



Morningstar Korea Lifetime Allocation Moderate Indexes

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Increases in life expectancy and rises in the cost of retirement necessities like healthcare are raising the cost of retirement. Meanwhile, historic sources of retirement income such as corporate pensions and government entitlements are fading, shifting the retirement funding responsibility to the individual.

The Morningstar Korea Lifetime Allocation Moderate Indexes are broadly diversified indexes that help Korean investors with a moderate risk tolerance mitigate the challenges related to rising life expectancies, evolving risk appetites, and post-retirement income investing. The indexes utilize asset allocation methodologies developed and maintained by Morningstar Investment Management. The Lifetime Allocation strategies, global asset exposures, and risk profiles are products of Morningstar's real world-tested research. Morningstar's capital markets research and annual government survey reviews on human capital (consumer income and net worth) are incorporated each summer into the asset allocations used by the index series.

The Korea Lifetime Allocation Moderate Index series consists of four target date index vintages available in the moderate risk tolerance that are designed to enable Korean investors to build and maintain purchasing power through retirement. The indexes are available in two currency variants, Korean Won and US Dollar.

- Morningstar Korea Lifetime Allocation Moderate 2030 Index
- Morningstar Korea Lifetime Allocation Moderate 2040 Index
- Morningstar Korea Lifetime Allocation Moderate 2050 Index
- Morningstar Korea Lifetime Allocation Moderate 2060 Index

Index construction

Morningstar Indexes' comprehensive family of equity and fixed income indexes, which are specifically designed to be seamless building blocks that deliver target asset class exposure, underpin the Morningstar Korea Lifetime Allocation Moderate Indexes. The constituent indexes are as follows:

- Morningstar Korea Treasury Bond Index
- Morningstar Global Treasury Bond Index

- Morningstar Emerging Markets Sovereign Bond Index
- Morningstar Developed Markets Index
- Morningstar Emerging Markets Index

Morningstar Indexes takes a glidepath approach to building target-date benchmarks. During the accumulation phase, the majority of assets are allocated to equities, with the remainder represented by various interest-bearing assets such as bonds. The percentage allocated to equities reduces over time and shifts toward lower-risk asset classes as the investor nears retirement. Korea government household statistics related to income and net assets, known as human capital assumptions, and expected market returns and risks by asset class (on a Korean Won basis), known as capital markets assumptions, are incorporated into the asset allocation glidepath. This is further tailored according to overall risk level and investor risk capacity.

Index maintenance

Each index in the series is reconstituted annually, implemented after the close of business on the last working day of June and effective the following business day. Each index in the series is rebalanced monthly, implemented after the close of business on the last working day of the month and effective the following business day.

Every ten years, a new index will be added in a ten-year increment after the highest-year index present in the series. The lowest-year vintage will always follow its natural glide path. The lifetime indexes will maintain a static asset allocation, subject to the annual reconstitution adjustments received from Morningstar Investment Management that are applied to all indexes in the Korea Lifetime Allocation Moderate Index series.

Rules governing security inclusion, index reconstitution/ rebalancing, security splits/dividends/contract expirations, and other index mechanics are detailed in the rulebooks for each constituent index.¹

¹ Please visit our website to access constituent index rulebooks.

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Construction process

Starting universe

- Select required asset class exposure using Morningstar Indexes:
- Morningstar Korea Treasury Bond Index
- Morningstar Global Treasury Bond Index
- Morningstar Emerging Markets Sovereign Bond Index
- Morningstar Developed Markets Index
- Morningstar Emerging Markets Index

Asset class allocation

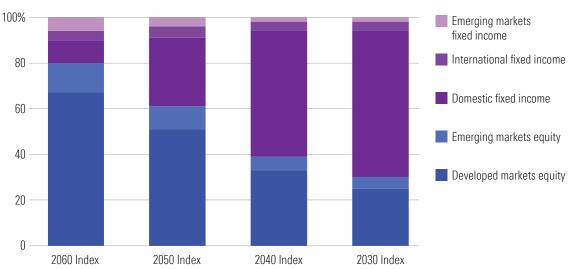
 Model the efficient frontier and construct the asset class allocation glidepaths according to capital markets assumptions, human capital, financial and time horizon

Portfolio construction

- Adjust weighted asset class exposure to reduce risk over time according to glidepaths
- Rebalance underlying index weights monthly on last business day to maintain asset allocations according to glidepaths
- Reconstitute index weights annually in June to reflect updated glidepath assumptions

Morningstar Korea Lifetime Allocation Moderate Indexes

Asset allocation glidepath





Constituent indexes	
Indexes	Constituent Morningstar Indexes
Korea Lifetime Allocation Moderate KRW Indexes	Morningstar Developed Markets GR KRW Index
	Morningstar Emerging Markets GR KRW Index
	Morningstar Korea Treasury Bond GR KRW Index
	Morningstar Global Treasury Bond GR KRW Index
	Morningstar Emerging Markets Sovereign Bond GR KRW Index
Korea Lifetime Allocation Moderate USD Indexes	Morningstar Developed Markets GR USD Index
	Morningstar Emerging Markets GR USD Index
	Morningstar Korea Treasury Bond GR USD Index
	Morningstar Global Treasury Bond GR USD Index
	Morningstar Emerging Markets Sovereign Bond GR USD Index

About Morningstar Indexes

Morningstar Indexes was built to keep up with the evolving needs of investors—and to be a leading-edge advocate for them. Our rich heritage as a transparent, investor-focused leader in data and research uniquely equips us to support individuals, institutions, wealth managers and advisors in navigating investment opportunities across major asset classes, styles and strategies. From traditional benchmarks and unique IP-driven indexes, to index design, calculation and distribution services, our solutions span an investment landscape as diverse as investors themselves.

Please visit $\underline{\text{indexes.morningstar.com}}$ for more information.

