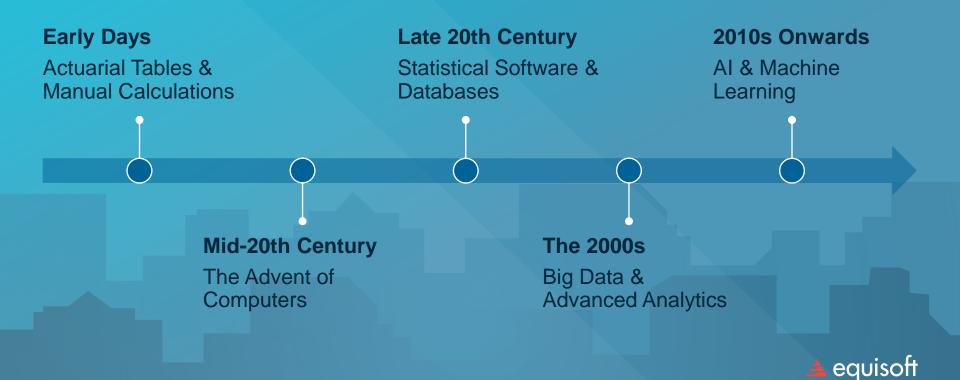
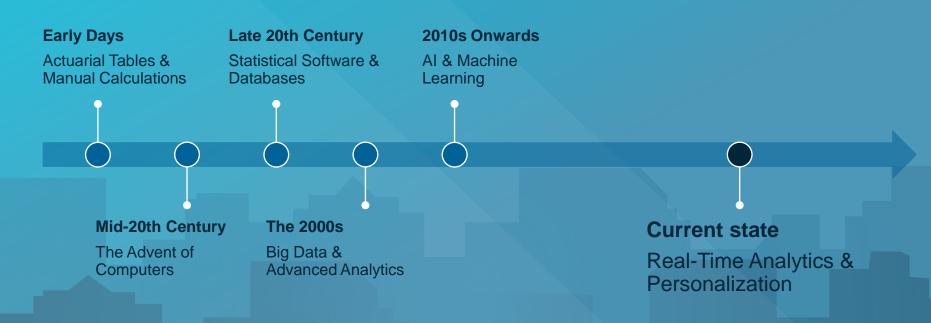


EMPLACING ANALYTICS FOR INSURANCE TRANSFORMATION

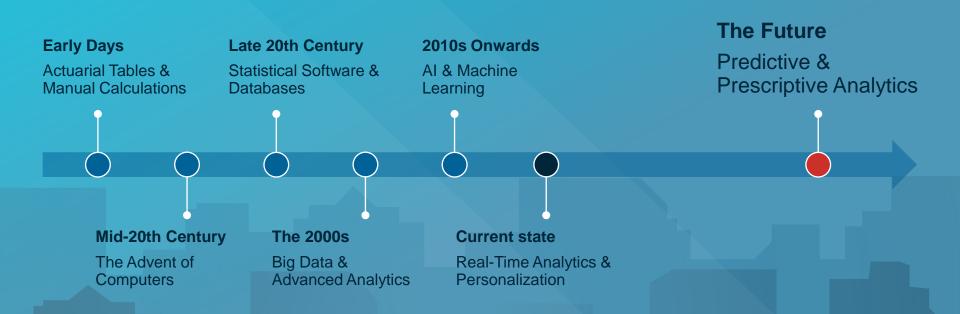
Brief history of analytics in L&A



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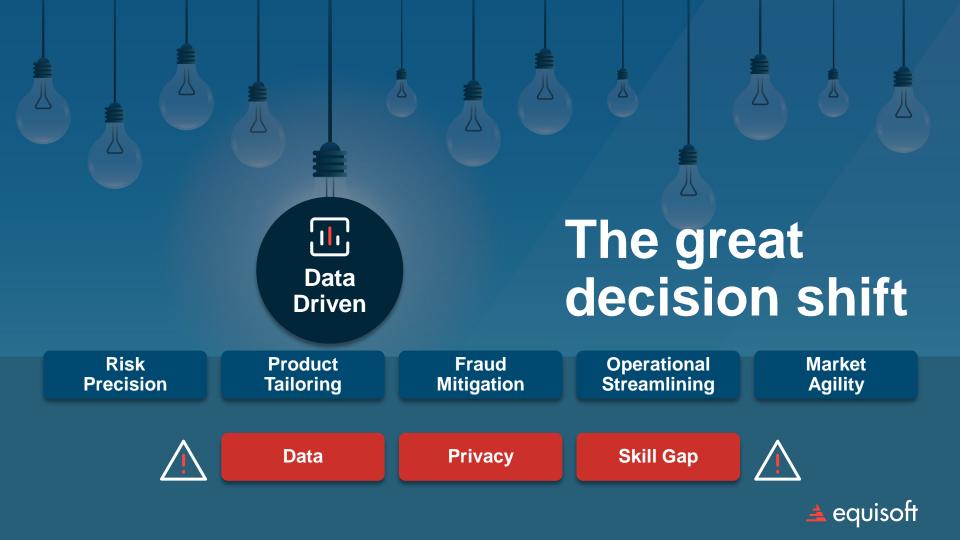


Brief history of analytics in L&A













Underwriting Support

Autonomous Underwriting

Behavioral Modeling

Risk Analytics

Accelerated Procedures

Accelerated Procedures

Process Automation

Intelligent Automation

Claims Automation

IT Support

Data Entry

Sales & Marketing

Lead Management

Targeted Marketing

Product Recommendations

Cross-Sell Optimization

Claims Management

No-Touch Processing

FNOL Submission

Claims Assessment

Real-Time Tracking

Customer Support

Policy Summarization

Chatbot Service

Virtual Advisors

Engagement Tools

Pricing & Policy

Dynamic Pricing

Pricing Optimization

Renewal Prediction

Fraud & Risk

Fraud Detection

Anomaly Monitoring

Risk Prediction

Churn Analysis

Operational Efficiency

Lapse Prevention

Reinstatement Streamlining

Predictive Modeling

Regulatory Reporting

IFRS 17 Compliance

Management Reports

Liability Forecasting

Customer Experience

Service & Support

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Step 1 Prediction



Learning

Data Requirements PAS/Actuarial System Data Client Financial Data Demographic/Economic Indicators & Data **Customer Interaction Logs** Historic Lapse Data



Step 2 **Prevention**



Intelligent Process Automation

Personalized	Early Warning
Communication	Systems
Flexible	Tailored
Payment Options	Incentives
Loyalty	Financial Hardship
Programs	Assistance



Data Requirements

PAS/Actuarial System Data

Client Financial Data

Demographic/Economic Indicators & Data

Customer Interaction Logs

Historic Lapse Data

Customer Feedback Logs

NPL Model Tuning Data



Step 3 Management Reporting





Data Requirements

PAS/Actuarial System Data

Client Financial Data

Demographic/Economic Indicators & Data

Customer Interaction Logs

Historic Lapse Data

Customer Feedback Logs

NPL Model Tuning Data

Prediction Augmented Data



Step 3

Management
Reporting



Data Requirements

PAS/Actuarial System Data

Client Financial Data

Demographic/Economic Indicators & Data

Customer Interaction Logs

Historic Lapse Data

Customer Feedback Logs

NPL Model Tuning Data

Prediction Augmented Data











Insurer seeks to achieve pricing that accurately reflects risk and customer value in real time



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Step 1

Select Adjustment Criteria



IoT Hub

Lifestyle-Based	Market
Adjustments	Landscape
Behavioral	Engagement
Adjustments	Adjustments









Dashboards

LLMs

Machine Learning

Data Requirements

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Policyholder Behavior IoT Data

Channel and Distribution Data



Step 2

Model Development



Data Requirements

PAS/Actuarial System Data

Client Financial Data

Demographic/Economic Indicators & Data

Customer Interaction Logs

Historic Lapse Data

Customer Feedback Logs

NPL Model Tuning Data

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Policyholder Behavior IoT Data

Channel and Distribution Data



Step 2

Model Development

- Data Collection
- Risk Assessment
- Testing and Validation
- Technology Integration
- Pilot Program
- Feedback Analysis
- Full Implementation









IoT Hub

Dashboards

LLMs

Machine Learning

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Reporting



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Data Landscape











Dashboards

LLMs

Internal Data

Structured

Digital & UW Channel Data

PAS/Actuarial System Data

Client Financial Data

Historic Lapse Data

Unstructured

Customer Interaction Logs

Customer Feedback Logs

External Data

Structured

Policyholder Behavior IoT Data

Demographic/Economic Indicators & Data

Prediction Augmented Data

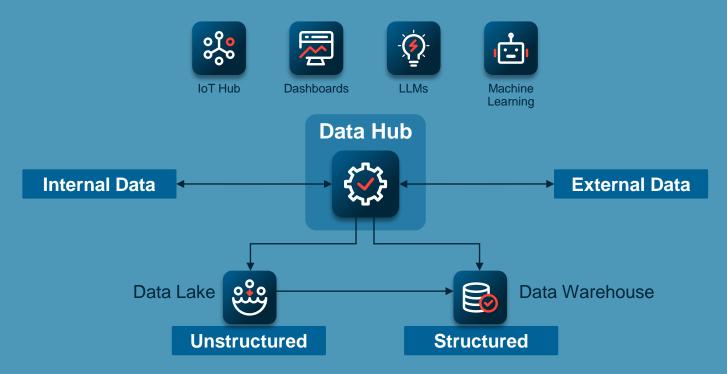
Unstructured

Channel and Distribution Data

NPL Model Tuning Data



Bedrock of the Analytics Journey





How to increase your chances of success

Foundation

Avoid the 'Infinite Data Lake' Pitfall

Build Targeted Data Lakes (Specialized)

Rigorous Data Lifecycle Policy

Automated Data Quality Control

Execution

Start with the business

Diversify Data Sources

Partner with users

Work-flow integration & Adoption





Actuaries of the Future

- Foster a culture of innovation and continuous learning in analytics
- Think analytically beyond the traditional role and in every aspect of L&A insurance



Enabling the digital transformation of life insurance and investment industries with strategic end-to-end solutions

Ghassan Karam

Director, Core Insurance Solutions

ghassan.karam@equisoft.com

USA | Canada | Chile | South Africa | India | Australia | Colombia | UK | Trinidad