PENSION & ACTUARIAL CONSULTING

Консультируем с 1993 года

Pensions at a Glance 2019

Ежегодный обзор ОЭСР

Февраль 2020 года

Актуальность и цели проекта

PENSION & ACTUARIAL CONSULTING

Ежегодный обзор
по пенсионной тематике,
подготовленный ОЭСР

Ключевые факты и
индикаторы, позволяющие
сравнивать пенсионную
политику развитых стран

Ссылка на оригинал

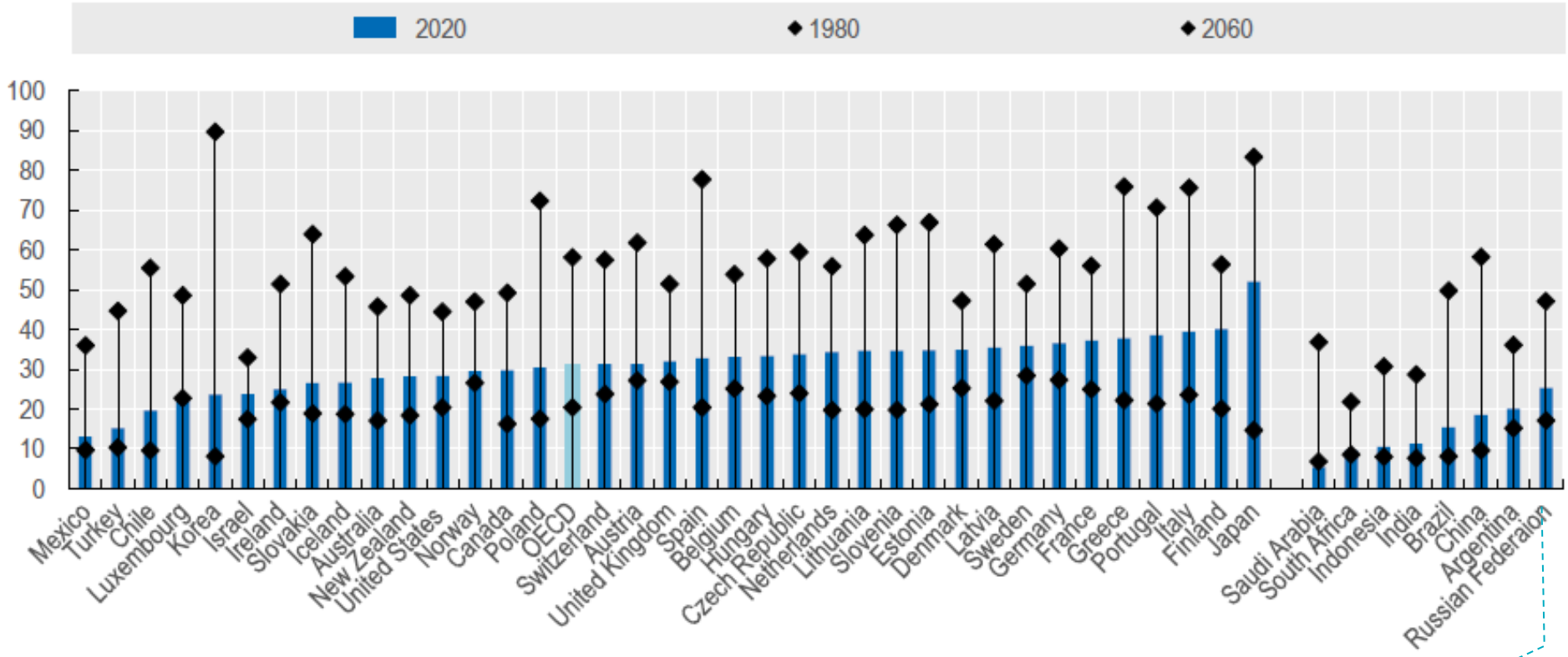
Демографическое соотношение

между трудоспособными (20-64) и лицами старшего возраста (65+)

PENSION & ACTUARIAL CONSULTING

Figure 1.2. **The average old-age to working-age ratio will almost double in the next 40 years**

Number of people older than 65 years per 100 people of working age (20-64), 1980-2060



Source: United Nations World Population Prospects: The 2019 Revision.

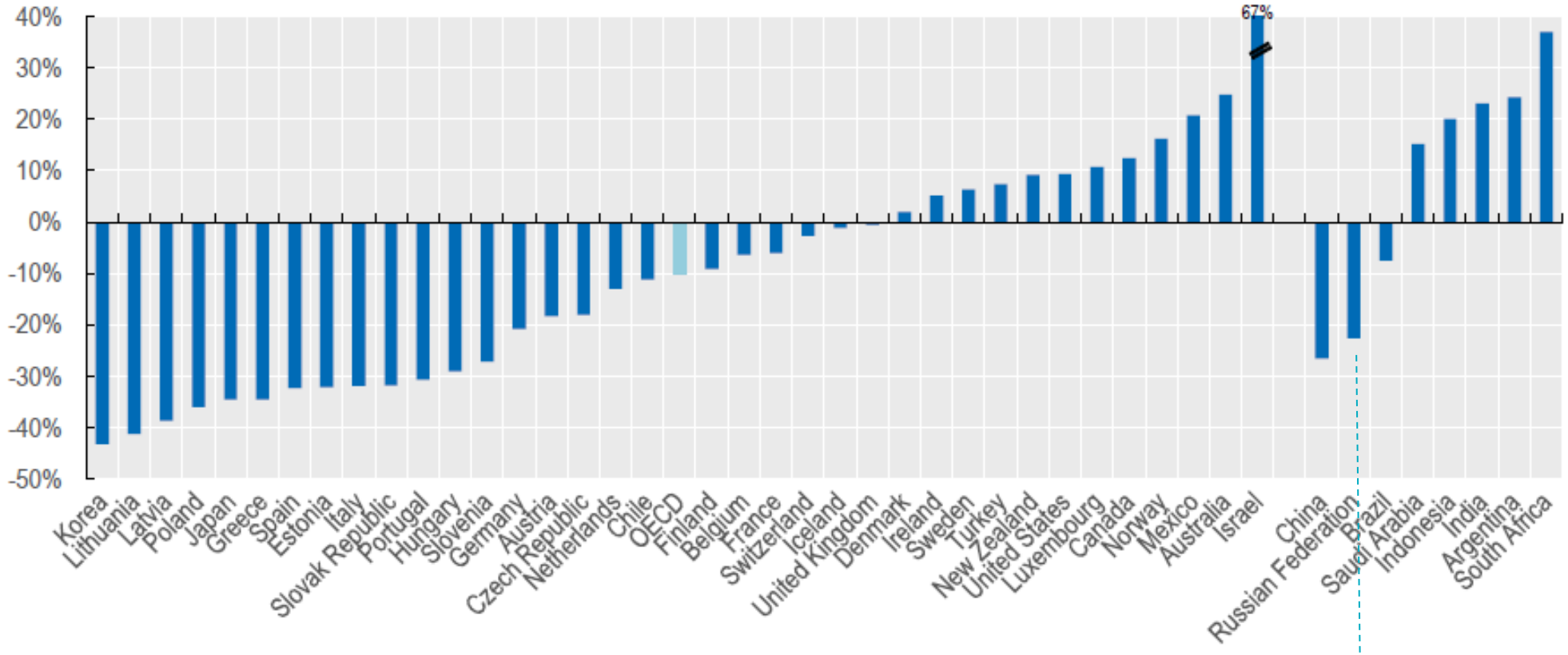
По прогнозам ОЭСР демографическая соотношение между трудоспособными и лицам в старших возрастах РФ ниже среднее европейских показателей

Изменение численности трудоспособных к 2060 году

PENSION & ACTUARIAL CONSULTING

Figure 1.3. **The working-age population will decline in a large number of OECD countries**

Change in the working age population (20-64), 2020-2060



Source: United Nations World Population Prospects: The 2019 Revision.

Численность население РФ в трудоспособном возрасте будет снижаться

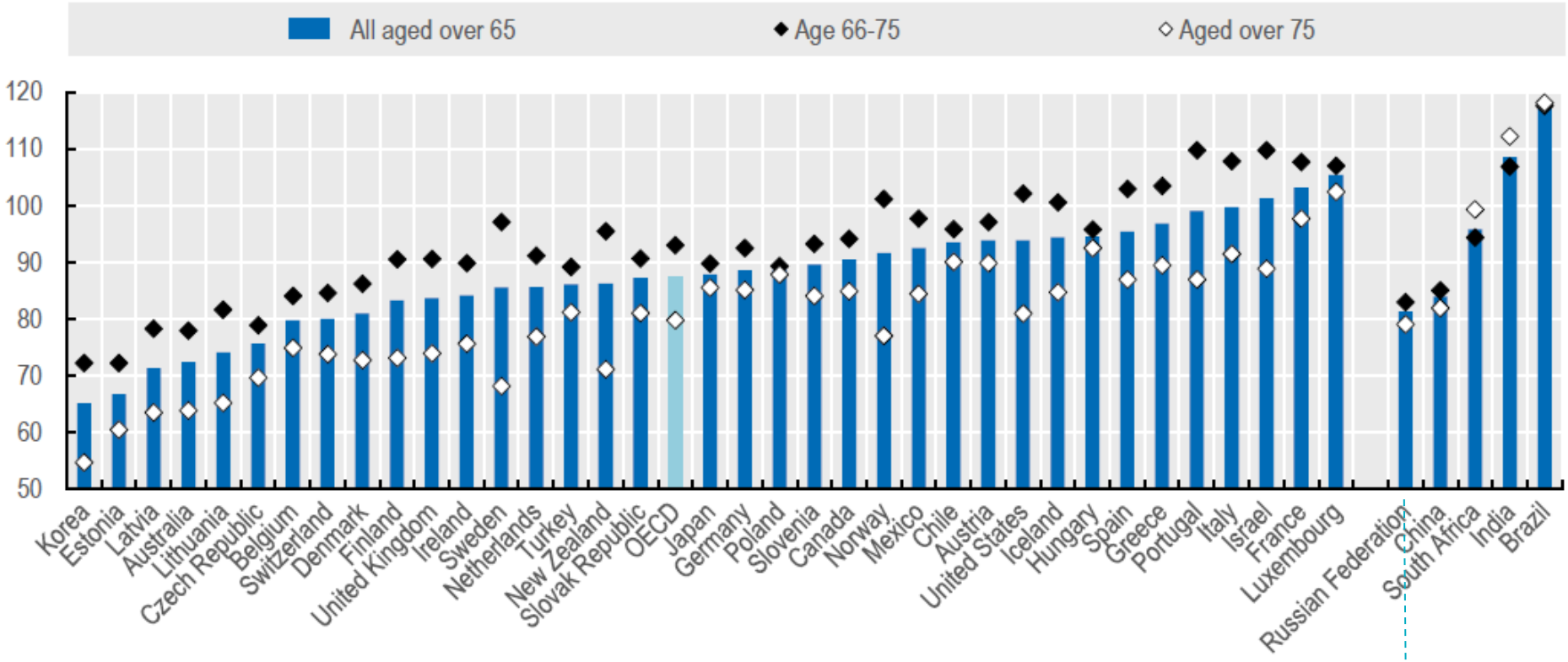
Уровень дохода лиц старшего возраста

В % от среднего дохода по стране

PENSION & ACTUARIAL CONSULTING

Figure 1.5. **Disposable incomes of older people**

Incomes of people aged over 65, % of total population incomes



Note: 2016 or latest available year. All income from employment, self-employm ncluded. Incomes are measured on a household basis and equivalised with the square root equivalenc usehold size.
Source: Table 7.1, OECD Income Distribution Database.

Незначительная дифференциация размеров пенсий в зависимости от возраста

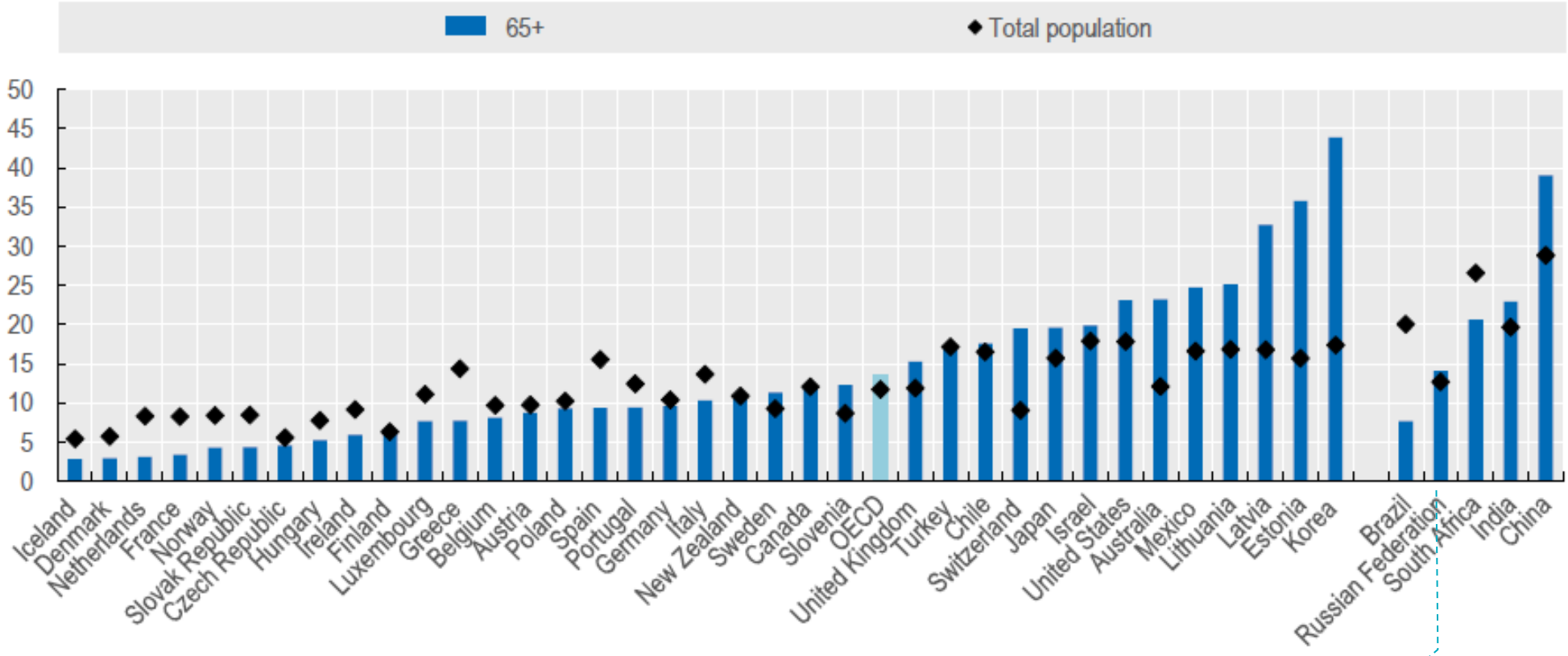
Уровень бедности

В среднем и в старших возрастах

PENSION & ACTUARIAL CONSULTING

Figure 1.7. **Poverty rates among older age groups and the total population**

Relative poverty rates, %, 2016



Уровень бедности одинаков для пенсионеров и для всего населения

Note: Relative poverty is defined as an income below half the national median equiva

Source: Table 7.2.

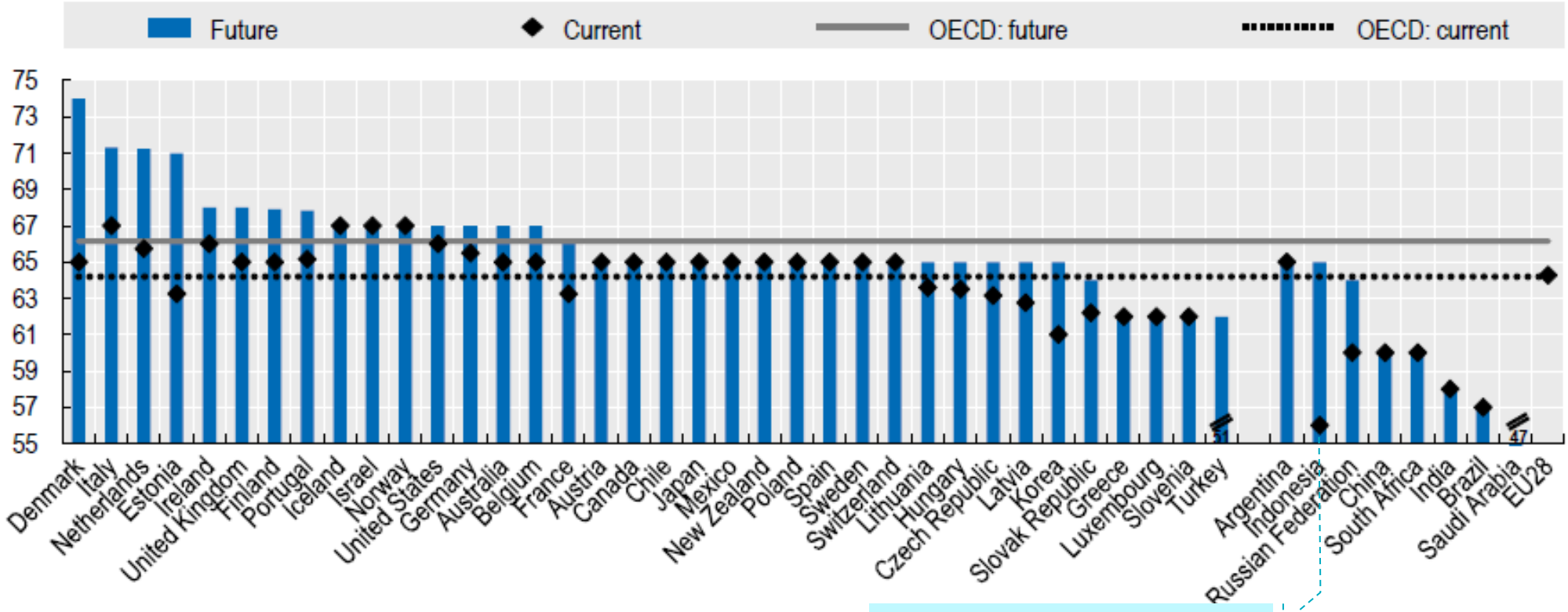
Пенсионный возраст у мужчин

Текущий и с учетом ожидаемых изменений

PENSION & ACTUARIAL CONSULTING

Figure 1.10. **The normal retirement age is rising in many OECD countries**

Normal retirement age for men entering the labour market at age 22 with a full career

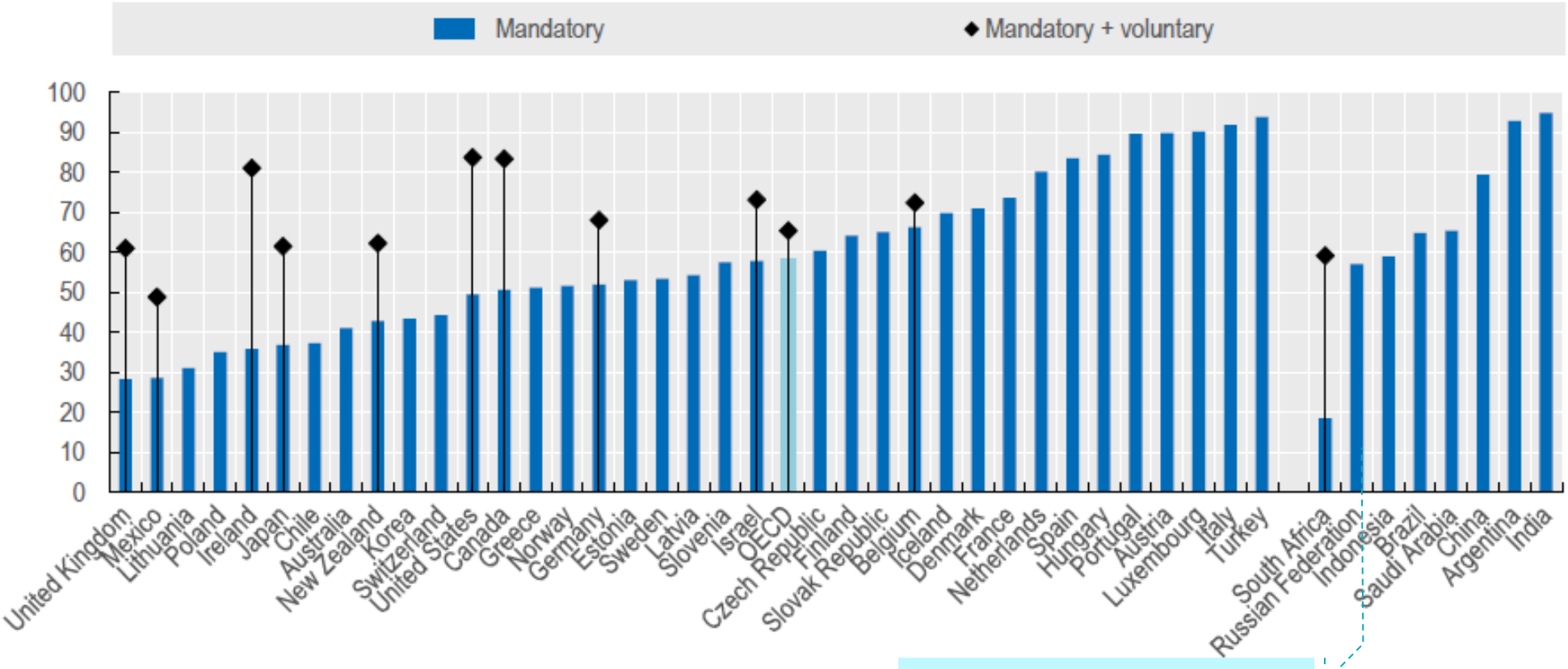


Повышение пенсионного возраста выводит РФ на текущий средний для стран ОЭСР уровень

Коэффициент замещения при условии полной занятости со средеий зп

PENSION & ACTUARIAL CONSULTING

Figure 1.13. **Future net replacement rates for full-career average-wage workers**



По оценкам ОЭСР пенсионная формула в РФ для средней зарплаты при полной карьере должна обеспечивать коэффициент замещения 60%

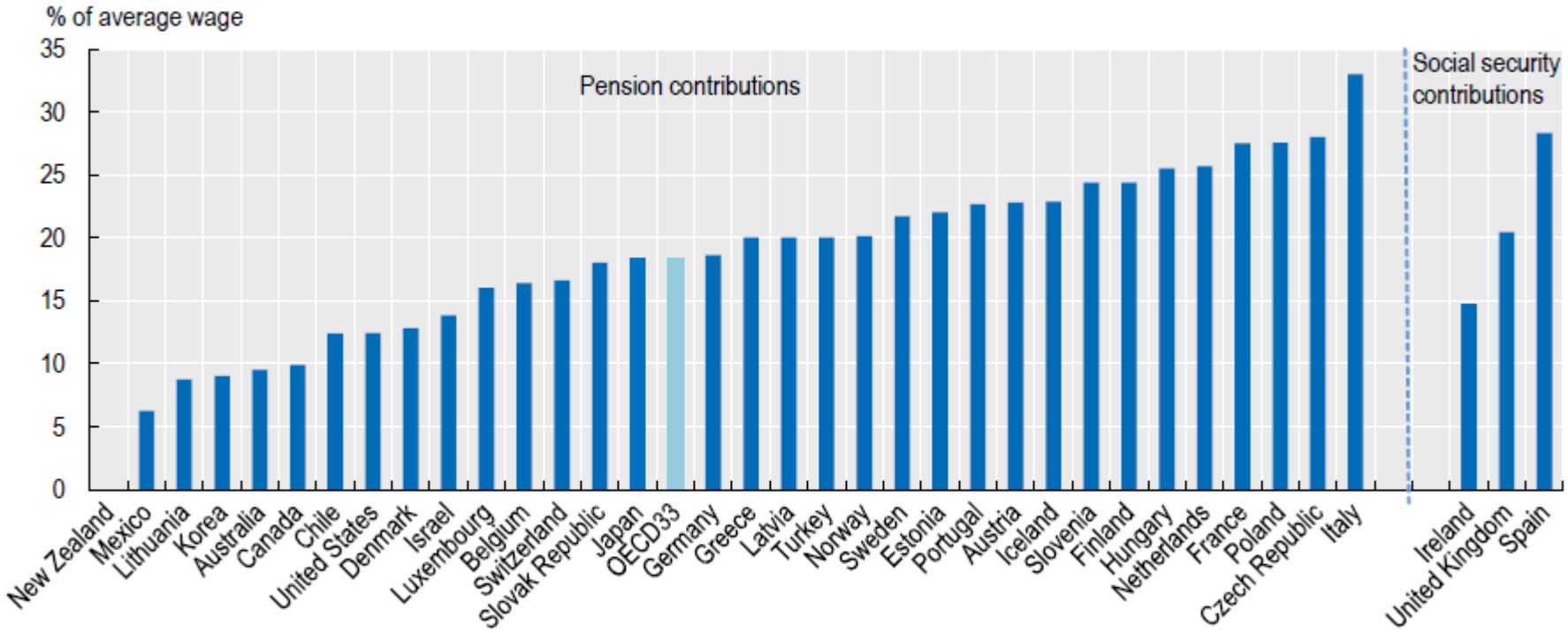
Размер страховых взносов в странах ОЭСР

PENSION & ACTUARIAL CONSULTING

В ряде стран выплачиваются пенсии по инвалидности

Figure 1.15. **Pension contribution rates differ widely among countries**

Total effective mandatory and quasi-mandatory pension contribution rates for dependent workers, at the average wage, 2018



Note: In Austria, the Czech Republic, Denmark, Finland, Germany, Iceland, Italy, Luxembourg, Poland, Slovenia and the United States contribution rate also finances disability or invalidity benefits.

Source: Tables 8.1 and 8.2 in Chapter 8.

Автоматические подстройки в пенсионной формуле

PENSION & ACTUARIAL CONSULTING

Table 1.1. **Automatic adjustments in mandatory schemes, OECD countries**

	Funded defined contribution scheme (1)	Notional defined contribution scheme (2)	Benefits linked to life expectancy in DB or points (3)	Benefits linked to financial balance, demographic ratios or wage bill (4)	Retirement age linked to life expectancy (5)	Share of replacement rate affected by automatic link[1] (6)
Australia	●					99.8%
Austria						
Belgium						
Canada						
Chile	●					100%
Czech Republic						
Denmark	●				●	100%
Estonia	●			●	●	100%
Finland			●		●	100%
France						
Germany				●		100%
Greece						
Hungary						
Iceland						
Ireland						
Israel	●					71.4%
Italy		●			●[2]	100%
Japan			●	●		100%
Korea						
Latvia	●	●				100%
Lithuania				●		100%
Luxembourg				●		83.3%
Mexico	●					100%
Netherlands				●	●	100%
New Zealand						
Norway	●	●				100%
Poland		●				100%
Portugal			[3]		●	100%
Slovak Republic	[4]					
Slovenia						
Spain			●[5]	●		100%
Sweden	●	●		●		100%
Switzerland						
Turkey						
United Kingdom						
United States						
Number of countries	9	5	3	8	6	Average: 51.5%

Note: 1. For average-wage earner under the best-case scenario. 2. Measure suspended until 2026 for some occupations. 3. Portugal has a sustainability factor but it only applies to early retirement. 4. The Slovak Republic has switched between mandatory funded DC pension, auto-enrolment and voluntary pensions (currently it can be decided before age 35 whether one-third of mandatory contributions go to the points or funded DC scheme). 5. Measure suspended until 2023 or until a new decision is made.

9 стран ОЭСР реализуют накопительные программы (DC) в качестве базовой пенсионной системы. Расчет пенсии осуществляется с учетом продолжительности жизни в момент выхода на пенсию (аннуитет)

5 стран ОЭСР реализуют условно-накопительные программы (NDC) в качестве базовой пенсионной системы

3 страны ОЭСР учитывают продолжительность жизни в пенсионной формуле DB или NDC/points

8 стран ОЭСР в пенсионной формуле учитывают финансовый баланс, демографию и изменение заработной платы

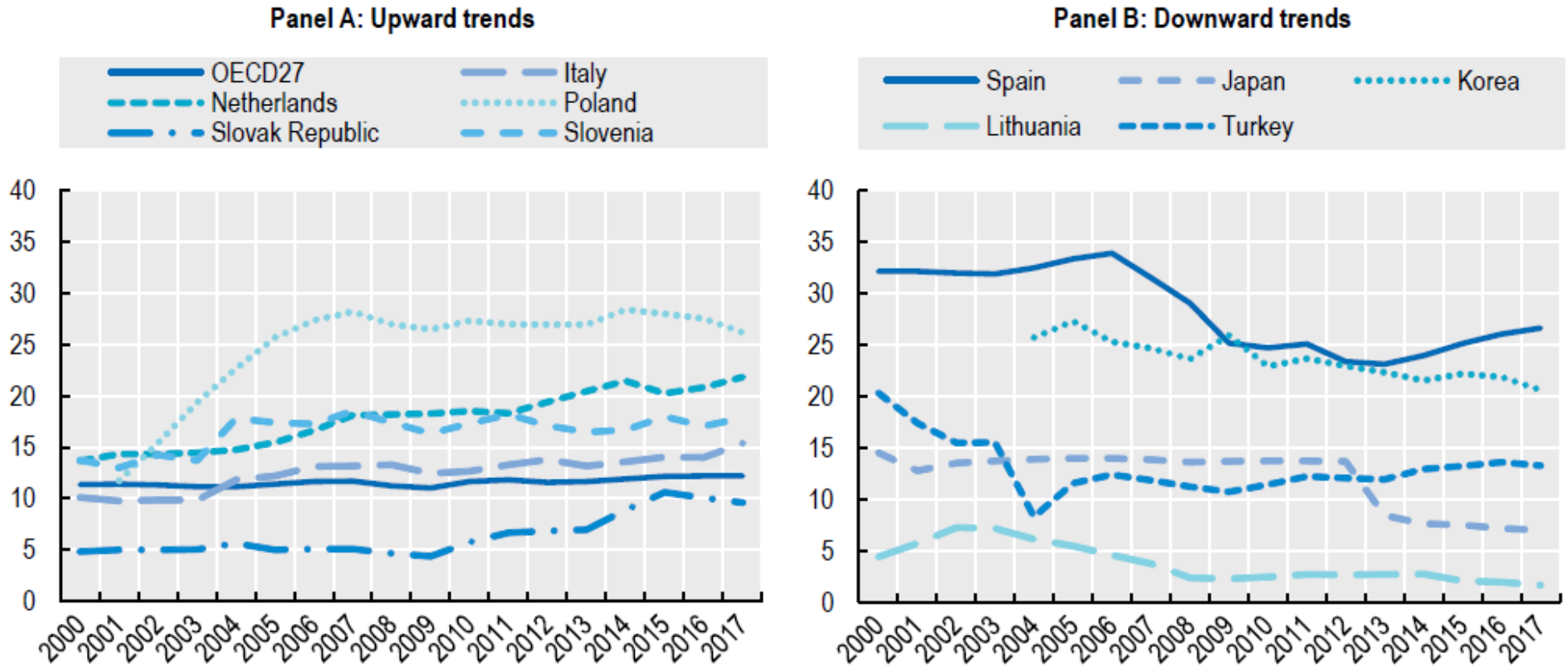
6 стран ОЭСР определяют пенсионный возраст с учетом ожидаемой продолжительности жизни

Временная занятость в общей численности трудоспособных

PENSION & ACTUARIAL CONSULTING

Figure 2.1. **Trends in temporary employment differ across countries**

Temporary employment as a share in total employment in selected OECD countries, 2000-17, % of dependent employment



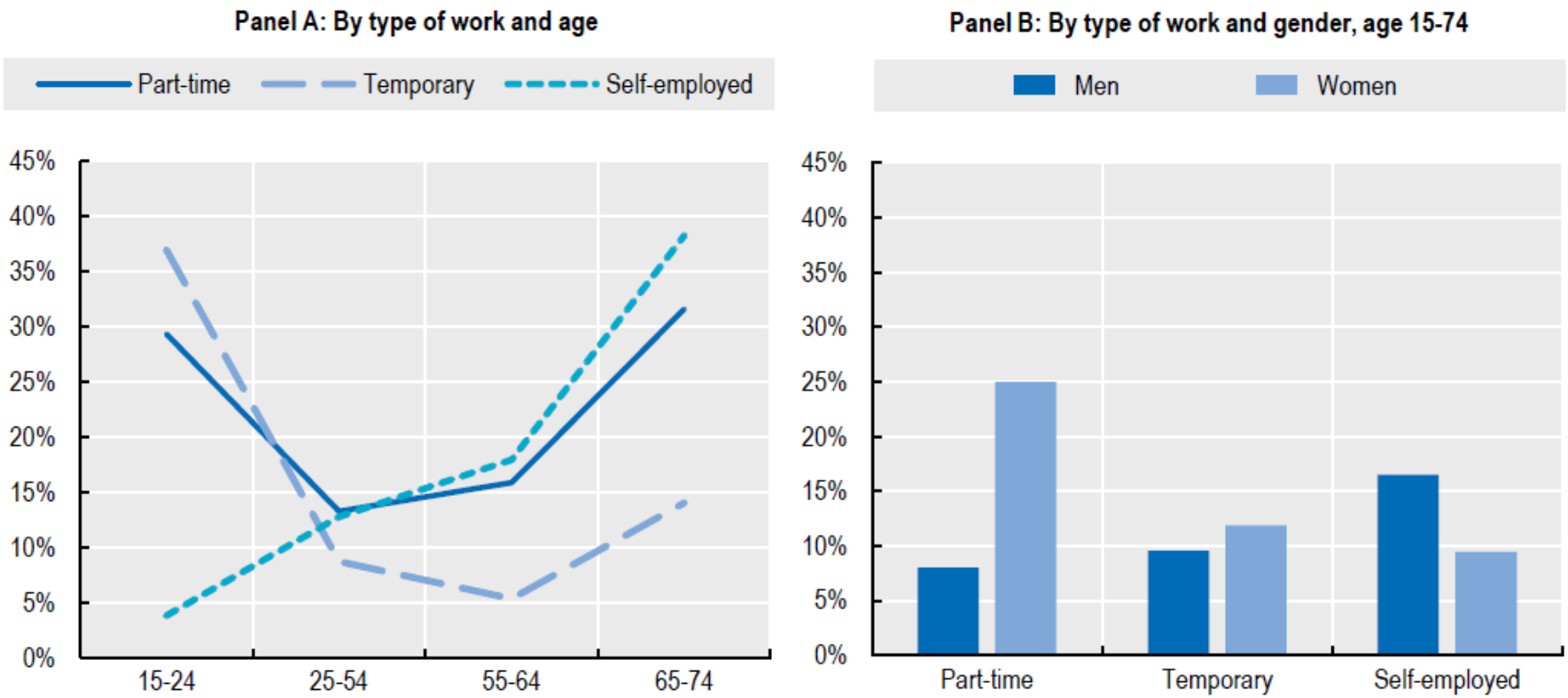
Note: Countries selected based on the outstanding dynamics.
Source: OECD Labour Force Statistics.

Временная занятость – по видам и возрастам

PENSION & ACTUARIAL CONSULTING

Figure 2.2. **Self-employment and part-time employment are more common among older workers**

% of employment, average across 26 OECD countries, 2018



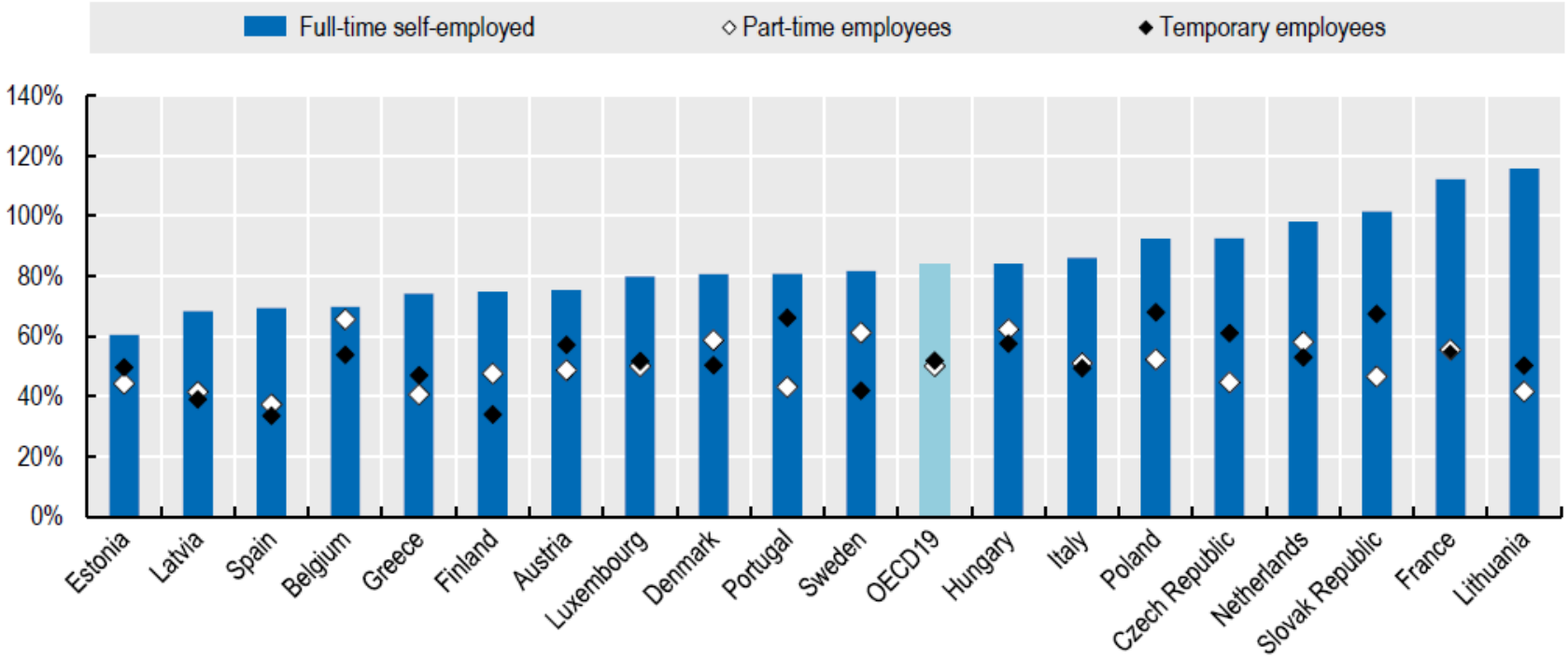
Note: For temporary and part-time employment data are shown for the 65+ instead of the 65-74 age-group due to data availability. Definitions of part-time work differ slightly between OECD and Eurostat.
Source: Eurostat.

Уровень доходов по видам занятости

PENSION & ACTUARIAL CONSULTING

Figure 2.3. **Non-standard workers earn substantially less than standard workers**

Annual median gross labour income of non-standard workers relative to standard workers, 20-60 year-olds, 2016



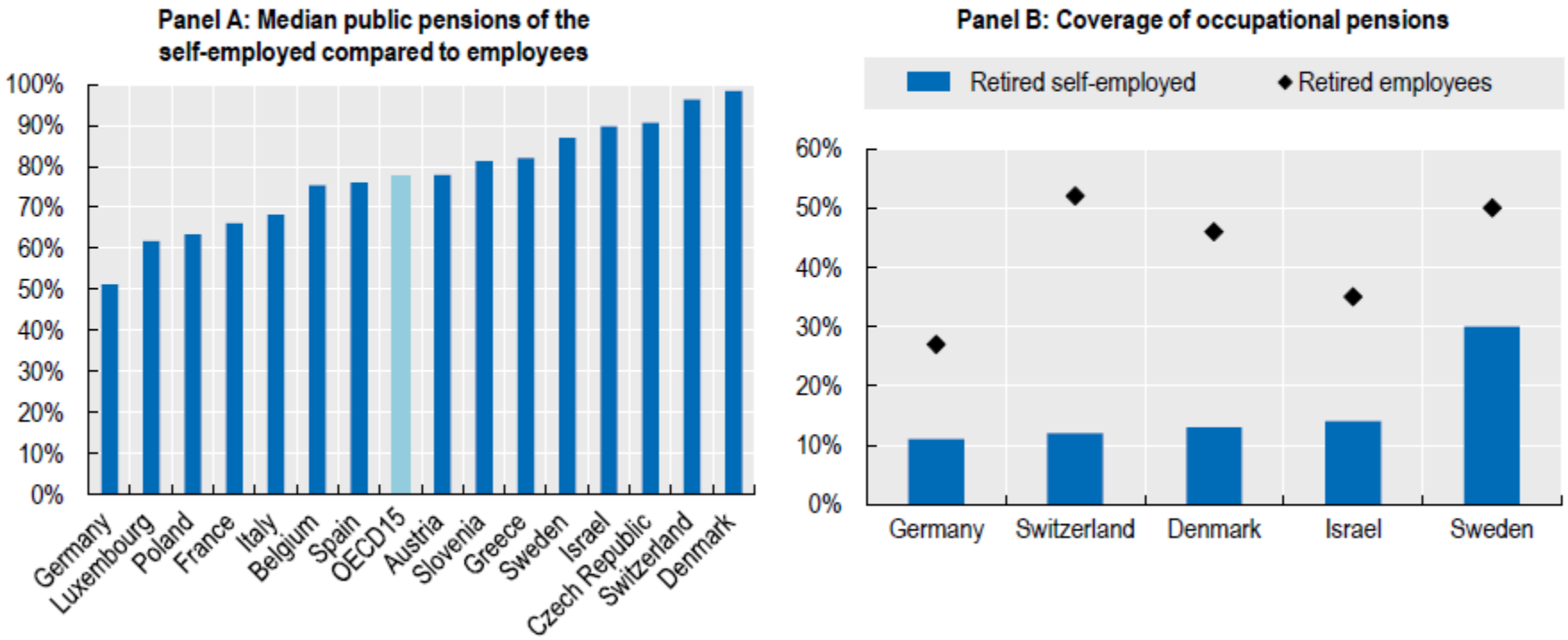
Note: Full-time self-employed and part-time workers are only included in the calculation if they have been in the same employment status for at least 12 months. They are compared to dependent employees working full-time over the past 12 months. Median income of temporary workers is compared to the income of the permanent workers. Income refers to yearly total cash income. Only observations with positive income are included.

Source: EU-SILC, 2017.

Сравнение уровня пенсий: самозанятые vs наемные

PENSION & ACTUARIAL CONSULTING

Figure 2.6. **Retired self-employed individuals receive lower public pensions and are less often covered by private occupational pensions**



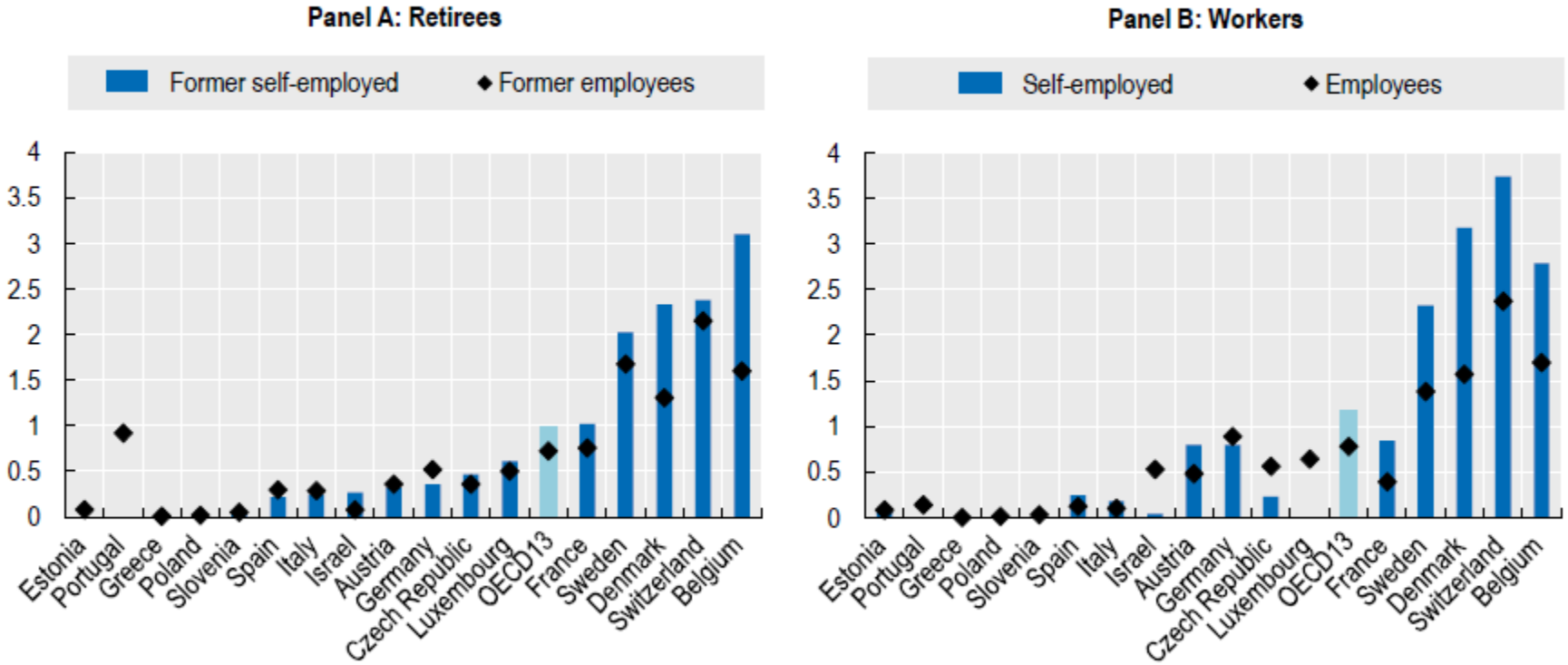
Note: Population 50+, 2017 or 2015. Coverage of occupational pension not shown if lower than 10% among retired employees.
Source: OECD computations based on data of Pettinicchi and Börsch-Supan (2019[13]), originally computed with the SHARE survey data.

Сравнение налогооблагаемых активов: самозанятые vs наемные

PENSION & ACTUARIAL CONSULTING

Figure 2.7. **The self-employed have slightly more assets than employees when they retire**

Median liquid assets-to-income ratio, annual income, workers 50+, 2017 or 2015

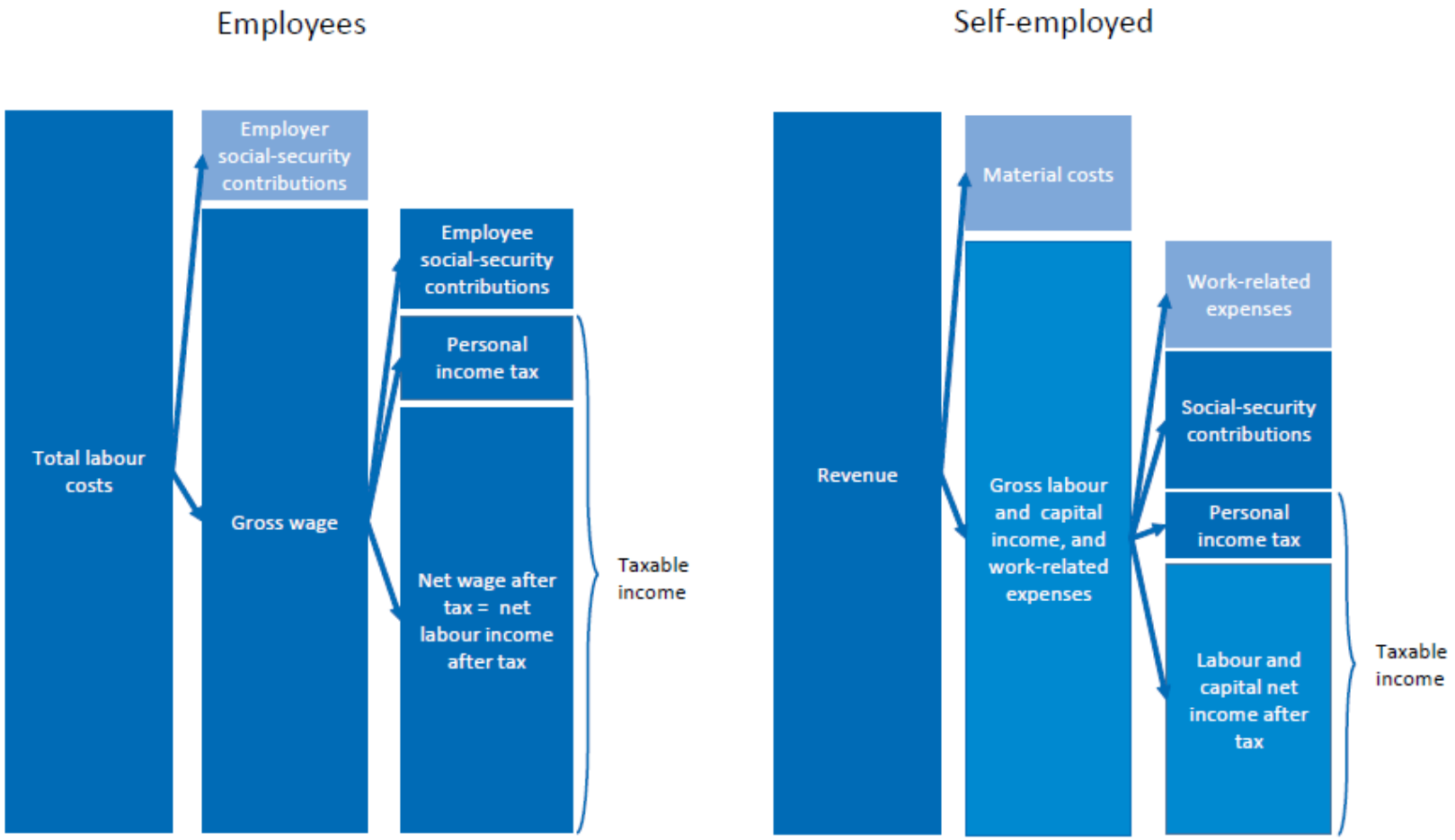


Source: OECD computations using data of Pettinicchi and Börsch-Supan (2019[13])), statistics computed with the SHARE survey data.

Экономические показатели: самозанятые vs наемные

PENSION & ACTUARIAL CONSULTING

Figure 2.10. **Earnings of employees and the self-employed are not easily comparable**



Source: OECD

PENSION & ACTUARIAL CONSULTING

Table 2.1. **Self-employed workers do not fully contribute to (quasi) mandatory pensions**

Contributions requirements to mandatory and quasi-mandatory pensions for the self-employed, OECD countries

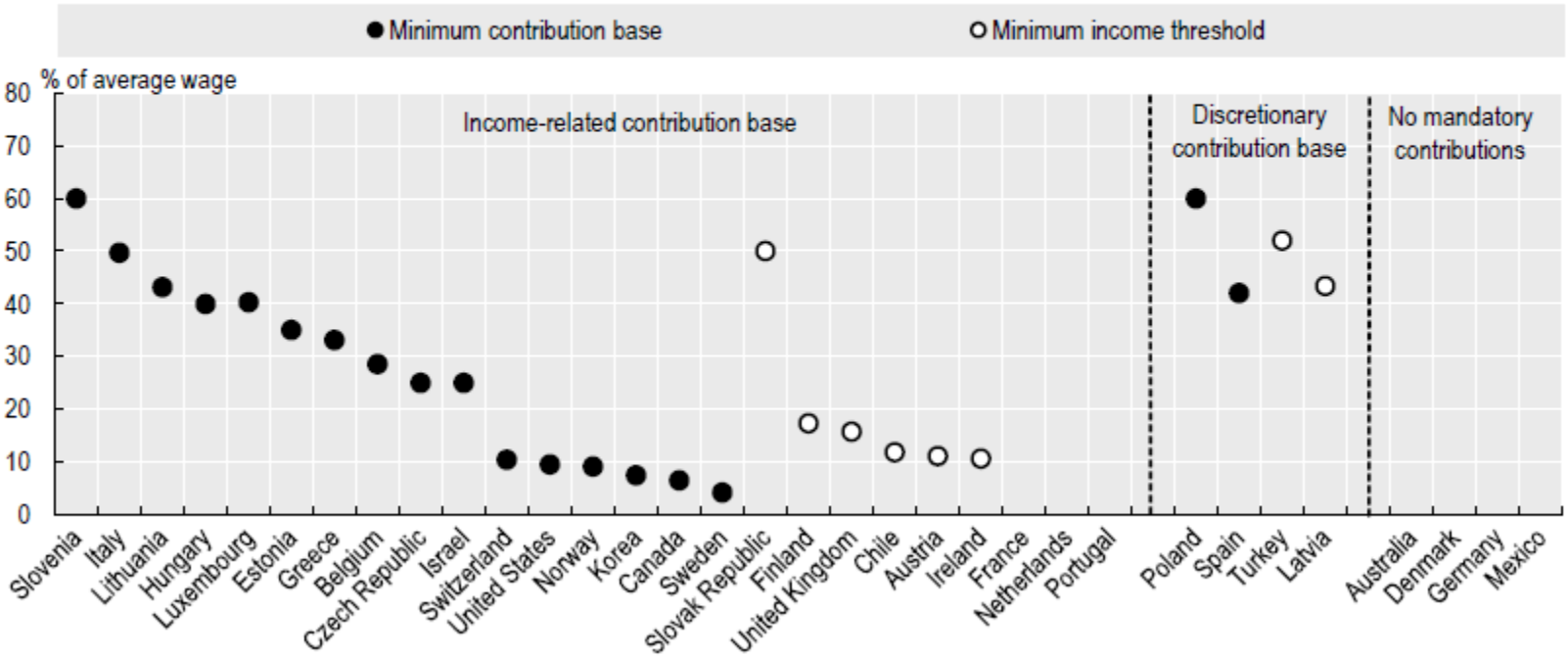
Mandatory or quasi-mandatory contributions to earnings-related schemes					
Employee-like	Reduced contribution rate	Only flat-rate contributions mandatory	Regular contributions mandatory only above income threshold	Mandatory contributions to basic pensions only	No mandatory pension contributions
Canada	Austria	Poland	Austria	Ireland*	Australia
Czech Republic	Belgium	Spain	Chile	Japan	Denmark
Estonia	France	Turkey	Finland	Netherlands	Germany
Greece	Chile		Latvia	United Kingdom*	Mexico
Hungary**	Iceland		Slovak Republic		
Korea	Israel		Turkey		
Lithuania**	Italy				
Luxembourg	Latvia				
Slovenia**	Norway				
United States	Portugal				
	Sweden				
	Switzerland				

База для страховых взносов для самозанятых

PENSION & ACTUARIAL CONSULTING

Figure 2.11. **Contribution base for mandatory pensions for the self-employed in OECD countries**

2019 or latest available

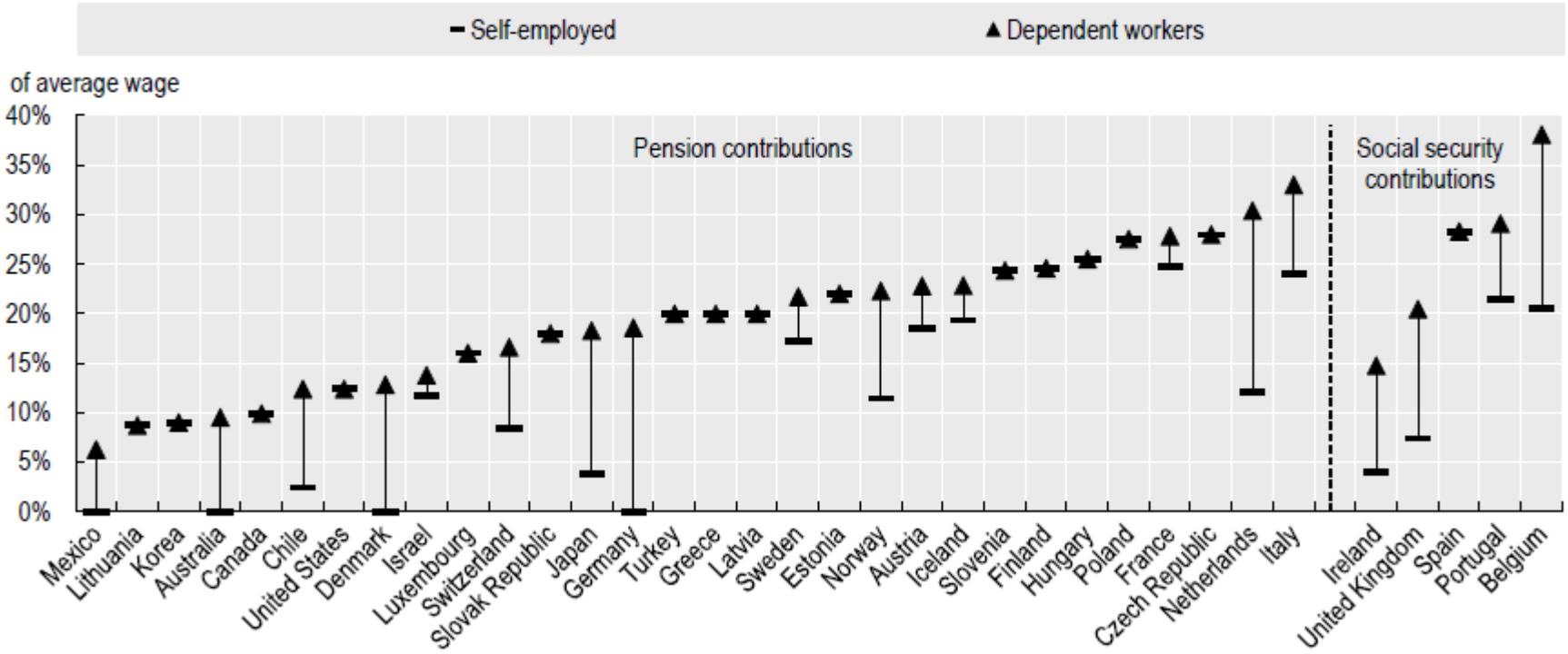


Размеры страховых взносов: самозанятые vs наемные

PENSION & ACTUARIAL CONSULTING

Figure 2.12. **The self-employed often pay lower contribution rates for pensions or social security**

Contribution rates (mandatory / quasi-mandatory pension or social security), self-employed vs dependent workers, 2018 or latest



Участие в накопительных программах по видам занятости

PENSION & ACTUARIAL CONSULTING

Table 3.1. **Summary table: Access to funded pension plans for different categories of workers, by type of plan**

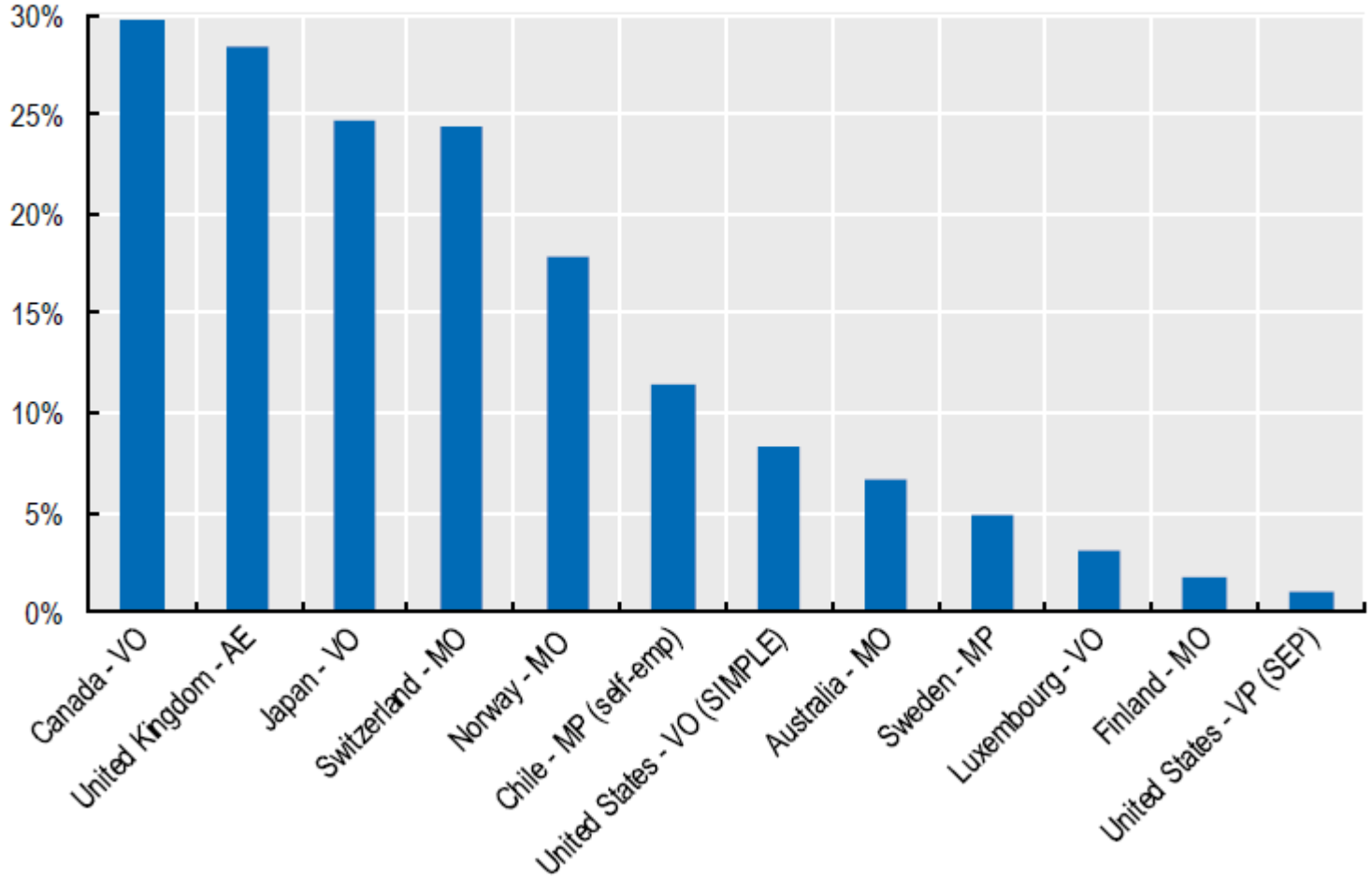
	Full-time permanent employee	Non-standard worker				
		Part-time permanent employee	Temporary employee	Temporary agency worker	Contractor	Other self-employed worker
Mandatory occupational (MO)	Full: AUS, FIN, ISL, NOR, CHE	Full: FIN, ISL Partial: AUS, NOR, CHE	Full: AUS, FIN, ISL Partial: NOR, CHE	Full: AUS, FIN, ISL Partial: CHE NA: NOR	Full: AUS, FIN, ISL NA: NOR, CHE	Full: ISL NA: AUS, FIN, NOR, CHE
Quasi-mandatory occupational (QMO)	Full: DNK, KOR, NLD, SWE	Full: DNK, NLD, SWE Partial: KOR	Full: DNK, SWE Partial: KOR, NLD	Partial: NLD NA: DNK, KOR, SWE	Full: DNK, NLD NA: KOR, SWE	Full: DNK, NLD NA: KOR, SWE
Voluntary occupational (VO)	Full: AUT, BEL, DEU, GRC, IRL, ITA, JPN, LUX, NOR, PRT, SVN, ESP, SWE, USA, BRA, CHN, IDN, ZAF Partial: CAN, FIN, FRA	Full: BEL, DEU, GRC, ITA, NOR, SVN, ESP, SWE, CHN, IDN, ZAF Partial: AUT, CAN, FIN, FRA, IRL, JPN, LUX, PRT, USA, BRA	Full: AUT, BEL, GRC, ITA, SVN, SWE, CHN, ZAF Partial: CAN, FIN, FRA, DEU, IRL, JPN, LUX, PRT, ESP, USA, BRA, IDN NA: NOR	Full: GRC, SVN, SWE, ZAF Partial: PRT, USA NA: AUT, BEL, CAN, FIN, FRA, DEU, IRL, ITA, JPN, LUX, NOR, ESP, BRA, CHN, IDN	Full: GRC, ITA, NOR, BRA Partial: PRT, SWE NA: AUT, BEL, CAN, FIN, FRA, DEU, IRL, JPN, LUX, SVN, ESP, USA, CHN, IDN, ZAF	Full: GRC, ITA, NOR, PRT, SVN, BRA Partial: SWE NA: AUT, BEL, CAN, FIN, FRA, DEU, IRL, JPN, LUX, ESP, USA, CHN, IDN, ZAF
Automatic enrolment (AE)	Full: CAN, ITA, LTU, NZL, POL, TUR, GBR, USA	Full: ITA, LTU, NZL, POL, TUR Partial: CAN, GBR, USA	Full: LTU, POL, TUR, GBR Partial: CAN, ITA, NZL, USA	Full: LTU, NZL, POL, TUR, GBR Partial: CAN, ITA, USA	Full: CAN, LTU, NZL, GBR NA: ITA, POL, TUR, USA	Full: CAN, LTU, NZL, GBR NA: ITA, POL, TUR, USA
Mandatory personal (MP)	Full: CHL, DNK, EST, ISR, LVA, MEX, SWE, CHN, IDN	Full: CHL, EST, ISR, LVA, MEX, SWE, CHN, IDN Partial: DNK	Full: CHL, DNK, EST, ISR, LVA, MEX, SWE, CHN, IDN	Full: CHL, DNK, EST, ISR, LVA, MEX, SWE, CHN, IDN	Full: EST, ISR, LVA, SWE, CHN Partial: CHL NA: DNK, MEX, IDN	Full: EST, ISR, LVA, SWE, CHN NA: CHL, DNK, MEX, IDN
Voluntary personal (VP)	Full: All countries	Full: All countries	Full: All countries	Full: All countries	Full: All countries	Full: All countries

Минимальный уровень дохода для участия в обязательной накопительной программе

PENSION & ACTUARIAL CONSULTING

Figure 3.1. **Minimum income required to join a funded pension plan**

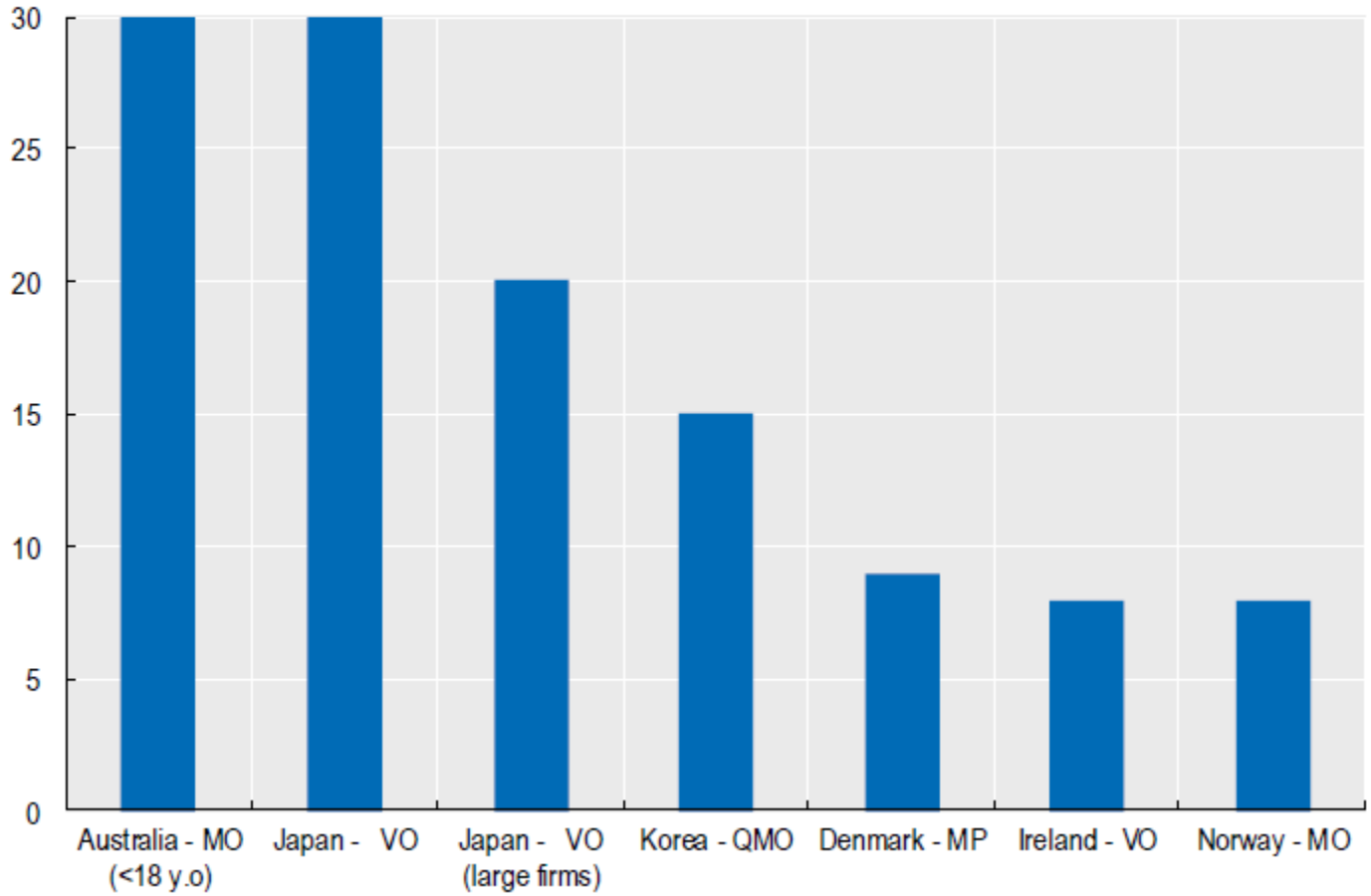
As a % of average annual wages



Минимальный занятость в неделю для участия в обязательной накопительной программе

PENSION & ACTUARIAL CONSULTING

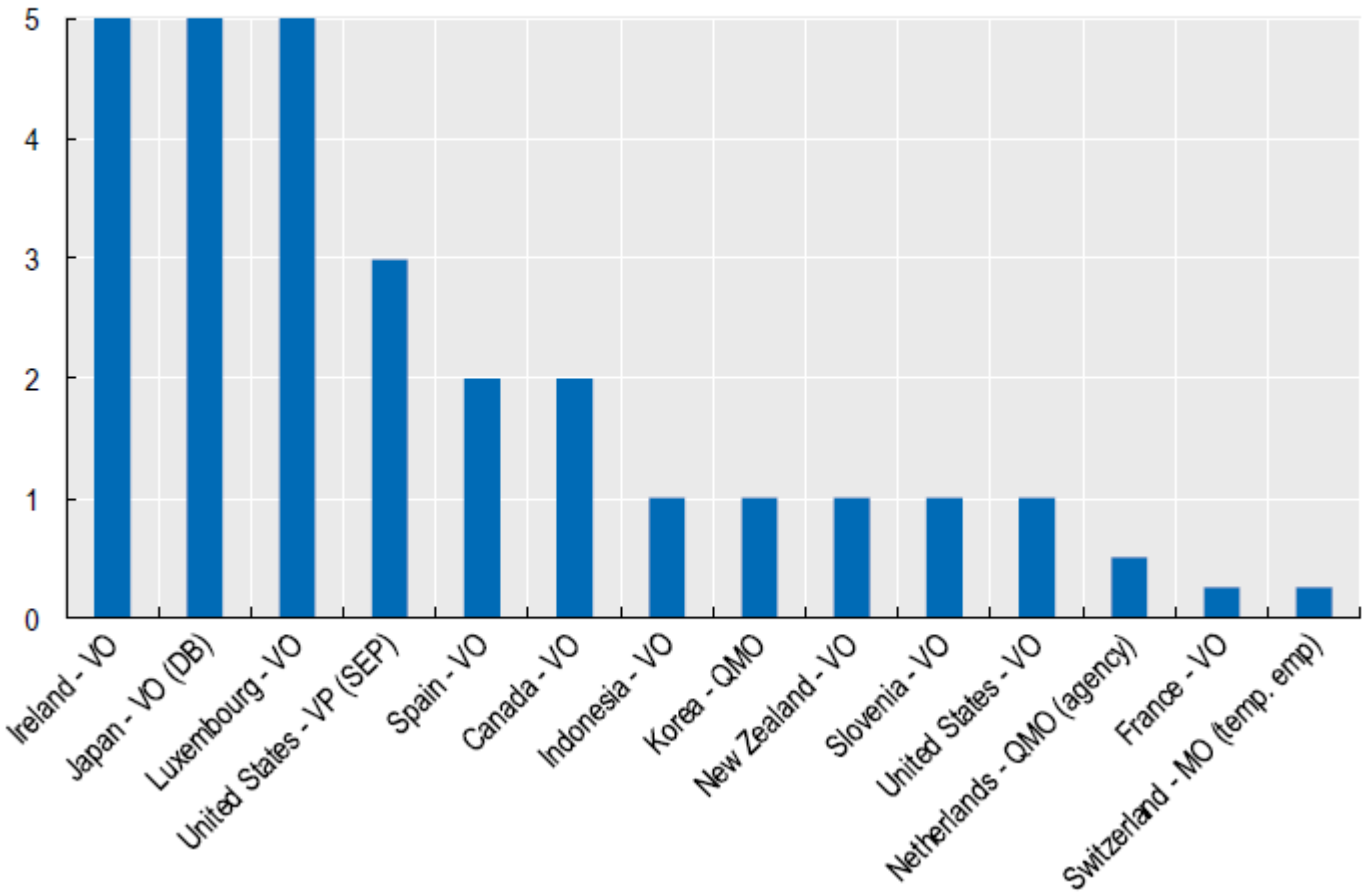
Figure 3.2. **Minimum number of working hours per week required to join a funded pension plan**



Минимальный трудовой стаж для участия в обязательной накопительной программе

PENSION & ACTUARIAL CONSULTING

Figure 3.3. **Minimum number of years of employment required to join a funded pension plan**

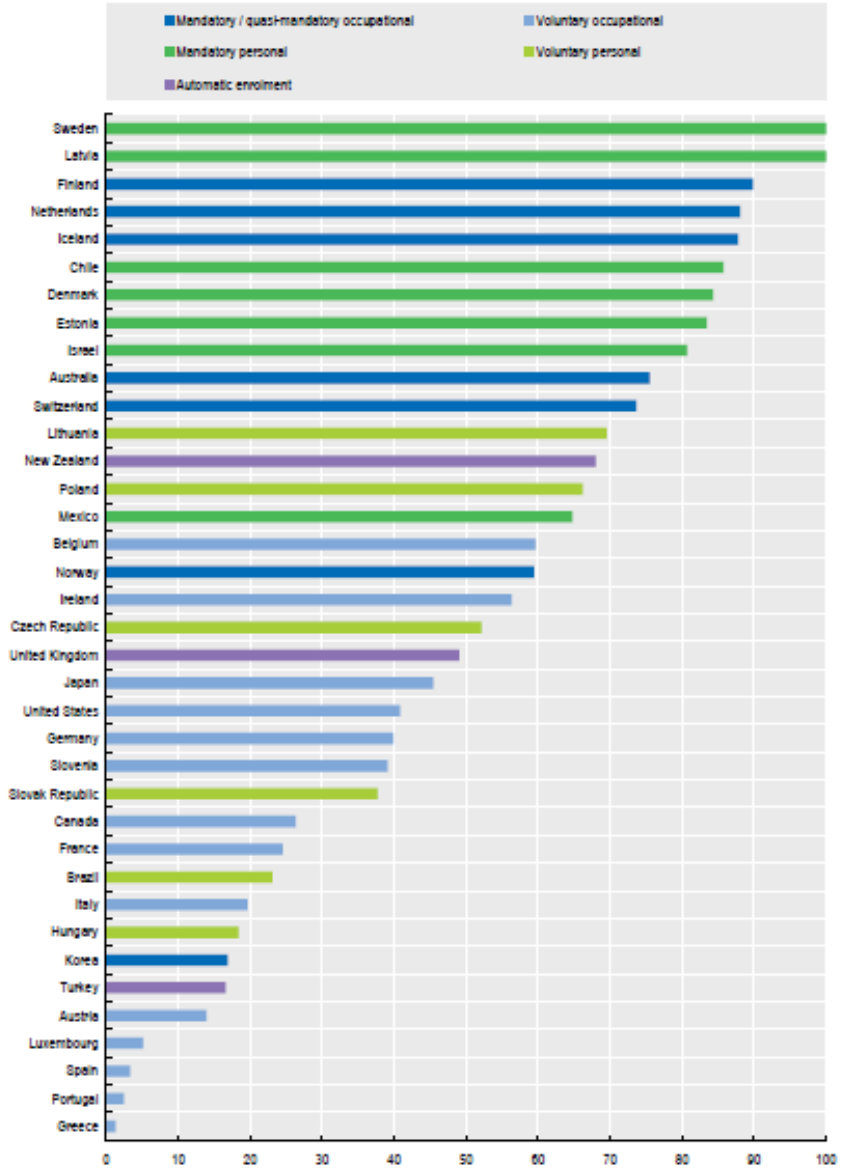


Уровень участия трудоспособных граждан в накопительных пенсионных программ

PENSION & ACTUARIAL CONSULTING

Figure 3.4. **Overall participation in funded pensions by type of plan, 2017 or latest available year**

As a percentage of the working-age population



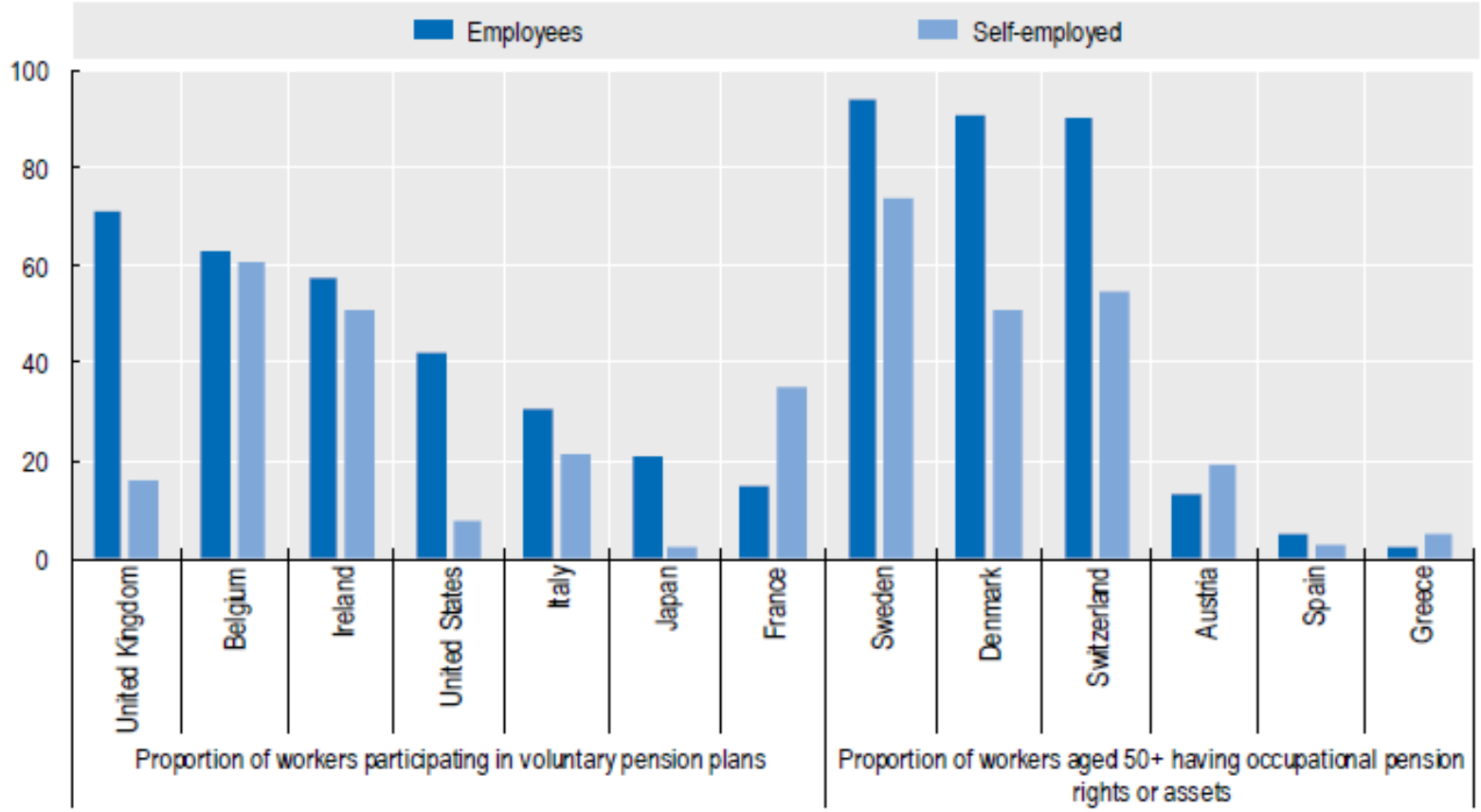
Pension systems are classified between occupational (mandatory “MO”, quasi-mandatory “QMO” and voluntary “VO”), personal (mandatory “MP” and voluntary “VP”) and automatic enrolment (in personal or occupational plans, “AE”). For the United States, “SEP” means Simplified Employee Pension and “SIMPLE” means Savings Incentive Match Plans for Employees.

Участие в накопительных программах по типам занятастои и для возрастной группы 50+

PENSION & ACTUARIAL CONSULTING

Figure 3.5. **Participation in funded pensions by employment status**

As a percentage of the relevant population

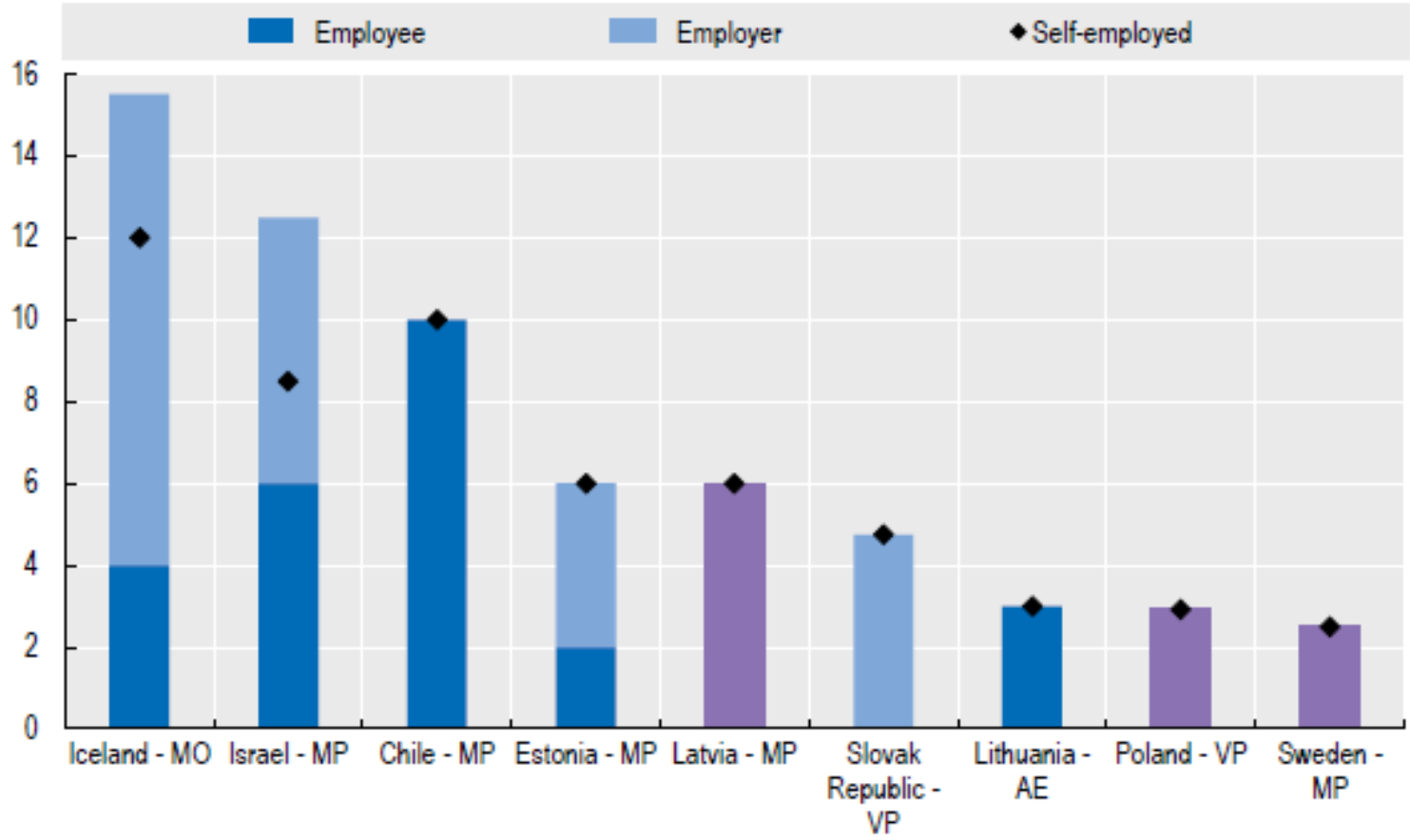


Source: National sources for participation in voluntary pension plans and SHARE wave 7 for workers aged 50 and older having occupational pension entitlements (Technical Report: Using SHARE data to measure pension adequacy in Europe)

Минимальные или обязательные размеры взносов в накопительные программы

PENSION & ACTUARIAL CONSULTING

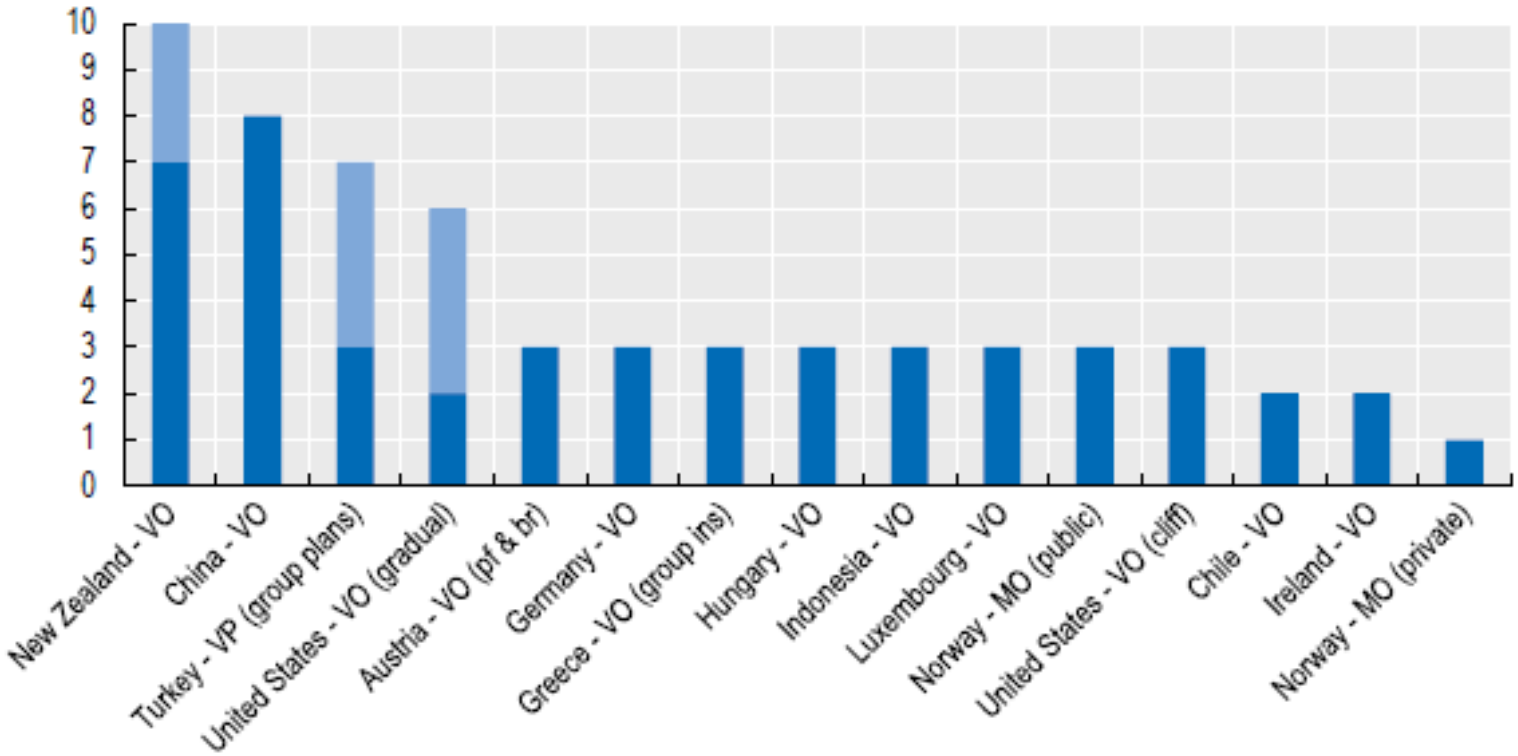
Figure 3.7. **Minimum or mandatory contribution rates applying to pension plans covering employees and self-employed workers**



Максимальный вестинг на взносы работодателя корпоративных программах

PENSION & ACTUARIAL CONSULTING

Figure 3.8. **Maximum length of the vesting period for employer contributions in occupational pension plans**



Основания для досрочного изъятия пенсионных накоплений

PENSION & ACTUARIAL CONSULTING

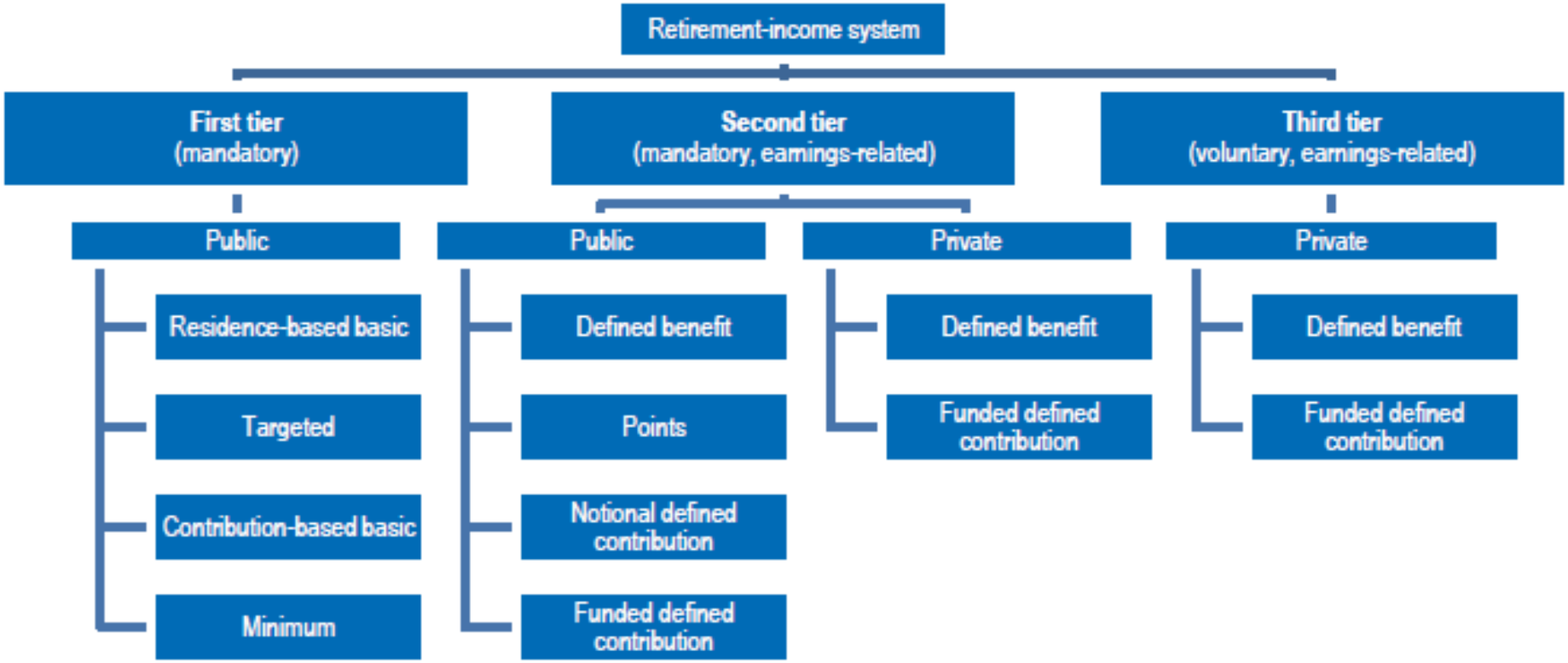
Table 3.4. **Countries allowing early access to funds by type of condition**

Conditions	Countries allowing early access to funds
Purchase/repair home	Australia (VP), Belgium, Canada (VP, loan), France, Germany (VP), Iceland, Italy, Korea, Mexico (MP, loan), New Zealand (AE), Poland (AE, loan), Portugal (VP-PPR schemes), Switzerland, United States, South Africa (loan)
Reaching a certain age/membership duration	Austria (PV), Canada, Czech Republic, Estonia (VP), Germany (VP), Hungary (VP), Ireland (VP), Italy, Japan (VP), Lithuania (pillar 2), Luxembourg (VP), Mexico (VP), Portugal (VP-PPR schemes), Slovak Republic (pillar 3), Slovenia, Spain, Turkey, United States, India, Indonesia (MP)
Disability	Australia, Estonia (VP), Finland (VP), France, Italy, Latvia (VP), Lithuania (VP), Luxembourg (VP), Mexico (VP), New Zealand (AE), Portugal (employee contributions), Switzerland, Turkey, United States, China (VO), India (VP), Indonesia (MP)
Serious illness	Australia, Canada, Denmark, Iceland (VP), Ireland, Italy, Luxembourg (VP), New Zealand (AE), Poland (AE), Portugal (employee contributions), Spain, Sweden (VP), United Kingdom
Financial hardship	Australia, Canada, France, Korea, New Zealand (AE), Sweden (VP), Turkey, United States
Unemployment	Finland (VP), France, Israel (self-employed), Italy, Mexico (MP), New Zealand (VO), Portugal (employee contributions), Spain
Small balance	Australia, Canada, Greece, Israel, Luxembourg (VO), Sweden (VP), Switzerland (MO), United States (VO)
Medical expenses	Australia, Italy, Korea, United States
Training/education expenses	Canada (VP, loan), Korea, United States
Leaving the country	Australia (temporary residents only), Canada, Luxembourg (VO), New Zealand (AE), Switzerland, China (VO)
Death of partner/heirs	Australia, Finland (VP), France, Korea, Latvia (VP)
Wedding expenses	Korea, Mexico (MP)
Establish an independent business	Switzerland
Without any motive	Chile (voluntary savings), Denmark (QMO, loan), Hungary (VP), Israel (loan), Mexico (VP), Portugal (VO, loan), United States (loan)

Таксономия пенсионных программ

PENSION & ACTUARIAL CONSULTING

Figure 4.1. **Taxonomy: Different types of retirement-income provision**



Виды пенсионных программ по странам ОЭСР

PENSION & ACTUARIAL CONSULTING

Table 4.1. **Structure of retirement-income provision through mandatory schemes**

	First tier				Second tier			First tier				Second tier	
	Residence-based		Contribution-based					Residence-based		Contribution-based			
	Basic	Targeted	Basic	Minimum	Public	Private		Basic	Targeted	Basic	Minimum	Public	Private
Panel A. Latest legislation (applying to future retirees entering the labour market in 2018 at age 22)													
Australia		✓				FDC	Netherlands	✓					DB [q]
Austria				✓	DB		New Zealand	✓					
Belgium				✓	DB		Norway		✓			NDC	FDC
Canada	✓	✓			DB		Poland				✓	NDC	
Chile		✓				FDC	Portugal				✓	DB	
Czech Republic			✓	✓	DB		Slovak Republic				✓	Points	
Denmark	✓	✓			FDC	FDC [q]	Slovenia				✓	DB	
Estonia			✓		Points	FDC	Spain				✓	DB	
Finland		✓			DB		Sweden		✓			NDC + FDC	FDC [q]
France				✓	DB + Points		Switzerland				✓	DB	DB
Germany		✓			Points		Turkey				✓	DB	
Greece	✓				DB		United Kingdom			✓			
Hungary				✓	DB		United States					DB	
Iceland	✓	✓				DB [q]							
Ireland			✓				Remaining G20 countries						
Israel	✓		✓			FDC	Argentina			✓	✓	DB	
Italy					NDC		Brazil				✓	DB	
Japan			✓		DB		China				✓	NDC + FDC	
Korea			✓		DB		India				✓	DB + FDC	
Latvia				✓	NDC + FDC		Indonesia				✓	DB + FDC	
Lithuania			✓		Points		Russian Federation			✓		Points	FDC
Luxembourg			✓	✓	DB		Saudi Arabia				✓	DB	
Mexico				✓		FDC	South Africa		✓				
Panel B. Current legislation where different from Panel A (applying to new retirees in 2018)*													
Chile		✓		✓	DB	FDC	Mexico				✓	DB	
Estonia			✓		DB/Points	FDC	Norway	✓	✓			DB	FDC
Italy				✓	DB + NDC		Poland				✓	DB/NDC	
Latvia				✓	DB/NDC + FDC		Sweden	✓	✓			DB/NDC + FDC	FDC [q]
Lithuania			✓		DB/Points		United Kingdom			✓		DB	

Сравнение размеров пенсий в зависимости от среднего дохода

Для мужчин

PENSION & ACTUARIAL CONSULTING

Table 5.1. **Gross pension replacement rates by earnings, mandatory schemes**

Individual earnings, multiple of mean for men (women where different)

	Pension age		0.5		1		1.5	
Australia	67		64.9	(62.1)	30.9	(28.1)	30.9	(28.1)
Austria	65		76.5		76.5		76.5	
Belgium	67		57.3		46.8		33.7	
Canada	65		50.9		39.0		29.8	
Chile	65		36.2	(34.6)	31.2	(28.8)	31.2	(28.8)
Czech Republic	65		75.0		45.9		36.2	
Denmark	74		113.8		74.4		64.0	
Estonia	71		61.4		47.1		42.3	
Finland	68		56.5		56.5		56.5	
France	66		60.2		60.1		54.0	
Germany	67		38.7		38.7		38.7	
Greece	62		63.1		49.9		45.5	
Hungary	65	(62)	56.1	(52.2)	56.1	(52.2)	56.1	(52.2)
Iceland	67		75.3		66.1		65.1	
Ireland	68		54.1		27.0		18.0	
Israel	67	(62)	77.4	(66.7)	50.1	(41.8)	33.4	(27.9)
Italy	71		79.5		79.5		79.5	
Japan	65		42.5		32.0		28.5	
Korea	65		55.6		37.3		27.0	
Latvia	65		44.6		44.6		44.6	
Lithuania	65		36.8		23.6		19.2	
Luxembourg	62		91.5		78.8		74.5	
Mexico	65		35.1		25.7	(24.0)	24.6	(23.0)
Netherlands	71		73.5		70.9		70.1	

	Pension age		0.5		1.0		1.5	
New Zealand	65		79.3		39.7		26.4	
Norway	67		50.4		45.4		36.3	
Poland	65	(60)	29.4	(29.8)	29.4	(22.5)	29.4	(22.5)
Portugal	68		75.8		74.4		73.1	
Slovak Republic	64		59.5		49.6		47.0	
Slovenia	62		47.8	(50.0)	38.8	(40.7)	36.0	(37.9)
Spain	65		72.3		72.3		72.3	
Sweden	65		54.1		54.1		65.3	
Switzerland	65	(64)	53.0	(51.8)	42.4	(41.3)	29.2	(28.5)
Turkey	62	(60)	67.4	(64.3)	67.4	(64.3)	67.4	(64.3)
United Kingdom	68		43.5		21.7		14.5	
United States	67		50.1		39.4		33.1	
OECD	**66.1**	**(65.7)**	**60.0**	**(59.4)**	**49.0**	**(48.2)**	**44.7**	**(44.0)**
Argentina	65	(60)	83.7	(76.9)	71.2	(64.4)	67.1	(60.3)
Brazil	57	(52)	92.1	(92.1)	58.9	(46.1)	58.9	(46.0)
China	60	(55)	90.6	(77.3)	71.6	(60.8)	65.2	(55.3)
India	58		83.4	(80.4)	83.4	(80.4)	83.4	(80.4)
Indonesia	65		55.3	(53.0)	55.3	(53.0)	55.3	(53.0)
Russian Federation	64	(59)	62.3	(57.9)	49.6	(45.2)	44.9	(40.5)
Saudi Arabia	47		59.6		59.6		59.6	
South Africa	60		34.5		17.2		11.5	
EU28	66.3	(65.9)	60.3	(60.2)	52.0	(51.7)	48.8	(48.5)

Figure 5.1. **Gross pension replacement rates: Average earners at retirement age and age 80**

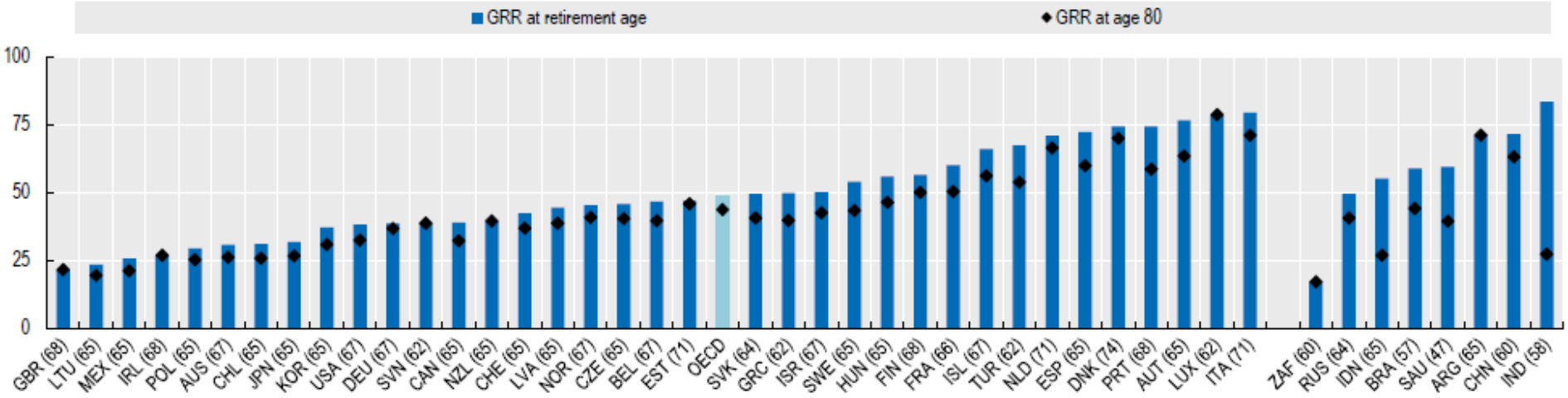
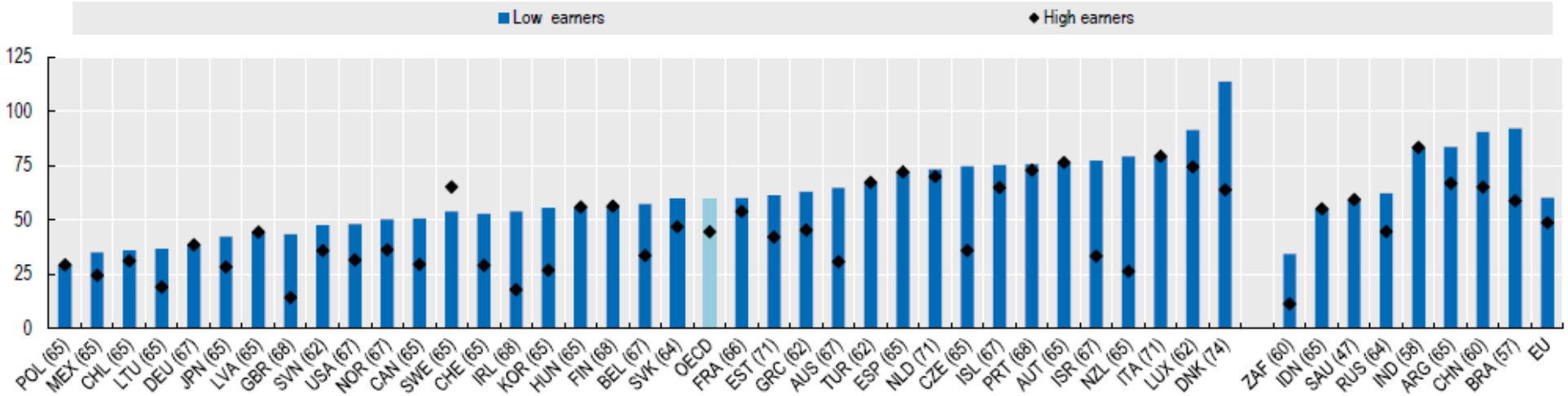
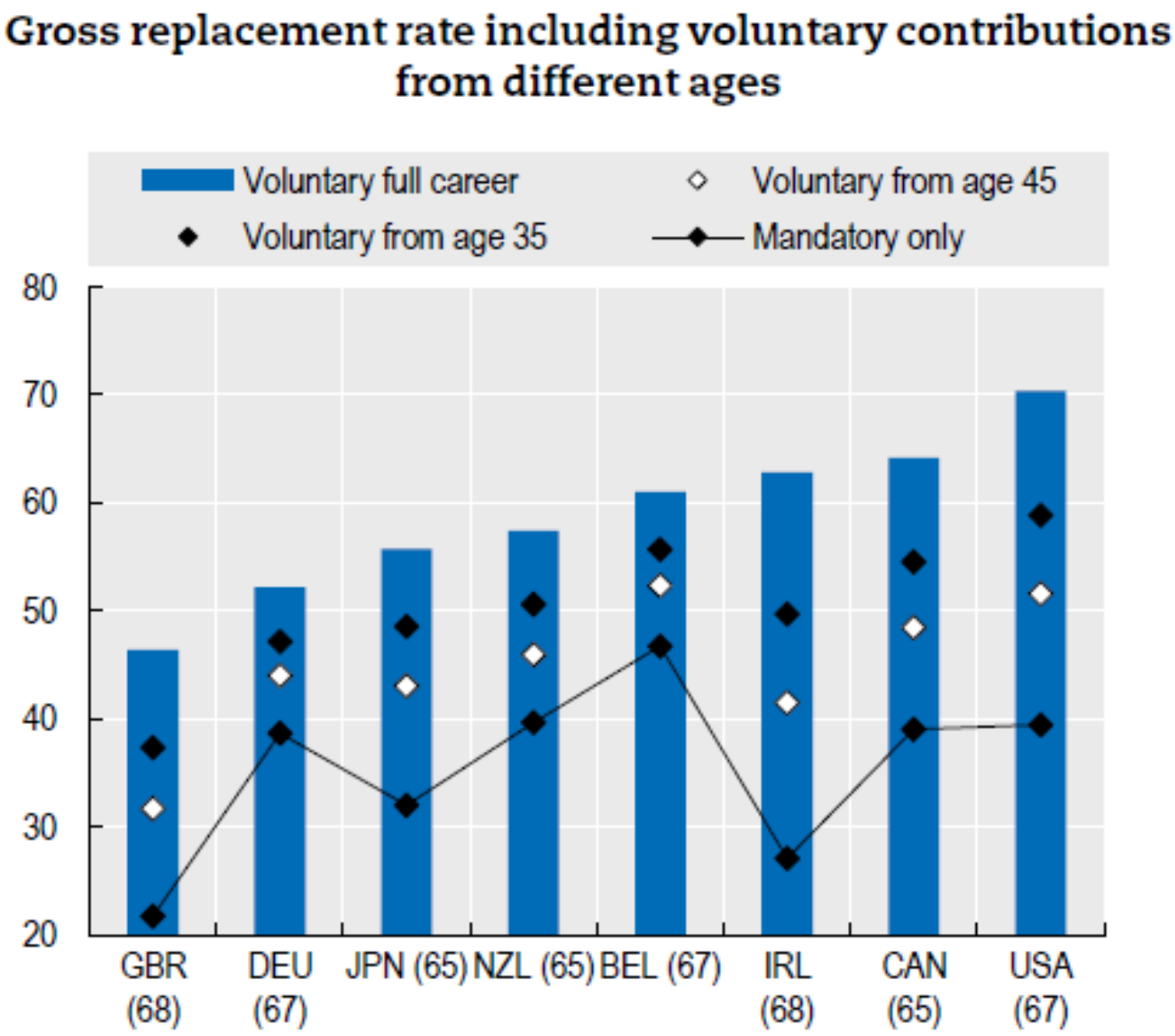


Figure 5.2. **Gross pension replacement rates: Low and high earners**



Совокупный коэффициент замещения в зависимости от периода участия в НПО

PENSION & ACTUARIAL CONSULTING



Коэффициент замещения: обязательные и добровольные программы

PENSION & ACTUARIAL CONSULTING

Table 5.3. **Gross pension replacement rates from mandatory public, mandatory private and voluntary private pension schemes**

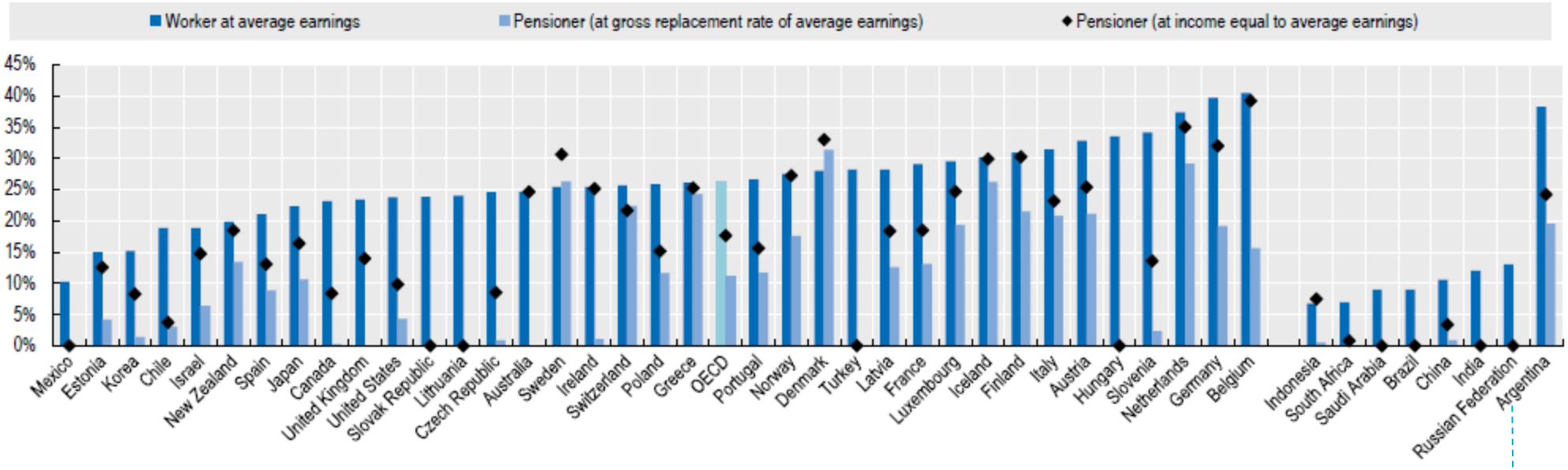
Percentage of individual earnings

	Mandatory Public			Mandatory private (DB & DC)			Total mandatory			Voluntary (DB & DC)			Total with voluntary		
	0.5	1	1.5	0.5	1	1.5	0.5	1	1.5	0.5	1	1.5	0.5	1	1.5
Australia	34.0	0.0	0.0	30.9	30.9	30.9	64.9	30.9	30.9						
Austria	76.5	76.5	76.5				76.5	76.5	76.5						
Belgium	57.3	46.8	33.7				57.3	46.8	33.7	14.2	14.2	10.4	71.6	61.0	44.1
Canada	50.9	39.0	29.8				50.9	39.0	29.8	25.1	25.1	25.1	71.9	64.1	54.9
Chile	5.1	0.0	0.0	31.1	31.2	31.2	36.2	31.2	31.2						
Czech Republic	75.0	45.9	36.2				75.0	45.9	36.2						
Denmark	63.1	23.7	13.3	50.7	50.7	50.7	113.8	74.4	64.0						
Estonia	33.8	19.4	14.6	27.6	27.6	27.6	61.4	47.1	42.3						
Finland	56.5	56.5	56.5				56.5	56.5	56.5						
France	60.2	60.1	54.0				60.2	60.1	54.0						
Germany	38.7	38.7	38.7				38.7	38.7	38.7	13.5	13.5	13.5	52.2	52.2	52.2
Greece	63.1	49.9	45.5				63.1	49.9	45.5						
Hungary	56.1	56.1	56.1				56.1	56.1	56.1						
Iceland	12.3	3.1	2.1	63.0	63.0	63.0	75.3	66.1	65.1						
Ireland	54.1	27.0	18.0				54.1	27.0	18.0	35.8	35.8	35.8	89.9	62.9	53.8
Israel	36.1	18.0	12.0	41.3	32.1	21.4	77.4	50.1	33.4	19.8	15.4	10.3	97.2	65.5	43.7
Italy	79.5	79.5	79.5				79.5	79.5	79.5						
Japan	42.5	32.0	28.5				42.5	32.0	28.5	23.8	23.8	23.8	66.2	55.8	52.3
Korea	55.6	37.3	27.0				55.6	37.3	27.0						
Latvia	44.6	44.6	44.6				44.6	44.6	44.6						
Lithuania	36.8	23.6	19.2				36.8	23.6	19.2						
Luxembourg	91.5	78.8	74.5				91.5	78.8	74.5						
Mexico	12.6	3.2	2.0	22.5	22.5	22.5	35.1	25.7	24.6	17.3	17.3	17.3	48.2	43.0	41.9
Netherlands	57.9	29.0	19.3	15.6	42.0	50.8	73.5	70.9	70.1						
New Zealand	79.3	39.7	26.4				79.3	39.7	26.4	17.8	17.8	17.8	97.1	57.4	44.2
Norway	45.7	39.6	30.1	4.7	5.9	6.2	50.4	45.4	36.3						
Poland	29.4	29.4	29.4				29.4	29.4	29.4						
Portugal	75.8	74.4	73.1				75.8	74.4	73.1						
Slovak Republic	59.5	49.6	47.0				59.5	49.6	47.0						
Slovenia	47.8	38.8	36.0				47.8	38.8	36.0						
Spain	72.3	72.3	72.3				72.3	72.3	72.3						
Sweden	41.6	41.6	30.8	12.5	12.5	34.4	54.1	54.1	65.3						
Switzerland	32.4	21.4	15.2	20.6	21.0	14.0	53.0	42.4	29.2						
Turkey	67.4	67.4	67.4				67.4	67.4	67.4						
United Kingdom	43.5	21.7	14.5				43.5	21.7	14.5	29.1	29.1	22.9	72.6	50.9	37.4
United States	50.1	39.4	33.1				50.1	39.4	33.1	30.9	30.9	30.9	81.0	70.3	64.0
OECD	**51.1**	**39.6**	**34.9**				**60.0**	**49.0**	**44.7**				**66.1**	**55.2**	**50.5**
Argentina	83.7	71.2	67.1				83.7	71.2	67.1						
Brazil	92.1	58.9	58.9				92.1	58.9	58.9						
China	90.6	71.6	65.2				90.6	71.6	65.2						
India	83.4	83.4	83.4				83.4	83.4	83.4						
Indonesia	33.1	33.1	33.1	22.2	22.2	22.2	55.3	55.3	55.3						
Russian Federation	62.3	49.6	44.9	20.4	20.4	20.4	82.7	70.0	65.2						
Saudi Arabia	59.6	59.6	59.6				59.6	59.6	59.6						
South Africa	34.5	17.2	11.5				34.5	17.2	11.5	49.1	49.1	49.1	49.1	49.1	49.1
EU28	54.7	45.5	41.2				60.3	52.0	48.8				63.6	55.4	51.8

Подоходный налог и страховые взносы

PENSION & ACTUARIAL CONSULTING

Figure 5.3. **Personal income taxes and social security contributions paid by pensioners and workers**

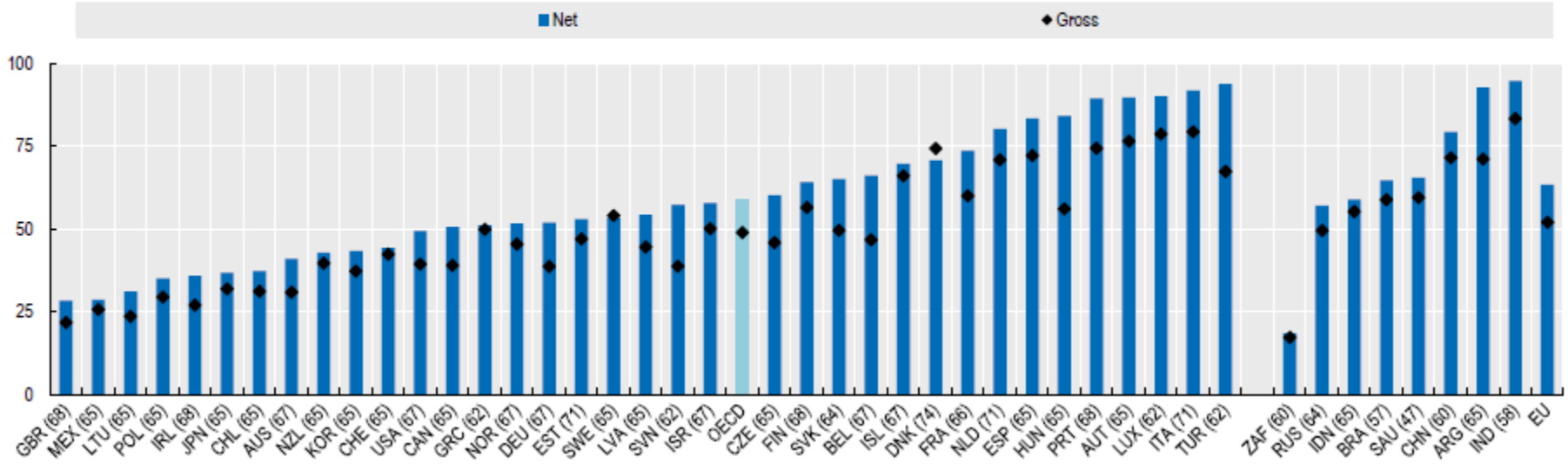


В России низкий подоходный налог для работающих. Пенсии не облагаются подоходным налогом

Коэффициент замещения для средней заработной платы

PENSION & ACTUARIAL CONSULTING

Figure 5.4. **Net pension replacement rates: Average earners**

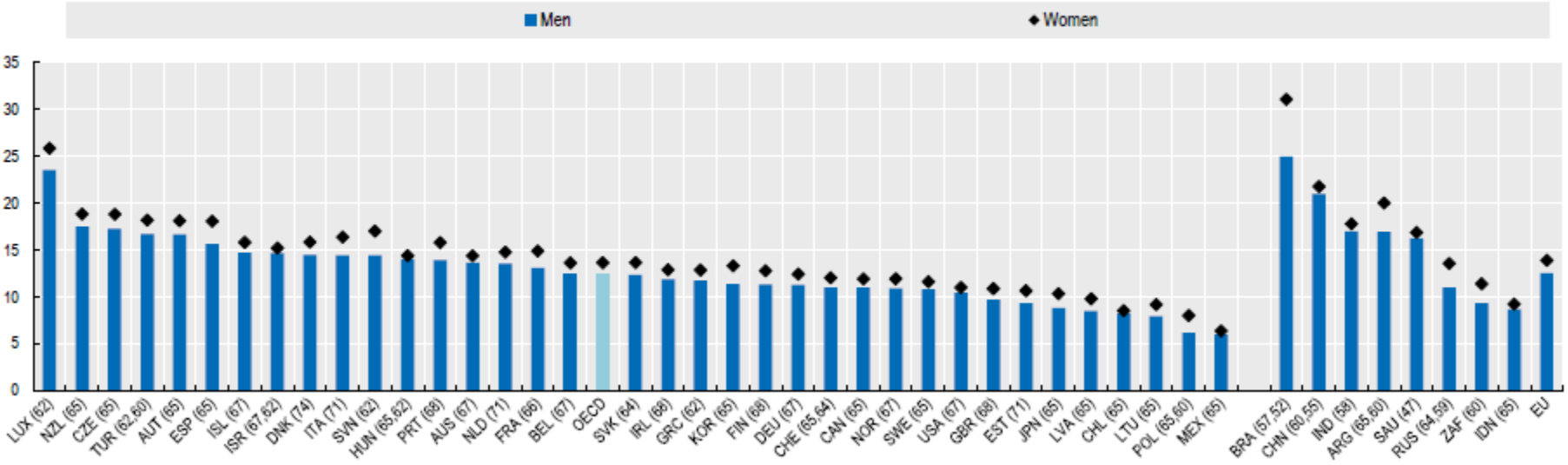


По оценкам ОЭСР коэффициент замещения в РФ на уровне 55% для средней заработной платы

Дисконтированная стоимость пенсии (в среднегодовом доходе работника)

PENSION & ACTUARIAL CONSULTING

Figure 5.8. **Net pension wealth for lower earners by gender, multiple of annual earnings**



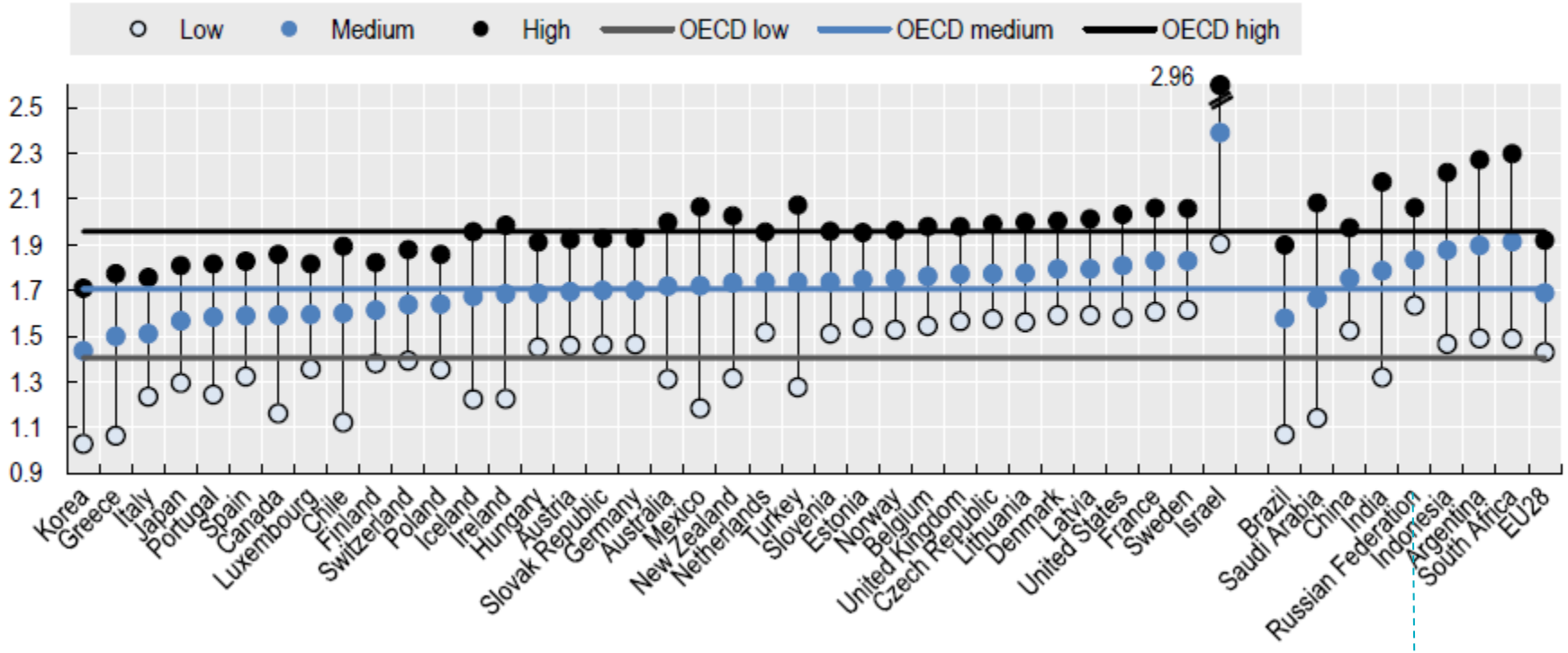
net pension wealth relative to individual net earnings measures the total discounted value of the lifetime flow of all retirement incomes in mandatory pension schemes at retirement age. For average earners, net pension wealth for men is 10.6 times and for women 11.7 times annual individual net earnings on average in OECD countries. Net pension wealth relative to annual individual earnings is higher for women because of their longer life expectancy. The main determinants of differences across countries are differences in the net replacement rate, in the length of the retirement period measured by remaining life expectancy at the normal retirement age, and in indexation rules.

Прогнозные значения уровня рождаемости

PENSION & ACTUARIAL CONSULTING

Figure 6.1. **Uncertainty about total fertility-rate projections**

Low, medium and high variant projections for 2050-2055



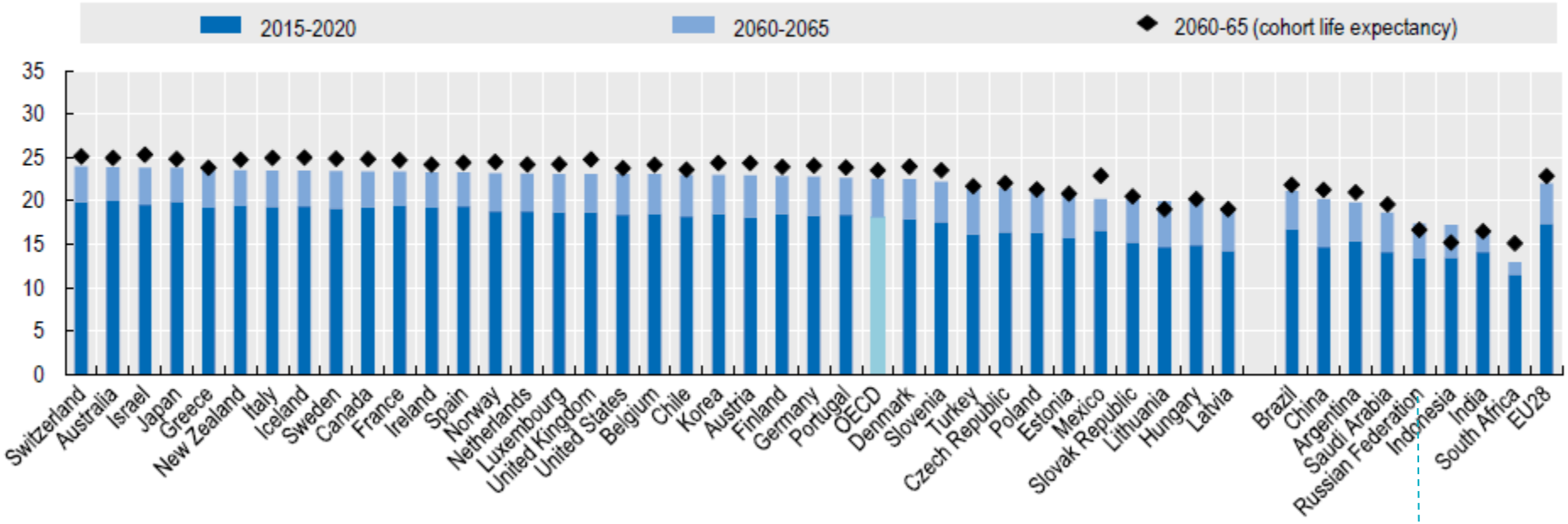
По оценкам ОЭСР рождаемость в России выше среднеевропейских показателей

Ожидаемая продолжительность жизни

PENSION & ACTUARIAL CONSULTING

Figure 6.4. **Remaining life expectancy at age 65 for men, current and projections, in years**

Based on mortality rates of the indicated period or cohort

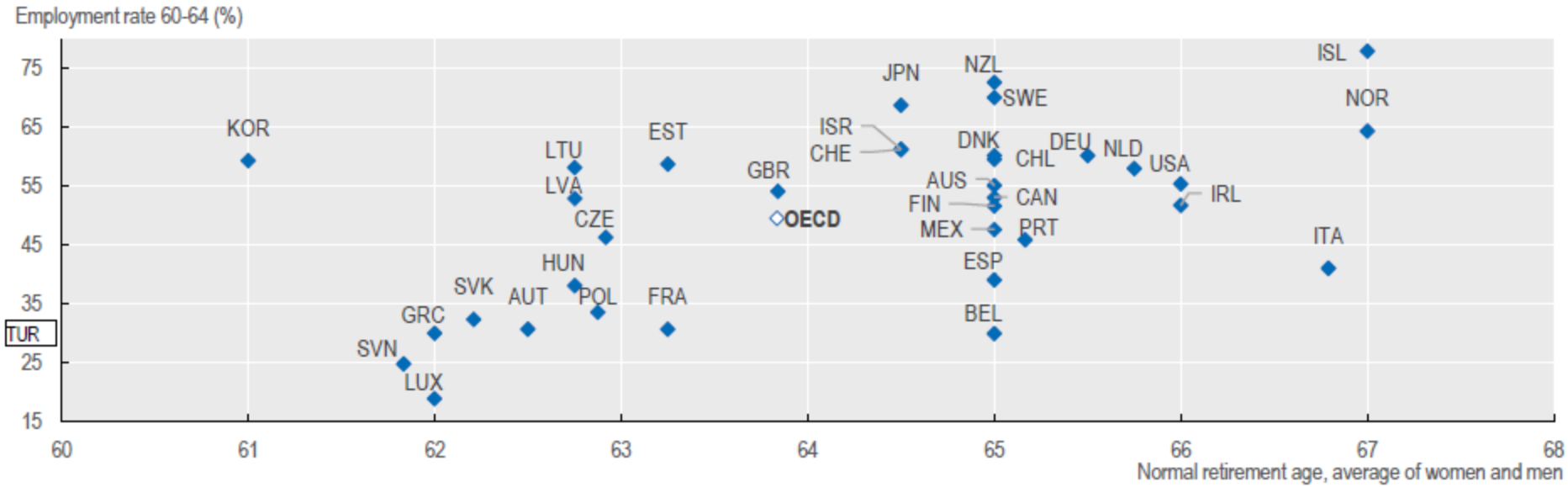


По оценкам ОЭСР средняя продолжительность жизни будет расти

Уровень занятости 60-64 в зависимости от среднего пенсионного возраста

PENSION & ACTUARIAL CONSULTING

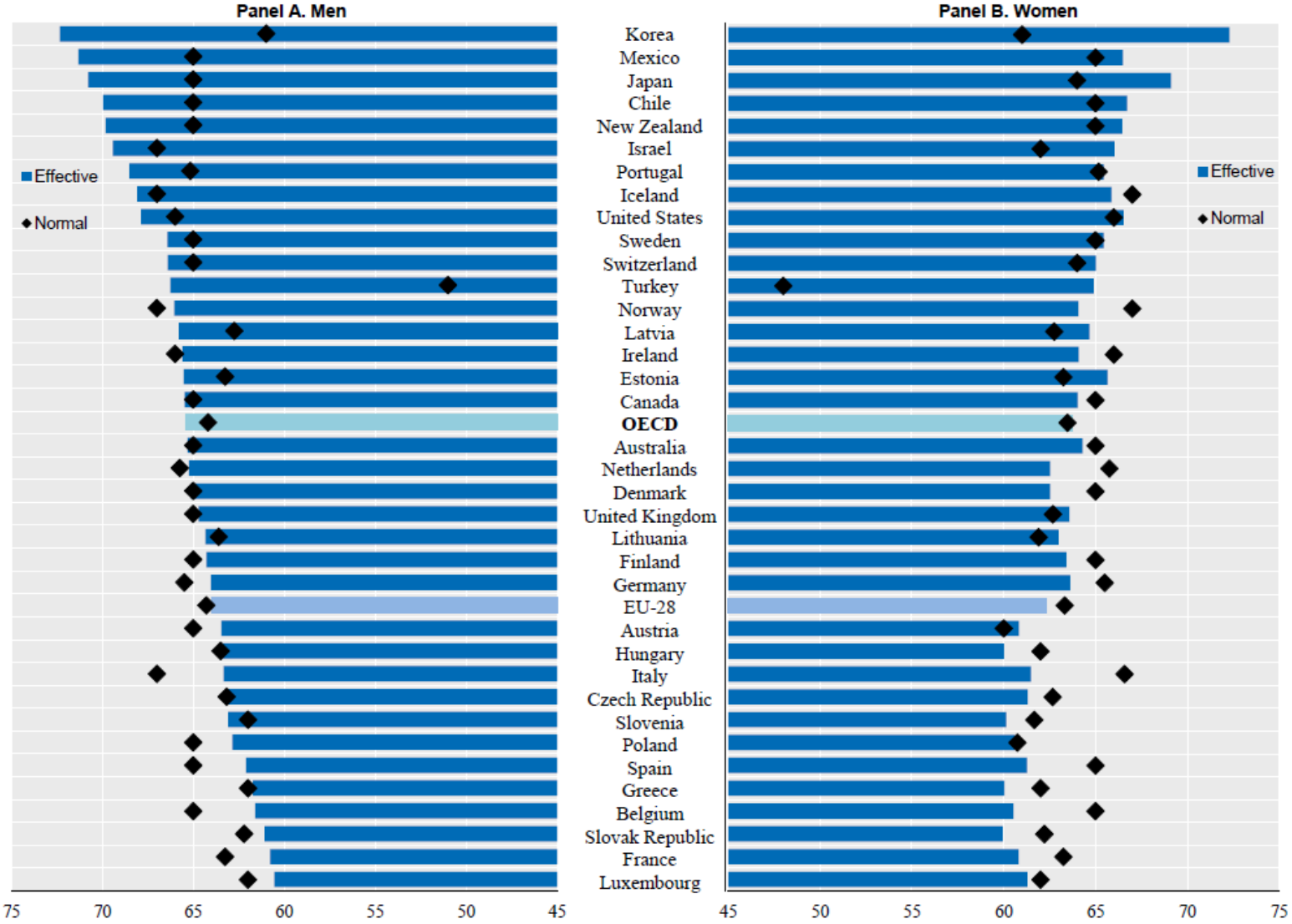
Figure 6.7. **Employment rate at ages 60-64 vs. normal retirement age in 2018**



Средний возраст окончания трудовой деятельности и пенсионный возраст

PENSION & ACTUARIAL CONSULTING

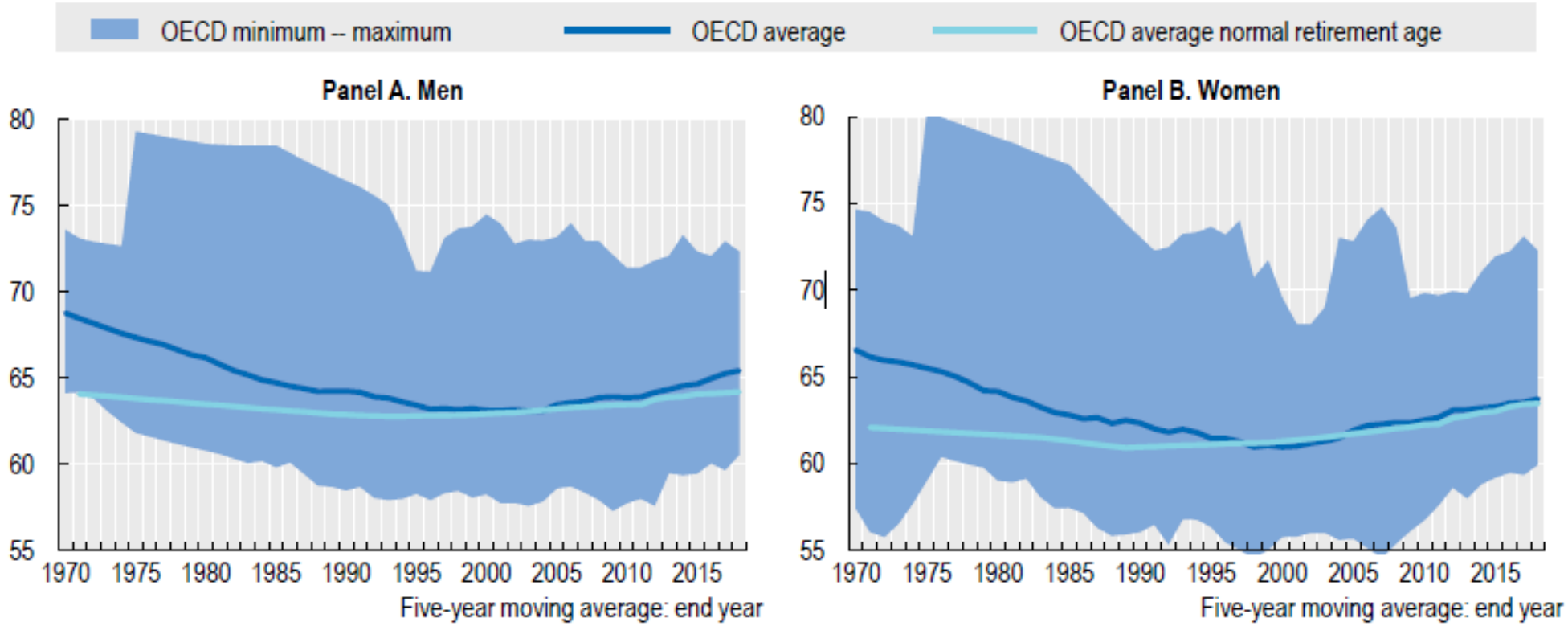
Figure 6.9. **Average effective age of labour market exit and normal retirement age in 2018**



Динамика возраст окончания трудовой деятельности и пенсионный возраст

PENSION & ACTUARIAL CONSULTING

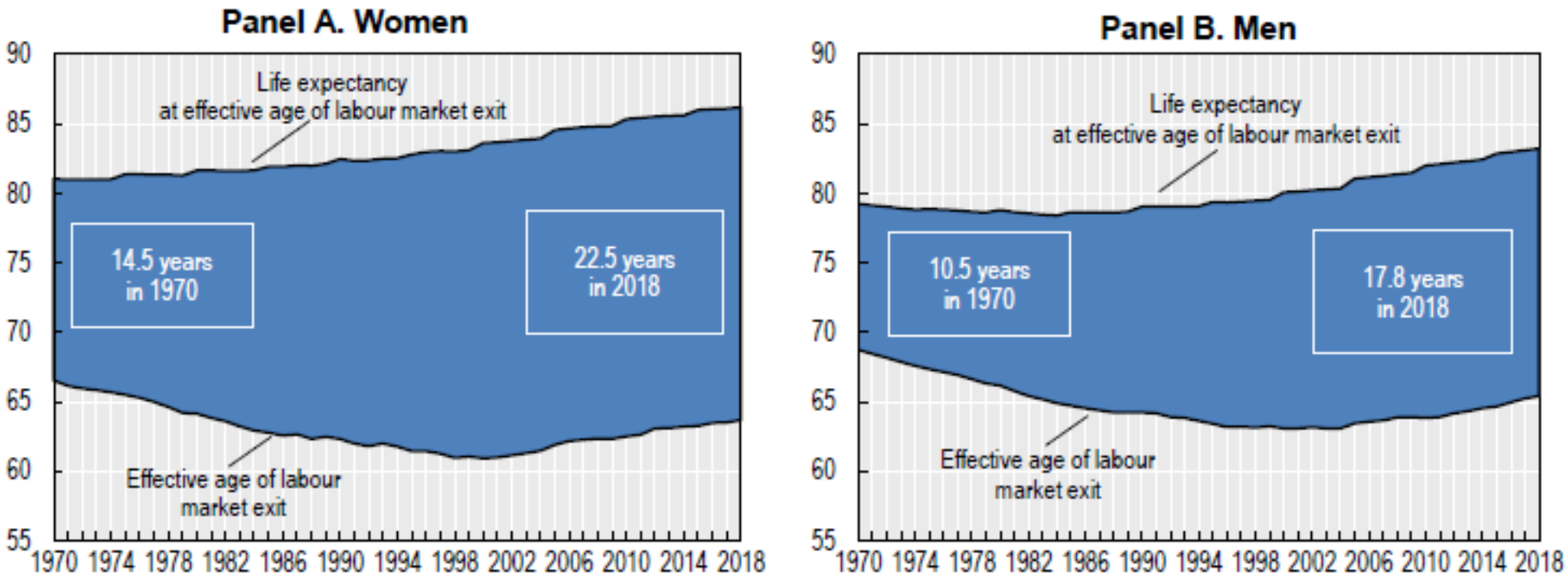
Figure 6.10. **Average effective age of labour market exit in OECD countries, 1970-2018**



Ожидаемая продолжить жизни после фактического окончания трудовой карьеры

PENSION & ACTUARIAL CONSULTING

Figure 6.12. **Expected life years after labour market exit, OECD average 1970-2018**

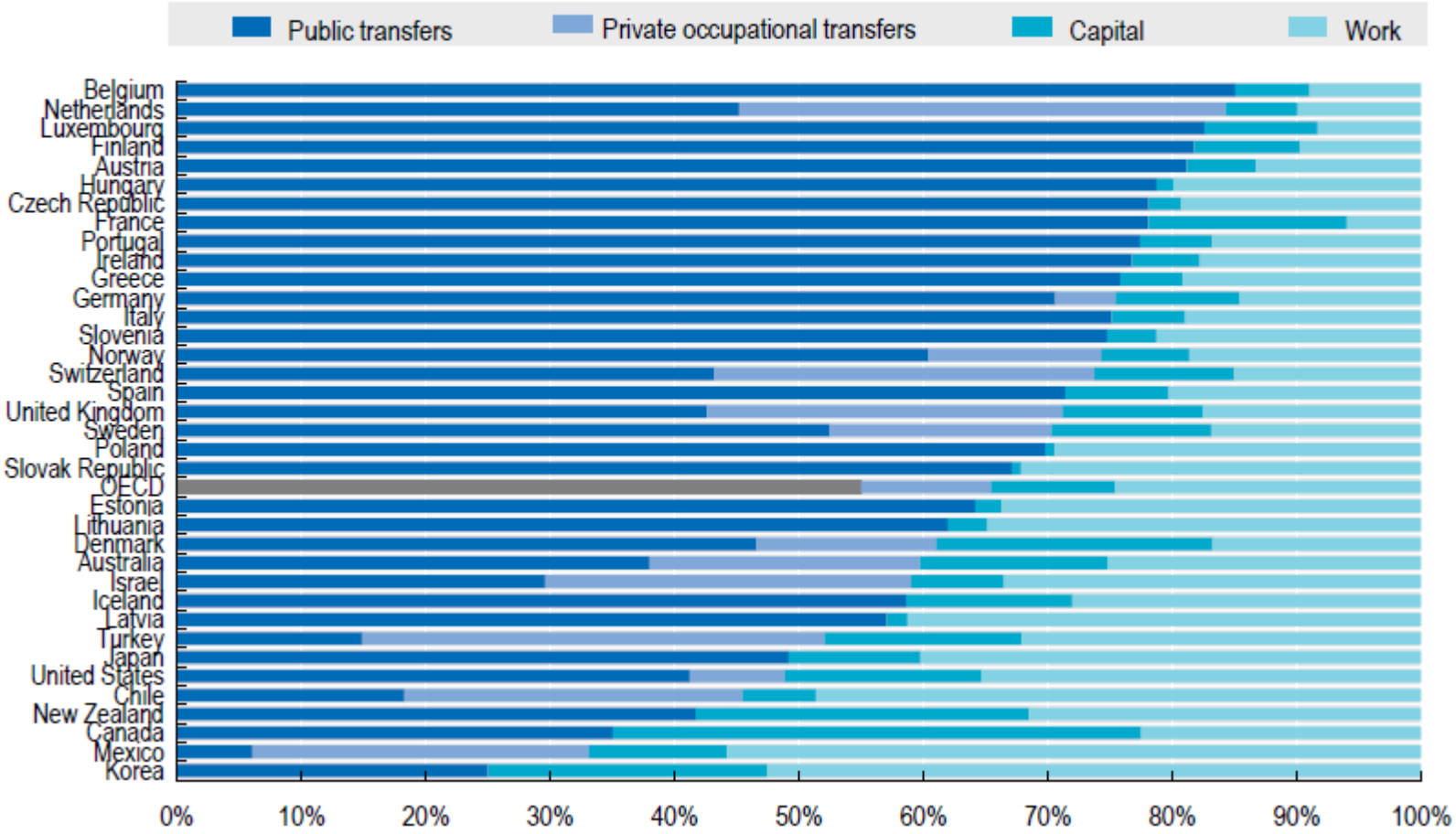


Основные источник дохода в старости

PENSION & ACTUARIAL CONSULTING

Figure 7.1. **Income sources of older people, 2016 or latest available year**

% of total equivalised gross household income and transfers



Уровень бедности

PENSION & ACTUARIAL CONSULTING

Table 7.2. **Income poverty rates by age and gender, 2016 or latest available year**

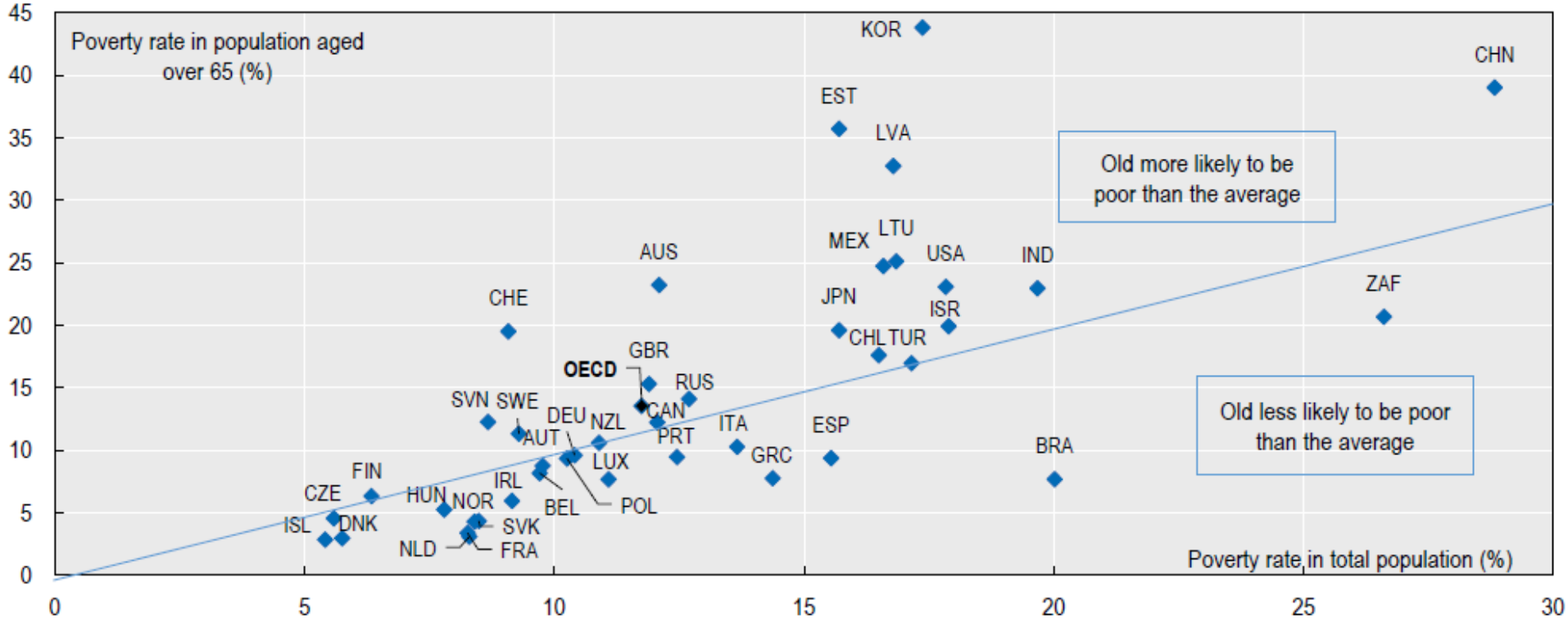
Percentage with income lower than 50% of median equivalised household disposable income

	Older people (aged over 65)					Total population		Older people (aged over 65)					Total population
	All	By age		By gender				All	By age		By gender		
		Age 66-75	Aged over 75	Men	Women				Age 66-75	Aged over 75	Men	Women	
Australia	23.2	19.5	28.7	21.2	24.8	12.1	Mexico	24.7	22.5	28.2	23.3	25.9	16.6
Austria	8.7	9.0	8.5	5.9	11.0	9.8	Netherlands	3.1	2.0	4.9	2.8	3.5	8.3
Belgium	8.2	8.0	8.4	7.0	9.1	9.7	New Zealand	10.6	7.7	15.2	6.6	14.0	10.9
Canada	12.2	10.9	14.3	9.3	14.7	12.1	Norway	4.3	2.4	7.3	2.1	6.2	8.4
Chile	17.6	17.7	17.4	17.6	17.5	16.5	Poland	9.3	10.1	8.2	5.5	11.8	10.3
Czech Republic	4.5	4.1	5.4	1.4	6.9	5.6	Portugal	9.5	7.8	11.3	7.2	11.1	12.5
Denmark	3.0	2.0	4.5	2.1	3.7	5.8	Slovak Republic	4.3	3.6	5.7	2.6	5.5	8.5
Estonia	35.7	29.3	43.0	21.4	42.8	15.7	Slovenia	12.3	10.5	15.0	6.8	16.3	8.7
Finland	6.3	3.7	10.0	4.6	7.6	6.3	Spain	9.4	8.7	10.1	7.8	10.6	15.5
France	3.4	2.8	4.1	2.6	3.9	8.3	Sweden	11.3	7.9	16.5	7.3	14.8	9.3
Germany	9.6	8.9	9.4	7.4	10.6	10.4	Switzerland	19.5	15.5	25.0	17.0	21.6	9.1
Greece	7.8	7.6	7.9	6.4	8.8	14.4	Turkey	17.0	14.3	21.0	14.9	18.5	17.2
Hungary	5.2	5.9	4.3	4.8	5.5	7.8	United Kingdom	15.3	12.1	19.7	12.5	17.7	11.9
Iceland	2.8	2.4	3.5	1.7	3.9	5.4	United States	23.1	19.7	28.3	19.6	25.9	17.8
Ireland	6.0	4.9	7.6	5.8	6.1	9.2	**OECD**	**13.5**	**11.6**	**16.2**	**10.3**	**15.7**	**11.8**
Israel	19.9	17.3	23.8	16.2	23.0	17.9							
Italy	10.3	10.0	10.6	7.9	12.1	13.7	Other G20 countries						
Japan	19.6	16.7	22.9	16.2	22.3	15.7	Brazil	7.7	7.9	7.3	7.5	7.8	20.0
Korea	43.8	35.5	55.9	37.1	49.0	17.4	China	39.0	37.7	41.5	37.9	40.1	28.8
Latvia	32.7	25.6	40.8	20.0	38.8	16.8	India	22.9	23.3	22.2	21.9	24.0	19.7
Lithuania	25.1	21.7	29.2	13.4	31.0	16.9	Russian Federation	14.1	15.0	12.7	8.4	17.0	12.7
Luxembourg	7.7	8.9	5.4	6.3	8.9	11.1	South Africa	20.7	20.5	21.1	13.3	24.7	26.6

Бедность 65+ vs общая бедность

PENSION & ACTUARIAL CONSULTING

Figure 7.2. **Income poverty rates by age: older vs. total population, 2016 or latest available year**



Средний доход в пересчете на USD

PENSION & ACTUARIAL CONSULTING

по обменному курсу и паритету покупательной способности

Table 7.5. **Average wage (AW), 2018**

	OECD measures of average wages			Exchange rate, national currency per USD	
	National currency	USD, market exchange rate	USD, PPP	Market rate	PPP
Australia	85 778	64 089	59 872	1.34	1.43
Austria	47 120	55 619	59 934	0.85	0.79
Belgium	48 455	57 196	61 877	0.85	0.78
Canada	53 550	41 327	43 022	1.30	1.24
Chile	9 669 058	15 078	23 883	641.28	404.85
Czech Republic	383 304	17 639	30 377	21.73	12.62
Denmark	421 547	66 757	60 578	6.31	6.96
Estonia	16 103	19 008	29 390	0.85	0.55
Finland	43 984	51 918	50 122	0.85	0.88
France	39 436	46 549	50 904	0.85	0.77
Germany	50 546	59 664	66 521	0.85	0.76
Greece	21 214	25 040	36 459	0.85	0.58
Hungary	4 138 492	15 316	29 474	270.21	140.41
Iceland	9 152 462	84 510	66 165	108.30	138.33
Ireland	46 774	55 211	58 292	0.85	0.80
Israel	153 221	42 673	40 836	3.59	3.75
Italy	31 292	36 937	44 807	0.85	0.70
Japan	5 188 742	46 990	51 184	110.42	101.37
Korea	48 166 599	43 766	55 975	1100.56	860.51
Latvia	11 881	14 025	23 796	0.85	0.50
Lithuania	11 121	13 126	24 303	0.85	0.46
Luxembourg	59 497	70 229	68 240	0.85	0.87
Mexico	122 208	6 350	13 027	19.24	9.38
Netherlands	51 567	60 868	64 662	0.85	0.80
New Zealand	60 360	41 764	40 828	1.45	1.48
Norway	596 477	73 345	58 813	8.13	10.14
Poland	54 191	15 004	30 490	3.61	1.78
Portugal	18 343	21 652	30 908	0.85	0.59
Slovak Republic	12 131	14 319	24 846	0.85	0.49
Slovenia	19 671	23 220	33 819	0.85	0.58
Spain	26 923	31 779	41 557	0.85	0.65
Sweden	453 539	52 176	50 839	8.69	8.92
Switzerland	90 908	92 964	76 419	0.98	1.19
Turkey	46 921	9 718	29 110	4.83	1.61
United Kingdom	39 328	52 467	56 169	0.75	0.70
United States	54 951	54 951	54 951	1.00	1.00
OECD		**41 479**	**45 624**		
Other G20 countries					
Argentina	294 613	10 486	18 748	28.09	15.71
Brazil	26 929	7 370	13 275	3.65	2.03
China	72 067	10 893	20 217	6.62	3.56
India	105 963	1 549	5 845	68.39	18.13
Indonesia	31 800 000	2 234	7 490	14236.94	4245.61
Russian Federation	470 303	7 505	18 340	62.67	25.64
Saudi Arabia	99 802	26 614	63 275	3.75	1.58
South Africa	119 977	9 061	19 592	13.24	6.12

Note: USD = United States of America Dollar, PPP = purchasing power parity.
Source: OECD (2019), *Taxing Wages 2019*, OECD Publishing Paris and OECD's National Accounts database.

Ставки и структура взносов

PENSION & ACTUARIAL CONSULTING

Table 8.1. **Mandatory pension contribution rates for an average worker in 2018**

	Nominal rate					Ceiling (in % of gross average earnings), public / private	Effective rate on average earnings
	Employee, public	Employer, public	Employee, private	Employer, private	Total		
Australia			0.0	9.5	9.5	252	9.5
Austria*	10.3	12.6			22.8	152	22.8
Belgium	7.5	8.9			16.4	115	16.4
Canada	5.0	5.0			9.9	104	9.9
Chile			11.2	1.2	12.4	268	12.4
Czech Republic*	6.5	21.5			28.0	375	28.0
Denmark*			4.0	8.0	12.0	None	12.8
Estonia	0.0	16.0	2.0	4.0	22.0	None	22.0
Finland*	6.7 [a]	17.7			24.4 [a]	None	24.4 [a]
France	11.2 [w]	16.3 [w]			27.5 [w]	None (806)	27.5
Germany*	9.3	9.3			18.6	154	18.6
Greece	6.7	13.3			20.0	342	20.0
Hungary	10.0	15.5			25.5	None	25.5
Iceland*	0.0	7.4	4.0	11.5	22.9	None	22.9
Israel	3.9 [w]	2 [w]	6.0	6.5	18.4 [w]	340 / 78	13.8
Italy*	9.2	23.8			33.0	324	33.0
Japan	9.15	9.15			18.3	230	18.3
Korea	4.5	4.5			9.0	117	9.0
Latvia	10.0	10.0			20.0	463	20.0
Lithuania*	8.7	0.0			8.7	921	8.7
Luxembourg*	8.0	8.0			16.0	202	16.0
Mexico			1.1	5.2	6.3	601	6.3
Netherlands	18.0	0.0	7.7 [w]	14.8 [w]	x [w]	66 / none	25.6
New Zealand					0.0		0.0
Norway	7.6	10.5	0.0	2.0	20.1	None / 193	20.1
Poland*	11.3	16.3			27.5	264	27.5
Portugal	7.2	15.5			22.7	None	22.7
Slovak Republic	4.0	14.0			18.0	633	18.0
Slovenia*	15.5	8.9			24.4	None	24.4
Sweden	7.0	10.2	0.0	4.5 [w]	21.7 [w]	111 / none	21.7
Switzerland	4.2	4.2	6.25 [a,w]	6.25 [a,w]	20.9 [a,w]	None / 93	16.6 [a]
Turkey	9.0	11.0			20.0	389	20.0
United States*	6.2	6.2			12.4	234	12.4
OECD33							**18.4**

Расходы на выплату пенсий (общегосударственная система)

PENSION & ACTUARIAL CONSULTING

Table 8.3. **Public expenditure on old-age and survivors benefits**

	Level (% of total government spending)		Level (% of GDP)					Change of level	Level in net terms (% of GDP)	Total including non-cash (% of GDP)
	2000	2015	1990	2000	2005	2010	2015	2000-2015	2015	2015
Australia	11.4	11.4	3.1	4.7	3.7	3.8	4.3	-0.4	4.3	5.3
Austria	23.3	26.1	11.3	11.9	11.9	13.0	13.3	1.4	10.9	13.9
Belgium	17.8	19.9	8.9	8.8	8.9	9.8	10.7	2.0	9.3	11.0
Canada	10.1	11.5	4.2	4.2	4.0	4.3	4.7	0.5	4.4	4.7
Chile			8.0	5.0	3.7	3.4	2.9	-2.1	2.9	2.9
Czech Republic	16.8	19.4	5.6	6.9	6.7	8.1	8.1	1.2	8.1	8.3
Denmark	12.0	14.8	6.1	6.3	6.5	7.2	8.1	1.8	5.9	10.2
Estonia	16.5	17.4		6.0	5.3	7.6	7.0	1.0	6.9	7.1
Finland	15.5	20.0	7.2	7.4	8.1	9.8	11.4	4.0	9.2	13.0
France	22.2	24.4	10.4	11.4	12.0	13.2	13.9	2.5	12.5	14.3
Germany	24.2	23.1	9.5	10.8	11.1	10.6	10.1	-0.7	9.7	10.1
Greece	21.9	31.3	9.5	10.2	11.4	14.2	16.9	6.7	15.7	16.9
Hungary	15.8	18.4		7.4	8.3	9.6	9.2	1.8	9.2	9.7
Iceland	5.1	4.9	2.2	2.1	1.9	1.6	2.1	0.0	1.8	2.5
Ireland	9.5	12.4	4.8	2.9	3.2	4.9	3.6	0.7	3.5	3.9
Israel	9.4	12.0		4.5	4.7	4.8	4.8	0.3	4.8	5.4
Italy	28.9	32.2	11.4	13.5	13.7	15.4	16.2	2.7	13.2	16.2
Japan		23.9	4.7	7.0	8.1	9.6	9.4	2.4	8.9	11.1
Korea	5.4	9.0	0.7	1.3	1.5	2.1	2.9	1.6	2.9	3.0
Latvia	23.2	18.4		8.7	5.5	9.3	7.0	-1.6	6.7	7.4
Lithuania	17.9	19.2		7.1	5.7	7.7	6.7	-0.4		6.9
Luxembourg	18.8	20.1	7.8	7.1	7.8	8.0	8.4	1.2	7.1	8.4
Mexico		7.9	0.4	0.8	1.0	1.6	2.2	1.5	2.2	2.2
Netherlands	11.2	12.0	6.3	4.7	4.7	5.0	5.4	0.7	4.9	6.2
New Zealand	13.0	12.7	7.2	4.8	4.2	4.6	4.9	0.1	4.2	4.9
Norway	11.2	13.5	5.5	4.7	4.8	5.2	6.6	1.9	5.3	8.8
Poland	24.9	26.4	5.0	10.5	11.3	11.1	11.1	0.7	9.6	11.2
Portugal	18.3	27.7	4.8	7.8	10.0	12.0	13.3	5.5	13.3	13.4
Slovak Republic	12.0	16.2		6.3	6.0	6.8	7.3	1.1	7.3	7.6
Slovenia	22.4	23.3		10.3	9.7	11.0	11.1	0.8	11.1	11.3
Spain	21.5	25.2	7.7	8.4	7.9	9.1	11.0	2.6	10.5	11.6
Sweden	12.9	14.4	7.3	6.9	7.2	7.3	7.2	0.3	5.5	9.4
Switzerland	17.8	19.1	5.1	6.0	6.2	6.1	6.5	0.5	5.1	6.8
Turkey		21.4	0.7	1.8	6.0	7.4	7.1	5.3	7.1	7.1
United Kingdom	13.4	14.8	4.5	4.8	5.0	6.3	6.2	1.4	5.9	6.6
United States	16.7	18.7	5.8	5.6	5.7	6.6	7.1	1.4	6.5	7.1
OECD	**16.3**	**18.4**	**6.3**	**6.6**	**6.8**	**7.7**	**8.0**	**1.4**	**7.3**	**8.5**

Расходы на выплату пенсий (частная накопительная система)

PENSION & ACTUARIAL CONSULTING

Table 8.4. **Private pension-benefit expenditures**

	Scheme type	Level (% of GDP)					Change of level	Public and private benefit spending (% of GDP)	Tax breaks (% of GDP)
		1990	2000	2005	2010	2015	2000-2015	2015	2015
Australia	m	0.0	2.9	1.9	3.4	4.7	1.8	9.0	1.7
Austria	v	0.4	0.6	0.5	0.6	0.7	0.1	14.0	0.0
Belgium	v	1.0	1.3	1.5	1.1	1.1	-0.2	11.8	0.2
Canada	v	2.5	3.9	4.2	3.4	3.1	-0.8	7.8	1.9
Chile	m	0.3	1.1	1.2	1.3	1.4	0.4	4.3	0.4
Czech Republic	v	0.0	0.2	0.2	0.4	0.3	0.1	8.4	
Denmark	q/m	0.0	0.0	0.0	2.0	2.6	2.6	11.5	
	v	1.6	2.4	2.5	1.2	0.8	-1.7		
Estonia								7.0	0.7
Finland	v	0.1	0.3	0.2	0.2	0.2	0.0	11.6	0.1
France	m	0.2	0.2	0.2	0.0	0.0	-0.1	14.1	0.1
	v	0.1	0.1	0.1	0.2	0.1	0.0		
Germany	v	0.7	0.7	0.7	0.8	0.8	0.1	10.9	1.0
Greece	v	0.3	0.0	0.1	0.1	0.1	0.0	16.9	
Hungary								9.2	0.0
Iceland	m	1.4	2.3	2.8	3.4	4.0	1.7	6.1	0.9
Ireland	v	0.9	1.0	1.5	1.8	1.1	0.1	4.7	1.0
Israel	v	0.0	0.7	1.5	1.3	1.3	0.5	6.1	1.2
Italy	v	1.1	1.1	1.1	1.3	1.2	0.1	17.4	0.0
Japan	m	0.2	0.4	0.4	0.6	0.5	0.0	12.1	
	v	0.0	2.8	2.1	2.6	2.3	-0.5		
Korea	v	0.2	0.6	0.4	0.4	0.8	0.2	3.7	
Latvia								7.0	0.1
Lithuania								6.7	
Luxembourg								8.4	
Mexico								2.2	0.2
Netherlands	q	3.6	4.6	4.9	5.5	5.8	1.2	11.2	
New Zealand								4.9	
Norway	v/m	0.6	0.6	0.6	0.6	1.0	0.4	7.6	0.2
Poland								11.1	
Portugal	v	0.3	0.2	0.3	0.2	0.7	0.5	14.0	0.0
Slovak Republic	v	0.0	0.2	0.4	0.3	0.4	0.2	7.7	
Slovenia								11.1	0.3
Spain	v	0.0	0.0	0.0	0.5	0.4	0.4	11.5	0.2
Sweden	q/m	1.2	1.7	1.9	2.3	2.9	1.3	10.1	
Switzerland	m	2.2	4.0	4.5	4.7	5.1	1.1	11.5	1.2
Turkey								7.1	
United Kingdom	m	0.1	0.4	0.5	0.6	0.7	0.4	11.2	1.2
United States	v	2.6	3.6	3.6	4.4	5.2	1.6	12.3	0.8
OECD		**0.7**	**1.2**	**1.2**	**1.4**	**1.5**	**0.3**	**9.5**	**0.6**

Прогноз расходов на выплату пенсий

PENSION & ACTUARIAL CONSULTING

В % от ВВП

Table 8.5. **Projections of public expenditure on pensions, 2015-60, % of GDP**

	2015-2016	2020	2025	2030	2035	2040	2045	2050	2055	2060
Australia	4.0							3.7		
Austria	13.8	13.9	14.0	14.4	15.0	14.9	14.6	14.6	14.7	14.7
Belgium	12.1	12.6	13.4	13.8	14.2	14.5	14.6	14.7	14.8	14.9
Canada	5.5							6.9		
Chile	5.1							4.2		
Czech Republic	8.2	8.1	8.1	8.2	8.5	9.2	10.1	10.8	11.5	11.6
Denmark	10.0	9.3	8.8	8.6	8.4	8.2	7.9	7.8	7.6	7.5
Estonia	8.1	7.8	7.3	7.2	7.1	7.1	7.1	7.1	7.1	6.9
Finland	13.4	13.8	14.5	14.8	14.5	13.9	13.4	13.2	13.2	13.5
France	15.0	15.0	15.3	15.4	15.3	15.1	14.4	13.8	13.1	12.5
Germany	10.1	10.3	10.8	11.5	11.9	12.0	12.1	12.2	12.4	12.5
Greece	17.3	13.4	12.2	12.0	12.3	12.9	12.6	12.5	11.9	11.5
Hungary	9.7	9.0	8.7	8.4	8.6	9.4	10.3	10.6	10.8	11.1
Iceland	3.3							3.5		
Ireland	5.0	5.1	5.5	5.8	6.3	6.7	7.1	7.4	7.5	7.2
Israel	5.3							6.2		
Italy	15.6	15.6	16.4	17.2	18.2	18.7	18.4	17.3	15.9	15.1
Japan	10.2							9.5		
Korea	2.6							6.3		
Latvia	7.4	6.8	6.2	6.2	6.3	6.3	6.1	6.1	6.1	5.6
Lithuania	6.9	7.0	6.9	7.1	7.2	7.0	6.8	6.5	6.3	6.0
Luxembourg	9.0	9.0	9.4	10.2	10.8	11.5	12.2	13.0	14.3	16.0
Mexico	1.8							3.0		
Netherlands	7.3	7.0	7.1	7.5	8.1	8.5	8.4	8.2	8.0	7.9
New Zealand	4.7							7.2		
Norway	10.7	11.0	11.5	11.7	11.9	11.9	11.9	12.0	12.2	12.5
Poland	11.2	11.1	11.2	11.0	10.8	10.8	11.0	11.2	11.3	11.1
Portugal	13.5	13.6	13.9	14.3	14.7	14.7	14.5	13.7	12.8	12.0
Slovak Republic	8.6	8.3	7.8	7.6	7.6	7.8	8.3	8.8	9.4	9.9
Slovenia	10.9	11.0	11.1	12.0	13.1	14.2	15.1	15.6	15.6	15.2
Spain	12.2	12.3	12.4	12.6	13.2	13.9	14.4	13.9	12.6	11.4
Sweden	8.2	7.6	7.4	7.2	7.0	6.8	6.6	6.6	6.8	7.0
Switzerland	9.8							10.7		
Turkey	7.2							5.6		
United Kingdom	7.7	7.7	8.0	8.0	8.4	8.6	8.3	8.3	8.6	8.9
United States	4.9							5.9		
OECD	**8.8**							**9.4**		
Argentina	7.8							10.4		
Brazil	9.1							16.8		
China	4.1							9.5		
India	1.0							1.0		
Indonesia	0.8							1.2		
Russian Federation	9.1							12.4		
Saudi Arabia	2.7							9.4		
South Africa	2.2							3.3		
EU28	10.3	10.0	10.0	10.2	10.4	10.6	10.7	10.7	10.8	10.7

Уровень охвата накопительными программами

PENSION & ACTUARIAL CONSULTING

Table 9.1. **Coverage of funded and private pension plans in selected OECD and other jurisdictions, latest year available**

As a percentage of the working-age population (15-64 years)

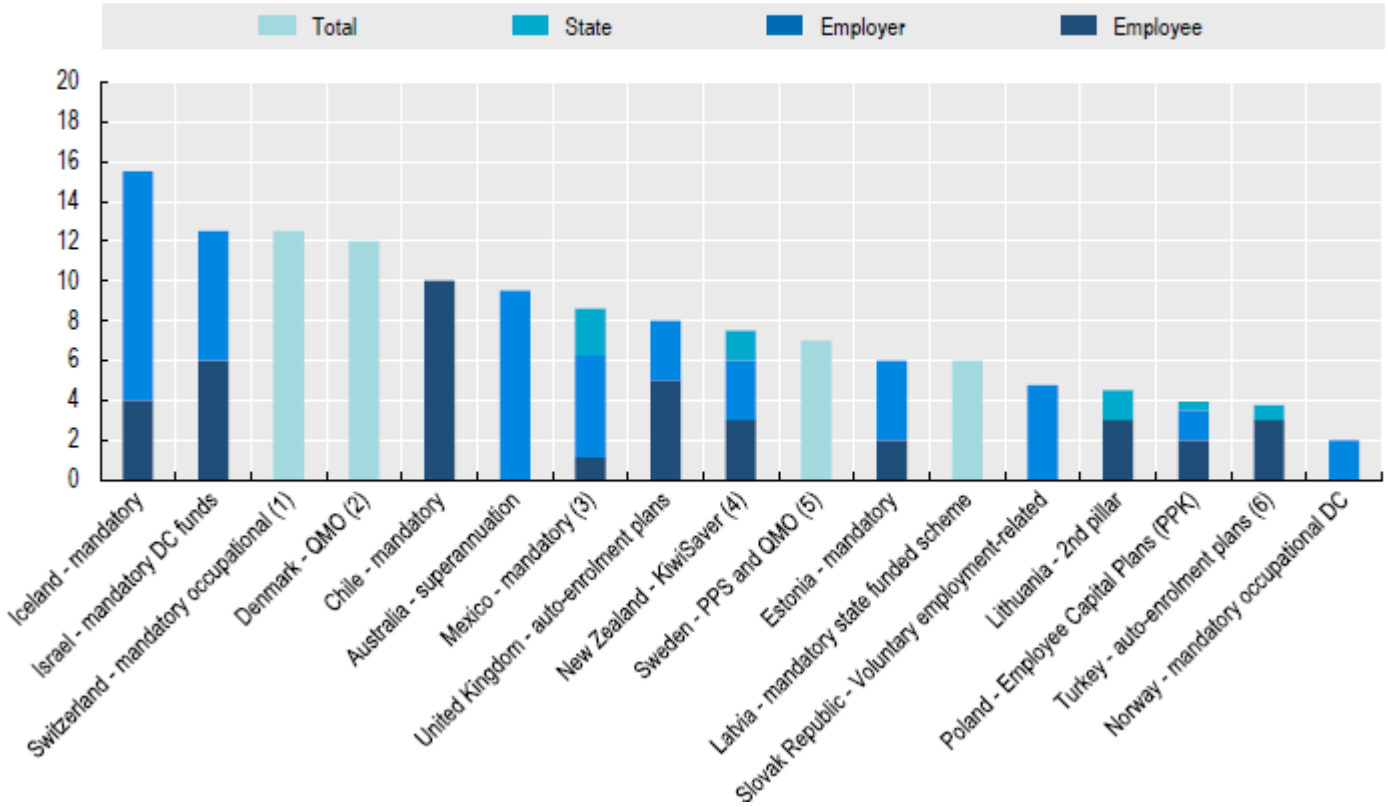
	Mandatory / Quasi-mandatory	Auto-enrolment	Voluntary		
			Occupational	Personal	Total
Australia	75.2	x	x	..	..
Austria	x	x	14.4	22.2	..
Belgium	x	x	50.6	..	..
Canada	x	..	26.4	24.9	..
Chile	86.7	x	..	..	..
Czech Republic	x	x	x	64.1	64.1
Denmark	ATP: 85.2 / QMO: 63.4	x	..	18.0	18.0
Estonia	85.8	x	x	11.2	11.2
Finland	93.0	x	7.0	18.0	25.0
France	x	x	25.2	7.8	..
Germany	x	..	57.0	33.8	70.4
Greece	..	x	<5	..	..
Hungary	x	x	..	18.7	..
Iceland	87.7	x	x	45.2	45.2
Ireland	x	x	38.3	12.6	46.7
Israel	78.2	x	..	..	..
Italy	x	..	10.1	12.3	20.6
Japan	..	x	50.5	14.7	54.3
Korea	16.9	x	x	..	..
Latvia	~100	x	1.0	19.0	..
Lithuania	x	x	x	75.5	75.5
Luxembourg	x	x	4.9	..	..
Mexico	65.4	x	1.9	..	..
Netherlands	88.0	x	x	28.3	28.3
New Zealand	x	80.2	6.8	..	..
Norway	57.9	x	..	23.1	..
Poland	x	x	1.8	66.4	..
Portugal	x	x	3.8	<=17.2	17.2
Slovak Republic	x	x	x	39.7	39.7
Slovenia	x	x	..	..	40.1
Spain	x	x	..	..	26.1
Sweden	PPS: ~100 / QMO: ~90	x	x	24.2	24.2
Switzerland	73.6	x	x	..	..
Turkey	1.5	6.4	..	12.5	..
United Kingdom	x	46.0	..	5.0	..
United States	x	..	43.6	19.3	..
Argentina	..	..	..	..	..
Brazil	x	x	1.9	10.7	..
China	..	..	..	..	..
India	..	..	..	..	..
Indonesia	..	x	0.4	1.6	..
Russian Federation	78.7	x	..	..	4.7
Saudi Arabia	..	..	..	..	..
South Africa	..	..	..	..	..

Минимальный или обязательный уровень взносов и их плательщики

PENSION & ACTUARIAL CONSULTING

Figure 9.1. **Minimum or mandatory contribution rates (for an average earner)**

As a percentage of earnings



Суммарные пенсионные накопления

PENSION & ACTUARIAL CONSULTING

Table 9.2. **Assets in funded and private pension plans and public pension reserve funds in OECD countries and other major economies, in 2018 or latest year available**

As a percentage of GDP and in USD million

	Funded and private pension plans		Public pension reserve funds	
	as a % of GDP	USD million	as a % of GDP	USD million
Australia	140.7	1 921 756	7.7	103 771
Austria	5.5	24 533	x	x
Belgium	10.9	56 038	x	x
Canada	155.2	2 524 309	28.4	472 278
Chile	70.2	193 110	5.1	14 138
Czech Republic	9.2	21 754	x	x
Denmark	198.6	677 088	x	x
Estonia	16.9	4 978	x	x
Finland	57.2	151 947	28.4	75 551
France	10.4	280 678	2.5	67 899
Germany	6.9	267 557	1.0	40 096
Greece	0.7	1 584	x	x
Hungary	5.3	7 968	x	x
Iceland	161.0	38 796	x	x
Ireland	33.9	125 746	x	x
Israel	57.4	203 224	x	x
Italy	9.8	197 817	x	x
Japan	28.3	1 400 143	28.8	1 478 578
Korea	28.5	455 985	34.2	573 155
Latvia	13.8	4 660	x	x
Lithuania	7.2	3 739	x	x
Luxembourg	2.7	1 853	30.8	20 762
Mexico	16.2	194 031	0.1	1 552
Netherlands	173.3	1 536 269	x	x
New Zealand	27.4	54 481	13.2	26 196
Norway	9.8	40 013	7.3	29 258
Poland	8.5	47 987	2.0	11 145
Portugal	19.3	44 543	8.1	18 911
Slovak Republic	11.7	12 038	x	x
Slovenia	6.8	3 595	x	x
Spain	12.5	173 285	0.4	5 725
Sweden	88.0	470 566	29.4	157 359
Switzerland	142.4	997 422	x	x
Turkey	2.5	17 541	x	x
United Kingdom	104.5	2 809 112	x	x
United States	134.4	27 549 363	14.3	2 939 300
OECD	**Simple: 49.7 Weighted: 82.3**	**Total: 42 515 512**	**Simple: 14.2 Weighted: 14.3**	**Total: 6 035 674**
Argentina	..	..	11.3	43 834
Brazil	25.5	449 315	x	x
China	1.7	215 526	3.3	437 900
India	1.0	23 472	..	..
Indonesia	1.8	18 029	..	..
Russian Federation	5.5	81 456	x	x
Saudi Arabia	..	..	..	..
South Africa	95.1	302 975	x	x

Номинальная и реальная доходность частных пенсионных фондов

PENSION & ACTUARIAL CONSULTING

Table 9.3. **Nominal and real geometric average annual investment rates of return of funded and private pension plans in 2018 and over the last 5, 10 and 15 years**

In per cent

	Nominal				Real			
	2018	5-year annual average	10-year annual average	15-year annual average	2018	5-year annual average	10-year annual average	15-year annual average
Australia	7.8	8.7	6.6	7.3	5.6	6.7	4.4	4.7
Austria	-5.3	2.7	3.8	3.1	-7.1	1.2	1.9	1.2
Belgium	-3.2	4.3	6.0	5.3	-5.4	2.8	4.1	3.3
Canada	2.7	6.5	7.5	6.6	0.7	4.7	5.7	4.8
Chile	1.5	6.5	7.4	6.7	-1.0	3.1	4.7	3.3
Czech Republic	0.4	0.8	1.4	2.1	-1.6	-0.5	-0.1	0.0
Denmark	-0.5	4.9	5.9	5.8	-1.3	4.2	4.6	4.2
Estonia	-2.3	2.3	4.2	2.6	-5.5	0.7	2.2	-0.7
Finland	-1.5	4.5	..	..	-2.6	3.9	..	..
Germany	1.9	3.5	3.9	4.0	0.4	2.5	2.7	2.5
Greece	-0.8	3.8	..	..	-1.4	4.1	..	..
Hungary	-1.7	5.0	..	..	-4.3	3.6	..	..
Iceland	5.6	6.4	7.2	7.6	1.8	4.2	3.7	2.7
Ireland	-5.2	..	..	..	-5.9	..	..	..
Israel	0.6	4.1	7.1	..	-0.2	4.2	5.8	..
Italy	-1.7	2.2	3.2	3.2	-2.8	1.7	2.0	1.7
Korea	3.3	3.6	4.1	4.0	2.0	2.3	2.2	1.7
Latvia	-4.4	1.5	3.6	2.8	-6.7	0.0	2.2	-1.0
Lithuania	-4.3	3.1	..	..	-6.0	1.7	..	..
Luxembourg	-3.4	2.5	3.7	..	-5.2	1.5	2.0	..
Mexico	-0.3	4.2	6.4	..	-4.9	0.0	2.3	..
Netherlands	-1.2	6.1	7.7	6.1	-3.1	4.9	6.0	4.4
Norway	-0.1	4.9	6.2	5.9	-3.4	2.3	4.0	3.7
Poland	-10.0	..	..	..	-11.1	..	..	..
Portugal	-1.1	2.8	3.3	3.7	-1.8	2.2	2.2	2.2
Slovak Republic	0.0	1.8	1.7	..	-2.0	1.1	0.4	..
Slovenia	-0.5	5.0	5.1	..	-1.9	4.3	3.8	..
Spain	-3.1	2.2	3.4	..	-4.3	1.6	2.1	..
Switzerland	-3.0	3.1	4.2	3.3	-3.6	3.1	4.2	2.9
Turkey	9.0	9.1	9.1	..	-9.4	-2.1	-0.2	..
United States	-4.9	2.3	4.8	2.6	-6.7	0.8	3.0	0.5
Brazil	5.9	..	..	..	2.1	..	..	..
Indonesia	3.8	9.5	..	..	0.6	5.0	..	..
Russia	2.8	6.4	..	..	-1.4	-0.7	..	..
South Africa	4.9	8.1	9.2	9.5	0.5	2.6	3.6	4.0

Номинальная и реальная доходность государственных накопительных программ

PENSION & ACTUARIAL CONSULTING

Table 9.4. **Nominal and real geometric average annual investment rates of return of Public Pension Reserve Funds in 2018 and over the last 5, 10 and 15 years**

In per cent

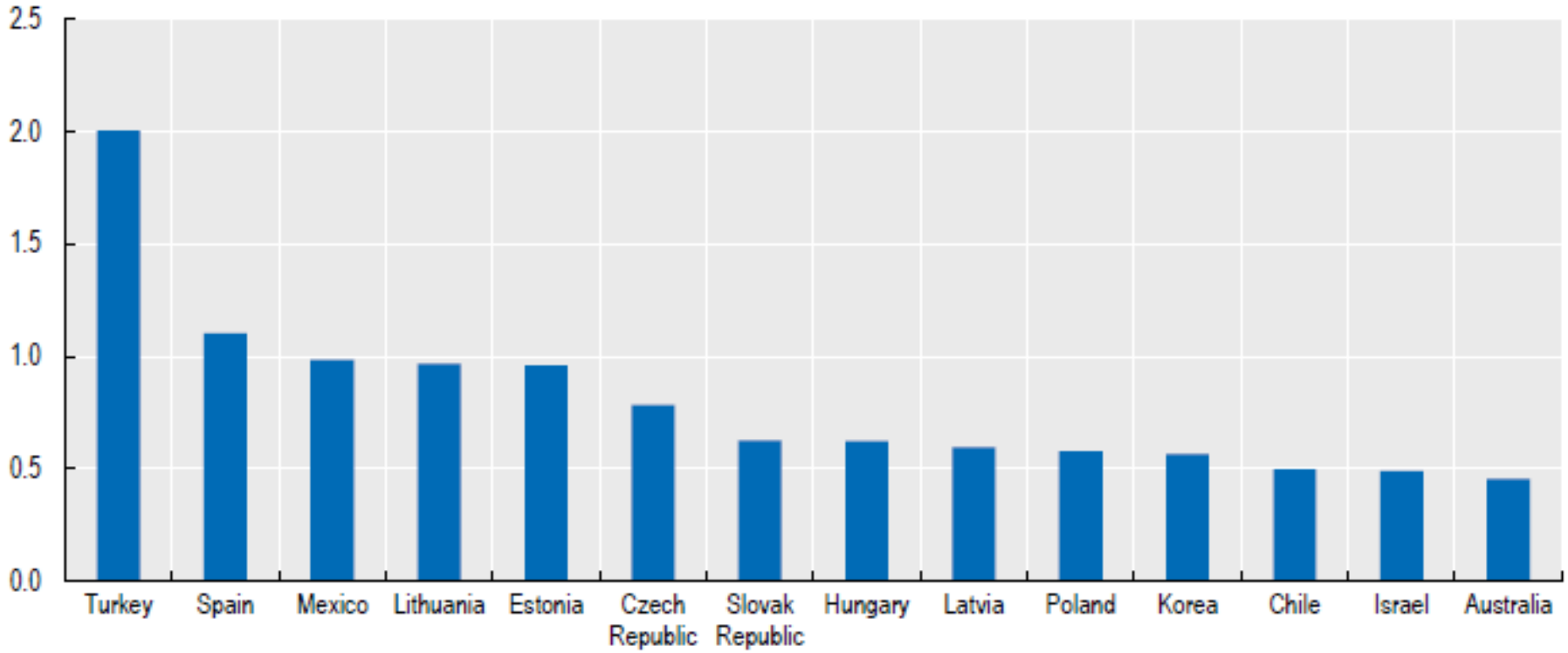
Country	Public Pension Reserve Fund	Nominal				Real			
		2018	5-year annual average	10-year annual average	15-year annual average	2018	5-year annual average	10-year annual average	15-year annual average
Australia	Future Fund	5.8	8.6	9.4	..	3.9	6.7	7.1	..
Canada	CPPIB	8.9	11.2	10.1	8.2	7.2	9.4	8.3	6.4
Canada	PSP Investments	7.1	..	..	..	5.4	..	..	..
Canada	Quebec Pension Plan	4.2	9.1	..	..	2.2	7.3	..	..
Chile	Pension Reserve Fund	9.1	7.7	3.2	..	6.3	4.2	0.6	..
Finland	VER	-3.4	4.4	..	..	-4.5	3.8	..	..
Japan	GPIF	1.5	4.4	5.0	3.6	1.2	3.5	4.6	3.3
Luxembourg	FDC	-2.3	4.2	4.5	..	-4.1	3.2	2.8	..
New Zealand	New Zealand Superannuation Fund	12.4	13.1	14.4	11.0	10.8	11.9	12.7	8.8
Sweden	AP1	-0.7	7.2	8.6	..	-2.7	6.1	7.5	..
Sweden	AP2	-1.3	6.9	8.9	..	-3.3	5.8	7.7	..
Sweden	AP3	0.6	7.8	8.5	..	-1.4	6.7	7.4	..
Sweden	AP4	-0.2	8.2	9.9	..	-2.2	7.0	8.7	..
Sweden	AP6	9.6	9.4	7.8	..	7.4	8.3	6.7	..

Годовая комиссия провайдер в % от активов

PENSION & ACTUARIAL CONSULTING

Figure 9.6. **Annual fees or commissions charged to members, 2018 or latest year available**

As a percentage of total assets



Принципы формирования вознаграждения при управлении пенсионными накоплениями

PENSION & ACTUARIAL CONSULTING

Table 9.6. **Fee structure in selected OECD countries**

	Fees on salaries	Fees on contributions	Fees on assets	Fees on returns / performance	Other fees (e.g. exit fees, entry fees, switching fees)
Australia (except MySuper)	No cap	No cap	No cap	No cap	No cap
Chile	No cap	x	x	x	x
Czech Republic - transformed funds	x	x	Capped	Capped	Capped
Czech Republic - participation funds	x	x	Capped	Capped	Capped
Denmark	No cap	No cap	No cap	No cap	No cap
Estonia - mandatory schemes	x	x	Capped	x	Capped
Estonia - voluntary schemes	x	x	No cap	x	No cap
Ireland	No cap	No cap	No cap	No cap	No cap
Israel	x	Capped	Capped	x	x
Italy	x	No cap	No cap	Possible but rare	No cap
Korea - occupational DC	x	x	No cap	x	x
Latvia - state funded scheme	x	Capped	Capped	Capped	x
Latvia - private pension funds	x	No cap	No cap	No cap	x
Lithuania - 2nd pillar	x	x	Capped	x	Capped
Lithuania - 3rd pillar	x	No cap	No cap	x	Capped
Mexico	x	x	No cap	x	x
Poland - open pension funds	x	Capped	Capped	Capped	x
Poland - PPK	x	x	Capped	Capped	No cap
Portugal	No cap	No cap	No cap	No cap	Capped
Slovak Republic - 2nd pillar	x	Capped	Capped	Capped	x
Slovak Republic - 3rd pillar	x	x	Capped	Capped	Capped
Spain	x	x	Capped	x	x
Sweden - Premium pension	x	x	Capped	x	x
Turkey - auto-enrolment plans	x	x	Capped	Capped	x
United Kingdom - default funds	x	x	Capped	x	x
United States	No cap	No cap	No cap	No cap	No cap