

## A Brief History of Quantitative Investing

### It's a cooking class

Sean Phayre, PhD Head Quantitative Investment Strategies

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### Master Chef Challenge

There are a number of stages to building a quantitively derived portfolio



Aberdeen Standard



# Challenge 2 : Preparing and combining the ingredients?

The impact of good combinations







#### Risk, Return & Risk Adjusted Return

■ Return ■ Risk ■ Risk Adjusted Return (Right Axis)

## Challenge 3 : How much style factor intensity?

Market Cap Index Factor Investing

Index Relative Factor Investing

Total Return Factor Investing

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Investments



•Market-Cap weighted tracker •Index matching

Factor tilts on Market-Cap weightsEnhancing index return

Quality

Low Volatility

Value

■ Low Volatility ■ Size

Value

Size

In dex

Momentum

Factors make the weightsImproving total return and risk

Momentum

Quality

## Challenge 4 : 'keeping it fresh'

## Aberdeen Standard

#### The market never sleeps

- When new information becomes available and portfolios need to be refreshed
  - Prices change
  - Valuations change
  - Factor exposures change!
  - New ingredients and techniques become available
  - Correlations change
- But Causality rarely changes

#### Relationships change

Investors have paid a price for diversifying across equity markets

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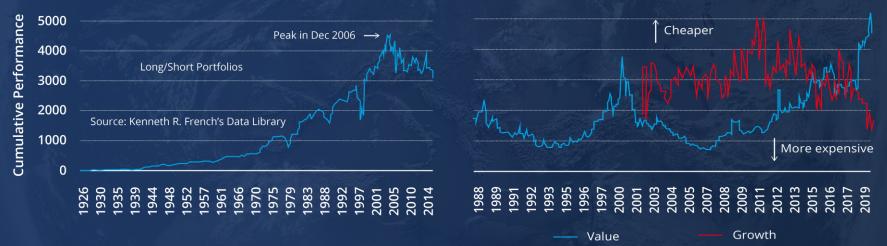


Reasons to be optimistic

The Value factor might look like this

Aberdeen Standard

but it also looks like this



Source: Aberdeen Standard Investments

#### Value's Lost Decade

## Conclusion



Global Investment Forum Investing for a better future

- Pick a good clear Recipe
- Choose fine ingredients and mix well
  - Correlation and causation
- Adhere to the steps in the recipe
- Season to taste
- Exercise patience
- Don't over-indulge
- Enjoy

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