Managed Funds

Chapter 4

Managed Funds

- Size of the Managed Fund Industry
- Main Categories of Institutional Investors
- Fees and their association with performance
- Taxes and their impact on performance

with sufficiently low transaction cost, investors want to diversify.

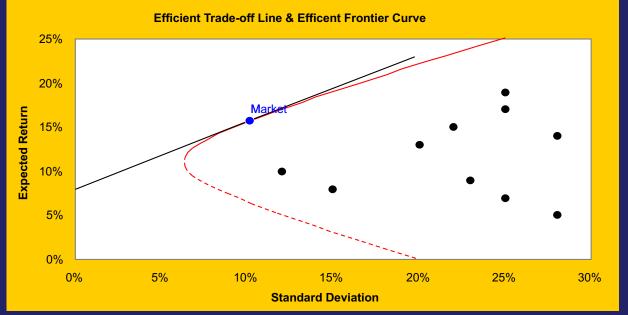
- © manged funds provide large portfolio in one transactions

 ⊕ separation property

The Theoretical Foundation of the managed fund industry

The Separation Property

step the openal portfolio adjust investment with 19 step for 1724 aversion.



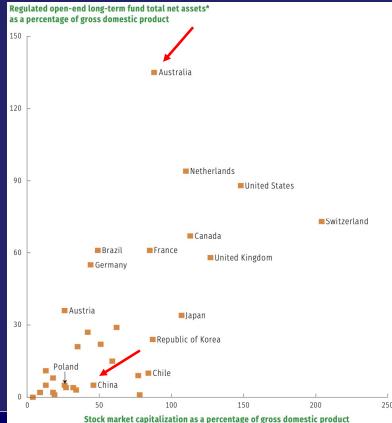
Managed Funds

- Financial intermediaries which collect money from individual investors and invest in a wide range of securities and other assets.
- In 2019, worldwide, there were
 - AUD\$78 trillion (USD \$54.9 trillion) in total net asset under management in regulated managed funds (both unlisted and listed funds including ETFs and institutional funds)
 - AUD\$3.7 trillion (USD \$2.6 trillion) in Australia in March 2020
 - AUD\$2.7 trillion (USD \$1.9 trillion) in China
 - 122,528 open-ended managed funds around the world
 - 5,683 in China
 - AUD\$3.1 trillion (USD \$2.2 trillion) in net sales world wide

AUD\$0.2 Trillion in net sales in China

- Sources:
- International: https://www.ici.org/ and https://www.ici.org/ and https://www.icifactbook.org
- Australia: https://www.abs.gov.au/ausstats/abs@.nsf/mf/5655.0

Australia is an outlier: high fund assets



Overview of Main Institutional Investors

	1. ETFs and REITs exchange trade fund	2. Managed Funds & Listed Inv. Companies (also called Mutual Funds)	3. Hedge Funds
Strategy	Typically FULL replication of benchmark state must be state must be the state of th	Predominantly long only positions, anything from ETF-like benchmark tracking to active strategies to outperform benchmarks. Medium: Quarterly disclosure,	Traditionally, non-directional bets (alpha transport). In practice, whatever they want.
Regulation	Very high: daily disclosure of holdings, every 15 minutes for an "indicative" NAV, cannot deviate a lot from benchmark	Medium: Quarterly disclosure, limits on shorting and derivatives use can deviate from stated goals/benchmarks	Low: Annual Disclosure for some information. NAV on a monthly basis
Fees	Low: 0.2% to 0.5% for ETFs	Medium: 1% to 2.5%	High (2% and 20% common)
Liquidity	Buy/sell in real time	End of day	Low: Lock-in periods
Initial Investment	Price of 1 share	\$1000 - \$5000	>\$25,000
Evaluation	Tracking-error/β / Sharpe Ratio/α you have to pay bid-ast spread. + commission t for market orders)		α (Usually using hedge fund specific "factors")

https://asic.gov.au/regulatory-resources/markets/supervision/exchange-traded-products-admission-guidelines/ https://www.moneysmart.gov.au/investing/managed-funds/choosing-a-managed-fund https://asic.gov.au/regulatory-resources/find-a-document/regulatory-guides/rg-240-hedge-funds-improving-disclo

Overview of Main Institutional Investors: two more

- Superannuation funds and Pension Funds
 - Similar to managed funds, but conforms to laws for retirement savings
- Sovereign Wealth Funds: State-owned investment funds
 - Revenue from commodity exports or from foreign exchange reserves held by the central bank

 - Four of the top ten are Chinese → large exchange reserve > exchange to \$ > \$ 1 f
- Note: these are not the only types of managed funds, they are just the most important right now.

Types of Managed Funds

Focus, Structure, and Purpose

Investment Policies

Policy is set in the Fund Charter

Absolute Return

Alternative

Can have either Active or Passive Management

s follow a specific rule

Cash - Australian Dollar Fixed Int - Australia / Global Bond Cash Enhanced - Australian Dollar Fixed Int - Australian Bond Commodity & Energy Fixed Int - Diversified Credit Equity - Asia Pacific ex Japan Fixed Int - Global Bond Equity - Asia Pacific Single Country Fixed Int - Global Strategic Bond Single Asset Class Equity - Australia Mixed Asset - Aggressive Equity - Australia Equity Income Mixed Asset - Balanced Equity - Australia Geared Mixed Asset - Cautious Equity - Australia Small/Mid Cap Mixed Asset - Flexible Equity - Emerging Markets Mixed Asset - Growth Equity - Global Mixed Asset - Moderate Equity - Global Hedged Property - Australia Listed Equity - Global Small/Mid Cap Property - Global

Mutli Asset Class (Diversified)

https://www.asx.com.au/mfund/fund-information.htm/

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Equity - Infrastructure

Equity - Specialist

Managed Funds

accept new money

- Open-end: all purchases and sales occur through the fund itself. New shares are created when they are purchased and old shares are "destroyed" when they are sold back to the fund.
 - Unlisted: Open-ended funds are not listed on an exchange
 - Buy through a broker or financial advisor or directly from the fund

don't accept new money

- The must be with other investors.

 Listed

 Primary example: Exchange traded funds, such as ETFs and A-REITs

 Unlisted

 Managed funds can all Closed-end: the fund does not redeem or issue shares. All

 - - - Typically you buy or sell them through a broker (if at all)

the profit then be dosed -end

Net Asset Value (NAV)

The value of the fund's assets minus liabilities on a per share basis.

eg: invest sold today, send money tomorrow To salary to manger

NAV = <u>Market Value of Assets - Liabilities</u> Shares Outstanding

Managed Fund Pricing

- Open-end: Shares can be sold at NAV. Purchase price may be higher than NAV due to the buy-sell spread and if fund has a "contribution fee" > % of while investing
- Closed-end: Shares can sell at premium or discount to NAV
 - Exchange Traded Funds will usually trade very close to their NAV
 - Non-Exchange Traded Funds can deviate a lot from their NAV

What managed funds (open/closed, listed/unlisted) do:

- Record keeping and administration
- 2. Diversification and divisibility
- 3. Professional management (?) (active vs. passive)
- 4. Reduced transactions costs

Of course, not for free...

Managed Funds

Fees, Taxes, and their relation to performance

Types of fees paid for managed funds

- n. "sale commission"
- Entry fee: paid on first investing in a fund as high as 5%
 - Contribution fee: for additional investments after the first
- Switching fee: for changing funds cosely for fund to pay one to people selling Exit (withdrawal) fee: paid when disinvesting. Up to 5%.
- Trailing (advisor service) fee: ~0.5% paid to your financial advisor
- Management Expense Ratio (MER)
 Typically range of 0.7% to 2%
- Performance fees: ~20% if performance beats benchmark
 - Sources:
 - https://www.investors.asn.au/education/other-investments/managed-funds/
 - https://www.2020directinvest.com.au/investor-education/investment-fees.aspx
 - https://www.canstar.com.au/managed-funds/managed-funds-how-do-fees-compare/

Management Fees in Australia (2018)

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% Management Fees on Managed Funds						
Profile	Minimum	Average	Maximum			
Australian Cash & Fixed Interest	0.19	0.46	1.00			
Australian Shares – Large Cap	0.35	1.01	2.05			
Australian Shares - Mid/Small Cap	0.77	1.27	2.50			
Equity Australia Real Estate	0.35	0.85	1.58			
Global Fixed Income & Bonds	0.35	0.59	0.78			
Global Shares - Large Cap	0.35	1.09	2.02			
Global Shares - Mid/Small Cap	1.12	1.32	1.50			
Multisector Aggressive	0.35	1.20	2.20			
Multisector Balanced	0.35	0.84	2.42			
Multisector Growth	0.35	1.00	1.95			
Multisector Moderate	0.26	0.74	1.58			

https://www.canstar.com.au/managed-funds/managed-funds-how-do-fees-compare/

Hidden/Implicit Fees

- Soft Dollars
 - Kick back to Managed Fund Managers
 - Not Cash but services eg. data
- Trading costs
- Buy-sell spread from unlisted funds
 - Bid-ask (bid-offer) spread for ETFs.
- Fund Turnover

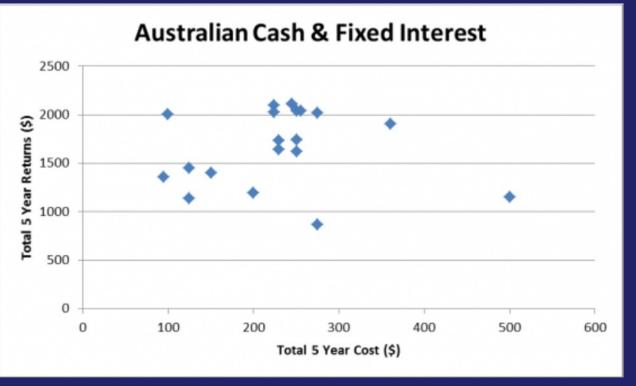
Fund Fees & Performance

- Fees are set by contract...
 - The Board and the Manager agree on a fee maximum
 - Usually a percentage of fund's size
- ...but fees are not usually taken out up front
 - They're accrued and charged as the year progresses
- Fees can affect net performance <u>a lot</u>.
 - If you beat the market by 1%, but charge a 1.5% fee, the shareholders aren't beating the market.

Relation between fees and performance

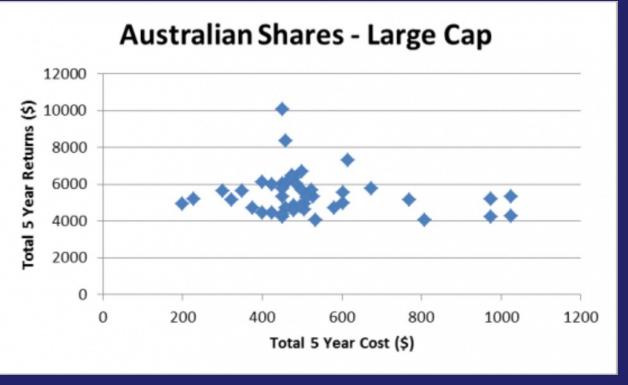
- "Many of the cheaper funds advertise around being lower in fees and we believe this can be misleading. While you do need to consider the amount of fees you pay, the main thing that will determine your total gain is net performance."
 - Australian Ethical



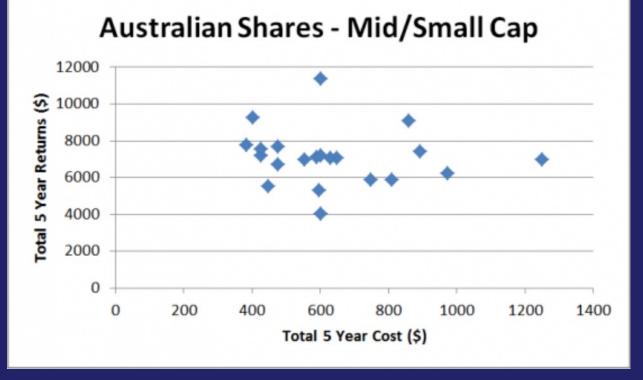


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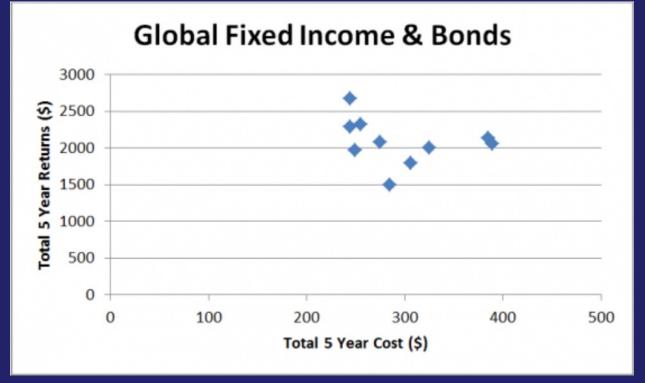




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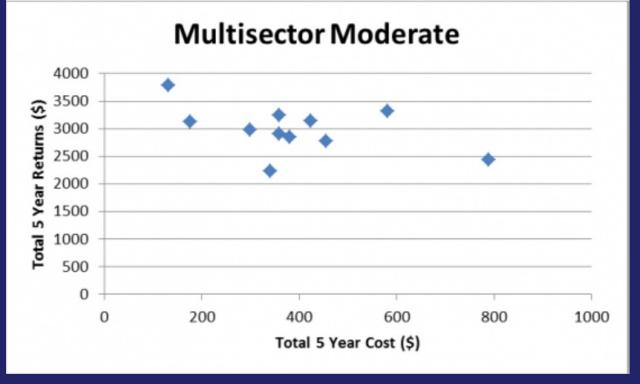
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Taxes and Tax Efficiency

Managed funds usually have pass through status

- Taxes impact performance if not in a tax-exempt investment
 - Superannuation funds

Taxes and Tax Efficiency

- Capital Gains on all sales
 - High turnover is deadly (typical in equity funds is 60-70%)

- Capital Gains and Dividends
 - Typically paid once or twice a year
 - Be wary of buying into a fund right before these payouts because you will be taxed on gains that occurred before you purchased the fund!

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Impact of Taxes

1 year	5 years	10 years	Lifetime ¹
4.37%	5.65%	11.27%	12.43%
4.06	4.39	8.85	N/A
3.20	4.20	8.63	N/A
	4.37% 4.06	4.37% 5.65% 4.06 4.39	

Exchange Traded Funds (ETFs)

- Closed-end funds that typically invest in a passive strategy
 - buys and sales can occur at any time markets are open as these are exchange traded with manyed
 - A variant is the Exchange Traded Managed Fund (ETMF)
 - · Usually actively managed: often provide leveraged or inverse exposure

Exposure	ASX Code	Туре	Benchmark	MER%	Outperf' fee	Admission Date	
Equity - Australia							
BetaShares Australia 200 ETF	<u>A200</u>	ETF	Track Solactive Australia 200 Index	0.07	No	8-May-18	
iShares S&P/ASX 20 ETF	ILC	ETF	Track S&P/ASX 20 Accumulation Index	0.24	No	9-Dec-10	
iShares Core S&P/ASX 200 ETF	<u>IOZ</u>	ETF	Track S&P/ASX 200 Accumulation Index	0.09	No	9-Dec-10	
VanEck Vectors Australian Equal Weight ETF	MVW	ETF	Track MVIS Australia Equal Weight Index	0.35	No	6-Mar-14	
BetaShares FTSE RAFI Australia 200 ETF	QOZ	ETF	Track FTSE RAFI Australia 200	0.4	No	11-Jul-13	
SPDR S&P/ASX 200 Fund	STW	ETF	Track S&P/ASX 200 Index	0.19	No	27-Aug-01	
SPDR S&P/ASX 50 Fund	SFY	ETF	Track S&P/ASX 50 Index	0.286	No	27-Aug-01	
Vanguard Australian Shares Index ETF	<u>VAS</u>	ETF	S&P/ASX 300	0.1	No	8-May-09	
Vanguard MSCI Australian Large Companies Index ETF	<u>VLC</u>	ETF	MSCI Australian Shares Large Cap Index	0.2	No	26-May-11	
Equity - Australia Small/Mid Cap							
BetaShares Australian Ex-20 Portfolio Diversifier ETF	EX20	ETF	Tracks NASDAQ Australia Completion Cap Index	0.25	No	7-Oct-16	
einvest Future Impact Small Caps Fund (Managed Fund)	<u>IMPQ</u>	MF	Outperform S&P/ASX Small Ordinaries Accumulation Index	0.89	Yes	23-May-19	

SPiDeRs

- A US S&P500 tracking ETF (The first in the world 22 Jan 1993)
- Australia SPDR S&P/ASX200 EFT (24 Aug 2001)
 - Product Disclosure Statement: https://www.ssga.com/library-content/products/fund-docs/etfs/apac/au/pds/product-disclosure-statement-au-en-stw.pdf

ETF

- Extremely low fees, currently 0.13% per year
 - For all ETFs in Australia 0.03% to 1.29%
 - Fees are low but if you use market buys and sales you will pay the bid-ask spread
- Low tax consequences (Invertible)

low since ETF is actively traded

- Dividends paid quarterly, franking credits available.
- Lower capital gains not many cash build up
- Index arbitrage
 - For a fee of \$4000 a stockbroker can trade 25,000 SPDRs for the underlying stock
 - This is how stockbrokers can help keep the price of SPDRs in line with the fundamental value
 - If you are curious about the details check the link above and check page 33, "Applications and Redemptions".