

NAGDCA ANNUAL CONFERENCE 2009

Be sure to sign the
"Sign-In/Sign-Out" sheet
outside of the room when applying for
Continuing Education Credits
for the following certifications.
(Check the appropriate certification)

- CFP
- CPE

NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

**Investments in the
Current Market Environment**

Moderator:
Michelle Berklacich, State of California

Speakers:
James Sia, Wellington Management Company, LLP
Kamila Kowalke, Dow Jones Indexes

NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

Kamila Kowalke
Director, Dow Jones Indexes
Phone: 949.584.8652
kamila.kowalke@dowjones.com

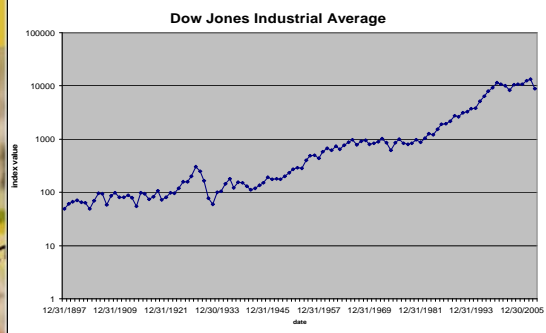
NAGDCA

What did 2008 bring?

- Large losses for most strategies
 - DJIA down 33.84%
 - One major 2010 Target date fund down 42%
 - REITs down 39.2%
 - Commodities down 35.65%
 - Hedge Funds
 - some down over 50%
 - some restricted withdrawals
 - some out-of-business
- Large stimulus package with uncertain consequences for the future



2008 - Should we have been surprised?



What does it mean?

If you had the right strategy, stick to it
If you had a wrong strategy, changes are needed

How do you know if it was right?
When you know your Plan B and you can live with it.



NAGDCA ANNUAL CONFERENCE 2009

Defined Contribution Strategies in a Risky World

RISKS

- Market
- Inflation
- Longevity

STRATEGIC DECISIONS

- Contributions
- Withdrawals
- Investments




NAGDCA ANNUAL CONFERENCE 2009

Inflation Risk

3% for 25 years = 50% reduction in standard of living
 5% for 25 years = 70% reduction in standard of living
 10% for 3 years = 25% reduction in standard of living


Uncertain effect of stimulus package

Will an inflation surprise affect your standard of living?



NAGDCA ANNUAL CONFERENCE 2009

CPIU Measured for the Last 48 Years



How do you hedge unexpected inflation?

Complete inflation hedge
laddered TIPS

Partial inflation hedge
TIPS
Commodities
Real Estate through REITs/RESI
Stocks



Longevity Risk

Life expectancy at age 65 = 22 years

50% will live past 87

23% will live past 95

Will you run out of money?



Minimum risk retirement strategy

- 100% replacement ratio (after SSN and retirement contribution)
- Plan to live till age 100 (no longevity risk)
- Laddered TIPS maturities (no inflation or investment risk)

Savings needed?

23% contribution rate for 35 years = unacceptable
standard of living = 23% pay cut

* Reinvestment risk after 30 years



Example of a Very Aggressive Strategy

- 100% Equity
 - 8% return
 - 2% inflation
- 8% constant contributions
- RESULTS
 - Market risk
 - Post retirement inflation risk



PLAN B for Aggressive Strategy

- 30% equity loss at age 45
 - increase contribution from 8% to 12%
 - postpone retirement to age 69
 - reduce income replacement to 83%
 - accept longevity risk past age 84
- 30% equity loss at age 65
 - postpone retirement to age 71
 - reduce income replacement to 75%
 - accept longevity risk past age 79
- 2% unexpected inflation during retirement
 - Income replacement falls gradually to 50%



Target Date Strategy

- 100% Equity at age 30, 0% equity at age 65
- 100% replacement ratio to age 100
- 19% constant contributions
- RESULTS
 - Market risk
 - Post retirement inflation risk
 - Minimal longevity risk (plan to age 100)
 - tolerable contribution rate?



NAGDCA ANNUAL CONFERENCE 2009

PLAN B for Target Date Strategy

- 30% equity loss at age 45
 - increase contribution from 19% to 22%
 - postpone retirement to age 68
 - reduce income replacement to 92%
- 30% equity loss at age 65
 - no impact (100% bonds at age 65 assumed)
- 2% unexpected inflation during retirement
 - Income replacement falls gradually to 50%

Austin
San Antonio

NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

Target Date

- General Misperceptions*
 - Guaranteed returns
 - Secure investment with minimum risk
 - Comfortable retirement
- Target Date vs. Lifetime
 - Lifetime – glidepath ends when one dies not retires
 - Large equity allocation in lifetime funds at retirement date
 - One needs a plan B for such a fund

* Source: Behavioral Research Associates, www.behavioralresearch.com

Austin
San Antonio

NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

Hedge Funds

- Many failed or performed poorly
- Absolute return strategy is still based on skill
- Hard to evaluate skill if there is no reasonable expectation for return (as opposed to index funds)
- Fees exorbitant
- Liquidity issues

Austin
San Antonio

NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

What does it mean for plan sponsors?

- Plan design needs to facilitate participants acting as their own fiduciaries
- Auto-enrollment default needs careful consideration
 - What is the criteria for selection
 - What is the expected outcome for a participant and for the whole plan population
 - Why this criteria
 - How is it disclosed to participants

AUSTIN TEXAS
NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

Conclusion

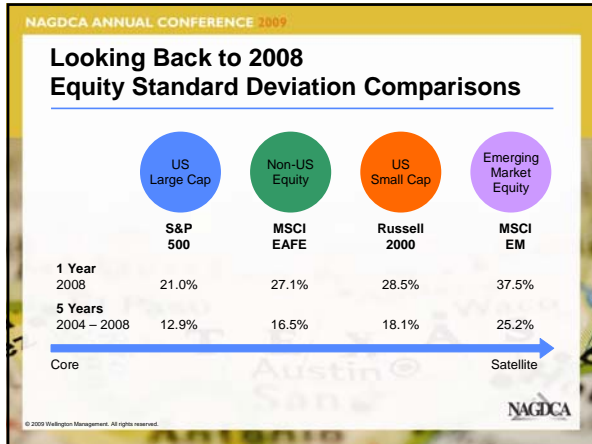
- RISKS
 - markets are risky
 - unexpected post retirement inflation is serious
 - longevity is serious
- STRATEGY
 - Understand your risks
 - Know you Plan B
- PLAN DESIGN
 - Facilitate clear and sound portfolio set up
 - Default option selection justified and its consequences communicated

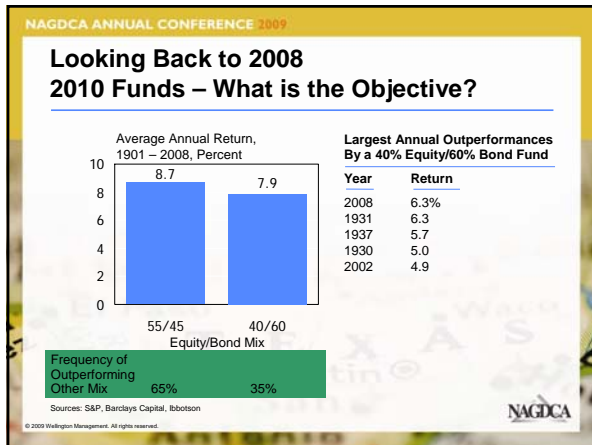
AUSTIN TEXAS
NAGDCA

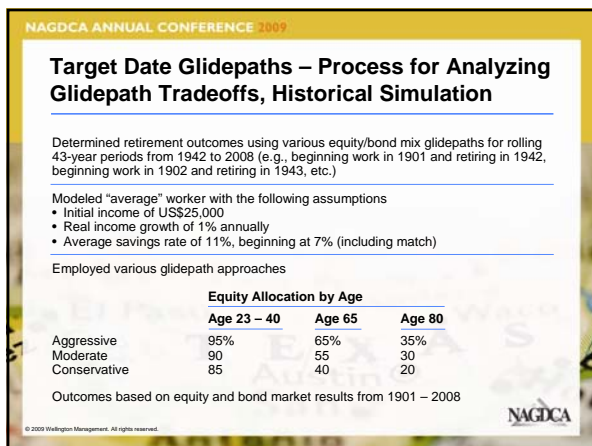
NAGDCA ANNUAL CONFERENCE 2009

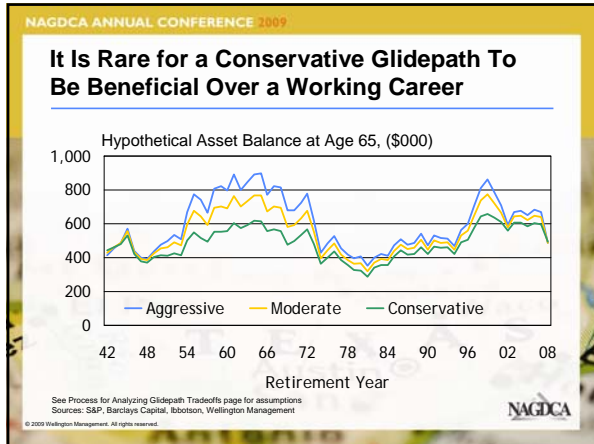
James Sia
Director, Defined Contribution
Business Development
Wellington Management Company, LLP

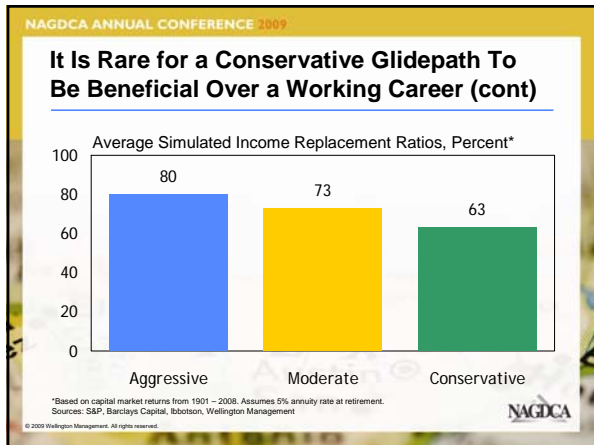
AUSTIN TEXAS
NAGDCA

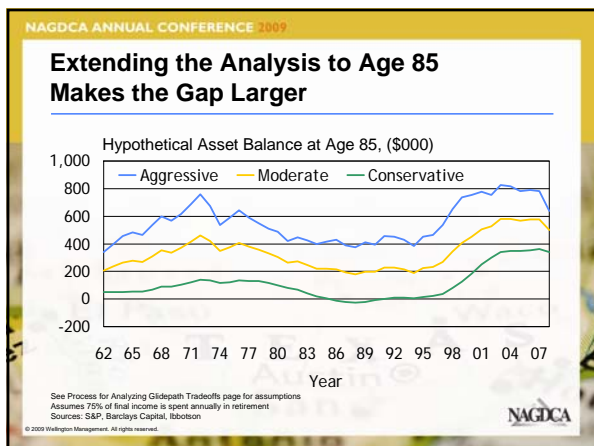


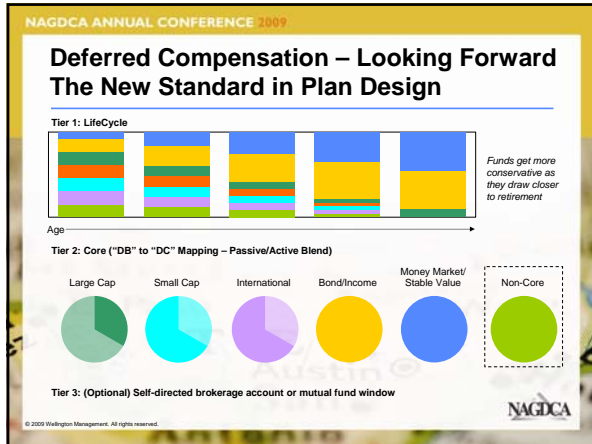


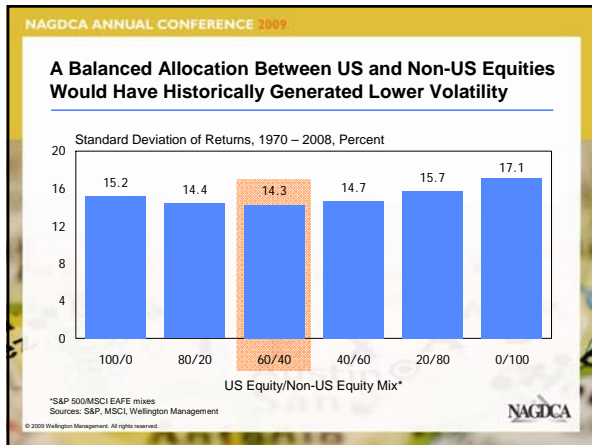


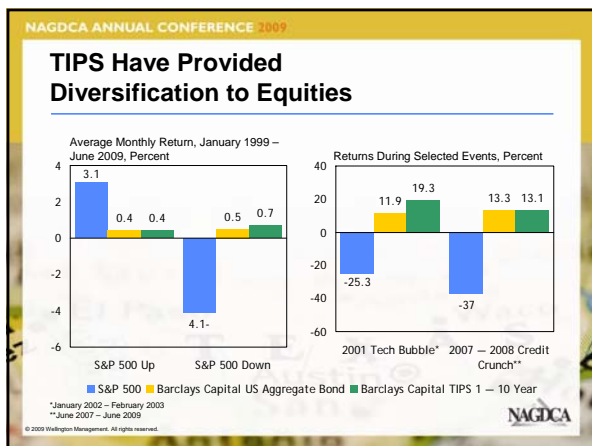












Looking Forward The Risk of Inflation

Moderate inflation (0 – 5%) is a good base case for developed economies

Disinflationary/deflationary pressures will dominate in the short run

- Longer term outlook more uneven
- Quicker return to inflation in oil and UK
- Policymakers' behavior determines average inflation

Looking Forward What Gets Us Higher than Expected Inflation?

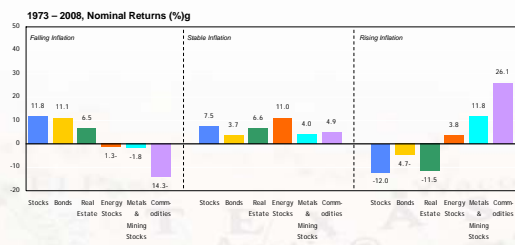
Stronger economic growth than forecast

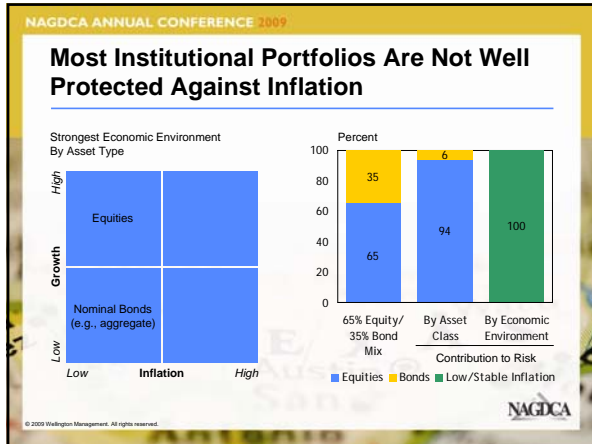
Commodity prices (especially oil) really come back

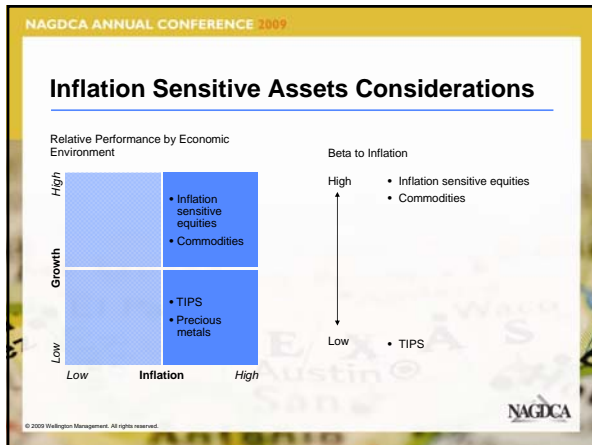
Unwinding of quantitative easing too slow: leads to excessive cumulative money supply increases

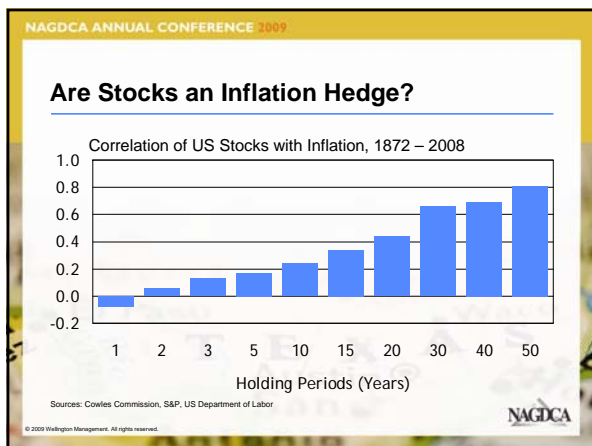
Sustained monetization of very large fiscal deficits

Rising Inflation A Headwind for Stocks and Bonds









NAGDCA ANNUAL CONFERENCE 2009

Inflation Can Impact Spending Requirements

Limited Impact ← → Significant Impact

<p>Corporate Defined Benefit Plans</p> <ul style="list-style-type: none"> • Liability driven by discount rate • Inflation reduces future liability through discount rate 	<p>Public Defined Benefit Plans</p> <ul style="list-style-type: none"> • Inflation surprise increase liability only marginally 	<p>Defined Contribution/ Endowments & Foundations</p> <ul style="list-style-type: none"> • Spending needs are "real" and therefore inflation has large impact
---	--	---

© 2009 Wellington Management. All rights reserved. NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

Inflation Has Caused the Most Painful Times to Retire

Simulated Asset Balance, Dollars (000s)

Age	Retire in 1929	Retire in 1966
65	700	700
68	500	600
71	600	500
74	800	400
77	700	350
80	600	250
83	500	200
86	450	150
89	400	100
92	350	50
95	300	0

Assumes \$750,000 beginning asset balance with \$30,000 annual withdrawals
Source: Wellington Management
© 2009 Wellington Management. All rights reserved. NAGDCA

NAGDCA ANNUAL CONFERENCE 2009

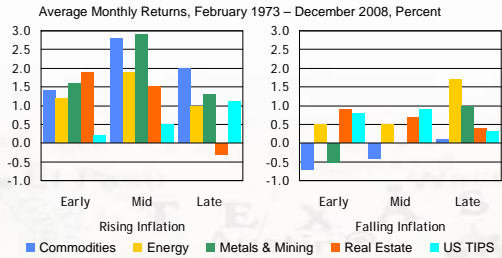
Inflation Erodes Spending Power While Contributing to Weak Asset Class Returns

Year	Value
1929	1.0
1932	1.3
1945	0.9

Year	Value
1966	1.0
1974	0.6
1982	0.3

Sources: US Bureau of Labor, Wellington Management
© 2009 Wellington Management. All rights reserved. NAGDCA

Inflation Hedging Assets Move Well Ahead of CPI



© 2009 Wellington Management. All rights reserved. NAGDCA

Inflation-Sensitive Assets Risk/Return Expectations

	Inflation-Sensitive Equities	Commodities*	TIPS
Expected return	CPI +6%	CPI	CPI +2%
Expected volatility	15%	15 – 20%	5.5%
Correlation with S&P 500	0.8	0.1	0.0
Correlation with CPI	0.2	0.3	0.2
Beta to expected inflation	High	High	Low

*Based on equal-weighted Goldman Sachs Commodity Index. © 2009 Wellington Management. All rights reserved. NAGDCA

Summary Viewpoints

Inflation is an important risk for pensions, endowments and foundations (E&Fs), and DC plans

- Creates difficult capital markets
- Increases spending needs for DC plans and E&Fs

A range of assets and strategies exist to create greater portfolio balance in inflationary periods

Asset allocation for DC plans and E&Fs should include inflation-sensitive assets while DB plans may consider it more opportunistically

© 2009 Wellington Management. All rights reserved. NAGDCA

Disclosure

Wellington Management Company, LLP is an independently owned, SEC-registered Investment Adviser that, along with its subsidiaries and affiliates (collectively, Wellington Management), provides investment management and investment advisory services to institutions around the world. Located in Boston, Massachusetts, Wellington Management also has offices in: Atlanta, Georgia; Chicago, Illinois; Radnor, Pennsylvania; San Francisco, California; Beijing; Hong Kong; London; Singapore; Sydney; and Tokyo.

This material is prepared for, and authorized for internal use by, designated institutional and professional investors and their consultants or for such other use as may be authorized by Wellington Management Company, LLP or its affiliates. This material and/or its contents are current at the time of writing and may not be reproduced or distributed in whole or in part, for any purpose, without the express written consent of Wellington Management. This material is not intended to constitute investment advice or an offer to sell, or the solicitation of an offer to purchase shares or other securities. Investors should always obtain and read an up-to-date investment services description or prospectus before deciding whether to appoint an investment manager or to invest in a fund. Any views expressed herein are those of the author(s), are based on available information, and are subject to change without notice. Individual portfolio management teams may hold different views and may make different investment decisions for different clients.



Disclosure

In the UK, this material is provided by Wellington Management International Ltd, a firm authorized and regulated by the Financial Services Authority (FSA). This material is directed only at persons (Relevant Persons) who are classified as eligible counterparties or professional clients under the rules of the FSA. This material must not be acted on or relied on by persons who are not Relevant Persons. Any investment or investment service to which this material relates is available only to Relevant Persons and will be engaged in only with Relevant Persons. Persons residing in Austria, France, and Germany are directed to contact only the Managing Director of Wellington Management International Ltd in the United Kingdom for further information.

In Hong Kong, this material is provided by Wellington Global Investment Management Limited, a corporation licensed by the Securities and Futures Commission to conduct Type 1 (dealing in securities), Type 4 (advising on securities), and Type 9 (asset management) regulated activities, on the basis that you are a Professional Investor as defined in the Securities and Futures Ordinance. By accepting this material, you acknowledge and agree that this material is provided for your use only and that you will not distribute or otherwise make this material available to a person who is not a Professional Investor as defined in the Ordinance.

In Singapore, Wellington Management conducts its financial services business through Wellington International (Singapore) Corporation (the Company) (Registration Number: 1920040070).



Disclosure

In Australia, Wellington International Management Company Pte Ltd (WIM) has authorized the issue of this material for use solely by wholesale clients (as defined in the Corporations Act 2001) of WIM or of any of its related bodies corporate, or by wholesale clients who are considering investing in funds of which WIM or any of its related bodies corporate is an investment manager. By accepting this material, a wholesale client agrees not to reproduce or distribute any part of the material, nor make it available to any retail client, without WIM's prior written consent. Wellington Management Company, LLP is exempt from the requirement to hold an Australian financial services licence (AFSL) under the Corporations Act 2001 in respect of financial services, in reliance on class order 03/110, a copy of which may be obtained at the web site of the Australian Securities and Investments Commission, <http://www.asic.gov.au>. The class order exempts a registered investment adviser regulated by the SEC, among others, from the need to hold an AFSL for financial services provided to Australian wholesale clients on certain conditions. Financial services provided by Wellington Management Company, LLP are regulated by the SEC under the laws and regulatory requirements of the United States, which are different from the laws applying in Australia.

In Japan, Wellington International Management Company Pte Ltd has been registered as a Financial Instruments Firm with registered number: Director General of Kanto Local Finance Bureau (Kin-Sho) Number 428. WIM is a member of the Japan Securities Investment Advisers Association (JSIAA) and the Investment Trusts Association, Japan (ITA).

©2009 Wellington Management Company, LLP. All rights reserved.