

Asset Management im Wandel der Zeit

Markus Leippold Basler Fondsforum January 17, 2013



- I. A Snapshot of the Industry
- II. Key Trends in Asset Management
- III. A Brief History Of (Academic) Ideas
- IV. Ask the right questions! Examples from Academia.



Industry Snapshot

Good news first: global AuM seems to recover from the crisis

An overview from the BCG Study, 2011:



Industry Snapshot Attractiveness remains

Asset management industry's relative growth:

- In 2011, post-crisis recovery in the global asset management industry stalled despite macroeconomic shocks.
- Fundamental structural changes are altering patterns of growth and profitability across the globe.
- Growth currents in asset management are highly concentrated in specific regions, client segments and asset classes.





Industry Snapshotbut there are signs of warnings!

Total global financial assets 2007-2011



SOURCE: McKinsey Global Asset Management Database



Industry Snapshot Prices for most institutional products decline, while...





Industry Snapshot ... operational leverage turned negative, with rising costs!



1 Includes occupancy, legal, non-sales-related T&E, and other general expenses (e.g., insurance, temp)

Source: 2012 McKinsey Asset Management Benchmarking Survey

Industry Snapshot Also, growth of global wealth is slowing down...



Source: BCG Global Wealth Market-Sizing Database, 2012.



Industry Snapshotwhile global growth feeds on the new world's success



Source: BCG Global Wealth Market-Sizing Database, 2012.



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Key Trends - Regional Differences Regional differences in AUM growth 2007-11





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Key Trends - Regional Differences Emerging markets on the rise!

Αι Υε 20			rowth end 2011, %	Cumulative net flows 2008-11 as % of YE 2007 AuM	Marke	Market performance	
	North America	-2%		2%	-4%		
ped	Western Europe		1%	0%		1%	
velo	Japan	-15%		4%	-19%		
De	Australia		13%	6%		7%	
	Africa & Middle Eas	t	27%	n/a		n/a	
ging	Latin America		58%	21%		37%	
merç	Emerging Asia		17%	18%	0%		
ш	CEE & Russia		20%	23%	-3%		
	Global		0%	2%	-2%		

SOURCE: McKinsey Global Asset Management Database



Key Trends - Regional Differences Emerging markets - a closer look...

Emerging markets AuM growth and net flows by country, 2007-2011



1 Includes countries not shown above

SOURCE: McKinsey Global Asset Management Database



Key Trends - Regional Differences What about Europe? - negative, with high variability

European AuM growth and net flows by country

	AuM gro 2007-11,	AuM growth 2007-11, %		ve net etail % uM	Cumulative net flows – institutional ² 2008-11, % of 2007 AuM		
UK		19%		25%		4%	
Scandinavia		10%		9%	0%		
Germany		4%	-3%			17%	
Benelux		4%	-11%			9%	
France	-3%		-17%		-5%		
Switzerland	-8%			4%		5%	
Italy	-16%		-20%		-5%		
Iberia	-31%		-34%		-13%		
Western Euro	ppe ¹	1%	-6%			3%	
1 Includes other countries	not shown above					' <u> </u>	

2 Including DC

SOURCE: McKinsey Global Asset Management Database



Key Trends - Regional Differences Negative growth for Europe - 2010/11

European AuM growth and net flows by country

	AuM g 2010-1	jrowth 11, %	Net flows retail % of 2010) AuM	Net flows – institutional ² % of 2010 AuM		
Benelux		2%	-5%			7%	
UK		1%		5%		1%	
Switzerland		1%		1%		1%	
Germany	-3%		-2%			4%	
Scandinavia	-3%			1%	-2%		
France	-4%		-6%		-2%		
Iberia	-6%		-8%		-2%		
Italy	-8%		-11%			3%	
Western Europe ¹	-2%		-3%			1%	

1 Includes other countries not shown above

2 Including DC

SOURCE: McKinsey Global Asset Management Database



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Key Trends - Product Landscape Strong growth in bonds, emerging market equity, and solutions

Net sales of mutual funds by strategy (\$billions)											
	States			Europe							
2010 2005–2			.010	2010)	2005-2	010				
Core bonds	119	Core bonds	465	Asset allocation	51	Asia-Pacific country equity	139				
Emerging-market equity	46	Foreign equity	247	High-yield bonds	40	Global equity	79				
Target date	45	Target date	243	Emerging-market bonds	39	Corporate bonds	48				
Foreign equity	32	World allocation	126	Emerging-market equity	29	Emerging-market equity	46				
World bonds	32	Emerging-market equity	106	Global bonds	29	High-yield bonds	45				
Multisector bonds	25	Munis	102	Global equity	17	Emerging-market bonds	45				
World allocation	24	Asset allocation	84	Asia-Pacific equity	12	BRIC equity	37				
Commodities	19	World bonds	82	Flexible bonds	10	Commodities	18				
Absolute return/long-short	17	Multisector bonds	78	Absolute return	8	Sector equity	14				
Bank loans	16	Commodities	54	Asia-Pacific bonds	7	Convertible bonds	14				
	0 200 400 60	00	0 200 400 600) (0 200 40	0 600	0 200 400 600				
Equity Bond Other											

Sources: Morningstar; BCG analysis.



Key Trends - Product Landscape Asset allocation goes east!

Changes planned to 2011 asset allocation by European institutional investors (% of respondents)



Key Trends - Product Landscape Passive grows while active gets less attractive



Key Trends - Product Landscape Net flows from traditional relative return to passive!





Key Trends - Product Landscape ETFs on the rise





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Key Trends- Regulation and Risk Management The role of regulation and risk management

Risk management

- Risk management rises up the corporate agenda
- Financial crisis has raised question about Of main concern is the need to manage the effectiveness of risk management.
- Economic uncertainty, convergence of risk factors, and regulatory changes add to the complexity of risk management.
- Top concerns are (PWC Study):



Regulation

- Regulation becomes a strategic and operational issue
- the impact of new regulations and the increased intensity of supervision.
- Responding to this change in circumstances requires stronger risk management frameworks, standards, tools, and data.
- Regulatory supervision along with the cost of risk management and the potential for direct regulatory intervention represent rising implied costs on wealth managers.



Key Trends - Regulation and Risk Management **Regulation**

On the positive side:

- Regulation may help to increase transparency
- It may help to increase cross-border competition
- It may permit quicker and more straightforward approval processes
- It may introduce reporting standards
- It may help to ban retrocession payments to distributors of certain asset-management products

On the negative side:

- Regulation may create an administrational overkill
- It may distort heavily the efficient allocation process in financial markets (short-selling bans)
- It may alter the attractiveness of certain asset classes (Solvency II)
- It may support false believe in risk models and ratings (Basel II/III)
- New regulations may affect asset managers profitability and investor returns



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Private financial wealth held in offshore centers, 2011 (\$trillions)										
	Destination of offshore wealth									
Origin of offshore wealth	Switzer- land	United Kingdom	Channel Islands and Dublin	Luxem- bourg	Caribbean and Panama	Hong Kong and Singapore	United States ¹	Other ²	Region al total	
North America	• 0.04	○ 0.12	° 0.11		0.39	• 0.05	· 0.00	· 0.02	0.7 🔿	
Western Europe	0.93	00.15	0.51	0.36	00.13	0 0.14	0 0.12	0.22	2.6 📏	
Eastern Europe	• 0.09	• 0.05	· 0.04	· 0.03	· 0.03			· 0.03	0.3 📫	
Asia- Pacific	0.23	0.26	00.14	* 0.06	0 0.16	0.76	0.20	• 0.10	1.9 🧷	
Latin America	0.25	· 0.03	· 0.03	· 0.01	0.25		0.24	• 0.05	0.9 🔿	
Middle East and Africa	0.56	0.33	0.21	· 0.04	* 0.06	+ 0.06	· 0.04	0.22	1.5 🏷	
Booking center total	2.1 🔿	0.9	1.0	0.5	1.0	1.0	0.6	0.6	7.8 🔿	
							⇒ = Char	nge in 2011		

Source: BCG Global Wealth Market-Sizing Database, 2012.



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Key Trends - Swiss Agenda Implications for Switzerland

In Search for an Asset Management Strategy

- Given its importance for the Swiss economy and the financial market, asset management (AM) as part of wealth management is not highly developed in Switzerland
- Wealth management advantages may erode in the future
- AM initiative must target at
 - Defining standards for the Swiss AM industry in terms of governance, best practice, code of ethics, etc.
 - Imposing an adequate regulatory framework (as a sign of quality)
 - Offering an appropriate legal framework adapted to business needs (e.g., access to foreign markets, taxes, etc.)
 - Improving education in asset management through universities or similar institutions (CFA, AZEK, etc.)



Key Trends - Swiss Agenda Given the trend to solutions and outcome-oriented products:

Asset managers face capability and credibility challenges in living up to their promises



Source: 2012 McKinsey North American Asset Management Benchmarking Survey



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The more you know about the past, the better you are prepared for the future. *Theodore Roosevelt*



A Brief History of Ideas The Dawn of A New Area

- 1889 Efficient markets were clearly mentioned in a book by Gibson entitled *The Stock Markets of London, Paris and New York*. Gibson wrote that when "shares become publicly known in an open market, the value which they acquire may be regarded as the judgment of the best intelligence concerning them."
- **1900** Bachelier, published his PhD thesis, *Théorie de la Spéculation*. He also deduced that "The mathematical expectation of the speculator is zero", 65 years before Samuelson (1965) explained efficient markets in terms of a martingale. Bachelier's work was way ahead of his time and was ignored until it was rediscovered by Savage in 1955.
- **1923** Keynes stated that investors on financial markets are rewarded not for knowing better than the market what the future has in store, but rather for risk baring.
- 1925 Macauley observed that there was a striking similarity between the fluctuations of the stock market and those of a chance curve which may be obtained by throwing a dice.
- **1933** Cowles analyzed the performance of investment professionals and concluded that stock market forecasters cannot forecast.



A Brief History of Ideas Physics Envy and Emergence of «Efficient Markets»

- **1952** Markowitz diversifies (in a mathematical way).
- **1964 Bill Sharpe** published his Nobel prize-winning work on the CAPM.
- **1965** Fama defines an "efficient" market for the first time, in his landmark empirical analysis of stock market prices that concluded that they follow a random walk.
- **1968** Jensen evaluates the performance of mutual funds and concludes that "on average the funds apparently were not quite successful enough in their trading activities to recoup even their brokerage expenses."
- **1969** Fama, Fisher, Jensen and Roll undertook the first ever event study (although they were not the first to publish), and their results lend considerable support to the conclusion that the stock market is efficient.
- **1970** The definitive paper on the efficient markets hypothesis is Fama's "*Efficient capital markets: A review of theory and empirical work*". A market in which prices always "fully reflect" available information is called "efficient".
- **1973** Malkiel first publishes the classic "A Random Walk Down Wall Street". As of today, there have been 9 editions.



A Brief History of Ideas Some Cracks in the Wall: Anomalies and Puzzles

- **1978** Ball wrote a paper which revealed consistent excess return after public anouncements of firms' earnings (announcement effect).
- **1979** Shiller shows that the volatility of long-term interest rates is greater than predicted, a theme that reappeared in Shiller (1981) and LeRoy-Porter (1981) for the stock market (excess volatility).
- **1980** Grossman and Stiglitz show that it is impossible for a market to be perfectly informationally efficient, since information is costly.

French observed that the average return to S&P stocks was reliably negative over weekends (weekend effect).

- **1981** Banz and Reinganum showed that small-capitalization firms on NYSE earned higher average returns than is predicted by the CAPM (size effect).
- **1983** Keim and Reinganum showed that much of the abnormal return to small firms occurs during the first two weeks in January (turn-of-the-year effect).

Basu (1977, 1983) noted that firms with high E/P ratios earn positive abnormal returns relative to the CAPM (value effect).



A Brief History of Ideas Rationalists, Anomalists, Behavioralists,...

Mehra and Prescott find *the* puzzle: The Equity Premium Puzzle. 1985 **De Bondt** and **Thaler** discovered that stock prices overreact; evidencing substantial weak form market inefficiencies. This paper marked the start of behavioral finance. 1993 Jegadeesh and Titman found that recent past winners (portfolios formed on the last year of past returns) out-perform recent past losers (momentum effect). 1994 Metcalf and Malkiel find that portfolios of stocks chosen by experts do not consistently beat the market. 1999 Lo and MacKinlay publish A Non-Random Walk Down Wall Street. 2000 Shiller publishes Irrational Exuberance. **Schwert** shows that when anomalies are published, practitioners implement 2003 strategies implied by the papers and the anomalies subsequently weaken or disappear. Malkiel shows that professional investment managers do not outperform their 2005 index benchmarks and provides evidence that by and large market prices do seem to reflect all available information. et cetera



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 - II. The Crux with Statistics



Academic Examples - Impact of Asset Management Industry Institutions and rules - an example

- We observe a structural shift in investment discretion from private households to institutional investors:
 - 1950: 90% of corporate equity held directly by individuals.
 - 2008: 60% of corporate equity held by institutions (delegation)
- Investment objectives of institutional investors differ from those of private individuals.
- Importance of benchmarking is closely related to institutional investors.
- Benchmarking may have extensive implications on risk premia.



How do delegation and benchmarking affect the cross-section of returns?

*Leippold and Rohner (2012), "*Equilibrium Implications of Delegated Asset Management Under Benchmarking", Review of Finance.



Academic Examples - Impact of Asset Management Industry Institutions and rules - an example (con'd)

Findings:

- Institutional investors and their preferences matter for asset pricing.
- Delegation leads to a more informative price system and lower expected returns.
- Benchmark risk is a priced risk factor.
- In the empirical analysis, we find:
 - Stocks with high RIO exhibit significantly lower returns than do stocks with low RIO;
 - Large-cap stocks with a high residual beta exhibit significantly lower returns than do stocks with low residual betas.

Implications? ... More than you think!





Academic Examples - Impact of Asset Management Industry The impact of the emergence of the ETF market

- Current medium-term volatility in SPX is now at the bottom end of their "new normal" period.
- Average market-cap weighted single stock implied volatility has already reached 2006 levels
- Index volatility is relatively higher because of higher implied correlation being priced by the market.
- The decade-long secular uptrend in correlation appears to be driven by the growth in index and ETF products.





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Academic Examples - The Crux with Stats Do anomalies survive? *or:* Academics as Gravediggers?

- Anomalies do not conform with the predictions of accepted models of asset pricing and may serve as starting point for active management.
- However, many of the well-known anomalies in the finance literature do not hold up in different sample periods.
- The size effect and the value effect seem to have disappeared after the papers that highlighted them were published.
- The weekend effect and the dividend yield effect also seem to have lost their predictive power after the papers that made them famous were published.
- The small-firm turn-of-the-year effect became weaker in the years after it was documented in the academic literature, although there is some evidence that it still exists.
- Likewise, the evidence that stock market returns are predictable using variables such as dividend yields or inflation is much weaker in the periods after the papers that documented these findings were published.



Academic Examples - The Crux with Stats Data mining - an example

"There are three kinds of lies: lies, damned lies, and statistics."

-- Benjamin Disreali

"Data Snooping and the Global Accrual Anomaly" - Leippold/Lohre (2008a)

- Accrual gives room for earnings management and may trigger adverse earnings moves in the future.
- (Naive) investors fixate on current earnings. Profitable trading strategy: Go long in low accrual companies and short in high accruals companies (Sloan, 1996).

Accounting for multiple hypothesis testing, the "accrual anomaly" as a global phenomenon disappears.

"The Dispersion Effect in International Stock Returns" - Leippold and Lohre (2008)

- Not just the mean, but the "dispersion" of earnings forecasts may contain additional valuable information.
- Diether, Malloy, and Scherbina (2002) find evidence for anomalous dispersion returns by shorting highdispersion stocks and going long low dispersion stocks. They contend:

Accounting for multiple hypothesis testing, the "dispersion anomaly" as a global phenomenon disappears.



Academic Examples - The Crux with Stats Data mining - an example

"International Price and Earnings Momentum" - Leippold/Lohre (2008c)

- Price and earnings momentum are constantly defying market efficiency around the globe
- Price Momentum (Jegadeesh and Titman, 1993): Buy winners and sell losers.
- Earnings Momentum (Chan, Jegadeesh, Lakonishok, 1996): Buy positive and sell negative earnings revisions

Accounting for multiple hypothesis testing, the international momentum puzzle prevails.



Department of Banking and Finance

Academic Examples - The Crux with Stats Where does Alpha come from?

The Arithmetic of Active Management (Sharpe, 1991)

- If active and passive management styles are defined in sensible ways, it must be the case that:
 - Before costs, the return on the average actively managed dollar will equal the return on the average passively managed dollar; and
 - After costs, the return on the average actively managed dollar will be less than the return on the average passively managed dollar.

A Simple Thought Experiment

- Invest in a 30/130 strategy with the SMI as underlying
- Weights are changed randomly
- Out of 10'000 simulated funds, 53% turn out to be "skilled" investors.





... What academic nightmares are made of!

- Return is (more or less) straightforward to measure, risk is not! Adjust your performance measures for serial correlation and heteroscedasticity.
- Most performance measures have serious deficiencies!
 - Sharpe ratios are easily sharpened.
 - Alpha is "just" the intercept of a linear regression under the assumption of Gaussian errors.
 - How active is your active manager?
- Beware the data snooper!
- It's hard to separate skill from luck. Multiple hypotheses testing methods may help!
- Finance is not Physics! In Finance, we have not only to deal with sparse data "by nature" and last but not least, we have to deal with humans!





Chance favors only the prepared mind Louis Pasteur