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Increase contributions	by 10% 30%	by 20% - 40%	50% agree
Increase number of contribution years	2 to 4.4 years for a retirement age between 67 and 70	5 to 10 years for a retirement age between 69 and 71	Increase retirement age; 1/3 agree Pay contributions before 25; 2/3 agree
Reduce benefits	by 19% - 26%	by 20% - 30% by lowering the conversion rate to 5,5% - 4,9%	20% agree























## Does it matter how you fund it? Pillar 1: Pay-as-you-go, commonly referred to as the opposite of "funding". In fact, funded by debt of plan provider. Just as funded as any funded plan. Pillar 2: May be funded by debt of plan sponsor (pay-as-you-go), or funded by securities issued by other entities, but in the second case, the "unfunded" portion is still funded by debt of plan sponsor. Pillar 3: Funded by definition. Pillar 4: Pay as you earn, very sound funding. Modigliani-Miller: In the absence of taxes, bankruptcy costs and agency costs, the method of financing has no affect on the value of a firm.





## Even with amortization leeway

State Universities Retirement System of Illinois, percentage of Annual Required Contributions paid into SURS:

2005	47.0%
2006	27.2%
2007	37.0%
2008	48.8%
2009	51.7%
2010	69.4%
2011	61.3%
2012	69.0%











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Longevity capital markets solutions are not yet prominent – but they are needed

Longevity capital markets solutions: what demand and supply side expect side

- Unbalanced demand and supply for longevity risk protection huge demand for protection, insufficient "natural longevity risk takers"
- Demand side wants indemnity-based solutions (no basis risk) capital markets prefer index-based solutions (larger volumes, less asymmetric information, more transparent, more liquid)
- 3. Demand side wants long-term solutions, capital markets prefer short term solutions
- 4. One bond issued in late 2010 (Swiss Re "Kortis") for USD 50 million on longevity trend risk, which would trigger in the event there is a large divergence in the mortality improvements experienced between male lives aged 75-85 in England & Wales and male lives aged 55-65 in the US.

Life re/insurers with their expertise will play a pivotal role in developing capital market solutions

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	Swiss Re III
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	Re/insurers' value proposition
	Sizable mortality husiness, expertise and access to capital markets
N	Natural hedge: Negative correlation with mortality business
间	This is not a perfect hedge due age cohorts, geographical and socio-economic differences
E	xpertise
	Life re/insurers are experts in mortality and longevity, more so than pension fund and asset managers.
Lá	ife re/insurers are often trusted names, though this depends on the Brand
Ħ	Longevity business has very long durations (30-60 years), and trustees of pension funds will weigh price against promise to pay over the long term
A	Access to capital markets
<b>19</b>	Re/insurers are increasingly relying on capital markets to offloed their peak risks and one longevity bond has been successfully launched (though it was for a small amount – USD 50 million)
A	Wility to take basis risk
M	Life re/insurers have the ability to take on the basis risks that banks prefer not to hold. Life re/insurers can provide an indemnification product, not just a hedge based on a longevity index
	Once longevity capital markets emerge, the size of this market becomes very large, very quickly
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Agenda		
	II. Italy: still difficult transition to private	pensions













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## Are the two problems related?

- Evidence of myopic behavior (minus sign on years before retirement), partially corrected by effect of awareness.
- Being informed (=have enough information) about prospective income provides a strong incentive to plan for retirement.
- > This appears to be the priority, rather than providing future pensioners with financial education.



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Assicurazioni Generali "Are future pensioners systemically important?" distriction of the Lorenzo Savorelli, Head of Research and Development. Wirth R erc. 81 (5) y na de la compañía En compañía de la comp yn Bl w. 644 den Mana Geneva Association, Four Pillar Conference, December 3-4, 2012

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Conclusion	Allianz 🕕
Due to less children and longer lives, families and public pay-as-you-go systems will not provide the current level of social protection going forward.	
Therefore private and individual saving processes must fill this gap. They will gain importance.	
However, increased regulation and low-interest-rate policies of central banks limit the effectiveness of the third pillar.	
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- The Travellers Insurance began in the mid-1980s to prepare employees for an active retirement.
- It started a job agency for its retired employees who accepted to work on temporary assignments (maternity leaves, sickness, holidays).
- For the same hourly fees, these people are more productive than 'normal' temps as they know the insurance business inside out.
- The job agency took on employees from, and hired temps to, other insurers. It is now independent.

## The positive 'side'-effects of a continued activity beyond the 'age of retirement'

- Continued professional activity reduces the risk of Alzheimer and other dementia illnesses (Shigeaki Hinohara, Japanese MD, lifelong learning).
- Multi-lingual people have a similar 'bonus'.
- Continued physical activity keeps the body fit.
- Continued social activity prevents loneliness.
- Psychologists study why elderly people are as performing as younger ones (Von Tobel Prize 2012).







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Slide 8	
a1	It is a very good idea to have a comparison here!!!!; let's think how to visualise it. There must be an even better way. abuecker, 04/03/2012

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## The Good Working Life Project

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2000, "The Good Working Life," project initiated with local authorities association KL and public sector union FTF.

Aim – motivate teachers to stay employed instead of taking early retirement.

Survey showed that only a few teachers intended to say till 65.

Survey showed that changing work content, reducing working hours and other initiatives would have an impact on intentions to stay







- · Survey showed much stress and burn out.
- Now many teachers are sent on 2 week course, "educated and guided" in how to handle difficult children with behavioural problems or difficulties adjusting to their environment.
- Free consultations with psychologist offered all teachers under pressure.



