

## Active Risk Allocation

Strategic Wealth Management - portfolio optimisation 30 May 2023



Inconvenient facts
Investments version 1.01

- Return forecast are always wrong
- Asset covariances are unstable
- Autocorrelation do exist
- ☐ Markets are not always efficient

**NB** Broad application of the Capital Asset Pricing Model (CAPM) is puzzling, from an academic vantage point. It is used, because its simple, used by all bank peers and so fits the bank industry business model.



### Targeting returns vs Risk management

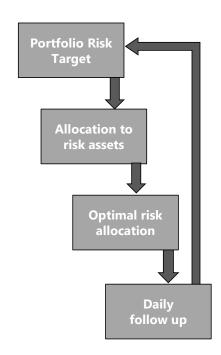
- The traditional way: Return targeting
- Based on **expectations** of future returns
  - Expectations are most often wrong
  - Fixed intervals for portfolio rebalancing
- Changes in risk/volatility not taken into consideration
- Assumes that assets move in stable patterns relative to each other
- In times of trend changes, portfolio is only rebalanced as trend estimates are revised

- The ARA way: Volatility targeting
- Based on existing volatilities
  - No guesswork as the volatilities are available
  - Adaptive intervals for rebalancing determined by target volatility
- Adjusting to changes in risk
- Takes into consideration that correlation patterns change
- In times of trend changes, volatility changes force a portfolio rebalancing



Summary of process

- ☐ Decide on desired portfolio volatility band
  - 3.5-5%, 6-8% or 9-11% target
  - Depending on model input
- ☐ Allocate between risk assets and non-risk assets
  - Between 0 and 100% of portfolio may be allocated to risk assets
  - Depending on model input
- Calculate portfolio allocation
  - Allocating assets in a way that no asset class gives a too large risk contribution (almost Risk Parity)
  - Respecting overall volatility target
  - Respecting overall allocation target
- Daily follow up
  - Daily calculation of expected portfolio volatility
  - Daily supervision of OMRI and portfolio risk allocation
  - Corrective action if necessary





# IR Benchmark (baseline) Approximately a 60/40

Performance structurally challenged \*);

- as choice of assets correlate
- benchmark deviate from peers
- when US stocks outperform
- when USD strengthen

\*) Ref. analysis of 25.11.2021

## IR Medium risk model portfolio

Name	Class	Mid	ETF Proxy
IR Basis		25	Composite
	Aktier-EU	60	XSX6 DE
	Bonds-EU GOV	10	XGLE DE
	Bonds-DK MBS	10	Nyk dmb Composite
	Bonds-HY	15	IHYG DE
	Cash	5	XEIN:GR
IR Favoritter/IR Danske Aktie	er Aktier-DK	25	BIKF DC
IR Vækstlande	Aktier-GEM	20	BRIC LN
IR Erhverv	Bonds-HY	10	IHYG DE
IR Højrente	Bonds-HY	15	EMBE LN
Danske obligationer	Bonds-DK	5	NYK DMB Composite
		100	

100

#### **Consequences of structural deficits:**

**2022,** no uncorrelated asset classes and no USD **2023**, no US stocks and no IT-sector

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## ARA portfolio

April 2023

## IR Medium risk model portfolio

	Limit used				Limit used
Name	Minimum	Prior	Allocation	Change	Maximum ETF proxy
Cash		19%	12%	-7%	Cash
IR Basis		20%	28%	8%	Composite
IR Danmark		15%	15%	0%	BIKF DC
IR Vækstlande		8%	8%	0%	BRIC LN
IR Short Stoxx		0%	0%	0%	XSSX DE
IR Erhverv		25%	25%	0%	IHYG DE/HYG US
IR Højrente		13%	12%	-1%	EMBE LN
DK DMB		0%	0%	0%	Nyk Composite
		100.0%	100%	0%	

Cash (low duration) overweight and GEM underweight were largest excess performance contributions for April



#### **Performance**

IR optimised vs Baseline

Performance structurally challenged \*);

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- benchmark deviate from peers
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- when USD strengthen

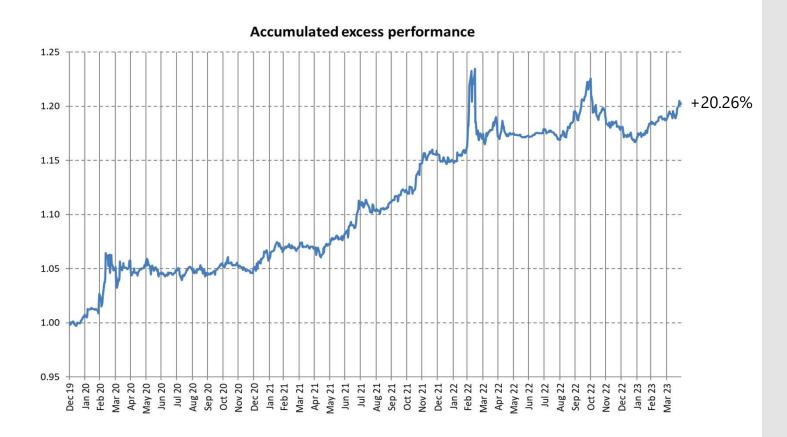
\*) Ref. analysis report of 25.11.2021





#### **Performance**

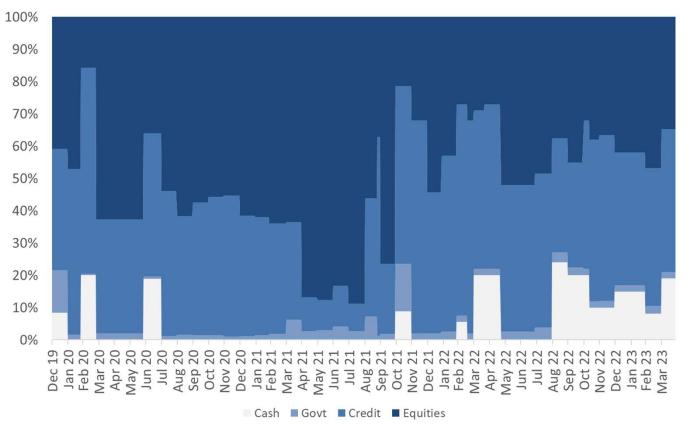
Uptrend resumed





IR Asset Allocation timeline

#### **Asset Allocation**





## ARA portfolio

## May 2023

Preference to IG (short-term) and more IR Basis

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IR Højrente		13%	12%	-1%	EMBE LN
DK DMB		0%	0%	0%	Nyk Composite
		100.0%	100%	0%	

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