

Actuarial Acceleration: Modernizing with Low-Code

How insurers can optimize processes and improve decision making among actuaries.

Actuaries need efficiency and information.

Actuaries depend on historical data and context to make decisions about the risk insurers take on. As insurers continue their digital transformation journeys, it's important to think about how technology can support actuaries and optimize their workflows.

Actuarial process optimization is a framework for using modern technology to make continuous improvements to processes that commonly fall within actuarial responsibilities.

Challenges in actuarial processes.

Actuarial staff at insurance companies have limited efficiency and knowledge sharing capabilities due to outdated core solutions that can't keep up with today's business expectations and consumer demands.



Lack of unified systems and data: Disconnected, disparate legacy core systems don't have the efficient functionality modern workflows demand. As a result, insurers are still completing mission-critical work manually in spreadsheets. Insurers' inability to integrate advanced data sources means they lack a single source of truth, limiting informed decision making.



Inefficiencies due to outdated solutions: Solutions from 10, 20, or even 30 years ago just don't have the functionality needed to keep pace with today's digital work environment. Toggling between multiple systems results in lost time, distractions from value-driven work, and increased risk of human error.



Limited auditability and transparency: Actuaries often don't have the ability to analyze results or easily hone in on specific data points, limiting visibility of critical data that could lead to more informed decisions. Clean and easy-to-understand results are also essential for auditability.



Difficulty staying informed on workflow management: Legacy solutions aren't equipped to provide easily obtained approvals, visual progress in the workflow journey, and documentation of the final decision, which are essential to ensuring all parties are well informed.

45% of property and casualty insurers and 49% of life insurers aspire to some level of automation to maximize actuaries' time.

Willis Towers Watson, "How is process automation changing the insurance actuarial function?," July 2021.

Five benefits of modernizing with low-code technology.

Low-code actuarial modernization solutions are built to address the unique challenges faced by actuaries and their broader organizations.

1. **Increase efficiency:** Eliminate manual tasks, like cleaning, validating, and loading data, by using automation to generate results and reports—allowing actuaries to focus on high-value work, like strategic planning and decision making. Reduce the chance of human error by eliminating the need for actuaries to rekey data between systems.
2. **Maximize existing technologies:** Easily integrate systems, spreadsheets, and new data sources. Connected systems will become increasingly important as the race to optimize big data intensifies.
3. **Accelerate time to market:** Get to market faster by automating complex workflows to translate actuarial findings into pricing for existing and new products. Insurers can also leverage business rules and intelligent document processing, powered by artificial intelligence, to conduct experience analysis.
4. **Improve auditability and transparency:** With streamlined data from other enterprise technologies, easily generate reports to analyze actuarial outcomes and understand what's driving results.
5. **Boost actuary satisfaction:** Win the talent war amid the Great Resignation by providing actuaries with a cutting-edge tech environment and reducing tedious, manual work.

Optimize workflows for more strategic actuarial outputs.

Low-code helps prevent actuaries from getting bogged down in repetitive manual tasks by automating manual processes, letting actuaries focus on using their analytical skills to add value to their organizations with informed decision-making. Through actuarial process optimization, insurers consolidate multiple sub-processes to increase oversight, improve governance, and allow for application-supported validation, driving efficiency and information sharing for optimal actuarial workflows.

84% of chief and reserving actuaries surveyed by Willis Towers Watson reported they didn't have enough time for detailed, value-added data analysis.

Get started modernizing your actuarial process with KPMG and Appian. For more information, contact sales@appian.com.