OneSumX

The HKMA's Global Regtech Challenge Winning Solution of Problem Statement 4: Risk Management



Industry Challenges around Stress Testing

3+ months	Time required to implement stress testing	
\$100M+	Estimated annual spend of 25% of the Banks	
80% Banks	Data Automation and Data Quality concerns	
*	COVID-19, recession, losses	
	New business; Credit quality?	
- <u></u>	New regulations and compliance	
Â	Changes in the playbook; digital only banks	
C	Speed of changes and economic events unlike none previously experienced	

Predicted increase in the frequency of stress events



DISINETGRATED POINT SOLUTIONS

Lack of unified stress testing results across risk types - Credit risk, Market Risk, Liquidity and Capital all in one view.

DATA SILOS

Segregated portfolios & reconciliation issues as data are not integrated and often kept in silos.



DIFFICULT & TIME INTENSIVE PROCESS

Manual processes, long turnaround time to create stress scenarios and generate stress testing results.

LACK OF OPTIMIZATION

Lack of bottom-up and top-down approach for capital & liquidity planning.



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LACK OF CONSISTENT SCENARIOS

No enterprise-wide implementable & reusable scenarios, different data sets, models & methods.

SIGNIFICANT COST OF OWNERSHIP

Disintegrated solutions lead to high maintenance costs & infrastructure costs.

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OneSumX Integrated Stress Testing Solution

World Class Reconciled

central Data layer

platform

scenarios

Strong data glossary

Ad-Hoc Stress

Scenarios Agility

Easy slice and dice and

analytics for capital and

liquidity planning

Store data from multiple



Credit Risk, Market Risk, Reputational Risk, etc. are prebuilt and available to be stressed Stochastic stress testing using Static and Dynamic analysis **Data Management** Historical Data management Robust Interfacing capability sources and domains to give one seamless integrated Quickly create ad-hoc stress **Multi-dimensional Solution**

OneSumX Solution

Robust Risk Stressing Methodologies

Finance & Risk Calculation

- Easily configurable Business Rule engine to perform complex calculations
- Supporting various Finance & Risk Calculations such as IFRS9, Credit Risk (RWA), CVaR, Market Risk, Reputational Risk, etc.
- Strong stress capabilities to stress various risk factors such as macro economic factors. credit risk factors. market risk factors, etc.

Business Analytics

- Online analytical processing (OLAP) cubes to view reports in various dimensions & hierarchies
- Generation of regulatory reports in prescribed format given by regulators
- Management dashboards using analytical tools

Proof of Value¹

COST (HKD)

EFFORT



100%

With OneSumX, errors are drastically reduced, and once maturity is achieved with the tool, experience **0 errors** making stress testing results actionable for competitive business decision **78%**

Working days are reduced from 930 man-days to 204 man-days (for a single Bank), with better efficiency and reduced resourcing requirement. Cost is drastically reduced from 11M HKD to only 2.6M HKD

100%

With OneSumX, agility for crisis reporting is increased by 100%. **Cost for 5 years of License is recovered** within the **first year** of implementation. Lower capital buffer is charged by a regulator

20% 100% 930 MD5 LIM Effort (MDs) reduction ~78% 2.6M 204 MDs Employees required ~6 Cost reduction ~76% Stress testing done once a month No Manual processes = 0 Errors Man-days (MDs) required ~930 **Employees required** ~ 19 Cost is 11M HKD per year Stress reporting is done once every 6 months ~ 20% **Error-prone processes** EFFICENCI EFFICENCY **OneSumX** Manual

Wolters Kluwer ¹Use Case for a locally incorporated global bank. The calculations are vetted by a renowned bank in Hong Kong.

COST (HKD)

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