Investment Portfolio

for

High Risk Premium Programme (HIRP)

Nov 15, 2020

Contents Financial Factory

Portfolio Construction

- 4 Strategic Portfolio
- 5 Tactical Adjustments Trend Modes
- 6 Tactical Adjustments Profit Protection Overlay

Strategic Portfolio

- 8 Assumptions/Objectives/Other Inputs
- 9 Allocations
- 11 Expected Short-term Return Distribution

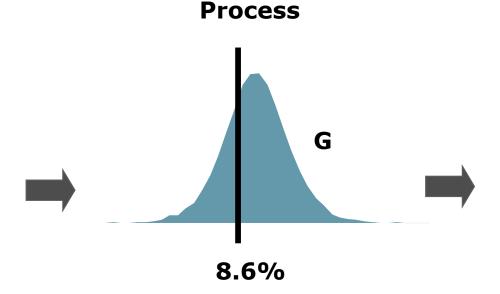
Trend Modes

13 Trend Modes and Clusters

Portfolio Construction

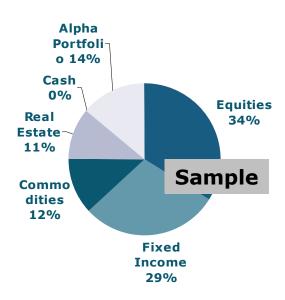
Inputs

- Asset class return distributions, empirical.
- Correlation estimates between all assets.
- Objective
 - Minimum Return Target ("MRT").
 - Long-term return of global equities, 8.6% p.a.
- Constraints
 - Maximum leverage and borrowing.
 - Minimum allocations.



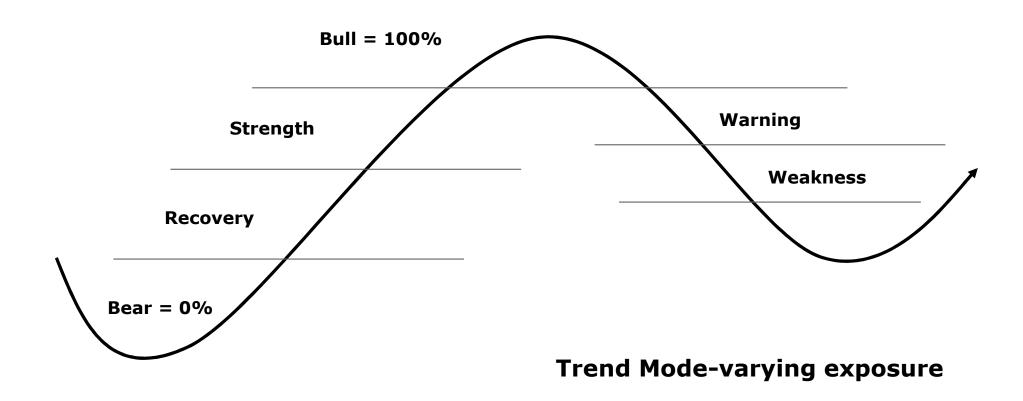
- Gain/Loss Optimization
 - Returns the portfolio that maximizes the probability of achieving a return above the Minimum Return Target.

Outputs



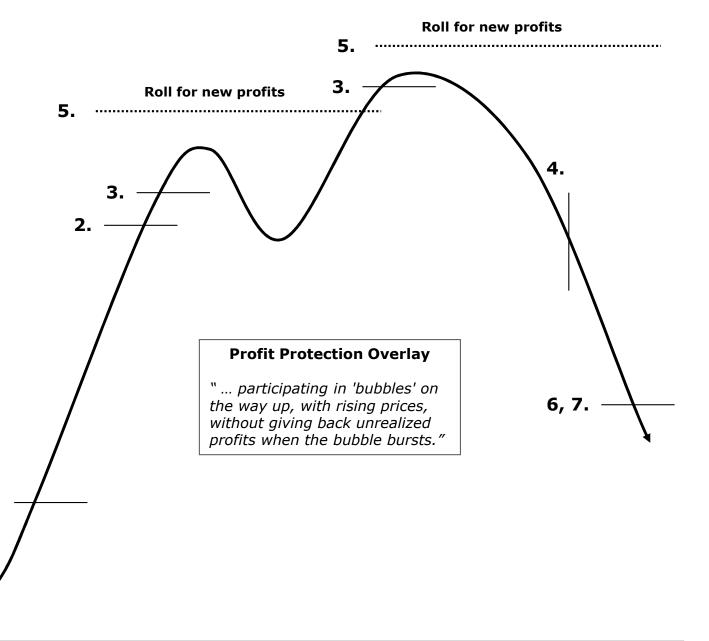
- Portfolio weights; how much?
- Expectation.
- Probability of outperformance.
- Risk of loss.
- ...

Price cycle for an asset



- The purpose of the Profit Protection Overlay ("PPO") is to protect unrealized profits while at the same time retain upside potential, if the price of the asset continues in the direction of the initial non-protected position.
- Implementation is made with exchange-traded options.
- The overlay functions independently of used entry and exit rules for the individual underlying positions.
- As to time-frame, the underlying positions should be held medium- to long-term.

Price of an Asset



Strategic Portfolio

Objectives

• Maximize the Gain/Loss of the distribution of expected return. Gain in the meaning of surpassing the Minimum Return Target, loss in the meaning of not.

Constraints

- Minimum Return Target equal to long-term return of global equities currently 8.6% p.a.
- Maximum leverage at 50%.
- Maximum borrowing at 50%.
- Minimum allocation to every Asset and Asset Class 3%.

Investment Universe

- Viable Asset Categories
 - Equities, Fixed-income, Commodities, Real Estate, Cash.
- Assets and Asset Classes
 - 18 different, all with high risk premium.
- Pure beta exposure in the portfolio, i.e. no alpha components.
- Exchange-traded options, with adequate liquidity, should be available for all assets and asset classes.

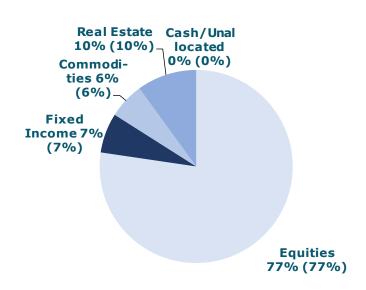
Other

- Cost of funding
 - 1.59% p.a.

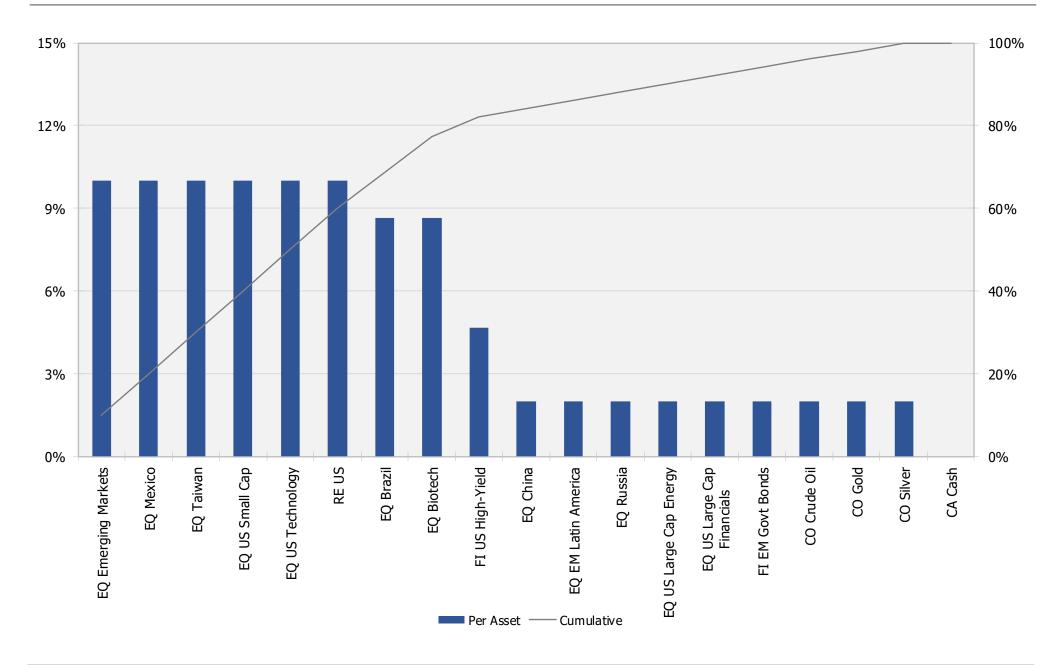
Allocations

Allocation % Trading Level

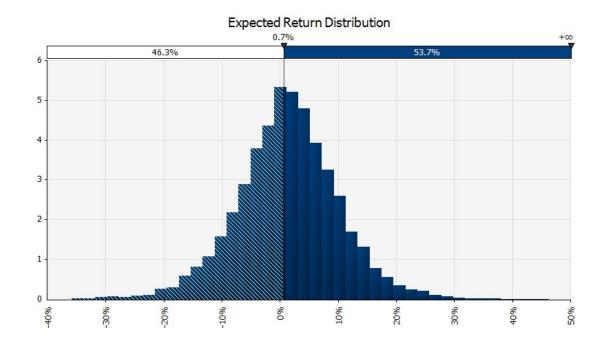
Previous allocation in parantheses



		Current		Previous
		Allocation		Allocation
	Allocation	%		%
	%	Trading	Change in	Trading
Asset Category and Asset Class	NAV	Level	Allocation	Level
Total	150	100	. 0	100
Equities	116	77	+0	77
EQ Brazil	13	9	+0	9
EQ China	3	2	+0	2
EQ EM Latin America			+0	
EQ Emerging Markets	15	10	+0	10
EQ Mexico	15	10	+0	10
EQ Russia	3	2	+0	2
EQ Taiwan	15	10	+0	10
EQ US Large Cap Energy	3	2	+0	2
EQ US Large Cap Financials	3	2	+0	2
EQ US Small Cap	15	10	+0	10
EQ US Technology	15	10	+0	10
EQ Biotech	13	9	+0	9
Fixed Income	10	7	+0	7
FI EM Govt Bonds	3	2	+0	2
FI US High-Yield	7	5	+0	5
Commodities	9	6	+0	6
CO Crude Oil	3	2	+0	2
CO Gold	3	2	+0	2
CO Silver	3	2	+0	2
Real Estate	15	10	+0	10
RE US	15	10	+0	10
Cash	0	0	+0	0
CA Cash	0	0	+0	0



- Outlook is 1 month.
- To note
 - The probability of surpassing the Minimum Return Target is roughly 54%.
 - The probability of actually losing money (the return ending up being below 0%) on a monthly basis is 42%.
 - Gain/Loss 1.2.
- Statistical moments
 - Mean 1.4%.
 - Standard deviation 8.7%.
 - Skewness 0.0.
 - Kurtosis 4.2.



Tactical Adjustments – Trend Modes

Bear	Recovery	Strength	Bull	Warning	Weaknes
0%	17%	28%	50%	6%	0%
	EQ US Large Cap Energy	EQ Mexico	EQ US Small Cap	CO Gold	
	EQ Brazil	EQ EM Latin America	EQ China		
	EQ Brazil CO Crude Oil	EQ EM Latin America EQ US Large Cap Financials	EQ China EQ Emerging Markets		
		EQ Russia	EQ Taiwan		
		RE US	EQ Biotech		
			FO US Technology		
			EQ US Technology FI EM Govt Bonds		
			FI US High-Yield		
			CO Silver		
			CO SIIV CI		
		Bull			
		Duil			
	Streng	th Warning			
	_/				
	Recovery	Weakness			
	Recovery	Weakiless			
		\			
	bear	●1 month			
	1	• Current			

CO = Commodities, EQ = Equities, FI = Fixed Income, RE = Real Estate, AP = Alpha Strategies