Deutsche Asset Management



Deutsche AM Multi Asset Group Myth and reality of modern Multi Asset management Passion to Perform



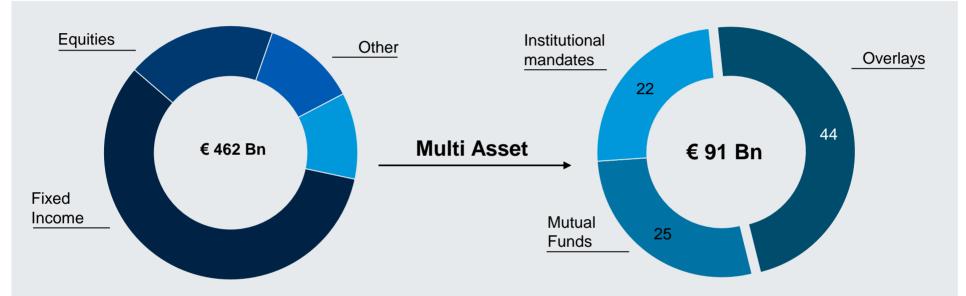
Multi Asset at Deutsche Asset Management

Introduction

Deutsche Asset Management Unique expertise in Active Asset management



Multi Asset as integral part of Active Asset management





With € 462 bn AuM, more than 500 experts in research and investment as well as over 80 years of client history, Deutsche AM is one of the world's leading active asset managers



Deutsche AM Multi Asset Group manages € 91 bn in assets across a defined set of global investment strategies with different risk characteristics C

Proven **long-term track record** in institutional composites; successful platform of mutual funds with >15x 4/5-star funds



In-depth expertise in modern asset allocation and risk management and leader in MA Innovation

Source: Deutsche Asset Management. As of March 2016.

Multi Asset – a growing, successful business Overview





5 Mutual fund strategies* 160 Inst. mandates

9/0 **16.7** over 10 years Alpha*** in Inst. Composites (1.1% p.a.)

* NNA in 2015

** Total of 65 single funds, including bespoke solutions for key distribution channels.

*** Compounded annual performance, AuM weighted over Target Risk/Target Return/Benchmark composites. As of July 2015 Source: Morningstar, Deutsche Asset & Wealth Management Global MIS, own calculations. As of H1/2015

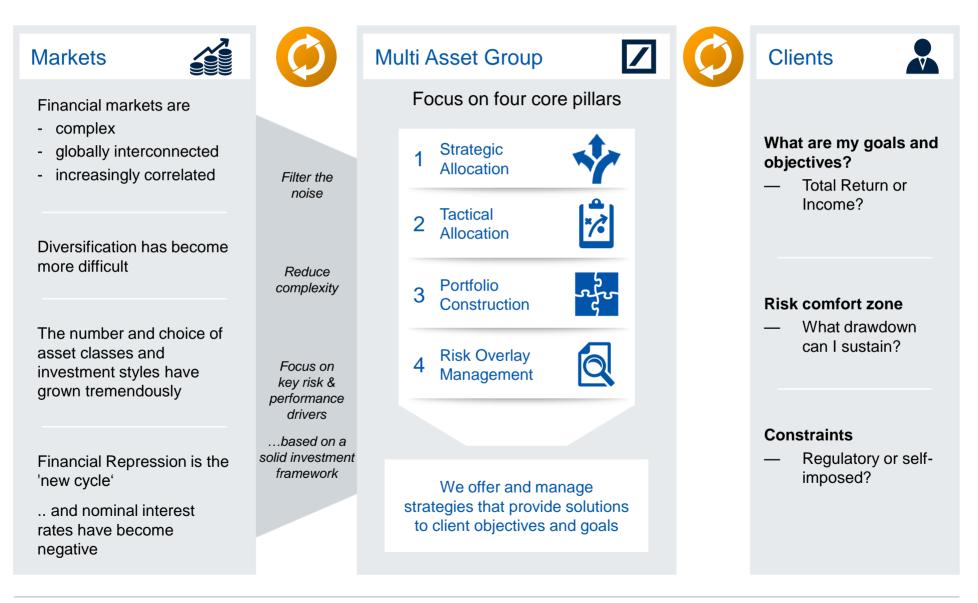
Data for EMEA region

Mutual

funds

Multi Asset Group EMEA

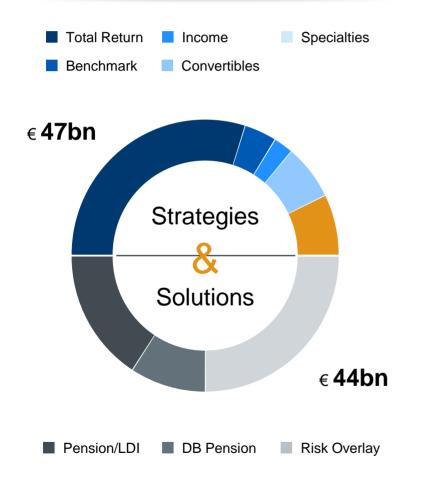
Providing goal-based solutions to our clients and thought leadership



Book of Business Our investment strategies and solutions



COMPREHENSIVE AND COMPETITIVE



FOCUS STRATEGIES & SOLUTIONS



Source: Deutsche Asset Management, Global MIS. As of Febuary 2016.

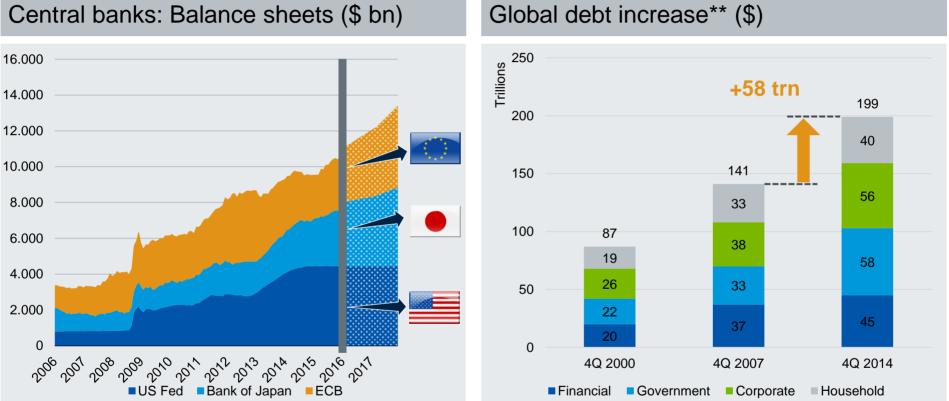


Why Multi Asset?

The "new market normal" and why Multi asset is relevant

The big picture Debt overhang will constrain policy normalization





We are living in a world of ample liquidity

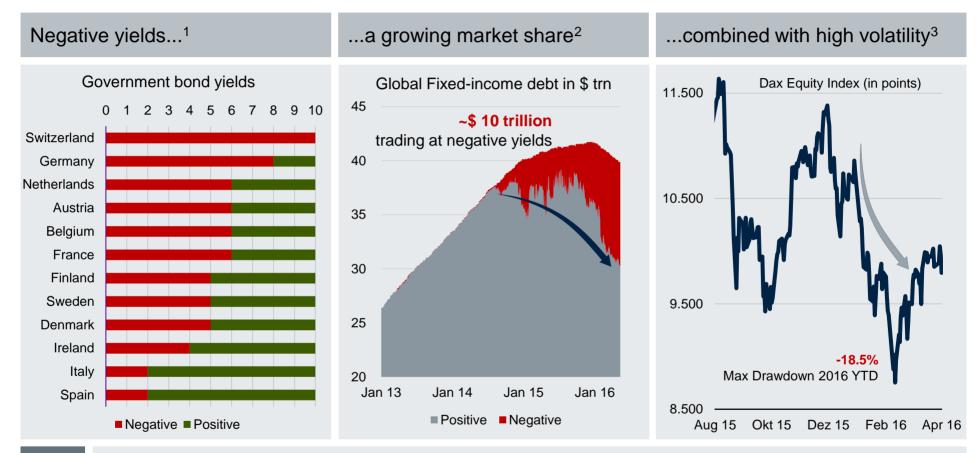
* Liabilities of private households and nonprofit organizations as a % of disposable income. As of December 2014.

** McKinsey Global Institute Report: "Debt and (not much) deleveraging", February 2015.

Source: Bloomberg Finance L.P., Deutsche Asset & Wealth Management

Implications The new market normal





The risk-return ratio has become asymmetric. Turn volatility into opportunity.

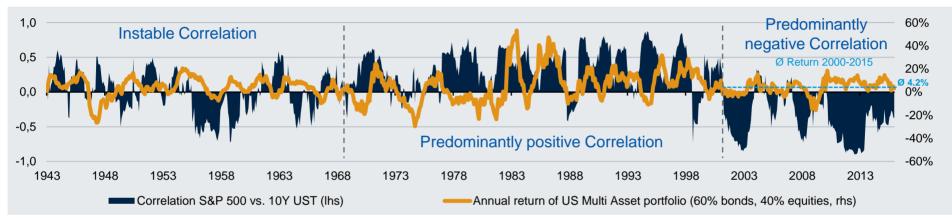
¹ As of April 2016. Source: Bloomberg.

² Source: BofA Merrill Lynch Global Research. Using the BofA ML global fixed income index GFIM. Includes bonds that mature in the following 12 months. As of May 2016. ³ DAX Index from 01.08.2015 till 29.04.2016. Source: Bloomberg.

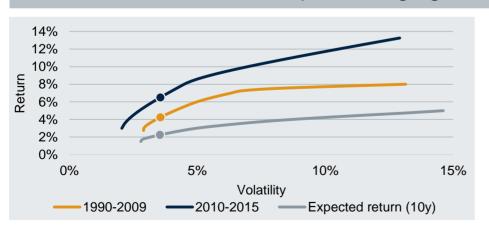
Excursus: What is normal? Diversification, risk and return in the "new normal"



Relatively "easy" diversification over the last 15 years



Source: Datastream, GFD, Shiller, Goldman Sachs Global Investment Research. As of December 2015.



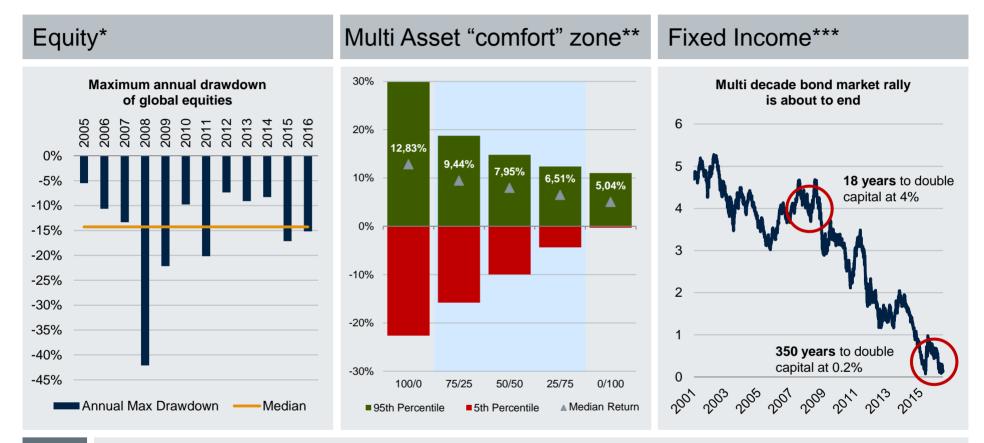
- The Risk-return relationship is changing
- In the past, relatively "simple" portfolios with bonds and equities have been sufficient to generate an attractive riskreturn profile and good diversification
- To achieve the same returns as in the past, investors need to take significantly more risk going forward
- Diversification is becoming more difficult to achieve as correlations between traditional asset classes have been increasing

Portfolio comprised of US equities, 10 year US treasuries, US IG bonds, US HY bonds. Source: Morgan Stanley Research, Bloomberg Finance L.P. As of November 2015.

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Why Multi Asset? What is the (simple) Objective





Multi Asset – the diversified and managed allocation of various asset classes – matching the clients risk-return objective

Note: * MSCI World Total Return Net Dividends Index denominated in EUR to end of April 2016.

- ** Total Returns of weighted buckets (MSCI World denominated in EUR and Barclays Global Aggregate Corporate EUR hedged) since 2000, yearly rebalanced. 2-Year holding period.
- *** Yield on 10-year generic German government bonds, in %.

Source: Deutsche Asset Management, Bloomberg Finance L.P., May 2016. Past performance is not a reliable indicator of future returns.



How do we manage modern Multi Asset

An introduction

The gateway to global institutional AM expertise Putting together and leveraging the best-of Deutsche AM



- Strategic Asset Allocation (SAA) advisory
 - With regard to economic as well as regulatory risk (e.g. Solvency II SCR*)
- Tactical Asset Allocation (TAA)
 - Integrated or as an overlay
- Multi Strategy
 - Style diversification, e.g. through efficient allocation of active and passive** style buckets
- Gateway to best building blocks and expertise of **Deutsche AM**
 - Modular approach

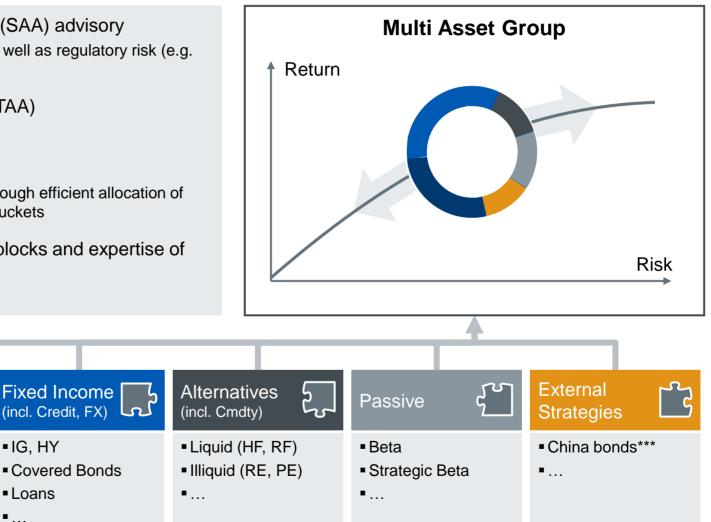
Equity

SMC

Equity Income

European Equities

• Quant, CROCI, ...



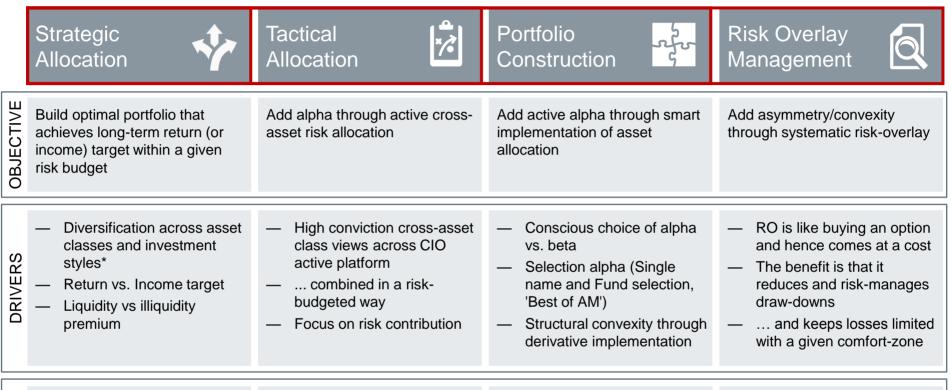
* E.g. for insurance Multi Asset solutions, in cooperation with GCG Solutions ** E.g. Smart Beta in cooperation with Passive.

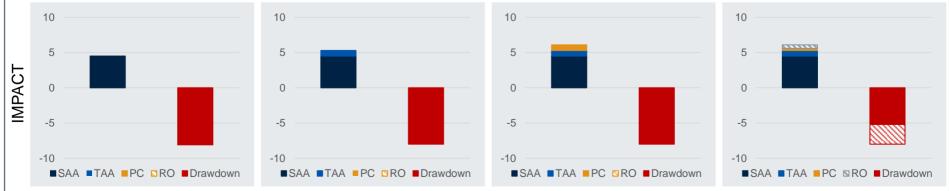
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Investment approach

Focusing on four core pillars of our Multi Asset investment process





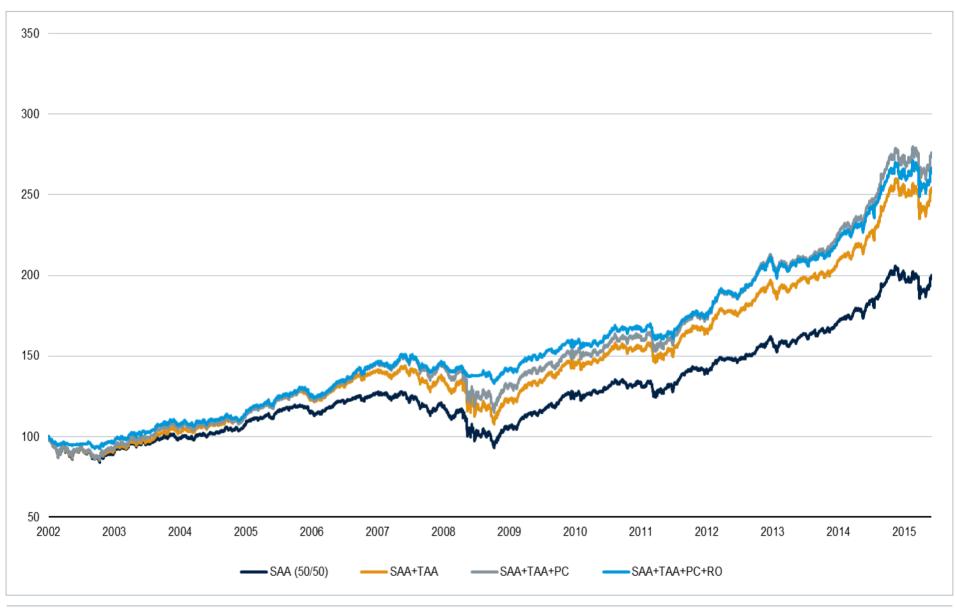


Deutsche Asset Management

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Investment approach

Focusing on four core pillars of our Multi Asset investment process



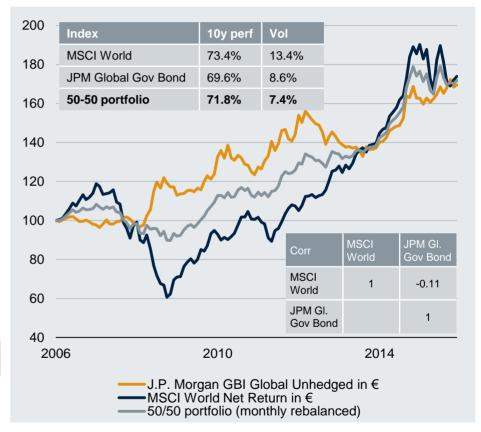
Excursus Myth versus reality of Diversification



YoY asset classes performance (ranked)*

2008	2009	2010	2011	2012	2013	2014	2015	2016
US Sov.	MSCI EM	REITS	REITS	HY Credit	MSCI DM	REITS	MSCI DM	REITS
+12.30%	+78.51%	+27.94%	+8.29%	+22.19%	+21.24%	+28.03%	+10.39%	+9.46%
EUR Sov.	HY Credit	MSCI DM	EM Debt	REITS	Portfolio	MSCI DM	Portfolio	EM Debt
+8.70%	+69.18%	+19.83%	+8.02%	+19.80%	+13.02%	+19.58%	+4.31%	+6.85%
Cash	EM Debt	MSCI EM	US Sov.	EM Debt	HY Credit	Portfolio	HY Credit	HY Credit
+4.00%	+28.78%	+18.88%	+6.34%	+18.62%	+8.38%	+13.19%	+3.41%	+5.24%
IG Credit	REITS	HY Credit	EUR Sov.	MSCI EM	REITS	IG Credit	REITS	IG Credit
+0.35%	+28.00%	+15.11%	+3.11%	+18.22%	+2.86%	+8.17%	+2.83%	+3.20%
Comdty	MSCI DM	EM Debt	IG Credit	MSCI DM	EUR Sov.	EM Debt	US Sov.	US Sov.
+0.00%	+26.56%	+12.24%	+2.62%	+13.75%	+2.33%	+7.60%	+1.60%	+2.80%
EM Debt	Portfolio	Portfolio	Cash	IG Credit	IG Credit	EUR Sov.	EUR Sov.	MSCI EM
-11.66%	+21.11%	+11.31%	+0.88%	+13.21%	+1.94%	+5.59%	+1.47%	+1.37%
Portfolio	IG Credit	US Sov.	HY Credit	Portfolio	Cash	HY Credit	EM Debt	EUR Sov.
-19.25%	+13.95%	+5.85%	+0.04%	+12.89%	+0.09%	+3.87%	+0.81%	+1.02%
HY Credit	EUR Sov.	IG Credit	Comdty	EUR Sov.	Comdty	US Sov.	Comdty	Comdty
-37.64%	+5.44%	+4.31%	+0.00%	+8.06%	+0.00%	+2.18%	+0.00%	+0.00%
REITS	Cash	EUR Sov.	Portfolio	US Sov.	US Sov.	Cash	Cash	Cash
-37.72%	+0.73%	+1.65%	-0.44%	+1.65%	-0.96%	+0.10%	-0.11%	-0.10%
MSCI DM	Comdty	Cash	MSCI DM	Cash	MSCI EM	Comdty	IG Credit	Portfolio
-38.04%	+0.00%	+0.44%	-2.58%	+0.24%	-2.60%	+0.00%	-0.80%	-2.28%
MSCI EM	US Sov.	Comdty	MSCI EM	Comdty	EM Debt	MSCI EM	MSCI EM	MSCI DM
-53.33%	-0.77%	+0.00%	-18.42%	+0.00%	-6.45%	-2.19%	-14.92%	-4.96%

Traditional Multi Asset yielding satisfying results**



* Asset classes are represented through: Equities DM: MSCI World, Equities EM: MSCI EM Emerging Market, Cash: EONIA Index, Real Estate: FTSE NAREIT All Eq REITS; Commodities: DJUBS Commodity, US Sovereign: Barclays US Treasury 3-5yr TR, EUR Sovereign: iBoxx Sovereigns Eurozone 3-5yr TR, IG Credit: Barclays Global Agg Corporate, HY Credit: Barclays Global High Yield Tot, EM Debt: Barclays Emerging Markets Corp. Data as of Mar 2016.

** Period: 31 May 2006 – 29 Apr 2016. 31 May 2006 = 100.

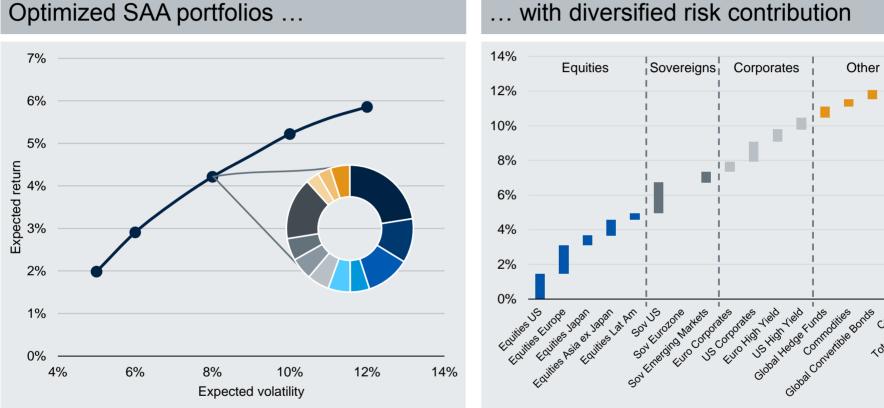
Past performance is not a reliable indicator of future returns.

Source: Deutsche Asset Management, Deutsche Bank. As of May 2016.

Strategic Asset Allocation as a starting point Combining strategic risk-return forecasts with diversified risk contribution



Other



... with diversified risk contribution

Diversified, strategic portfolio that optimizes return for given risk profile

Deutsche Asset Management. As of March 2016. Source:

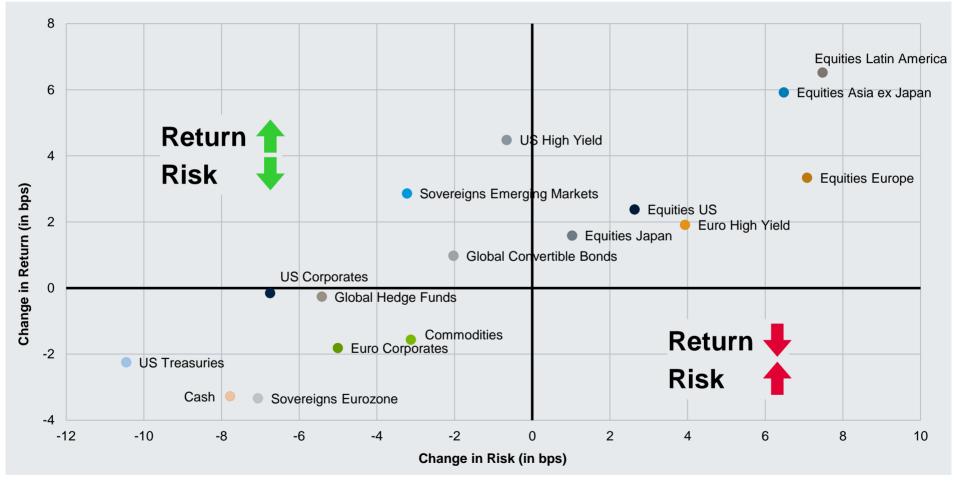
Deutsche Asset Management Diversification impact

Total Portfolio

Strategic Asset Allocation Using existing diversification potential



Marginal risk-return contributions

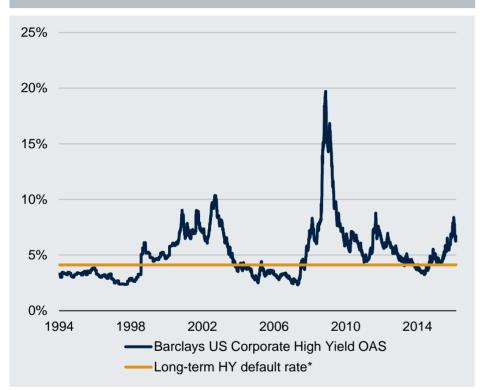


* Change of the risk-return profile of a 50% Equities Europe / 50% Sovereigns Eurozone portfolio, when adding 1% of various asset classes. Source: Bloomberg Finance L.P., Deutsche Asset Management. As of Marc 2016.

Strategic: Harvesting long-term risk premia Risk premia in credit and equity markets



High yield credit risk premia vs. default rate



Small/Mid Cap versus broad equities



Credit and equity risk premia are well-known and researched and exhibit long-term cycle patterns. Watch out for turning points when spreads don't compensate for defaults anymore or recessions for SMC.

* Average speculative-grade default rate (%) between 1981 and 2014. S&P RatingsDirect: "2014 Annual Global Corporate Default Study and Rating Transitions", April 2015. Past performance is not a reliable indicator of future returns.

Source: Bloomberg Finance L.P., S&P Ratings Services, Deutsche Asset Management. As of March 2016.

Excursus: Style investing Collecting risk premia over time





Relative Performance of Factors* vs. MSCI World

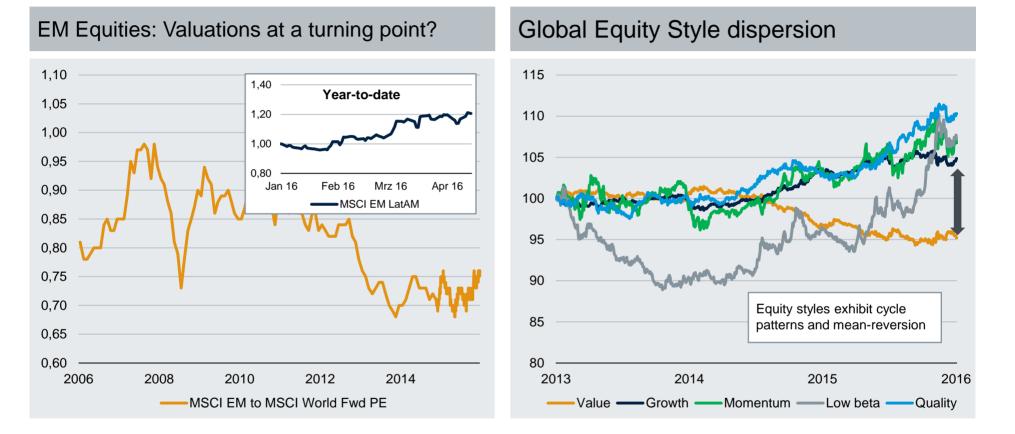
Past performance is not a reliable indicator of future returns.

* Time series refer to MSCI Factor Indexes.

Source: Bloomberg Finance L.P., MSCI, Deutsche Asset Management. As of April 2016.

Tactical: Flexible allocation of risk budgets Exploiting market opportunities across a global asset class universe





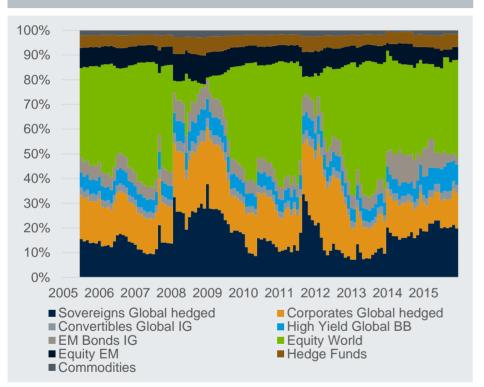
Leveraging expertise and investment ideas across our global active investment platform

Past performance is not a reliable indicator of future returns. Source: Bloomberg Finance L.P., Deutsche Asset Management. As of March 2016.

Tactical: Global tactical asset allocation Implementing diversified asset allocation views



Global TAA allocation over time



Global TAA Track record

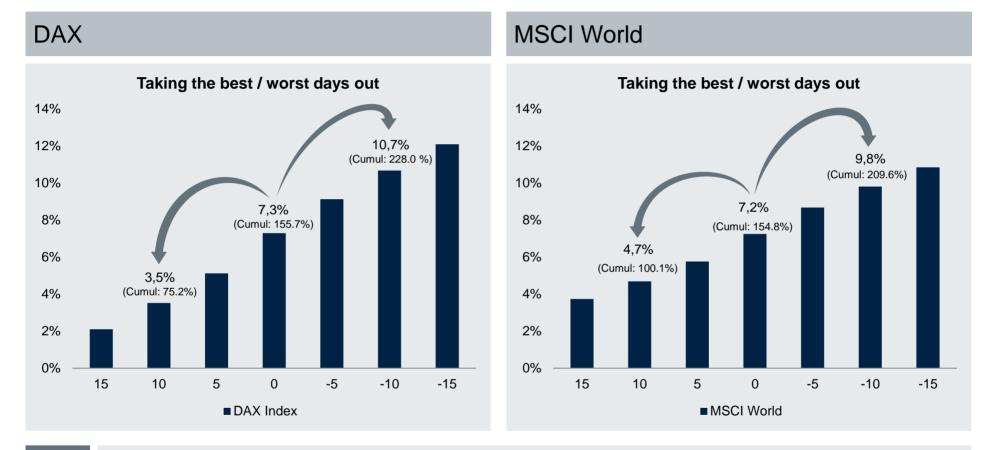


Alpha contribution through discretionary, diversified risk taking across a global asset class universe

* gTAA signals can be flexibly applied to different SAA portfolios. Please be aware, that the application is justified if the asset classes choice is close to the historical SAA breakdown. Inclusion of further asset classes might lead to relative adjustments in the active weights. Source: Bloomberg Finance L.P., Deutsche Asset Management. As of January 2016.

Excursus: Market timing versus "time in the market"

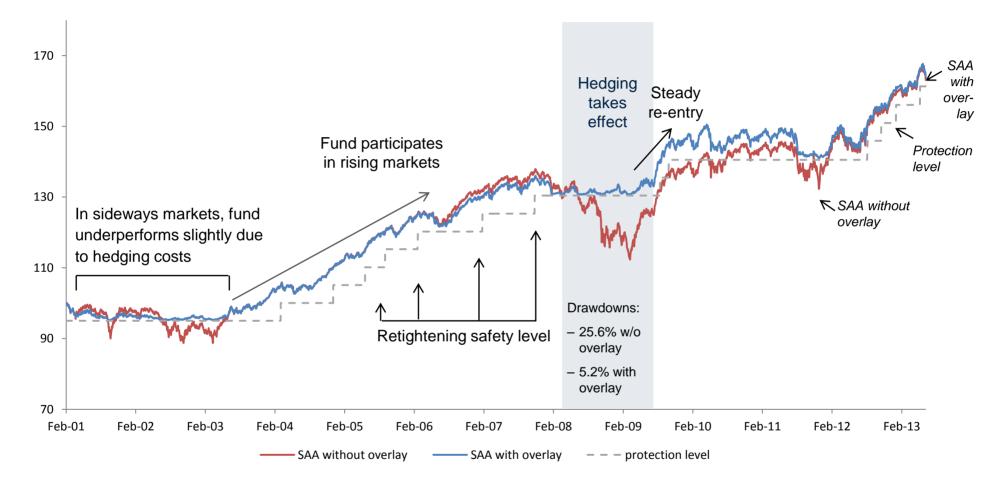




The impact of missing out on the best as well as the worst days is significant. Note, that periods of high volatility are clustered, an autocorrelation effect.

Study period since 1995 . Total returns shown are p.a., indices in € unhedged Source: Deutsche Asset Management. As of March 2016.

Risk overlay management – How it works over time Example: Strategic pension fund portfolio with and without overlay



Benchmark: 30% MSCI EMU (TR), 65% iBoxx Euro Overall Index All Mats., 5% JPMorgan Euro Cash 3 Months. Threshold level for the fund: 95%, whereas the threshold is raised by 5% if the funds is 10% above the threshold. Money market interests assumed to be reflected by JPM 3M EUR Cash. Calculation is after costs, including transaction costs

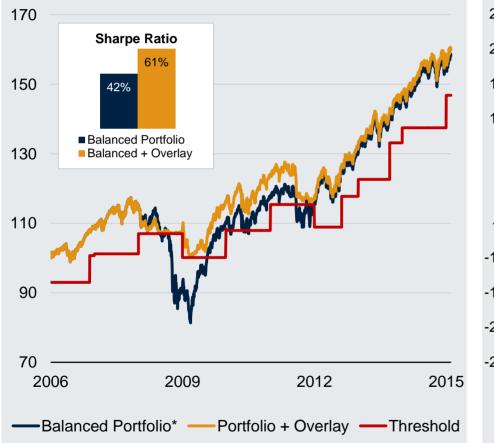
For illustrative purposes only.

Past performance is not a reliable indicator of future returns. Source: Deutsche Asset & Wealth Management

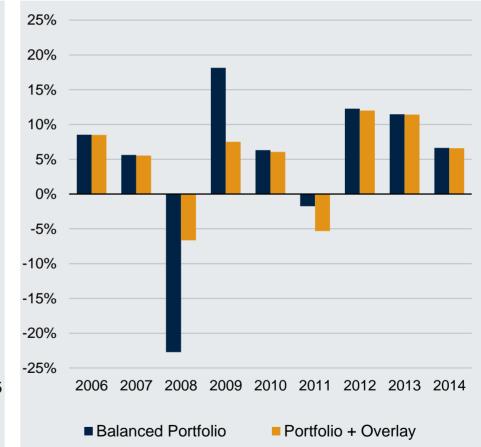
Risk overlay management Increasing risk-return characteristics in the long run



Balanced strategy with/without overlay*



Performance year-over-year



* Calculation based on the Deutsche AWM MAG RIC Germany model portfolio. Risk budget at 7%, with ratchet feature.

Past performance is not a reliable indicator of future returns.

Source: Bloomberg Finance L.P., Deutsche Asset & Wealth Management. As of March 2015.



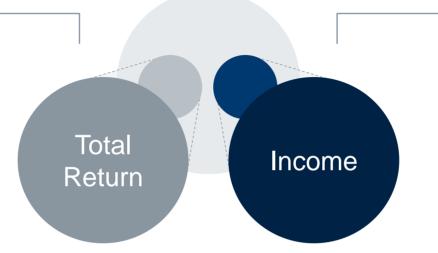
Outcome-oriented and goal-based Investing

Defining the investment objective is key

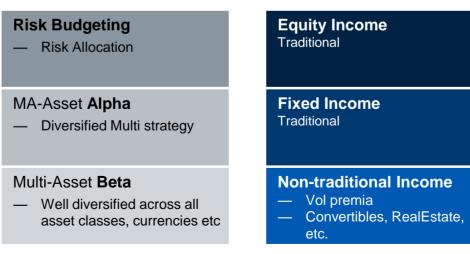
What is your objective? The outcome matters



- "Smooth" journey
- Maximizing return for a given risk budget
- Short(er) term investment horizon
- Convexity and asymmetry (watch the embedded option premium)



Total-Return vs. Income, both Multi-Asset, but different client objective



- Harvest long-term multi asset Income Premia
- Include nontraditional Income
- Long(er) term investment horizon
- Risk overlay as "airbag". Riskcomfort-zone is larger than for TR

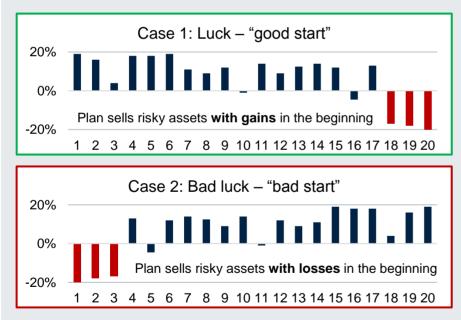
Objective and framework matters Example: Decumulation plan under different market scenarios

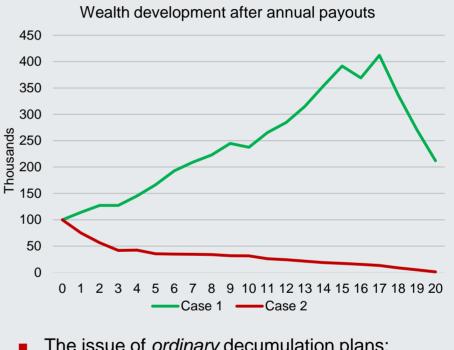


Payout leads to very different outcome in future wealth ... despite the same yield

Example:

- Initial wealth: € 100,000
- Decumulation plan: 100% in equities (7% annual return)
- Payout: € 5,000 per year over 20 years





The issue of *ordinary* decumulation plans: Bad performance in the beginning can have significant influence on future wealth outcome

The Solution: Multi Asset Decumulation

Proprietary target-oriented risk budgeting eliminates negative timing effects significantly



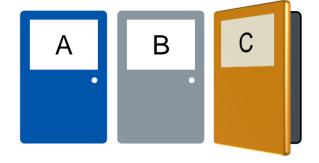
And finally ... a Quiz

Behavioural Finance

Decision making under uncertainty Do investors analyse well?

The Monty Hall problem

- There are three doors: A, B, and C
- Behind one door is the big prize, the other two are blanks
- You get to select one door
- The game show host opens a losing door that is not yours
- After one losing door has been revealed, should you switch?



Analysis

- At the start, the chance of selecting the right door is 1/3
- Obviously, picking the right door and then switching makes you lose, and vice versa.
- Imagine a series of 30 games:
 - With a 1/3 chance, you would expect to have picked the correct door 10 times while choosing the losing door 20 times
 - If you switch every time, you would win 20 times out of 30!

Switching doors doubles the chance to win!

A behavioral objection



- We just saw that switching optimizes your probability of success
- Rational theory economists would say that if you don't switch, you are being irrational

But ...

- Suppose you switch and it turns out that you had the right door to begin with ...
- How would you feel?
- Maybe there is more to decision making than pure rationality!
- Real investors are "regret averse" whereas rational investors are not

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