

# **Investing For The Long Run: Capturing the Last Pension Investment Frontier**

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**Leo de Bever, PhD  
Senior Advisor Bennett Jones  
Chairman Oak Point Energy**

**Leo.deBever@gmail.com  
+1 587 982 3835**

# Main Points

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-  Investment returns alone cannot compensate for 4-fold increase in cost of funding pensions
-  Low growth “New Normal” returns are not inevitable
-  We can build a better future by faster adoption of new technology and social infrastructure
-  Pension managers can help + increase pension returns by monetizing value of stable, LT capital
-  Must overcome resistance to change from companies, pension boards, managers, clients and regulators


# 1990-2015 Shifts in Asset Allocation and Pension Management Efficiency

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 **Larger allocations to Real Estate, Infrastructure, Private equity, Timber, has added to returns**


 But allocated capital has grown faster than good opportunities

 **Internal management can add >0.5% to net return reducing costs of building a pension by about 10%**

 0.5% matters when expected 60% stock - 40% bond real pension return is about 4%

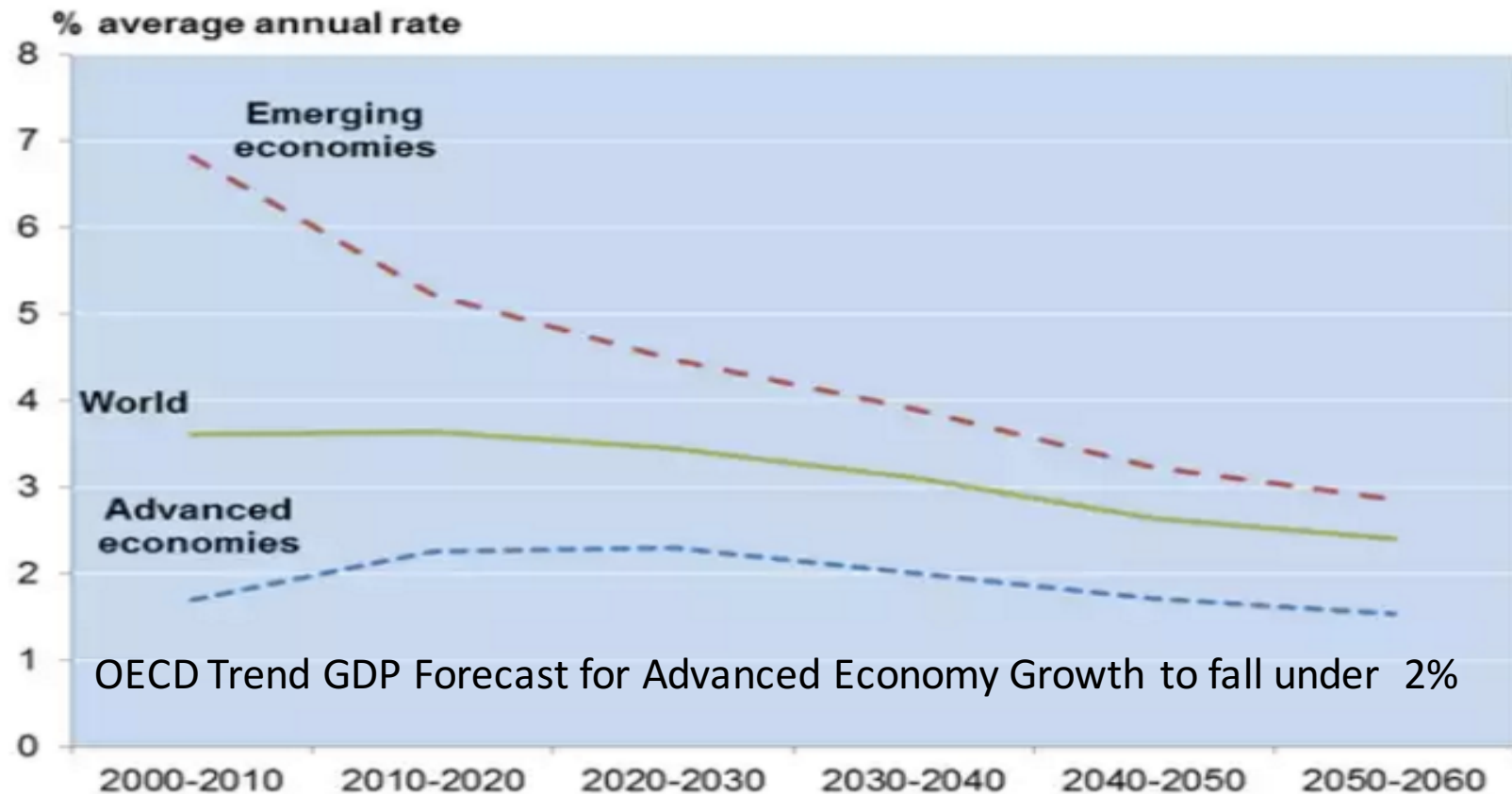
 Internal management saves 50% on cost of managing stocks and bonds

 Reduces unit cost of managing most other asset classes by ~75%

 E.g. AIMCo:      40% of budget goes to 80% of assets internally managed  
                         60% of budget goes to 20% of assets externally managed

 **The biggest under-exploited pension advantage: monetizing ability to provide stable long-term capital**

# Future “New Normal” Low Growth Reflects Underestimation of Historical GDP Growth






# Low Growth “New Normal” is in Part a Statistical Artifact



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## GDP methodology

### has trouble valuing outputs in fastest growing industries

-  Output of stuff we can touch is reasonably well measured
-  Service output often measured by inputs – hard to get productivity
-  **It severely understates the value of ideas, intangibles, e.g. the information value of a Google search, the quality of medical care, better communications**

## GDP numbers have been too low by ~0,5%/year for some time

-  Martin Feldstein estimates cumulative effect on income level estimates at ~10%
-  Inflation likely overstated by the same %: technological change is deflationary

## As historical productivity is revised upwards, future productivity forecasts will be increased as well

# Technological Change is Accelerating

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🌳 **Never have so many people had access so fast to so much of human knowledge at such a low cost**

🌳 **Smaller minimum efficient scale**

- 🌳 Allows for quick prototyping and design improvement, reducing risk of cost overruns
- 🌳 Design once, build many: cost benefits come from mass production, not equipment size

🌳 **Modular: can be built where costs are lowest**

🌳 **Mobile: can be put anywhere, for as long as needed**

- 🌳 Making it mobile also means it can be leased instead of owned

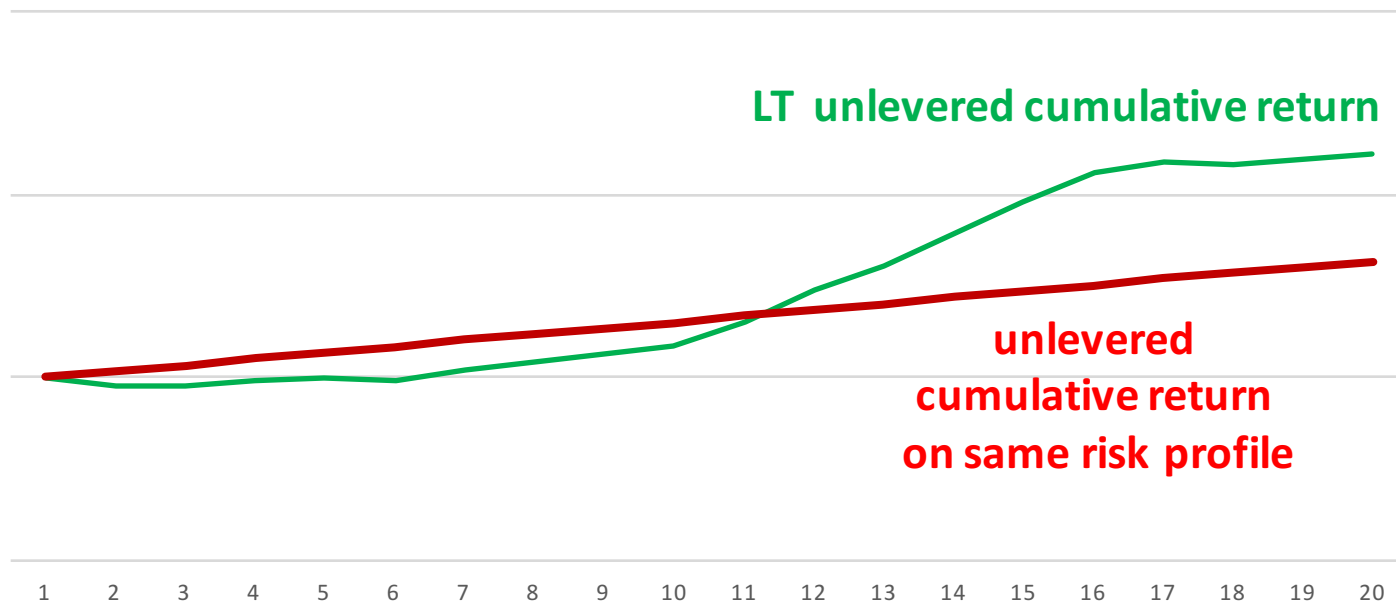
🌳 **Often combines the profitable and the desirable**

- 🌳 Including environmentally desirable

🌳 **Some changes can be adopted quickly, some have long development phase and sizeable capital needs**

# Long Term Investing: Trade-off Between LT and ST Return

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Long-term investing consists of investments that cannot be replicated with a sequence of short-term investments

# Opportunities for LT Investors

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## Commercializing new technology with long lead time

 Clean and Cleaner energy technology

 Water treatment and conservation

 More efficient and environmentally friendly energy extraction and upgrading

## Expediting adoption of new technologies

 Social cost of delaying productive technologies is high

 Private return on delay of change can be high as well

## Upgrading social infrastructure

 What we have may not be what we need going forward



# Perils of Long Run Investing

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*“[I]t is the long-term investor, he who most promotes the public interest, who will in practice come in for most criticism, wherever investment funds are managed by committees or boards or banks.*

*For it is in the essence of his behaviour that he should be eccentric, unconventional and rash in the eyes of average opinion.*

*If he is successful, that will only confirm the general belief in his rashness; and if in the short run he is unsuccessful, which is very likely, he will not receive much mercy.*

*Worldly wisdom teaches that it is better for reputation to fail conventionally than to succeed unconventionally”*

***John Maynard Keynes***

# Impediments To Be Overcome

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- 🌳 Resistance of corporations invested in old technology
- 🌳 Funding vehicles incompatible with investment horizon
- 🌳 Re-designing short-term personal reward systems
- 🌳 Reluctance of Pension Boards to follow strategies that pose headline, reputation, or personal liability risk
- 🌳 Finding ways to source opportunities that start out small but could grow to be large
- 🌳 Change Regulation to fit changing social objectives

# In a Nutshell

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Forecasts are the shadows of things that may be;  
They are not the shadows of the things that have to be

We can imagine a better future  
and set out to make it reality

Long-term pension and endowment capital  
can invest in that future at an attractive return,  
if it learns to take some new risks

We miss 100% of the shots we do not take  
It's time to take more shots