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St. John's Colloquium 2016
IPEBLA, IACA, PBSS, IAAHS Joint Conference

Collective Defined Contribution: "Torn between 2 lovers: DB or DC"

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The Netherlands

- Some facts:
 - 37,354 km²: 18% water, 82% land
 - 17M inhabitants (= aver. 550 inh./km² ground)
 - Approx. 1,200 qualified actuaries
 - 110 registered qualified to certifying

The Netherlands



Dykes: 18,000 kms = 3 x The Great Wall

Windmills: 1,200

Tulips: 7B /yr



Dutch pensions = high quality International surveys

International rankings NLD:

- MGPI 2015: 2 / 25
- Allianz Pension Sustainability Index 2014: 5 / 50
- Allianz Retirement Income Adequacy 2015: 1 / 49

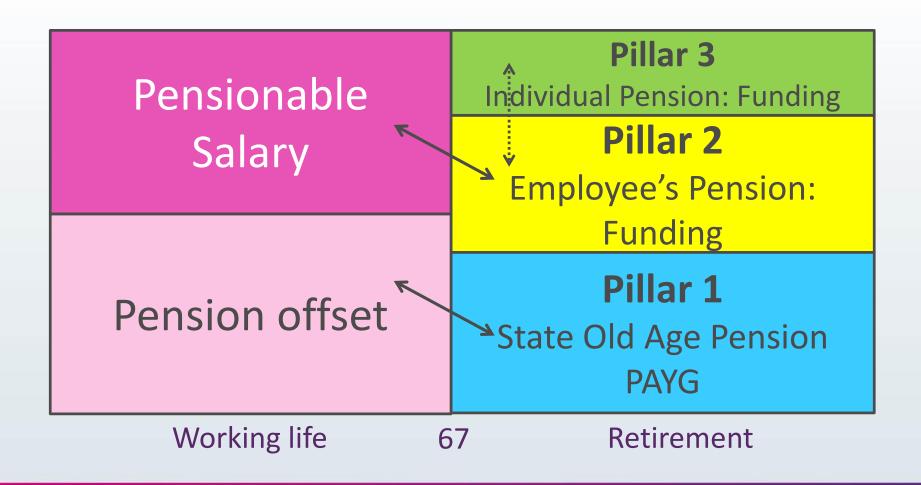
Most countries reflect to AUS, CAN, UK or USA as the benchmark for pension systems:

- MGPI 2015: AUS 3, CAN 7, UK 9, USA 14
- Allianz PSI 2014: AUS 1, CAN 12, UK 10, USA 8
- Allianz RIA 2015: AUS 35, CAN 12, UK 14, USA 6

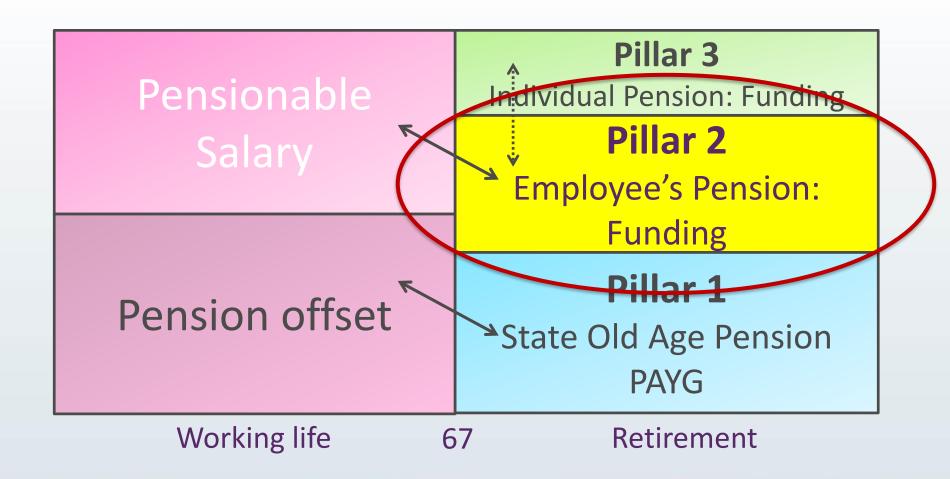
Mercer Global Pension Index 2015

No.	Country	Index value	Adequacy	Sustainability	Integrity
1	Denmark	81,7	(4) 77,2	(1) 84,7	(6) 84,5
2	Netherlands	80,5	(2) 80,5	(2) 74,3	(2) 89,3
3	Australia	79,6	(1) 81,2	(4) 72,1	(3) 87,6
7	Canada	70,0	79,4	56,2	74,3
9	UK	65,0	64,2	51,3	85,5
10	Singapore	64,6	55,7	65,9	77,2
14	USA	56,4	55,1	54,4	61,1
21	Indonesia	48,3	41,3	40,1	70,8
22	China	48,0	62,7	29,8	50,0
23	Japan	44,1	48,8	26,5	61,2
24	Korea (South)	43,8	43,9	41,6	46,8
25	India	40,4	30,0	39,9	57,6
	Average	60,5	63,8	48,2	72,6

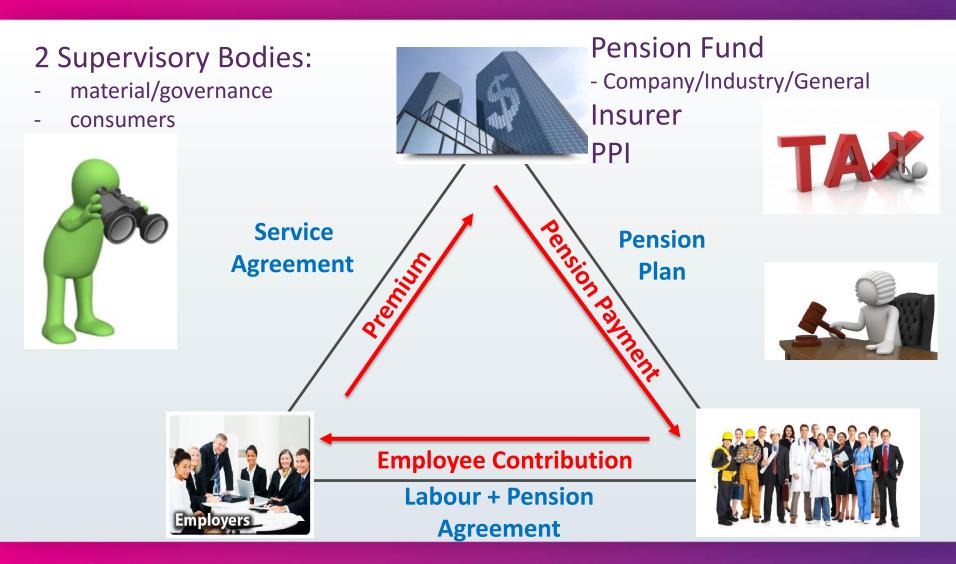
3 Pillar Pension System



Pillar 2 Pension: E'ee – E'er



Dutch Pensions: Parties involved



Dutch Pensions: Parties involved



Pension Law: pension is domain of social partners
Labor Law: equal treatment = no discrimination on age, gender, marital status)



Supervise execution of Pension contract:

- Solvency
- Risk Management
- Financial reporting
- Governance
- Consumers protect.



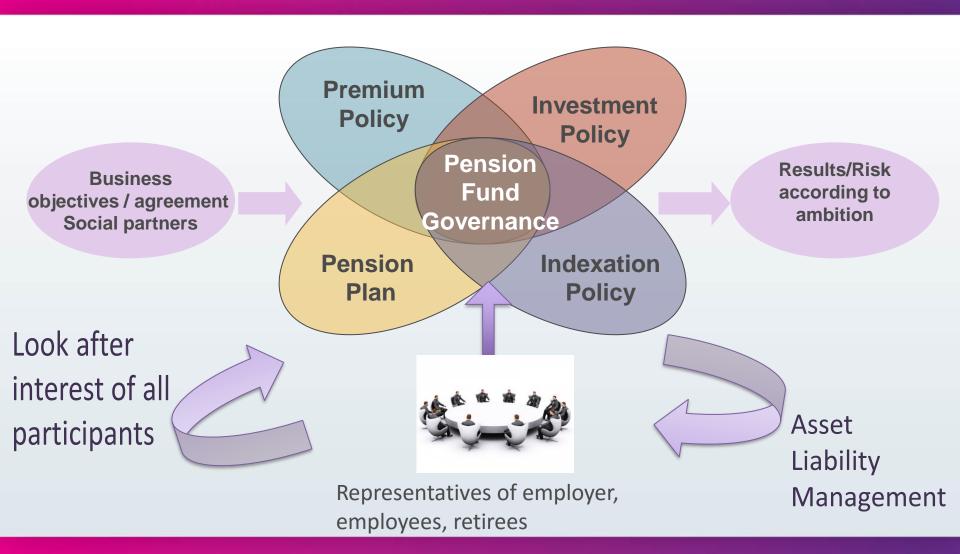
Fiscal Law:

- framework for pension plan design:
- taxation: 'EET' principle

Pillar 2: Fiscal limits

- Salary:
 - < 2015: unlimited salary</p>
 - ≥ 2015: max.salary = EUR 100,000 (indexed)
- Minimum offset: EUR 12,953 (2016)
 - 100/75 x Pillar 1 Pension married person
- Maximum accrual:
 - $< ^22000: 40 \times 1.75\% = 70\%$ FinalPay65
 - ~2000 2013: 44 x 2.25% = 99% AveragePay \approx 75% FP65
 - $-2014:44 \times 2.15\% \approx 95\% \text{ AP} \approx 70\% \text{ FP65}$
 - $-2015+:46 \times 1.875\% = 86\% \text{ AP} \approx 65\% \text{ FP67}$

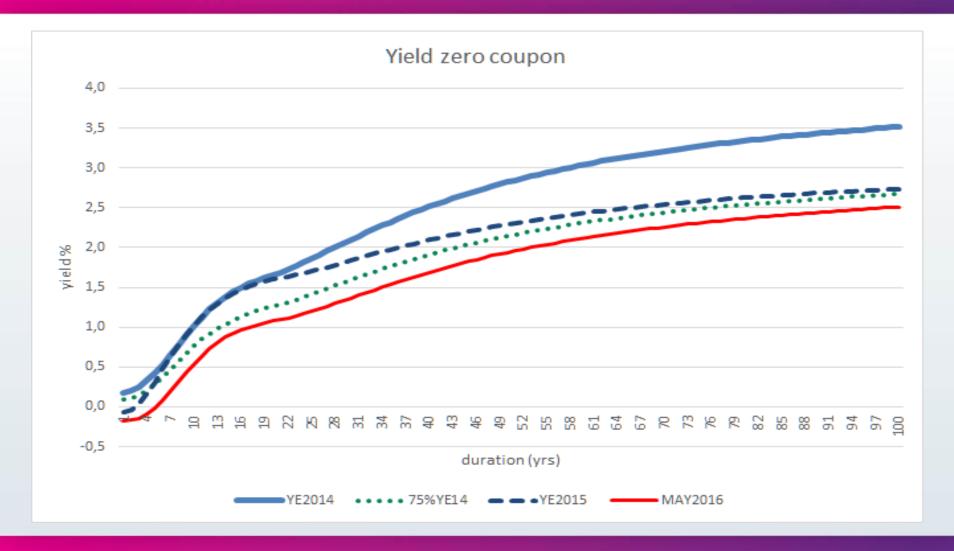
Execution of Pension Plan by PF



How does a Dutch PF work?



Pension Funds: Discount rate + UFR



Definitions IAS 26

Defined contribution plan:

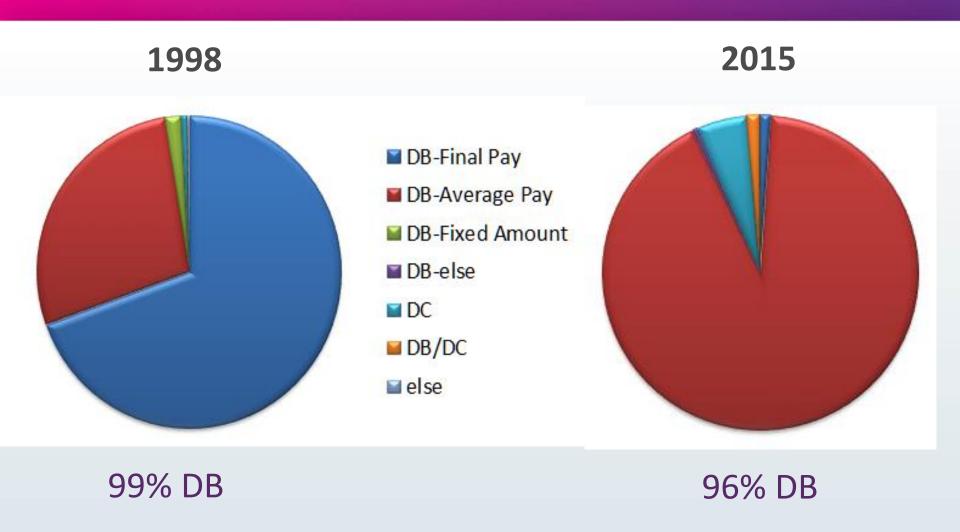
A retirement benefit plan by which benefits to employees are based on the amount of funds contributed to the plan plus investment earnings thereon. [IAS 26.8]

Frascanada.ca: An actuary's advice is not normally required although (...)

Defined benefit plan:

A retirement benefit plan by which employees receive benefits based on a formula usually linked to employee earnings. [IAS 26.8]

Pillar 2 Pension schemes: FP \rightarrow AP

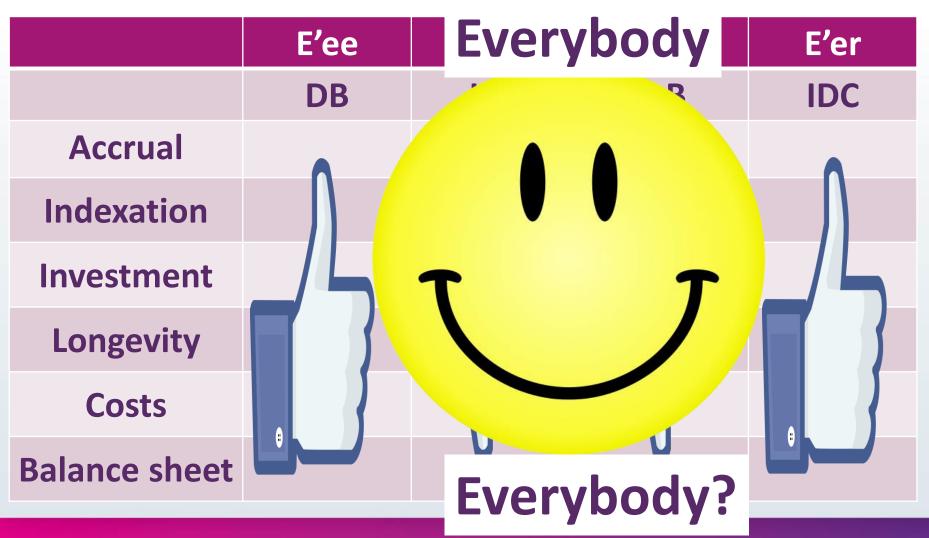


Source: DNB

Risk distribution DB vs Indiv.DC

	E'ee	E'ee	E'er	E'er
	DB	IDC	DB	IDC
Accrual	A			A
Indexation		0		
Investment				
Longevity		4/-	4/	
Costs				
Balance sheet		U	U	

Looking for the right mix



The solution is Collective DC (CDC)

- From the employer's perspective now DC:
 - Contribution is a fixed % of salary sum
 - No future additional payments,
 - But also no future benefits!
- From the employee's perspective still DB:
 - Conditional or ambitious accrual
 - Annual accrual based on average pay pension
 - But the level of accrual may differ each year

Example: E'ee + E'er = 25% Sal.

Year	Price 1.875% accrual	Real accrual in year	Price for indexation	Donation for reserving
1	20%	1.875%	2%	3%
2	25%	1.875%	-	-
3	30%	1.563% (1)	-	-
3 alt.	30%	1.674% (2)	-	-2%
4	32%	1.465% (3)	-	-
4 alt.	32%	1.465% (3)	1%	-1%
Etc.				

 $(1) = 1.875\% \times 25/30$; $(2) = 1.875\% \times 25/(30-2)$; $(3) = 1.875\% \times 25/32$

Best of 2 worlds?

The **employer** gets what he wants:

- Fixed contribution as % of salary sum
 - his share approx. 15 20% of salary sum
- No longer expensive IFRS calculations
- No liabilities on the Balance Sheet => higher value of company => profit for share holders
- Premium in P&L is real contribution

So at least the employer is satisfied!!

Best of 2 worlds?

The **employee** still has:

- a DB pension, although
 - No guaranteed level accrual ☺
 - No guaranteed level indexation ☺
 - Perhaps a nice 'dowry' may compensate some of this uncertainty ©.

Example: E'ee + E'er = 25% + dowry E'er 50% -----

Year	Price 1.875% accrual	Real accrual in year	Price for indexation	Donation for reserving
1	20%	1.875%	2%	3 +50 %
2	25%	1.875%	2%	-2%
3	30%	1.875%	2%	-7%
4	32%	1.875%	2%	-9%
5	33%	1.875%	2%	-10%

Check on IAS 26

Defined contribution plan:

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Some companies with CDC plan

(year introduction & 'dowry')





2005; EUR 300M



2005; EUR 105M



2013; EUR 750M



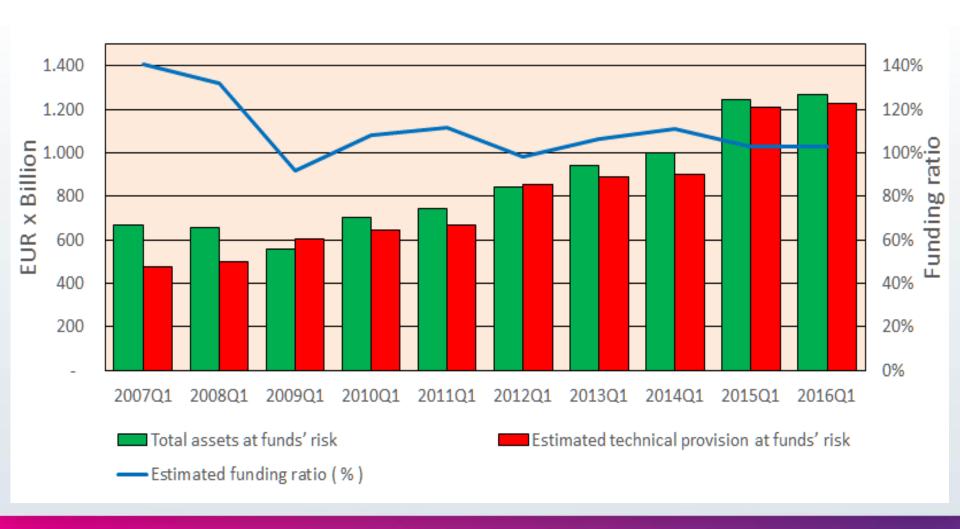






2015; EUR 30M

Dutch Pension Funds Funding Ratio 2007-2016



Source: DNB

Future of CDC in NL

- More and more listed (AEX, NYSE) Dutch companies will shift to CDC as:
 - Employer's contributions will rise due to:
 - Increasing longevity
 - Decreasing discount rate
 - Increasing average age of participants
 - Danger of additional contributions to rescue PF for low funding ratios
 - Shareholders' pressure

To be considered elsewhere?

• Global:

- Mature markets: large pillar 1 or DC in pillar 2
- Upcoming markets: start-up with DC plans (why?)

Employees:

- guaranteed pensions → some (97.5%) secured level of retirement income and less poverty for the elderly
- unions decide the level of annual accrual, indexation, investment policy, building buffers, etc.

Employers:

- no additional obligations (but also no benefits!)
- easy pricing of products and services

Conclusion

- The Netherlands is a country of compromises (politics, labour) and now also in pensions:
 - The employer:
 - No blank cheque
 - No pension liability on company Balance Sheet
 - The employee:
 - Rather DB than DC
 - Rather still guarantees even when conditional
 - As CDC is profitable for the E'er, the E'ee may also benefit by means of dowry from E'er.
 - The actuary: still needed for his advice and calculations

So ...

- The E'er knows what he wants (DC), but unions are still some anxious for full IDC:
 - The elderly: DB is profitable
 - The youngsters: IDC may be more profitable but DB is still quite convenient => they are 'torn between 2 lovers'

Thank you for your attention!



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 - Sections: PBSS, IACA, AWB
 - Member of Education and Professionalism Committee