

Manulife Asset Allocation Portfolios

Get to know Manulife Investment Management's asset allocation team

Manulife Investment Management's asset allocation team is an investment team made up of over 35 investment professionals with an average of 20 years of experience dedicated to managing multi-asset portfolios. For more than 20 years, the team has been regarded as a trusted, successful, institutional asset allocation manager. They currently manage over CAD \$140 billion in the U.S., Canada and Asia, as of December 31, 2019. They have an extensive

intellectual capital base that spans the world, from Toronto to Boston to Hong Kong and includes portfolio managers, analysts, economists, beta management specialists, portfolio specialists and a derivatives group. Applying active asset allocation successfully takes a proven team. The team has built its reputation and global wealth management credentials on its asset allocation expertise.

Meet the team behind the portfolios: Committed to quality investment management

Nathan Thooft, CFA: Global Head, Asset Allocation Team							
Investment Management Team							
James Robertson Head of Asset Allocation, Canada Sr. Portfolio Manager 36 Years' experience		Robert Sykes, CFA Portfolio Manager 17 Years' Experience		Christopher Walsh, CFA Portfolio Manager 16 Years' Experience		Sarah Lu, CFA, FRM Sr. Portfolio Manager 24 Years' experience	
Boston		Toronto		Hong Kong			
David McGrory, CFA Sr. Investment Analyst/ Sr. Trader 23 Years' experience		Judith Hlavac Sr. Trader 22 Years' experience		Vlad Kyrychenko, PhD, CFA Sr. Investment Analyst 23 Years' experience		Alexandre Richard, CFA Sr. Investment Analyst 8 Years' experience	
Matthew Murphy, CFA Sr. Investment Analyst 16 Years' experience		Michael Comer, CFA Sr. Investment Analyst 13 Years' experience		Jason Zhang, CFA Sr. Investment Analyst 11 Years' experience		Tony Zhou Investment Analyst 7 Years' experience	
						Wendy Ho Trader 23 Years' experience	
						Zahron Mitchell Sr. Investment Analyst 7 Years' experience	
						Bonnie Sit, CFA Sr. Investment Analyst 13 Years' experience	
Beta Management		Macroeconomic and Strategy		Derivatives		Pension & Fiduciary Solutions	
Brett Hryb, CFA		Jenny Kim, CFA Allison Greenspan Boncana Maiga, CFA, CIM		Alex Grassino Frances Donald Geoffrey Lewis		Gary Li, PhD Jeffrey Wu Richie Yu, PhD Denis Pyatchanin	
Marco Leung, CFA						Eric Menzer, CFA, CAIA, AIF Johnny Yong, CFA	
Ashikhusein Shahpurwala CFA, PRM						Bruce Picard, Jr, CFA Joe O'Connor, CFA	
Global Portfolio Specialists							
Benjamin Forssell, CFA 18 Years' experience		Eric Martino 14 Years' experience		Nicholas Edwards, CFA, CAIA 9 Years' experience		Patrick Murray, CIM, FCSI 27 Years' experience	

As at December 31, 2019. Manulife Asset Allocation Portfolios are managed by Manulife Investment Management Limited (formerly named Manulife Asset Management Limited). Manulife Investment Management is a trade name of Manulife Investment Management Limited.

Manulife Asset Allocation Portfolios are available in the InvestmentPlus Series of the Manulife GIF Select, MPIP Segregated Pools and Manulife Segregated Fund Education Saving Plan insurance contracts offered by The Manufacturers Life Insurance Company.

Get to know the Investment Process

The asset allocation team is a strategic, long-term allocator of capital that can take advantage of shorter term opportunities in the market. Overall, the team combines their strengths; strategic asset allocation and opportunistic asset allocation.

Asset allocation team's investment process

Step 1	Step 2	Step 3
Build Expected Return Forecasts <ul style="list-style-type: none"> • 5 year time horizon • 140 different asset classes • Distinct approaches for equity, fixed income and alternatives 	Asset Class & Strategy Selection <ul style="list-style-type: none"> • Asset allocation a primary driver of returns • Strategies should be complementary • Annually reviewed 	Portfolio Construction <ul style="list-style-type: none"> • Short-term opportunities reviewed weekly • Emphasis on risk management

Process summary



Strategic Asset allocation

- 5 year time horizon
- Reviewed quarterly
- Annual re-optimization establishes base-case asset allocation



Opportunistic Asset Allocation

- 3 month – 18 month time horizon
- Reviewed weekly
- Quantitative models supported by fundamental decision-making establish views to deviate from strategic view

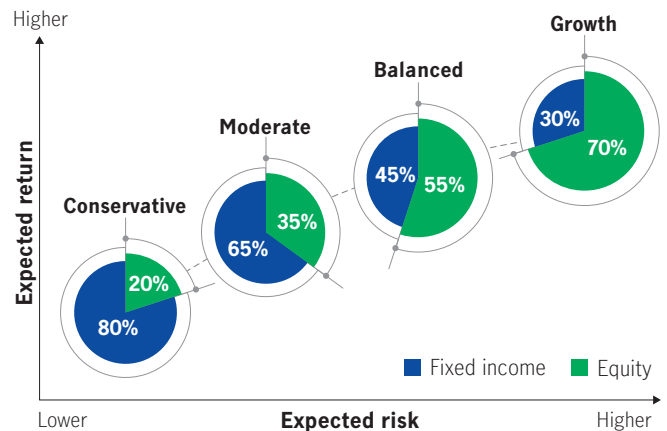
The asset allocation team's investment process is time – and cycle – tested, consistent and scalable. Constant diligence to help mitigate investment risks is hallmark of their approach.

Manulife investments solutions that adhere to and benefit from the asset allocation team's process: Manulife Asset Allocation Portfolios

Comprising of four actively managed asset allocation portfolios, Manulife Asset Allocation Portfolios provide complete solutions for clients who prefer a disciplined approach to investing and the comfort of knowing professionals are managing risk. Each portfolio is designed for a specific risk tolerance and return objective. They're simple to understand, easy to use, and provide access to some of the most popular investment strategies that Manulife Investments offers in a single solution.

To learn more, contact your advisor or visit manulifeim.ca

Risk and return



For illustrative purposes only. Breakdowns shown are based on target allocations.

Commissions, trailing commissions, management fees and expenses all may be associated with mutual fund investments and the use of an asset allocation service. Please read the fund facts as well as the prospectus of the mutual funds in which investment may be made under the asset allocation service before investing. The indicated rates of return are the historical annual compounded total returns assuming the investment strategy recommended by the asset allocation service is used and after deduction of the fees and charges in respect of the service. The returns are based on the historical annual compounded total returns of the participating funds including changes in unit value and reinvestment of all distributions and do not take into account sales, redemption, distribution or optional charges or income taxes payable by any securityholder in respect of a participating fund that would have reduced returns. Mutual funds are not guaranteed, their values change frequently and past performance may not be repeated. Manulife Asset Allocation Portfolios are managed by Manulife Investment Management Limited (formerly named Manulife Asset Management Limited). Manulife Investment Management is a trade name of Manulife Investment Management Limited. Manulife, Manulife Investment Management, the Stylized M Design, InvestmentPlus, and Manulife Investment Management & Stylized M Design are trademarks of The Manufacturers Life Insurance Company and are used by it and by its affiliates under license. Manulife Asset Allocation Portfolios are available in the InvestmentPlus Series of the Manulife GIF Select, MPIP Segregated Pools and Manulife Segregated Fund Education Saving Plan insurance contracts offered by The Manufacturers Life Insurance Company. The Manufacturers Life Insurance Company (Manulife) is the issuer of insurance contracts containing Manulife segregated funds and the guarantor of any guarantee provisions therein. Manulife Investment Management is a trade name of The Manufacturers Life Insurance Company. Any amount that is allocated to a segregated fund is invested at the risk of the contractholder and may increase or decrease in value. Age restrictions and other conditions may apply.