

First EU Stress Test for Occupational Pensions

Press Conference Frankfurt, 26 January 2016

OBJECTIVES OF THE EXERCISE



- ✓ To produce a comprehensive picture of the heterogeneous European occupational pensions landscape.
- ✓ To test resilience of defined benefits (DB) and hybrid pension schemes against adverse market scenarios and increased life expectancy.
- To identify potential vulnerabilities of defined contribution (DC) schemes.
- ✓ To reveal areas that require further supervisory focus.

AIM OF STRESS TEST



What *is the aim* of EIOPA stress test?

- ✓ A tool to assess resilience and potential systemic risk posed by financial institutions
- ✓ A set of severe "what if" scenarios aimed at testing pension schemes against adverse market and pension-specific shocks

What **is not the aim** of EIOPA stress test?

- \checkmark It is **not** a pass-or-fail exercise for IORPs
- ✓ It is **not** a repair exercise





European Economic Area countries with material IORP sectors that took part in the exercise

17 countries: Austria, Belgium, Cyprus, Germany, Denmark, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Slovakia, Slovenia, Spain, Sweden and the United Kingdom

Threshold for participation: over EUR 500 million in assets

Defined Benefit and hybrid schemes	140 IORPs	Over 50% of total assets in almost each country
Defined Contribution schemes	64 IORPs	Over 50% of total assets or number of members in almost each country





- 1. Reference date: 31 December 2014
- **2. Twofold assessment:**
 - National Balance Sheet Mixture of heterogeneous approaches to value assets and liabilities, usually not market-consistent
 - ✓ EIOPA Common Methodology Market consistent valuation, in particular for liabilities uses realistic assumptions and market risk-free rate for discounting
- **3. Pre-stress scenario:** situation of DB/Hybrid and DC pension schemes under the macroeconomic environment at the reference date (i.e. low interest rates and challenging demographic evolution)

RESULTS UNDER DIFFERENT SCENARIOS (Excess of assets over liabilities)

Scenario	NBS	EIOPA Common methodology
DB/Hybrid pre- stress	-78 bn EUR	- 428 bn EUR
DB/Hybrid Market Adverse 1	- 373 bn EUR	- 755 bn EUR
DB/Hybrid Market Adverse 2	- 346 bn EUR	- 773 bn EUR
DB/Hybrid Longevity	- 164 bn EUR	- 526 bn EUR

Important elements to consider:

- ✓ Liabilities have a very long-term nature
- ✓ Regulatory regimes usually include substantial recovery periods
- Future gaps can usually be covered by **sponsor's contributions** and/or **benefit adjustment** mechanisms

CONCLUSIONS FOR DB/HYBRID MODULE

- elopa
- IORPs are relatively more resilient to the permanent decrease of 20% in mortality rates than to market adverse scenarios (both under NBS and Common methodology assessment).
- 2. Under NBS assessment, **IORPs appear to be more vulnerable to a severe drop in assets prices** (adverse market scenario 1).
- 3. Under the Common methodology, **IORPs appear to be more** sensitive to an abrupt drop in interest rates and an increase of inflation rates (adverse market scenario 2).
- Need to further analyse how prolonged adverse market conditions will affect the sponsors' behaviour and what can be the consequences for financial stability and the real economy.

CONCLUSIONS OF DC SATELLITE MODULE

- 1. The impact in the level of pensions is highly dependent on the time that plan members have before retirement.
- 2. Eldest plan members have the highest pension wealth and the least time to recover from price falls of assets.
- 3. Low interest rates make it more expensive to convert accumulated pensions wealth into annuities.
- 4. Retirement income of youngest plan members is overall the most heavily impacted by long-term low return on assets.





- To further develop a deeper understanding of the impact of the pressures in the pensions sector on financial markets and the real economy
- To continue working on a common market-sensitive methodology towards the valuation of assets and liabilities for the purposes of stress testing
- To continue providing an up-to-date picture of the European Union pensions landscape, including the different prudential mechanisms used to deal with the identified risks and vulnerabilities

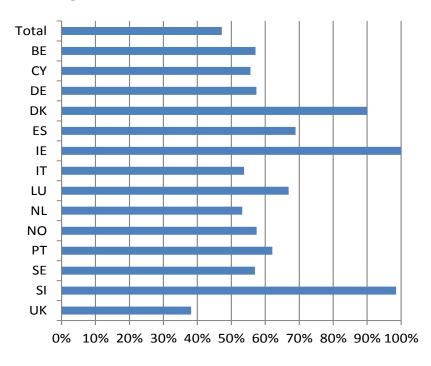


Technical Background Slides

Market coverage in stress test sample



Market coverage for DB/hybrid schemes (in % of total assets of the DB/hybrid IORP sector)

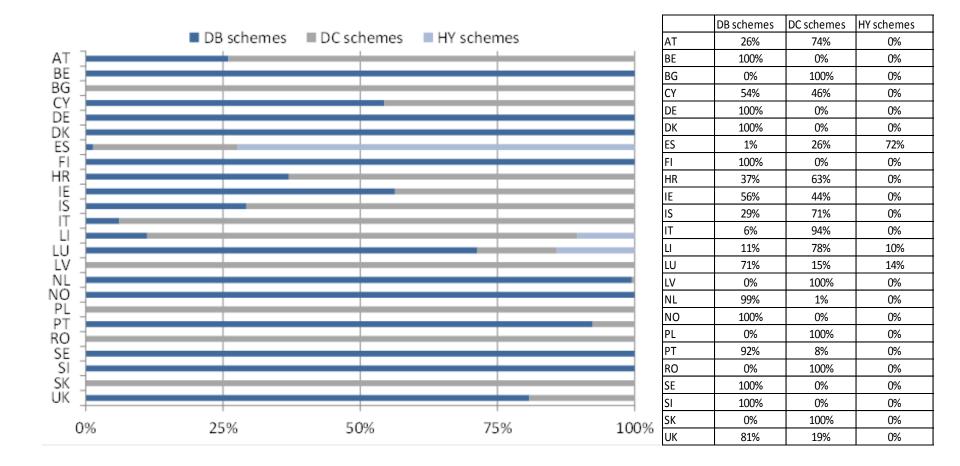


Market coverage for DC schemes (in % of total assets and total number of members of the DC IORP sector)



TYPES OF PENSION SCHEMES PER COUNTRY (in % of total assets)





Pensions Stress Test framework

Module	Elements
DB/Hybrid schemes	 Adverse market scenario 1 –drop in assets prices (more severe than in scenario 2) and a decrease in interest rates and a decrease in inflation rates Adverse market scenario 2 – drop in asset prices, drop in interest rates (more severe than in scenario 1) and an increase in inflation rates 1 increased longevity scenario
DC satellite: differentiated impacts on the income of plan members which are 35, 20 and 5 years before the expected retirement date	 2 Asset price shock scenarios (identical to adverse market scenarios 1 and 2 for DB/Hybrid schemes) 2 low return scenarios 1 increased longevity scenario (identical to longevity for DB/Hybrid schemes

Pre-stress conclusions for DB and Hybrid module



IORPs' funding should be interpreted in combination with factors such as:

- long-term nature of liabilities
- substantial recovery periods
- existing security and benefit adjustment mechanisms

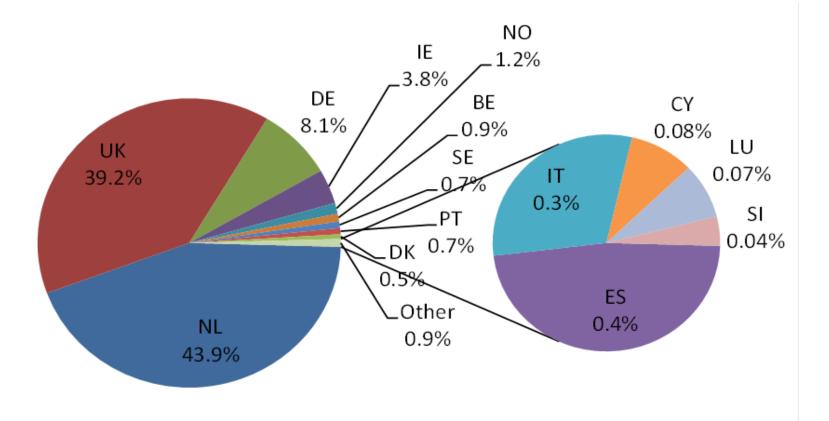
Excess of assets over liabilities before any stress	
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As per National Balance	As per EIOPA Common
Sheets (NBS) assessment	Methodology*
5% of liabilities	24% of liabilities
(i.e78 bn euros)	(i.e428 bn euros)
 Hardly comparable due to	 Fully comparable due to application
divergent valuation standards Heterogeneous picture	of common standard Less heterogeneous picture

* In this case excluding benefit reductions, sponsor support and PPS

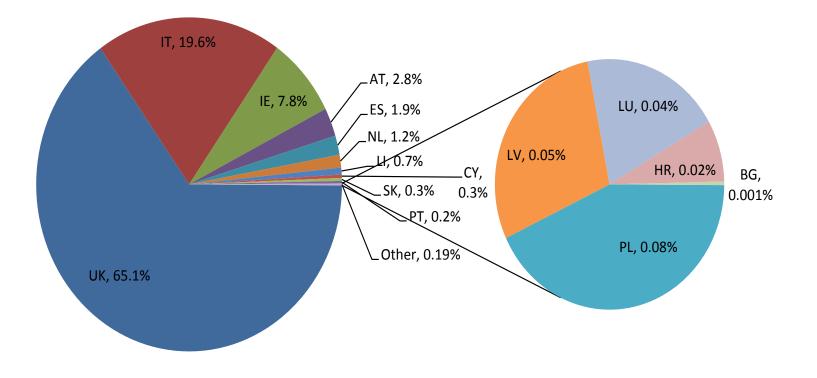
Countries' contribution to the DB sample





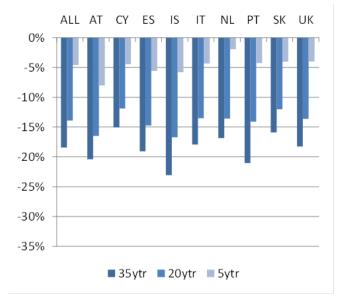
Distribution of Assets in the European DC sector



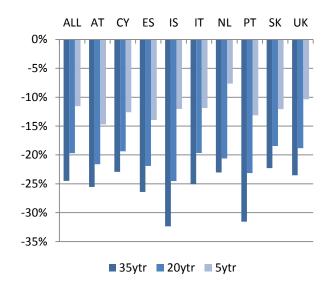


DC satellite module: Impact on Replacement Rates

rates - Typical pay-out method







Source: EIOPA

Note: Decrease of replacement rates, in relative terms. Index built as follows: (Replacement rate stressed -Replacement rate baseline)/Replacement rate baseline.

Summary of scenarios tested in DC satellite module



• Five scenarios

- Two shock scenarios (identical to DB/Hybrid adverse market scenarios 1 and 2)
- ✓ Two low return scenarios*
- One longevity scenario (identical to DB/Hybrid longevity scenario)

* Instead of stressing the current values of assets, the low returns scenarios incorporate a downward shift in risk premiums on these assets. Interest and inflation rates shocks are identical as considered in the two shock scenarios.

Main stress impacts in low return scenarios

Impact on long-term risk premiums	Long 1	Long 2
Government bonds	-25 bps	-20 bps
Corporate bonds (and other fixed income)	-20 bps	-35 bps
Equities, property, alternatives	-150 bps	-100 bps
Cash and deposits	-	-

Summary of scenarios DB / Hybrid



Main stress impacts in adverse market and longevity scenarios

	Adverse market 1	Adverse market 2	Longevity
EU property (price downward shock)	-55%	-36%	-
EU stock prices (price downward shock)	-45%	-33%	-
EU government bonds (spread widening)	120 bps	67 bps	-
Corporate bonds (spread widening)	120 bps	204 bps	-
Euro-dollar exchange rate	+20%	-2%	-
Mortality rates (permanent decrease)	-	-	- 20%

