

Return/Risk considerations for the Return Portfolio

Informatietafel Bestuurders, Oegstgeest

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Helmut Cardon, European Pension Fund and Insurance Specialist

SECTION 1

Objectives and Practice of Return Portfolios

Dutch Pension Fund Return Portfolios

Rationale: Return Portfolio to generate excess return

- Pay for indexation
- Needed for Recovery Path

- Matching Portfolio:
 - Hedge interest rate risk in Liabilities
 - Follow Liability “returns”
 - Sometimes include ILBs/ILS to hedge real rates

Focus Return Portfolio Presentation

Role of reducing equity volatility, in economic and regulatory context

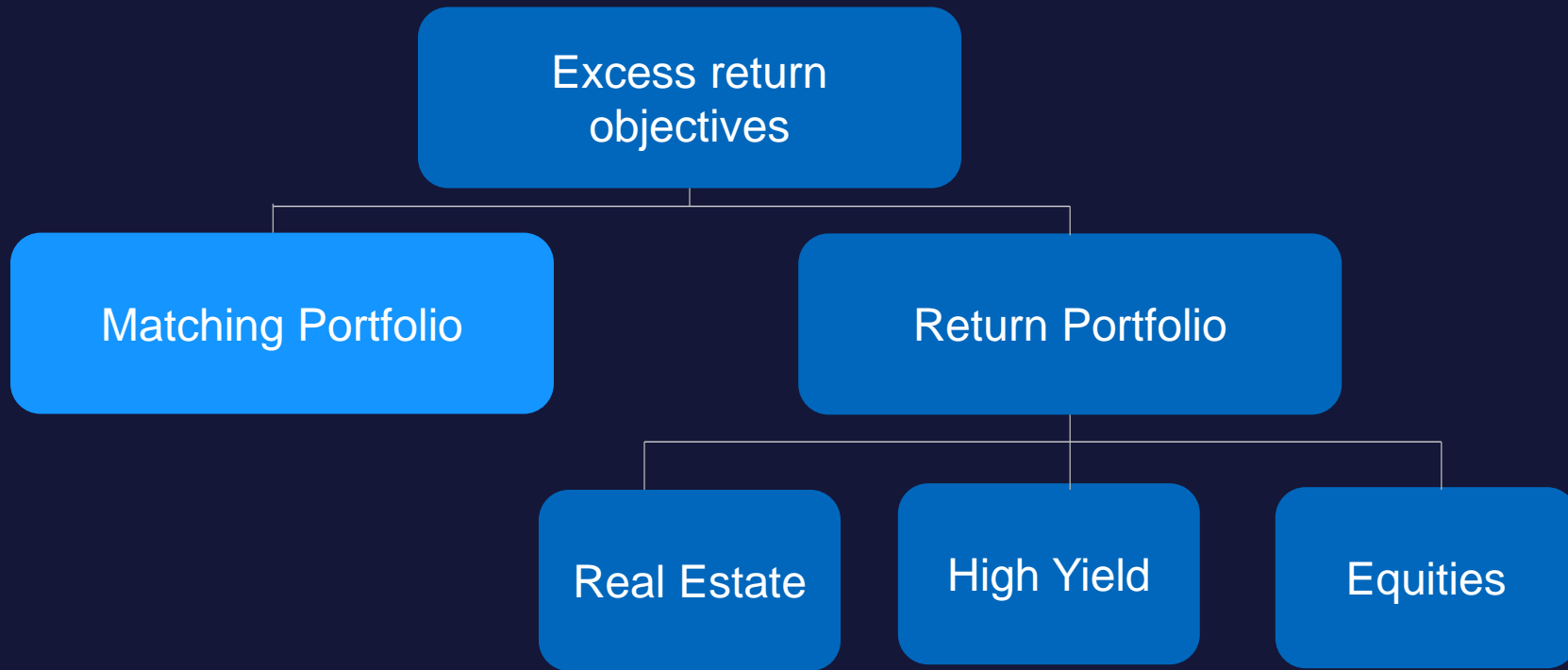
Dutch Pension Fund Matching and Return Portfolios

	Matching Portfolio	Return Portfolio
PMT	46%	54%
PME	50%	50%
ING	75%	25%
PGB	46%	54%
DSM	54%	46%



Source: annual reports 2017

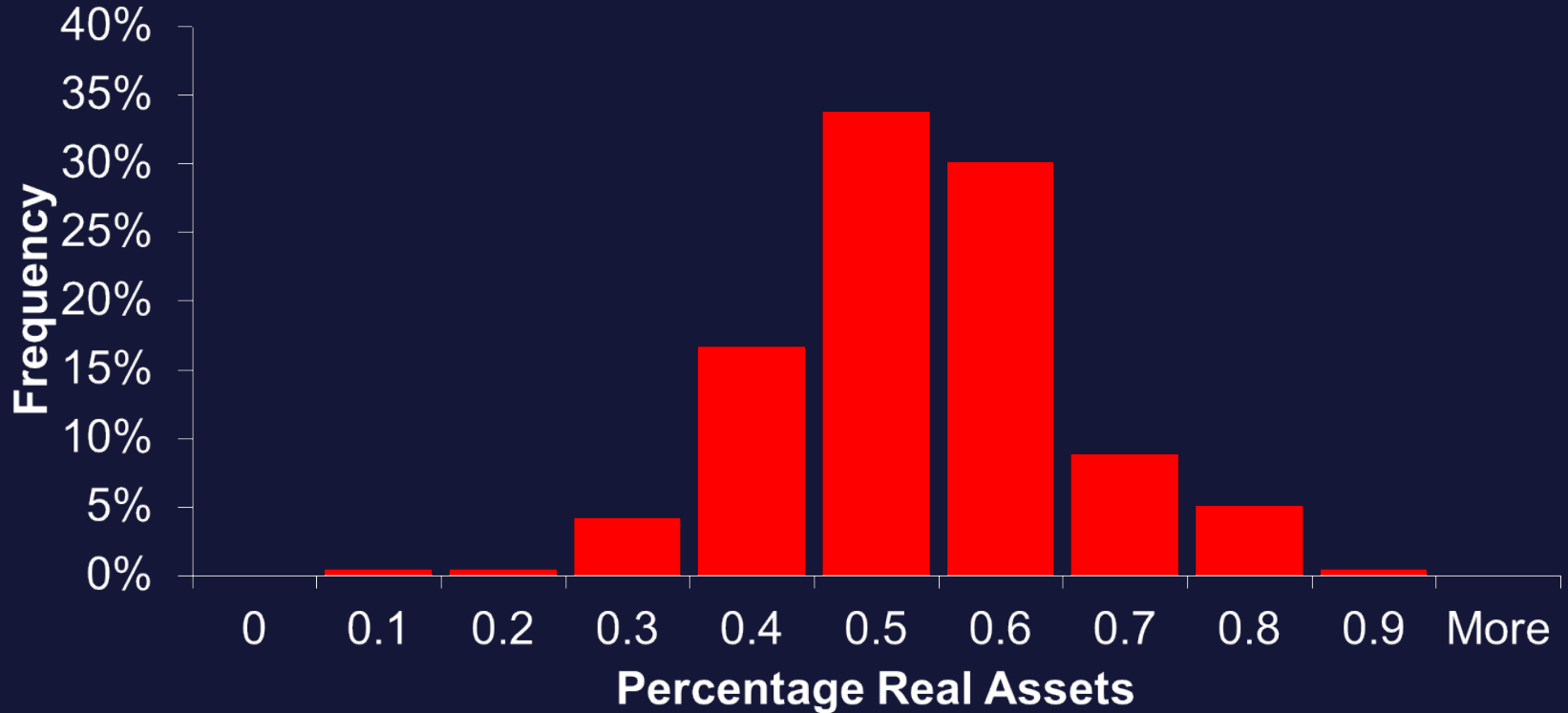
Return Portfolio at PMT with 1.5% excess return target



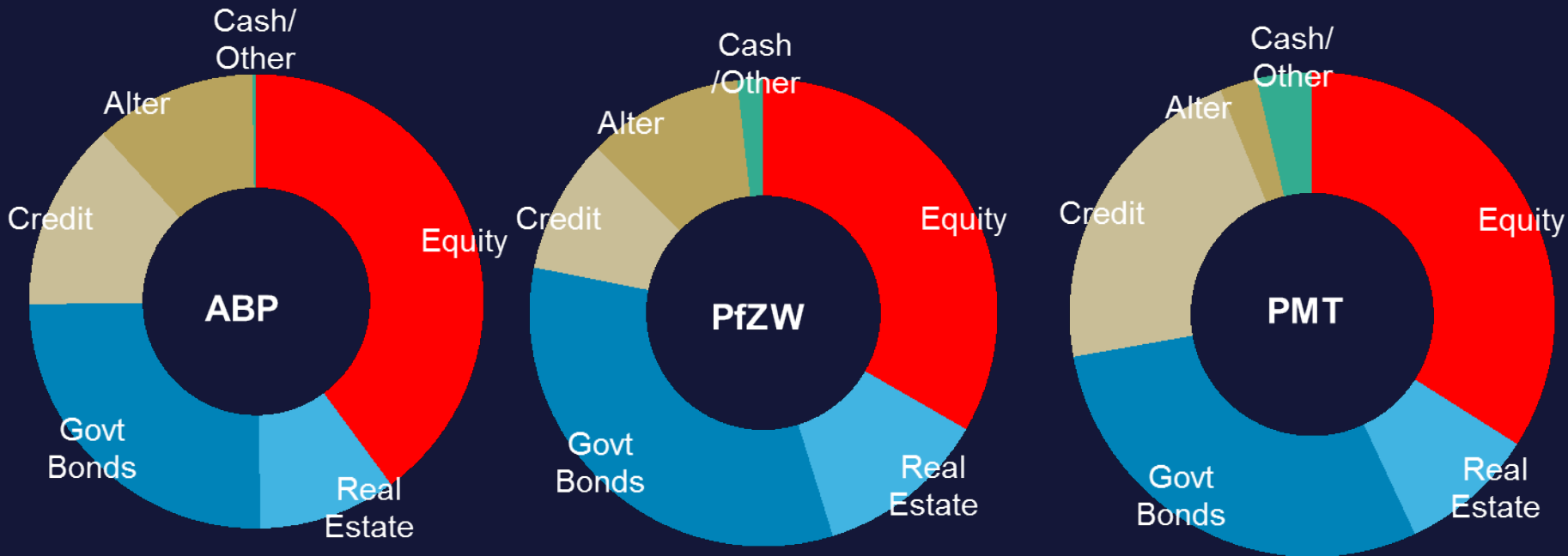
SECTION 2

The Role of Equities

Dutch Pension Funds: High Allocations to Zakelijke Waarden



Dutch Pension Funds: High Allocations to Equities



Source: annual reports ABP, PZW and PMT 2017; MSIM analysis Aug-18

SECTION 3

ALM and VEV (Vereist Eigen Vermogen)

Main driver for Return Portfolio/Equities is ECONOMIC

ALM:

- Pension Funds and Insurers prefer “economic optimisation”
- Downside risks analysed for short-, medium- and long-term horizons

FTK:

- VEV increasingly important consideration
 - May drive pension benefit reduction
 - Limits Asset Allocation freedom

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Comparing Strategic Decisions to manage the VEV impact: Equities most substantial consideration

Change in allocation to asset class of Hedge Ratio	BY	LOWER VEV BY [BPS]
Hedge Ratio Rates	+1%	5 – 8
Equities	-1%	35 – 45
FX Hedge Ratio	+1%	0.5 – 10
Commodities	-1%	(0.5) – 2
A Corp	-1%	7 – 9
BBB	-1%	7 – 9
High Yield	-1%	13 – 16

Source: Morgan Stanley in-house analysis, Dec-15

Provided for illustrative purposes only and not intended to depict the performance of a specific instrument.

Role of Active Management: focus on the alpha

Active Management:

- Focus on the alpha
- Control the costs
- Risk and VEV addition:
 - Focus on the governance
 - Total Risk and VEV increase often limited

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Quantified Contribution of Active Risk (s10) to VEV

Net addition to VEV;

Typical examples

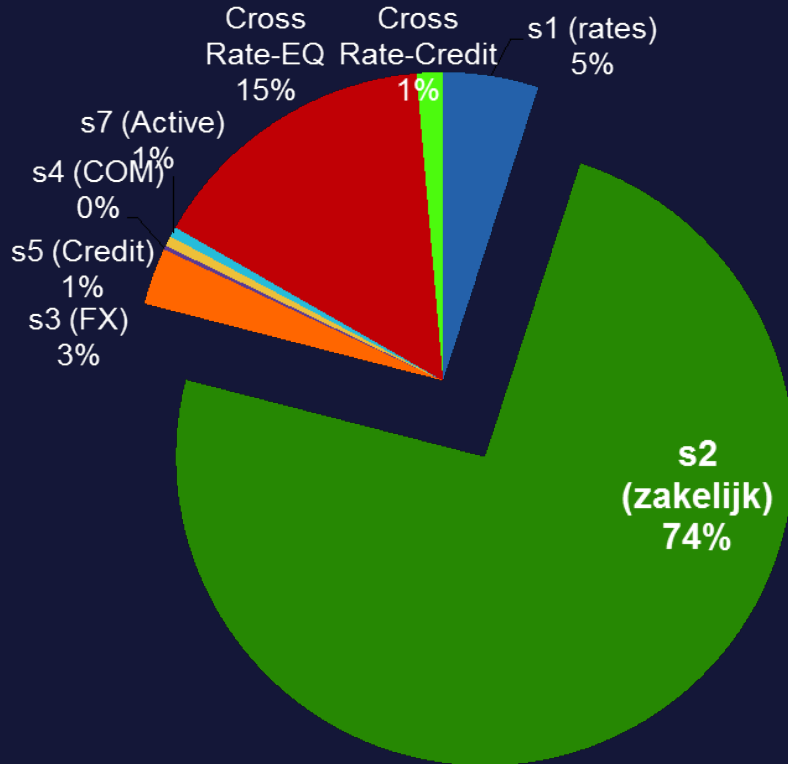
Risk	ABP	PfZW	PMT
s10	3.1%	0.6%	0.4%
VEV	27.7%	24.8%	20.4%
Verhoging VEV vanwege s10	<i>0.17%</i>	<i>0.007%</i>	<i>0.004%</i>

Note that the s10 and VEV numbers are from the 2017 annual reports; the estimated marginal impact on VEV increase is based on Morgan Stanley analysis, Aug-18

SECTION 4

Equities and Protected Equity

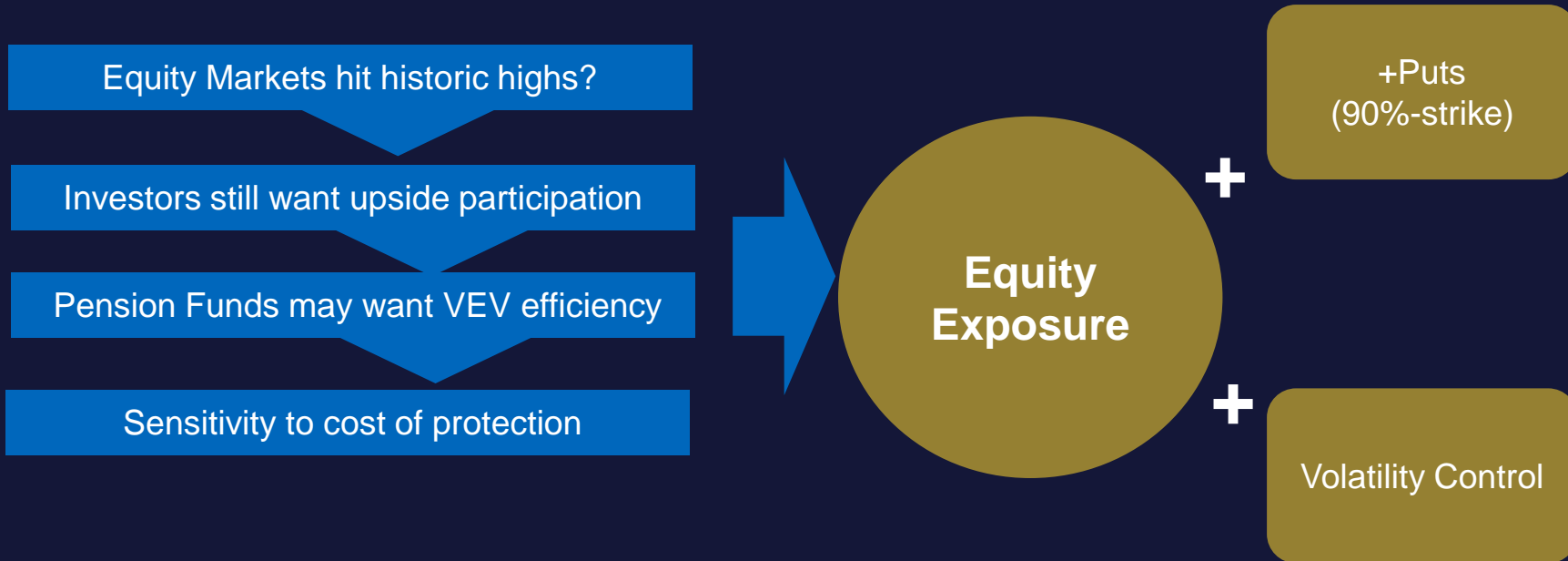
Composition of VEV



Equity Risk
now dominant for
average Pension Fund?

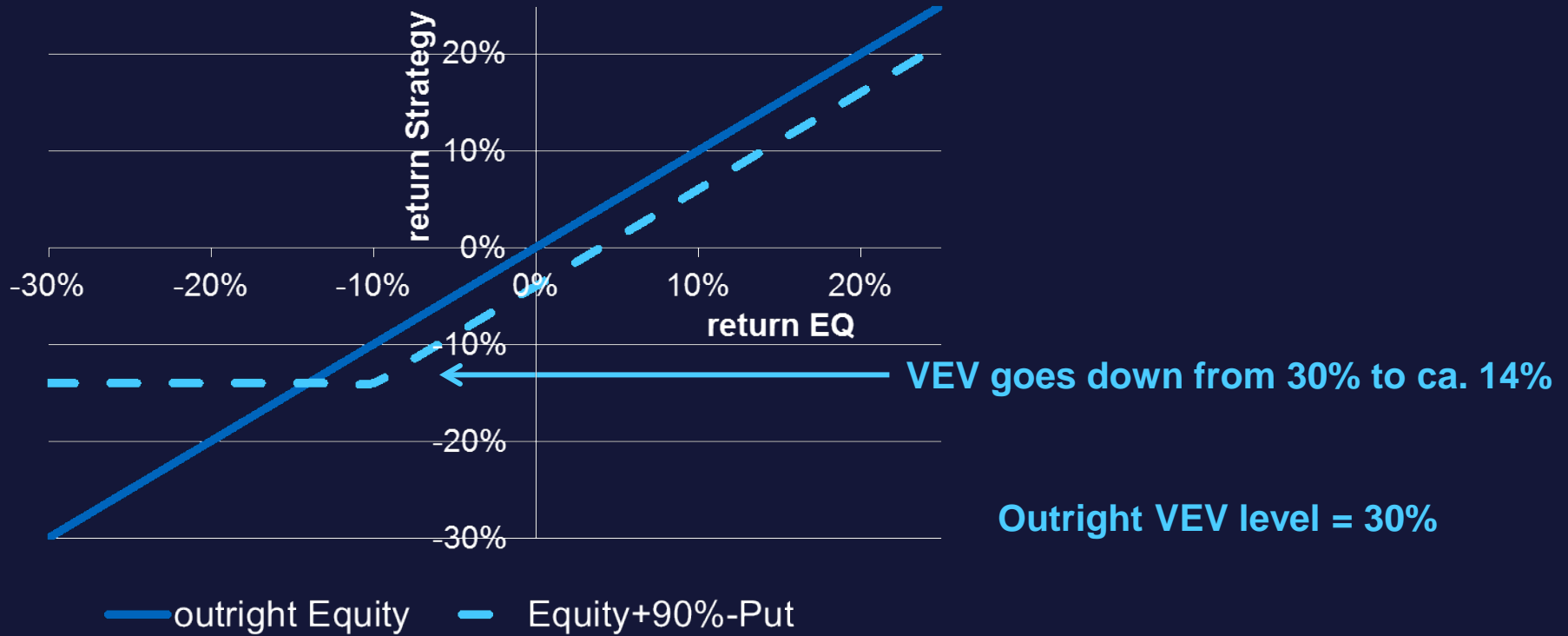
Protected Equity Investing

Institutional Investors Are Examining Their Equity Allocations



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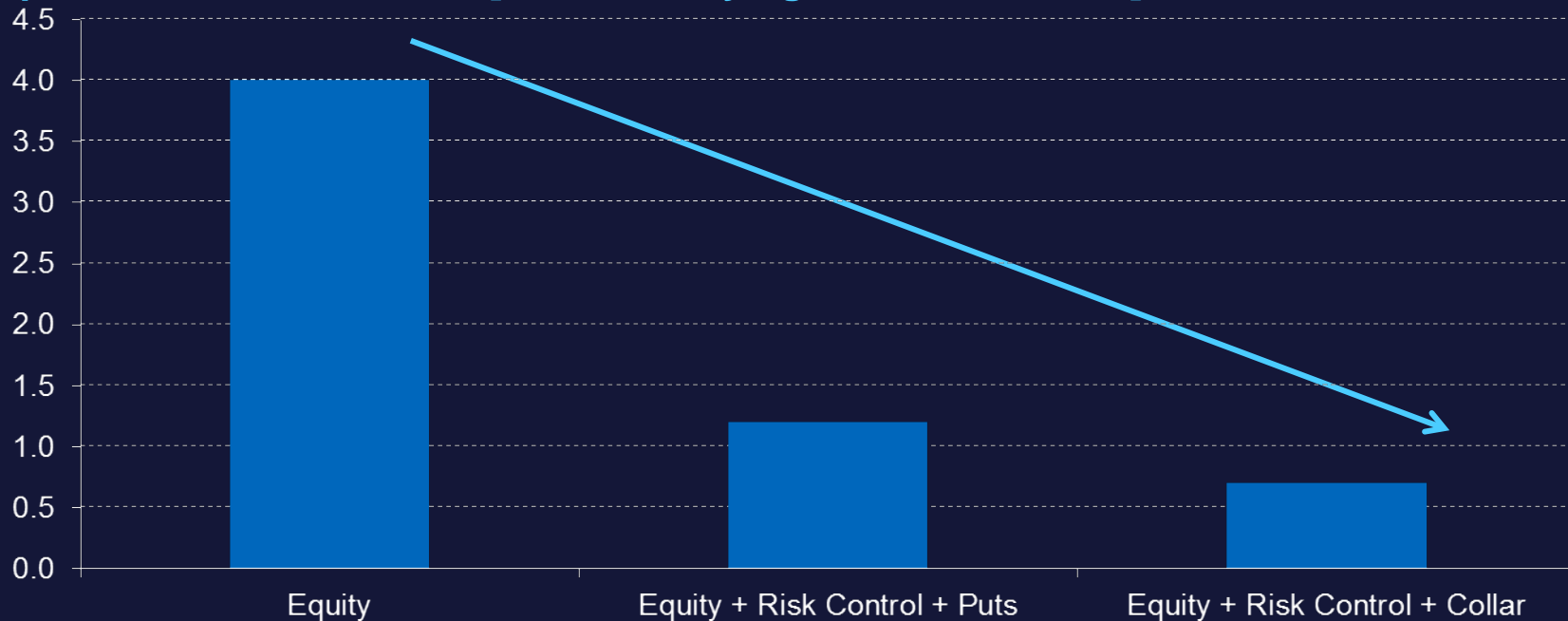
Option Overlay Strategy



For illustrative purposes only.

Option Overlay Strategy

Impact on Protection Cost [% of underlying notional; annual]



For illustrative purposes only.

Capital Efficiency goes up in protected Equity

$$\text{Economic Efficiency} = \frac{\text{Expected Return} - \text{Hedging Cost}^1}{\text{reduced economic risk}}$$

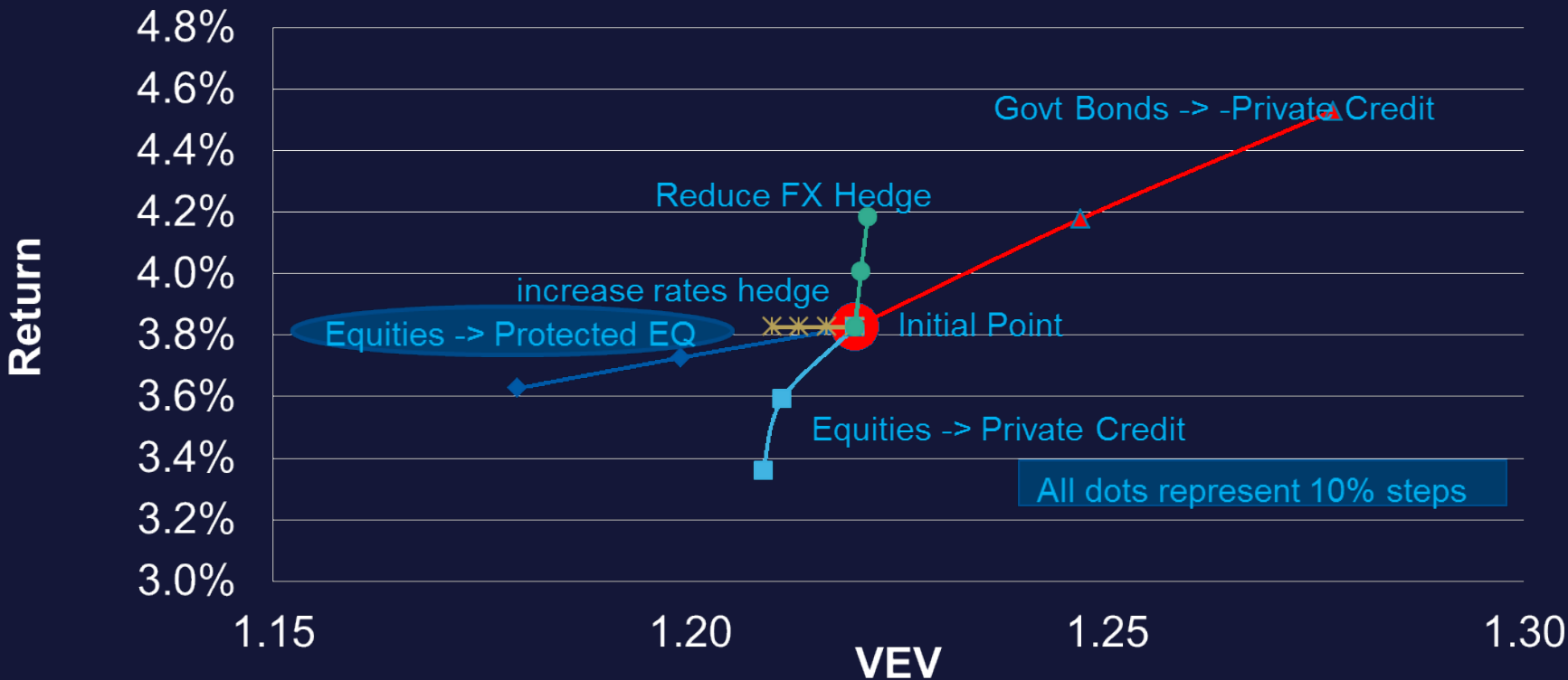
$$\text{Capital Efficiency} = \frac{\text{Expected Return} - \text{Hedging Cost}}{\text{reduced VEV charge of ca. 14\%}}$$

1. Keep Expected Return on Equities up
2. Keep cost of hedging down
3. Attain VEV reduction

1. Note that hedging costs are defined as premium of options minus expected payoff

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Impact SAA on VEV and expected return



Source: Morgan Stanley in-house analysis, Dec-17

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SECTION 4

Conclusions

Conclusions

Return Portfolio to generate excess return

- Main driver indexation ambition

Return Portfolio design considerations

- Largest return from Equity Risk Premium
- Alpha important; overall less impact on VEV
- New techniques for stabilisation equity returns available
 - “cheaper” (using risk control, also less pay-off)
- Efficient from VEV perspective

Morgan Stanley Investment Management Team

Helmut Cardon

Insurance and Pension Strategy



helmut.cardon@morganstanley.com

Helmut Cardon is a European Insurer and Pension Strategy Specialist. His focus is on strategic asset allocation, risk management and regulatory developments. Helmut joined Morgan Stanley 12 years ago within the European Pensions Group, and prior to that worked with Shell International and Shell's Pension Fund. Helmut holds Masters degrees in Mathematics and Computer Science, both from Leiden University.

Pepijn Heins

Head of Benelux Coverage



pepijn.heins@morganstanley.com

Pepijn is Head of the Benelux Sales team and is responsible for developing new relationships as well as maintaining existing relationships in the region. He joined Morgan Stanley in 2013. Before joining MSIM, Pepijn spent three years at Eaton Vance where he was Head of Business Development for Europe. Prior to that he was with Goldman Sachs Asset Management for nine years where he was responsible for Business Development in The Benelux. Pepijn started his career at Kas Bank in Amsterdam. He holds a Bachelor degree in Business Administration from Nyenrode University and a Masters in Economics from the University of Maastricht.

Shan Twan The

Benelux coverage



shan.twan.then@morganstanley.com

Shan Twan is a member of the Benelux client coverage team and is responsible for developing new relationships as well as maintaining existing relationships in the region. He joined Morgan Stanley in 2014. Before joining MSIM, Shan Twan spent six years at Towers Watson where he was an investment consultant advising investment committee of pension funds. Prior to that he worked as a hedge fund analyst at Steenman Asset Management. Shan Twan received an MSc in Business Administration from the Erasmus University Rotterdam and holds the Chartered Alternative Investment Analyst designation.

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