# International Journal of Science and Research (IJSR) ISSN: 2319-7064

**Impact Factor 2024: 7.101** 

## The Future of Asset Management: AI, Tokenization, and Annuity Innovation in Retirement Solutions

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Abstract: Shifts in global demographics and increased longevity are contributing to the challenges of retirement security. Annuities, which offer lifetime income protection, may play a role in addressing these issues. Historically, annuities have experienced limited utilization due to product complexity and distribution barriers; however, developments in artificial intelligence (AI), product design, tokenization, and distribution models are influencing the market. BlackRock's launch of tokenized funds, such as the BUIDL U.S. Treasury fund, demonstrates how blockchain technology can impact cost efficiency, transparency, and liquidity in asset management. This paper reviews changes in the relationship between annuities and asset management, focusing on AI's functions in personalization and compliance, the potential for tokenization to lower certain costs, and technology's role in supporting distribution. It considers that asset management may continue to evolve toward a system integrating annuities, tokenized assets, and AI-driven advisory solutions to promote retirement security.

Keywords: Retirement security, Annuities, Artificial Intelligence, Tokenization, Asset Management

### 1. Introduction

The global retirement system faces various pressures. Declining defined benefit pensions mean individuals increasingly rely on defined contribution plans to secure lifetime income. In this environment, annuities can offer protected and predictable income to address longevity risk. However, their adoption is limited due to consumer confusion, distribution problems, and low integration into retirement advice. Developments in AI, blockchain tokenization, and digital innovation may help address these barriers.

### 2. Literature Review

Research indicates persistent savings gaps in retirement preparedness. Studies show that annuities can reduce longevity risk and stabilize income streams, but uptake is affected by product complexity and trust concerns. Digital tools, AI, and blockchain tokenization have been identified as mechanisms to potentially mitigate these challenges. Industry reports suggest that combining technological innovation with annuity products and tokenized asset management could influence cost structures and access.

## 3. Methodology

This paper uses a qualitative approach, drawing insights from industry surveys (GSAM Retirement Survey 2025, EY Closed Block Survey 2023), academic analyses of behavioral economics and retirement planning, and market research on AI and blockchain in financial services. Annuity innovation is evaluated across four areas: product design, technology, AI integration, and tokenization.

## 4. Findings

Key findings are: (1) annuities contribute to addressing retirement gaps; (2) product innovations may improve

flexibility and accessibility; (3) digital platforms enhance transparency; (4) AI offers capabilities in personalization, compliance automation, and predictive analytics; (5) tokenization projects such as BlackRock's BUIDL fund exemplify how blockchain can affect costs, liquidity, and access to retirement assets; and (6) use of digital tools by financial professionals supports adoption.

### 5. Discussion

AI and tokenization are emerging as factors shaping asset management. AI enables personalization and improves efficiency, while tokenization may reduce costs and increase transparency. These technologies together could facilitate more accessible retirement options. For savers, this potentially translates to reduced costs, increased confidence, and broader access to annuity products. Financial professionals are increasingly using AI-enabled and blockchain-integrated platforms to deliver tailored retirement strategies.

## 6. Conclusion

Annuities have potential as part of retirement strategies, contingent on continued innovation in product design, AI, tokenization, and distribution. The future trajectory of asset management may involve merging AI-based personalization with blockchain-enabled tokenization, influencing annuity products' accessibility and relevance. Insurers and asset managers have opportunities to support resilient retirement systems through further development and integration of these technologies.

## Table: Interaction of AI, Tokenized Assets, and Annuities in the Retirement Ecosystem

To represent the integration of AI, tokenization, and annuities at an architecture level, the conceptual diagram can be expanded into a layered framework that illustrates the flow of data, technology, and services:

Volume 14 Issue 10, October 2025
Fully Refereed | Open Access | Double Blind Peer Reviewed Journal
www.ijsr.net

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Impact Factor 2024: 7.101

Layer	Components	Function
User Interface	Digital platforms, advisor portals, client	Facilitates client engagement, personalized recommendations, and
	dashboards	access to retirement products
AI Services	Personalization engines, compliance	Analyzes user data to tailor annuity and asset options, automates
	automation, predictive analytics	regulatory checks, supports decision-making
Tokenization Layer	Blockchain networks, smart contracts,	Enables secure, transparent management of retirement assets,
	tokenized funds (e.g., BUIDL)	reduces costs, increases liquidity
Product Layer	Annuities, retirement accounts, tokenized	Delivers flexible retirement solutions, integrates with digital and
	products	tokenized assets
Integration & Data	APIs, data management platforms, security	Ensures interoperability, real-time data exchange, and compliance
Layer	protocols	across all layers

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Volume 14 Issue 10, October 2025
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