



ERM – Can Automation Help To Reduce Risk?

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Meeting the Challenges of Change

14th Global Conference of Actuaries

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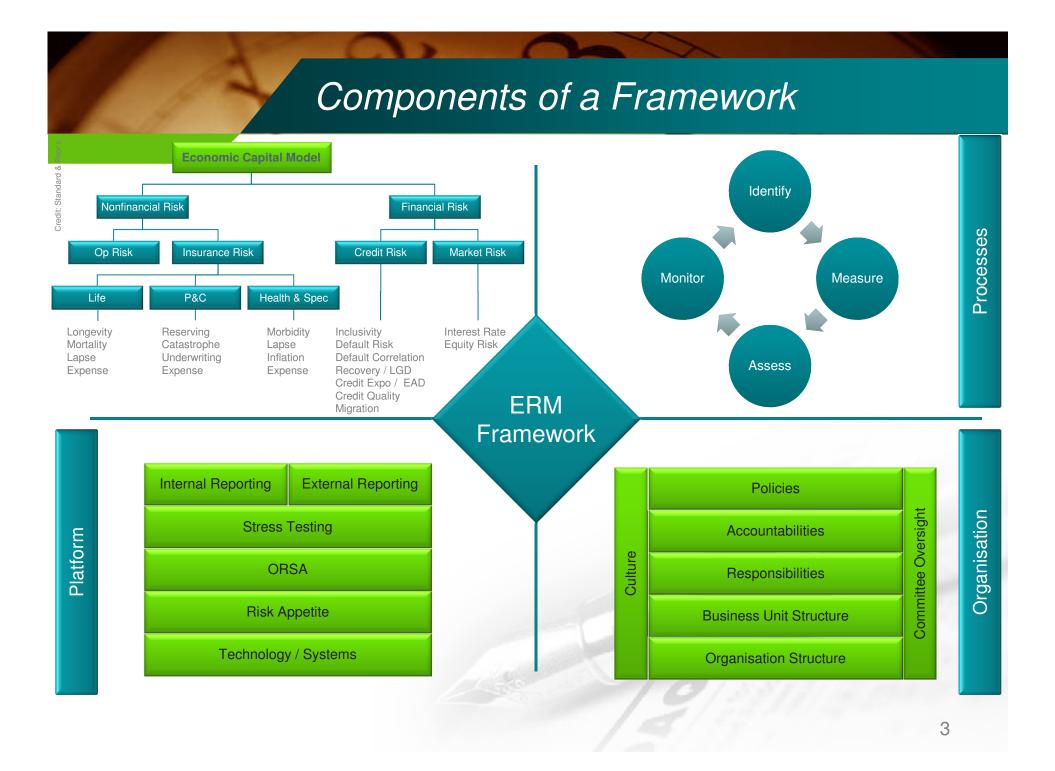
Context

Regulatory & External Pressures

- Regulatory pressure for significant improvement in disciplines around the risk process.
- Demand for increased speed, improved accuracy, expanded reporting
- External agencies are looking at the disciplines around the risk process (automation, robustness).
- Timely and accurate reporting has an impact on competitiveness and attractiveness of the company.

Holistic Approach

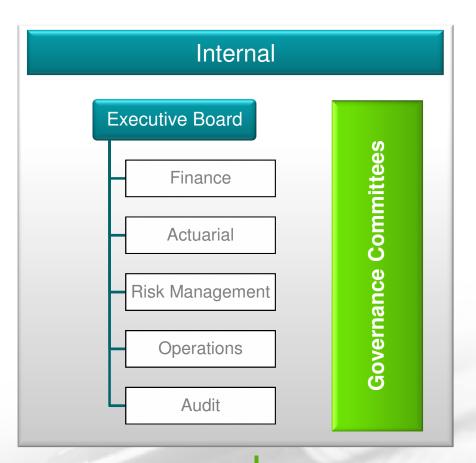
- Move towards a more holistic approach to risk management
- Enterprise Risk Management addresses the complete risk management ecosystem
- Focus on the infrastructure to support the wider perspective, with an emphasis on automation, control, integration an industrialization of the risk process.



Stakeholders

External

- Regulators: protecting the end customers's investments and benefits
- Rating agencies: strength in risk management processes and a focus on solvency and capital adequacy
- Policyholders: a desire to have a riskfree return and assurance of benefit payments
- Shareholders: focus on strong returns with an acceptance of more risk



Non-executive Directors

Challenges

Pressure to improve timeliness with increased reliability, and disparate data sources integrated into a complete picture across the organisation

Internal Pressures

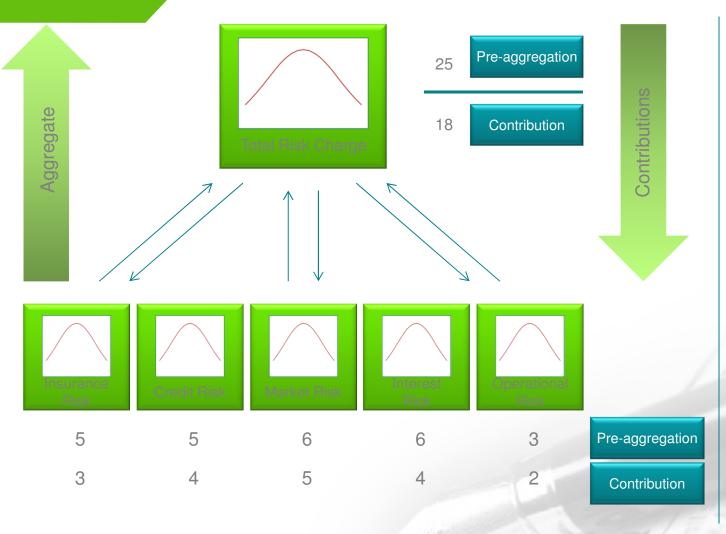
- Reporting deadlines
- Holistic view
- Validation and control of models

Regulatory Trends

- Solvency II
- IFRS
- Risk Based Capital
- others

Pressure on manpower as organisations attempt to implement changes and meet deadlines

Challenges: Risk Aggregation

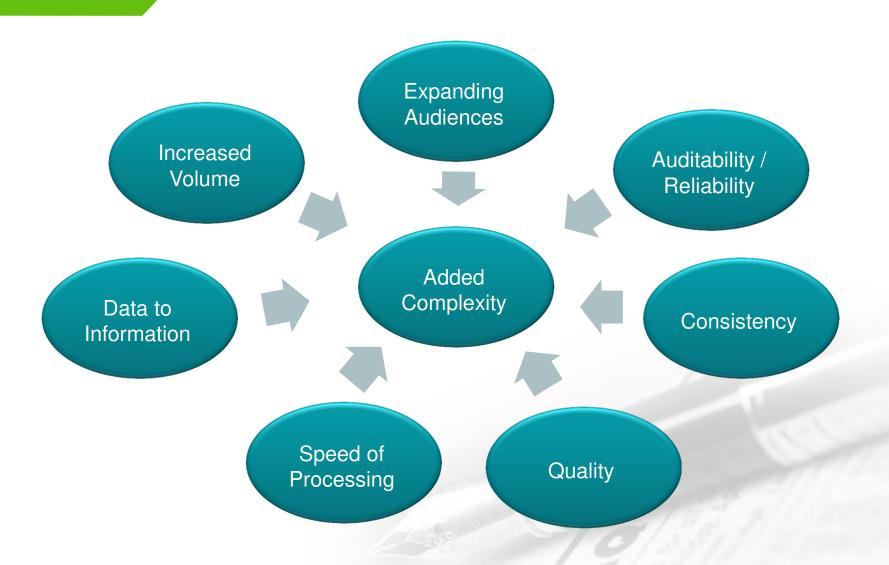


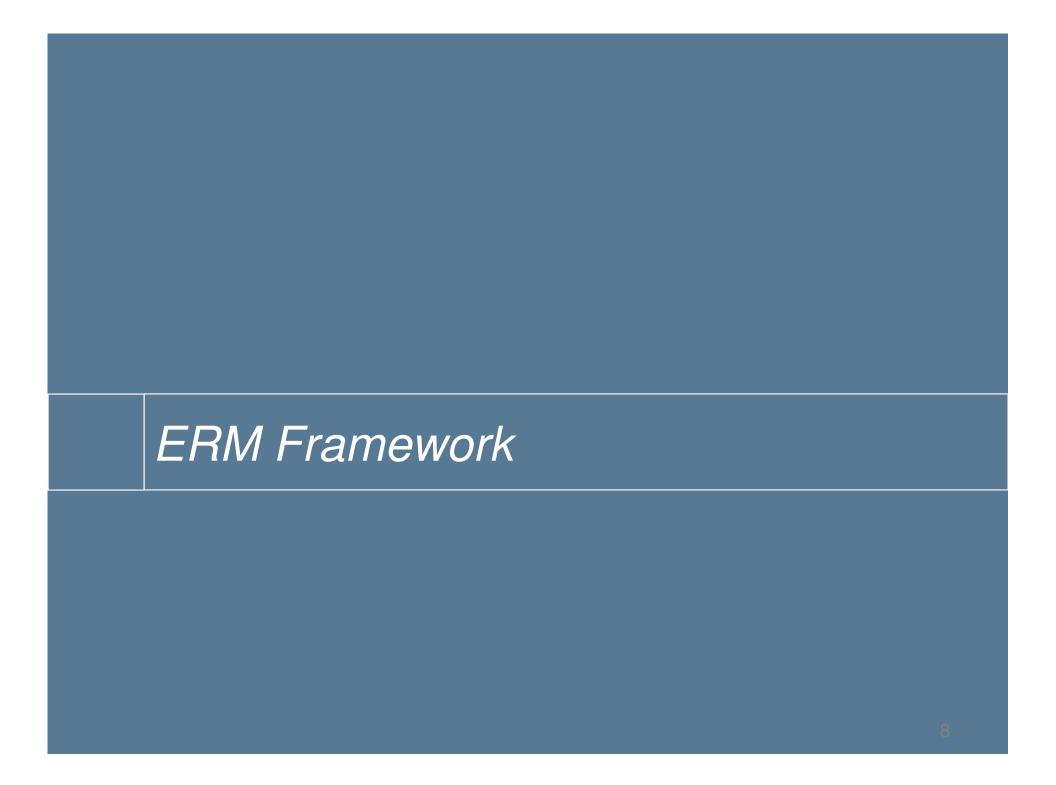
Contributions

The aggregation process must help and inform the organisation by capturing and making accessible the contribution of individual dimensions:

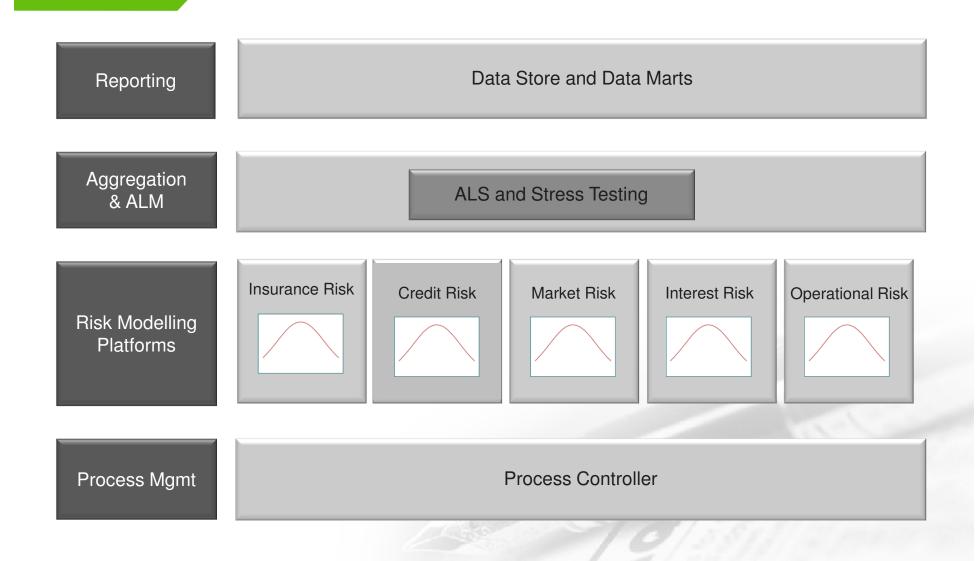
- Business unit
- Sales channel
- Product line
- Geography
- Department
- Other

Challenges: Data

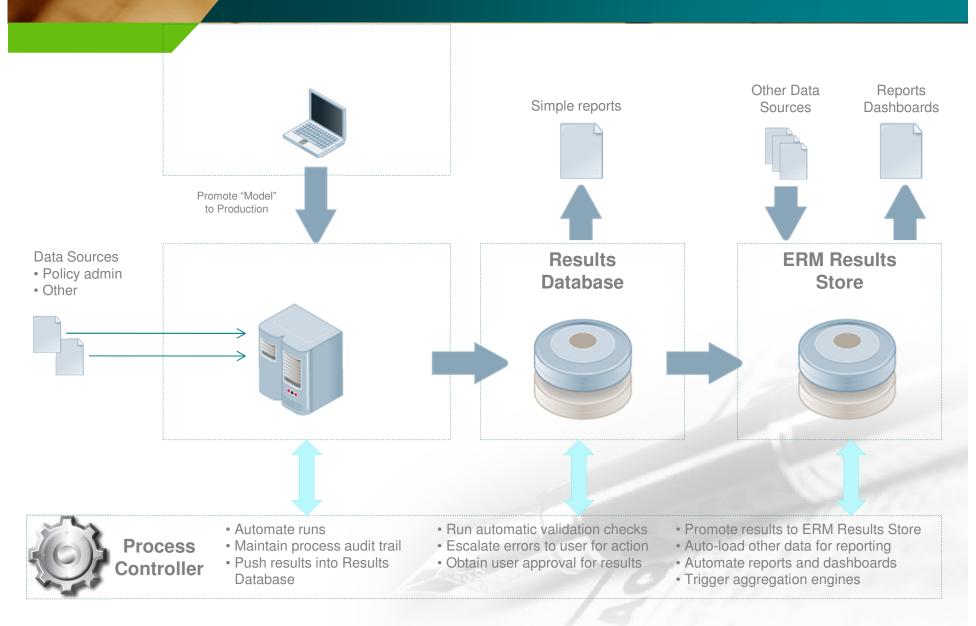




Systems & Solutions



Architectural Framework



Business Benefits

Data Management & Security

- Easy access to data inputs and results data
- Structured and extensible data model
- High volume scalability
- Data lineage supporting full auditability of the data trail
- Secure environment

Governance & Control

- Status of current process, process analytics, history
- Exception handling, human workflow and validation
- End to end automation and business orchestration.
- Integration, document and content management, archive and recovery
- Extensible process model development, version control

Transforms Data to Information

- Executive dashboards, actuarial worksheets, spreadsheets
- Regulatory, disclosure and audit reporting
- Delivery of information that is informative, relevant, timely and actionable
- Analytics and business intelligence
- Publishing capabilities, library management and retention of report, output, dashboard and worksheet histories and versions
- Compatibility with most other third-party reporting and BI tools

Reports & Controls



Prophet ERM ▶ Risk Waterfall

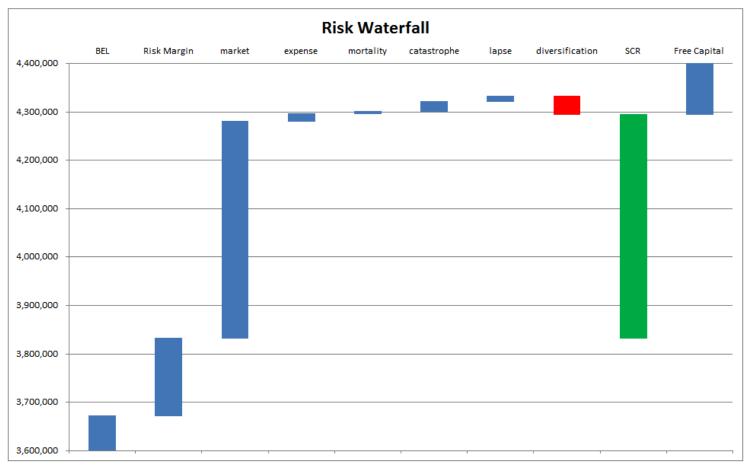
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Balance Sheet: Book and Market Value of Assets | Risk Waterfall | SII Balance Sheet

Risk Waterfall (Excel Services)

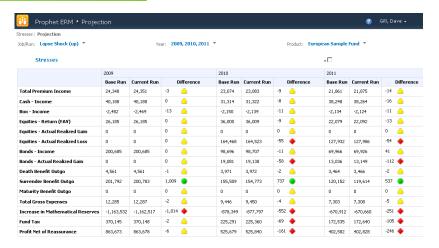


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Reports & Controls

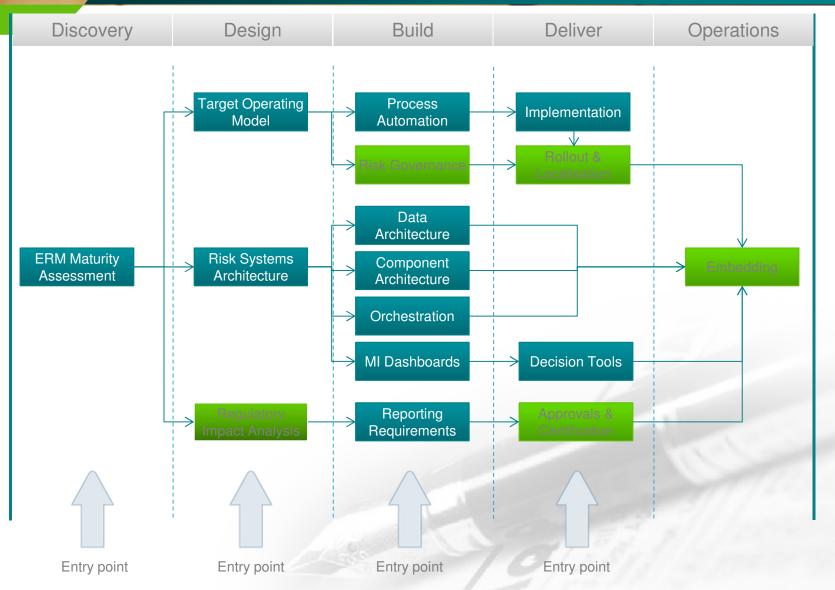


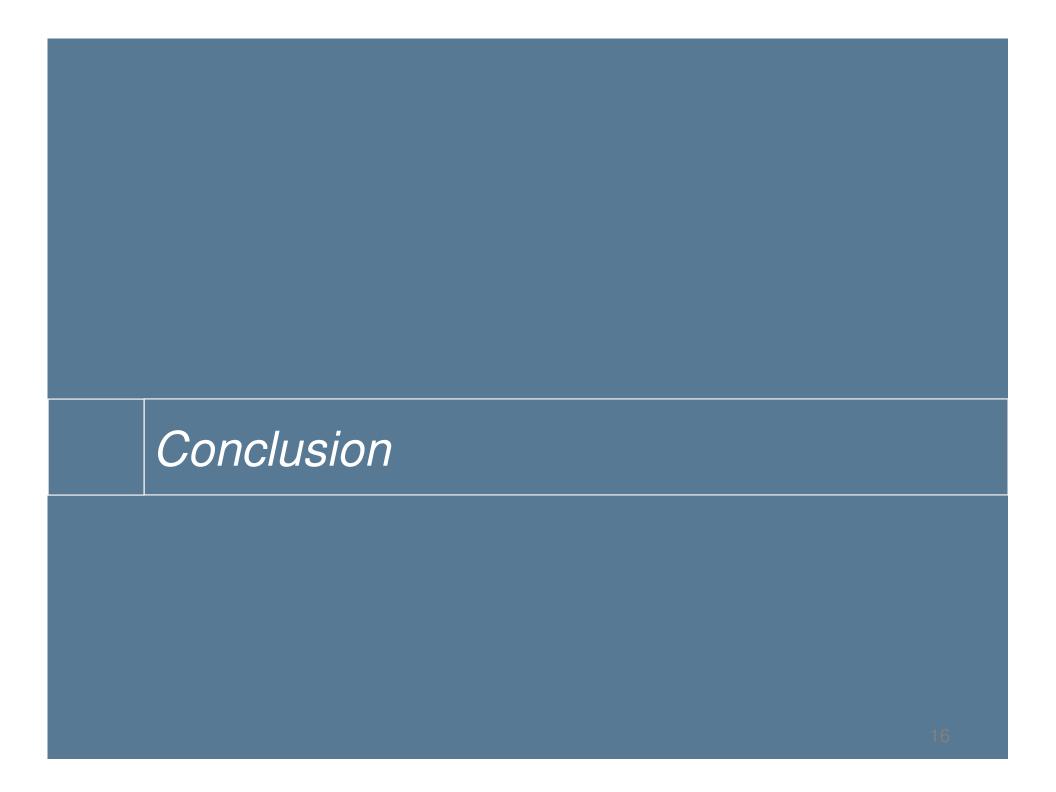






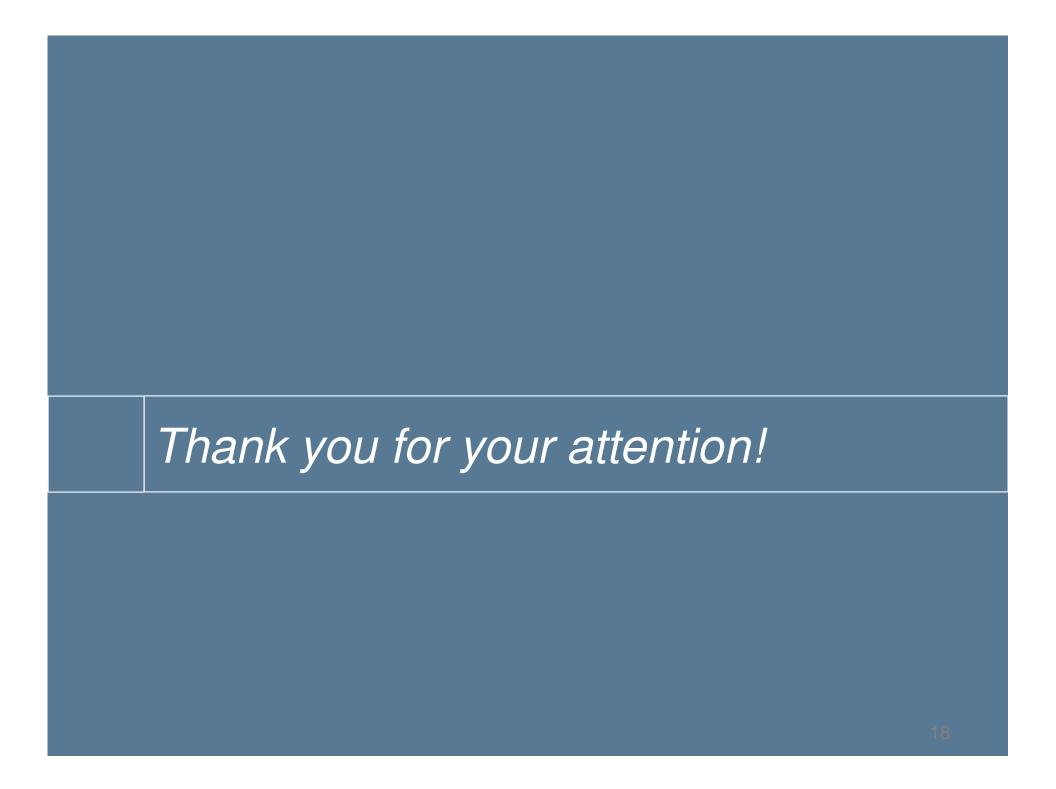
Roadmap





Conclusion

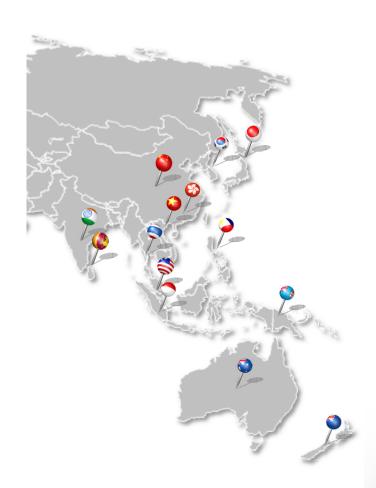
- Can Automation Help To Reduce Risk?
 - In many ways:
 - Integration
 - Standardization
 - Controls
 - Transparency
 - Consistency
 - Efficiency
 - Elimination of human errors
 - Supports Process and Procedures
 - Supports Change Management Initiatives





About SunGard iWorks About SunGard iWorks

SunGard iWorks in Asia



iWorks Solutions in Asia	
Australia	Philippines
China	Singapore
Hong Kong	South Korea
India	Sri Lanka
Indonesia	Taiwan
Japan	Thailand
Malaysia	Vietnam
New Zealand	

Over 220+ Customers in Asia



Key Solutions

- iWorks Risk Management Solutions
 - iWorks Actuarial Risk Solution
 - iWorks Operational Risk Solutions
 - iWorks Market Risk Solutions
 - iWorks Asset Management Solutions
- iWorks Policy Administration Solutions
- iWorks Health Insurance Solutions
- iWorks Distribution Solutions
- iWorks Services



Key Solutions

- iWorks Enterprise Risk Management Framework (ERM)
 - Core Technology
 - iWorks Prophet Solution
 - Modules
 - iWorks Prophet Results Database (PRD)
 - iWorks ERM Data Control Centre (EDCC)
 - iWorks ERM Data Warehouse (ERDW)
 - Services
 - iWorks Data Management
 - iWorks Business Process Management
 - iWorks Information Management

iWorks - Contribution to the Insurance Industry is being recognized

2011 Life & Pensions Risk Awards – Best Actuarial Modeling Solution

2010 Chartis RiskTech100 – Winner of Insurance Vertical Category





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