi-Structured Data Cooperate with Human Labor Algorithm
Supply Chain	Inventory Supply/Demand Contract Management	Quotation Task Orders Logistics	Refund		Basic Automation		Tasks Data & Process	Segmentation, Prediction, Cluster I/O of Structured Data
Finance	Book Management AP, Payment	Invoicing, AR Travel Expense Profit/Expense Distribution	Fixed Assets	Structured			Benefits Model Tasks	Replace Human Labor Table Automation of Repetitive
Others	Problem Solving Document Mgmt Schedule Mgmt	Workflow Mgmt CRM Testing	Document Editing		Structured Less Processing	Unstru More i	ctured Processing	Data

4. Case Study of Robotic Process Automation (RPA) Case #1. DB LIFE INSURANCE, Korea

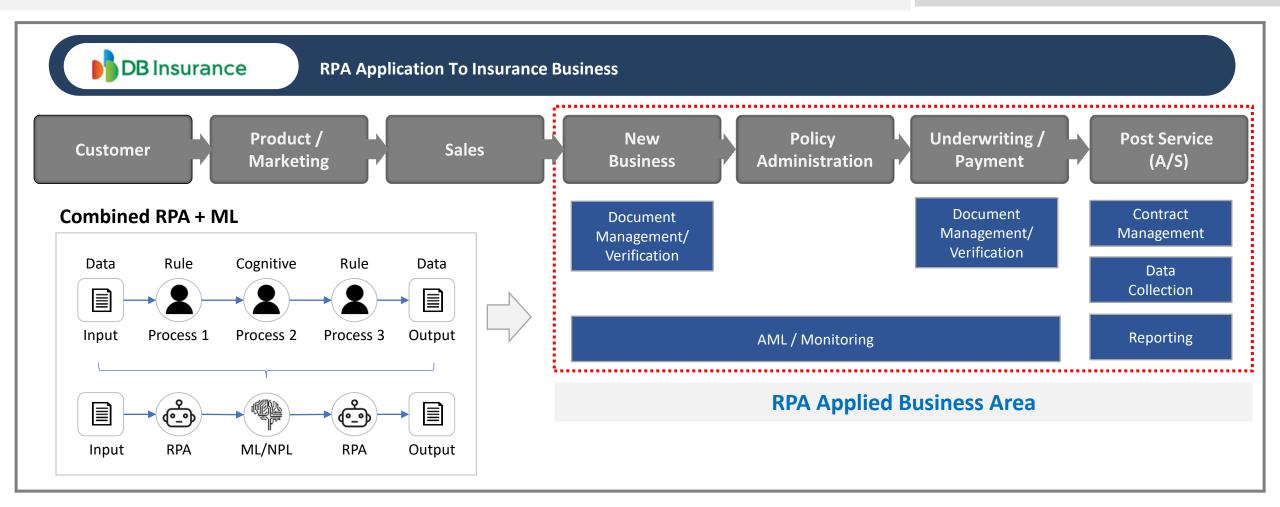


Robotic Process Automation on Key Business Areas

Total of 28 business tasks are performed through RPA; saving approximately 29,000 hour/year across the enterprise operations.

DB Insurance

- 3rd Largest Non-Life Insurer in Korea
- Established: 1963
- Income Premium: 10,104 Million USD
- Total Assets: 32,285 Million USD



5. Summary of InsurTech in Korea Challenges & Consideration

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As we have already introduced, **Superintelligence** and **Hyperconnectivity** are two major streams of technology, and in **Superintelligence**, the AI (Machine Learning), Chatbot and RPA have already been used in many places, and it is now preparing for the next step. Block Chain, Mobile, and IOT represented by **Hyperconnectivity**, the utilization of mobile device is already quite matured, but the application of

Block Chain and IOT is still in the early stages; although many Insurers are starting its pilot to see its practice and effectiveness.



RPA and OCR to automate many documentation



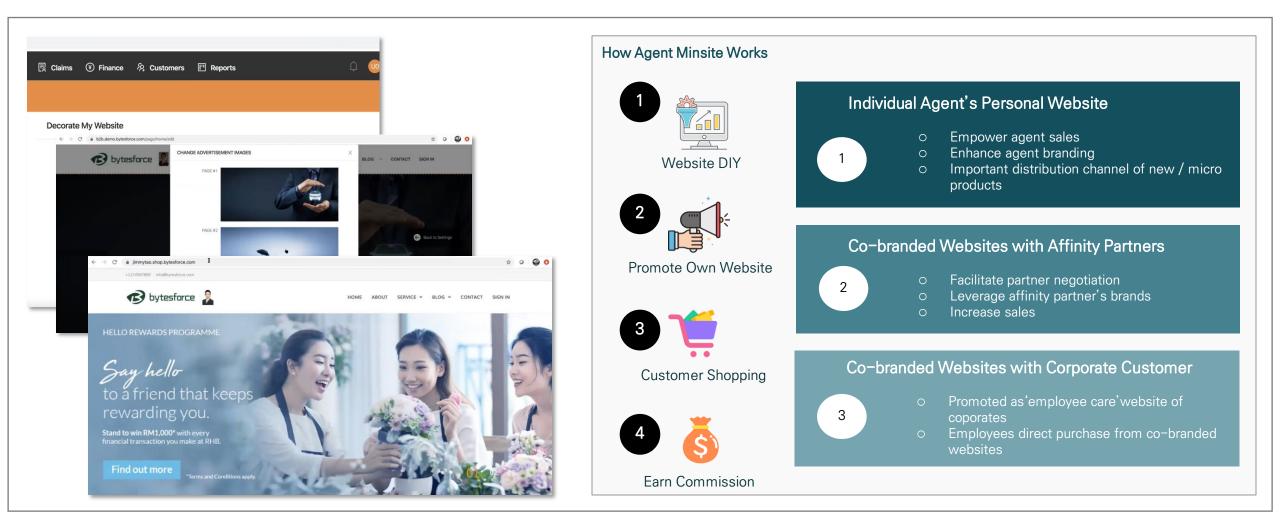
2. Practice and Application

Blue Stone's Offerings Case Studies : Agent Personal Website



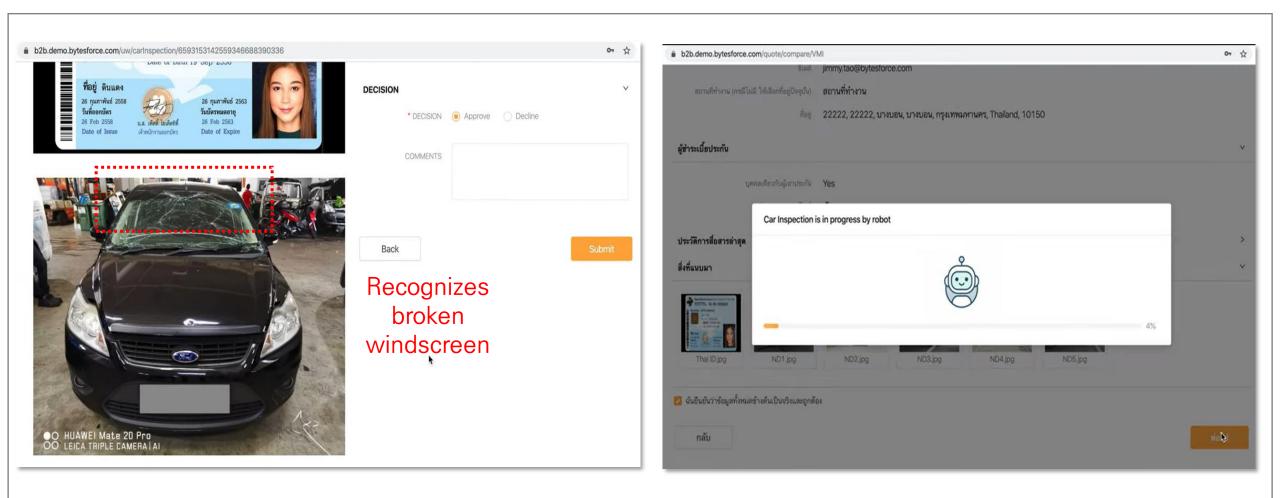
[Sales Portal]

Agents are able to create their own personalized sales website, to promote products and enhance sales opportunities. These websites are payment–linked, allowing complete B2C sales experience.



Blue Stone's Offerings Case Studies : Windscreen Claim Al Processing

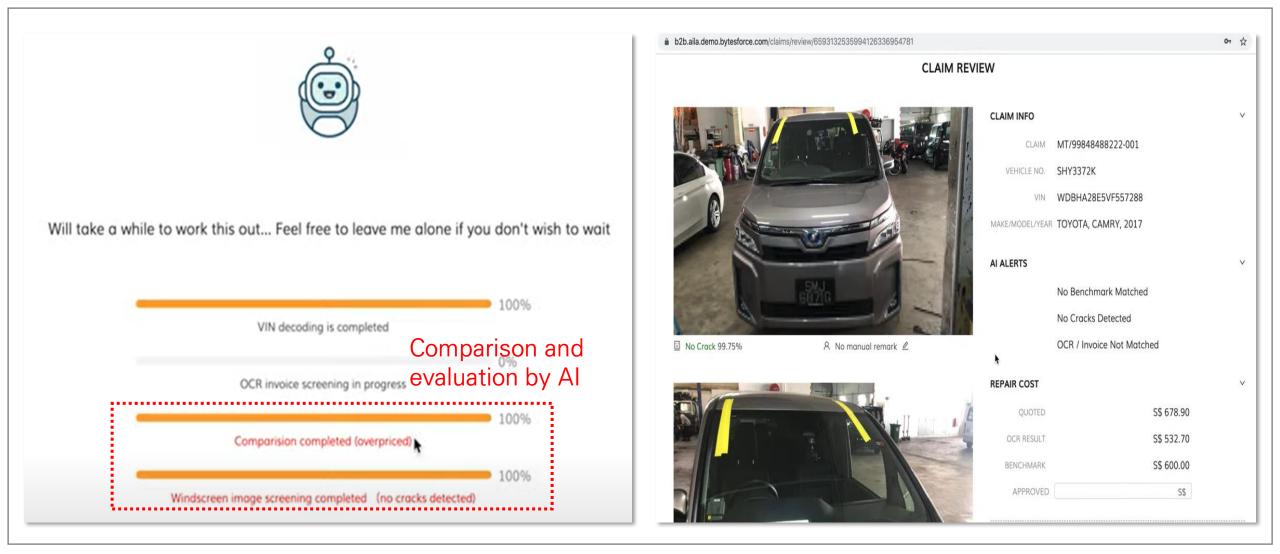
By utilizing OCR, Vehicle Damage Recognition and spare parts database technologies, motor claims can be completely automated. Click link below to view the quick demo: https://www.youtube.com/watch?v=8lo0fflZRrc Stone



Blue Stone's Offerings Case Studies : Al Car Inspection

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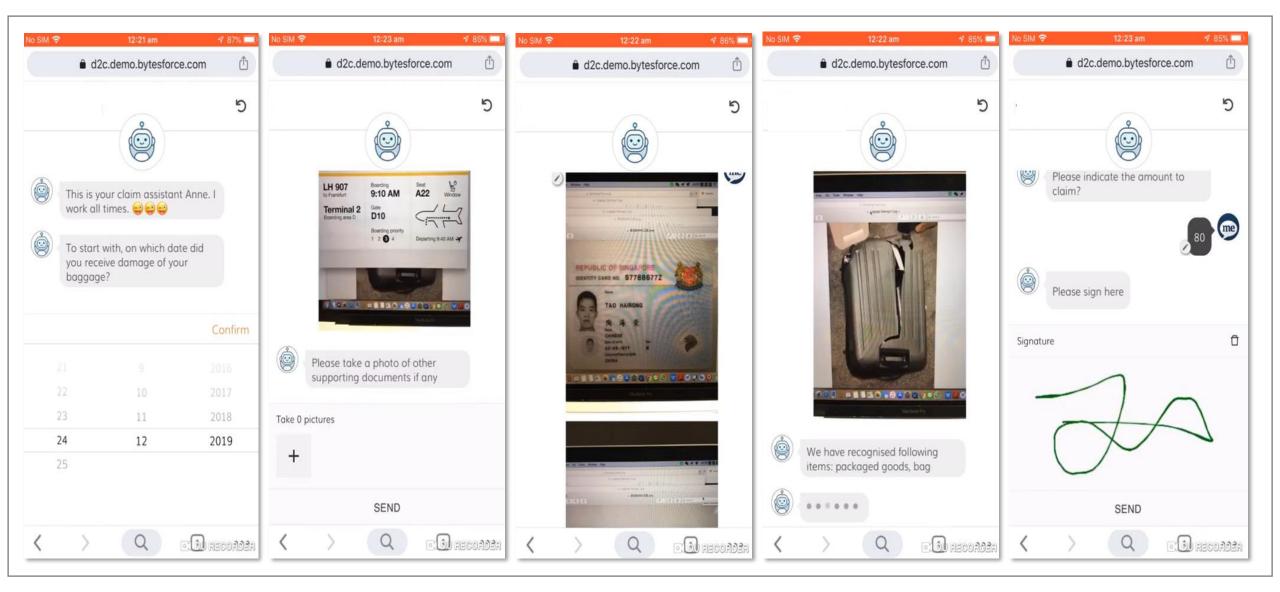
To avoid fraud in New Business, insurers in Thailand conduct car inspection. This example is to show how to use the Al technology to do automatic car inspection.



Blue Stone's Offerings Case Studies : Al Travel Claims

By leveraging Google visual apps and OCR technology, customer can do travel claims automatically and get paid in minutes!

Blue Stone Creativity & Innovation



Blue Stone's Offerings Case Studies : Know Your Customer

Creativity & Innovation

As part of our biometrics lineups, we are implementing eKYC in other markets.

- Liveness check
- Facial Comparison
- Manual intervention and auditing
- eKYC Reports



Optical Character Recognition



Liveness Detection



Facial Comparison 1:1



Facial Retrieval 1:N



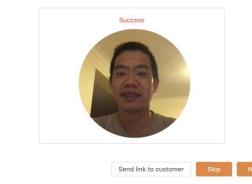
D Card D Passport

Step 2

Back

Step 1

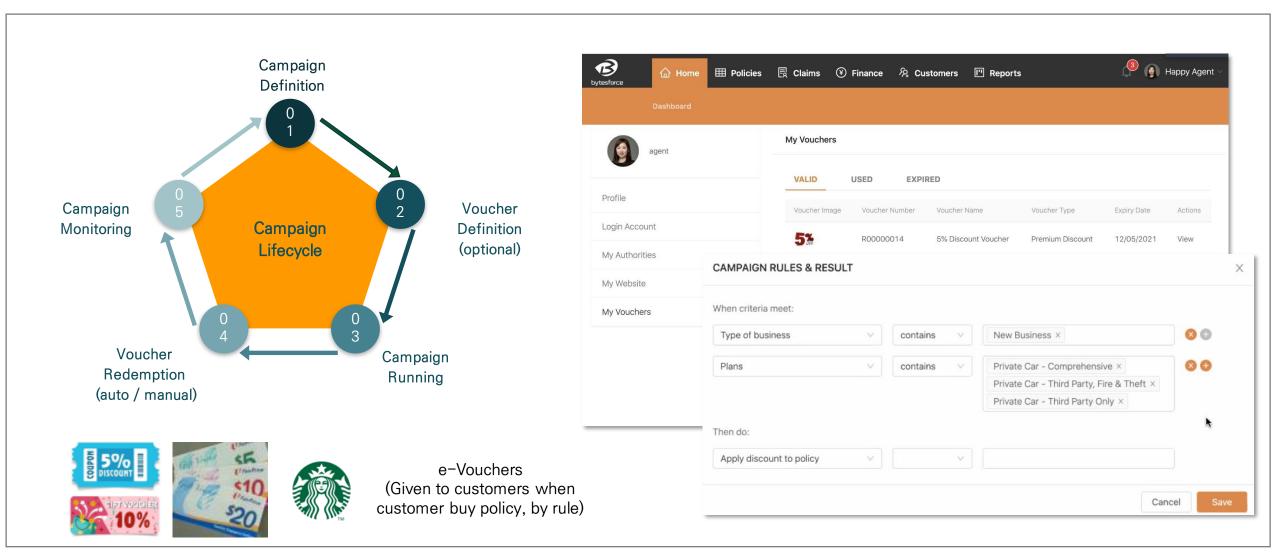
Face recognition. Please follow the guidance



Blue Stone's Offerings Case Studies : Campaign Management

Campaign Management has been advanced to allow easy configuration of campaigns, to support agents in selling policies by utilizing e-Vouchers.

Stone



Thank You Very Much

