



Pension projections of Slovakia 2020 update

February 2020

MINISTRY OF FINANCE
OF THE SLOVAK REPUBLIC



Outline

- Overview of the Slovak pension system
- Changes in the pension system in 2019
- Projection results: 2020 Update
- Projection comparison: 2018 AR vs. 2020 Update



Overview of the Slovak pension system (Prior the 2019 reform)



Structure of the Slovak pension system

Universal pension system	Pension system of armed forces	
I. pillar – PAYG, mandatory, defined-benefit (point system – earning related), public	Armed forces scheme - PAYG, mandatory, defined-benefit, public	
II. pillar – fully-funded, quasi-manadatory (opt-in), defined-contribution, private		
Voluntary fully-funded "third pillar"		
III. pillar - voluntary, DC, private		
Social assistance		
Minimum pensions and Christmas bonus 0.pillar – universal benefit, means-tested, public		



I Universal system

- Old-age benefit (Defined-benefit point system)
 - average personal pension point * contributory period * current pension point value
 - Statutory retirement age linked to life expectancy
- Disability benefit modified by work capacity loss
- Survival benefit widow/ widower/ orphan
- Financed through social insurance contributions
 - Old-age insurance 18 % of gross wage (split if one participates in the second pillar)
 - Reserve fund of solidarity 4.75 % of gross wage
 - Disability insurance 6 % of gross wage



Universal system – Additional schemes

Minimum pensions (MP)

- Minimum pension is a top-up to old age pension
- MP = subsistence minimum * coefficient (1.36 for 30 years of insurance)
- Increases with the number of qualified years
- Almost 5 % of pensioners eligible in 2016, with total costs 20 mil. euros

Christmas bonus

- Amounts to 100 euro (circa 10% of the average gross monthly wage)
- All pensioners with benefit below 60 % of average wage were eligible
- The value decreases with higher pensions
- No legislated indexation



Changes in the pension system in 2019



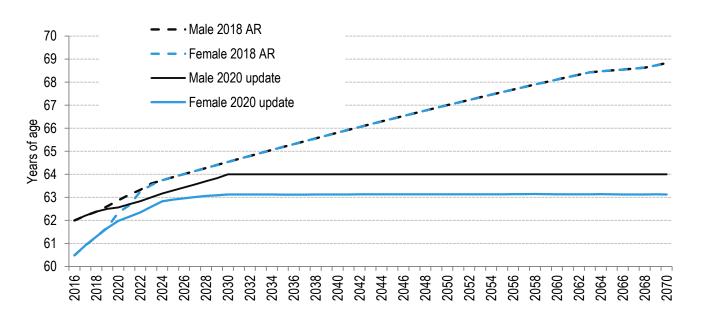
I 2019 Reform

- The reform consists of 4 individual changes:
- 1. Retirement age cap Retirement age can not exceed age 64 years
- 2. Change in minimum pensions Increased value and indexation change
- 3. Increase of Christmas bonus
- 4. Change in the first pillar benefits for the second pillar participants



Retirement age cap

- Retirement age formerly linked to life expectancy
- Women's retirement age was supposed to converge to men's by 2024
- Under new provisions, retirement age can not exceed 64 years
 - Further decreased for mothers by 6 months for every child up to 3 children





I Change in minimum pensions

- Minimum pension is a top-up to old age pension
- Formerly based on subsistence level (SL)
 - Indexed roughly to CPI
- The reform increased the basic level by 17 % from
 136 % of SL to 33 % of average wage (AW)
- Basic level now indexed to average wage
- The bonus for additional years of paid insurance remains unchanged

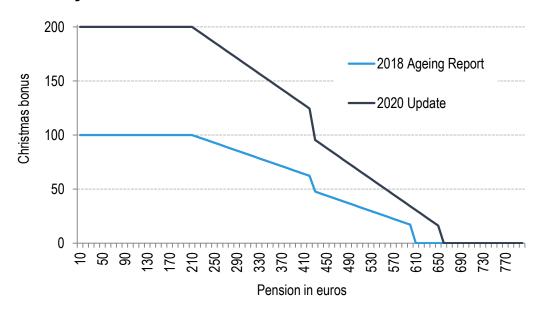
Career length in years	Former legislation	New legislation
30	136 % SL	33 % AW
31	138 % SL	33 % AW + 2 % SL
32	140 % SL	33 % AW + 4 % SL
33	142 % SL	33 % AW + 6 % SL
34	144 % SL	33 % AW + 8 % SL
35	146 % SL	33 % AW + 10 % SL
36	148 % SL	33 % AW + 12 % SL
37	150 % SL	33 % AW + 14 % SL
38	152 % SL	33 % AW + 16 % SL
39	154 % SL	33 % AW + 18 % SL
40	157 % SL	33 % AW + 21 % SL
41	160 % SL	33 % AW + 24 % SL
42	163 % SL	33 % AW + 27 % SL
43	166 % SL	33 % AW + 30 % SL
44	169 % SL	33 % AW + 33 % SL
45*	172 % SL	33 % AW + 36 % SL



I Increasing Christmas bonus

- Christmas bonus was doubled in 2019, maximum value now 200 euros
- Pensioners with benefit lower than 65 % of the average national wage entitled to Christmas bonus
 - Formerly 60 % of the average national wage

Remains formally unindexed





Change in benefit for the second pillar participants

- First pillar benefit is reduced for second pillar participants
- Social insurance also includes contributions to Reserve fund of solidarity (4.75 %)
 - The fund is used to pay out first pillar pensions

 $\frac{Second\ pillar\ contribution\ rate_t}{Old\ age\ insurance\ rate_t}$



Second pillar contribution $rate_t$

 $Old\ age\ insurance\ rate_t + Reserve\ fund\ of\ solidarity\ rate_t$

In 2018, contribution rate to first pillar was 13.5 % and to second pillar 4.5 %

Former reduction:
$$\frac{4.5\%}{18\%} = 25\%$$

New reduction:
$$\frac{4.5 \%}{18\% + 4.75\%} = 20 \%$$



Projection results: 2020 Update



Assumptions: legislation vs. projections

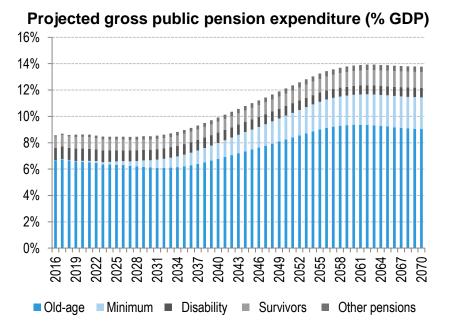
- Two expenditures are modeled with different assumption than in legislation:
- 1. **Minimum pensions** are fully indexed to wages both pre- and post- reform
 - Before reform fully indexed to CPI in legislation
 - After reform, basic level indexed to average wage
 - The change in indexation of minimum pensions has no effect on expenditures, as indexation of wages assumed in both rounds

- 2. Christmas bonus is indexed to wages
 - No legislated indexation pre- or post- reform

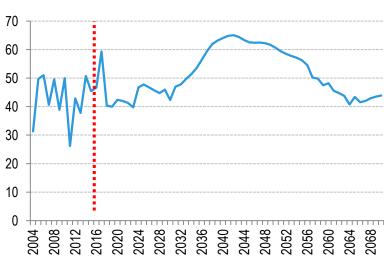


Overview of results

- Pension expenditure will increase by 5.2 p.p. of GDP between 2016 and 2070
 - Increase from 8.6 % GDP to 13.8 % GDP
- The increase will begin after 2030 due to
 - Demographic changes
 - Slower GDP growth



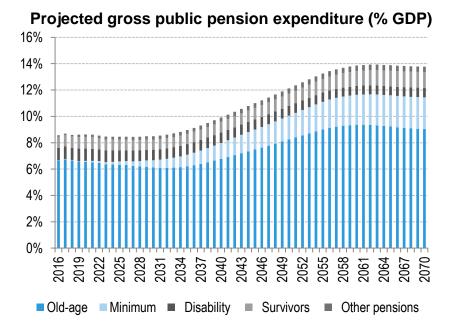
Number of new old-age pensions (thousands)





Main drivers of expenditure increase

- Old-age pension expenditures will increase due to:
 - Strong cohorts retiring after 2035
 - Retirement age cap
- Minimum pension expenditures will increase as:
 - People spend more time in retirement old-age pensions indexed to inflation
 - Minimum pensions indexed to wages, hence more people become eligible

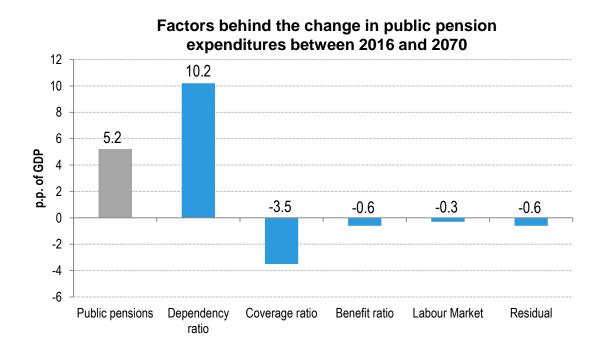


Number of new old-age pensions (thousands)



Overview of projection results

- Dependency ratio is the main driver of pension expenditures
- Coverage ratio has mitigating effect due to increasing retirement age and decreasing number of pensioners





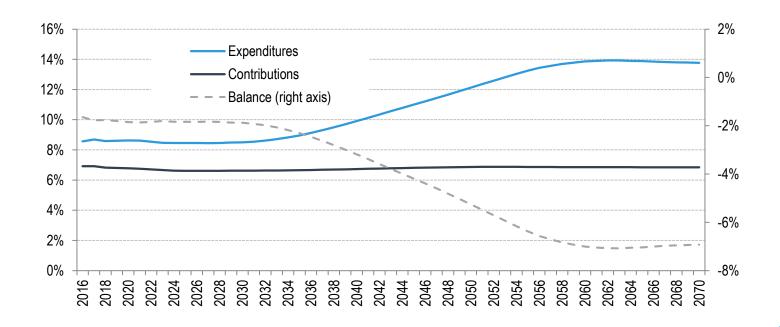
Financing of the public pension system

Revenue

Remains stable around 7 % of GDP

Balance

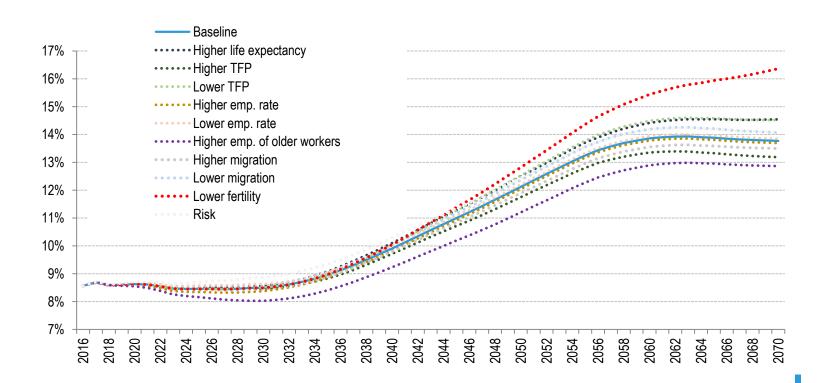
- Deficit increases in line with increasing expenditure
- Highest deficit 7.1 % of GDP in 2063





Sensitivity scenarios

- Large effect (in 2070)
 - Lower fertility (2.6 p.p.)
 - Higher participation of older workers (-0.9 p.p.)
 - Higher life expectancy (0.8 p.p.) due to retirement age cap

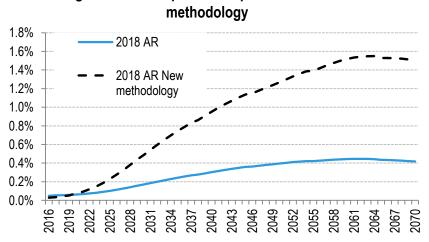






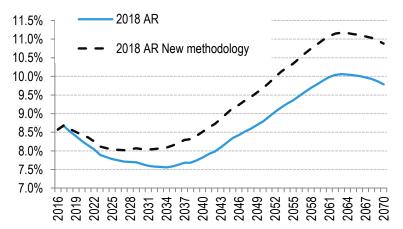
I Methodology change

- Minimum pension projection used in AR 2018 were significantly underestimated
 - This was due to a simplified approach to modelling of this new policy.
 - Expenditures should increase to 1.5 % of GDP in 2070 instead of 0.4 % of GDP
- Pension expenditures increase from 8.6 % to 10.9 % of GDP in AR 2018 New Methodology
 - Under former methodology the increase was to 9.8 % of GDP



Change in minimum pension expenditure due to new

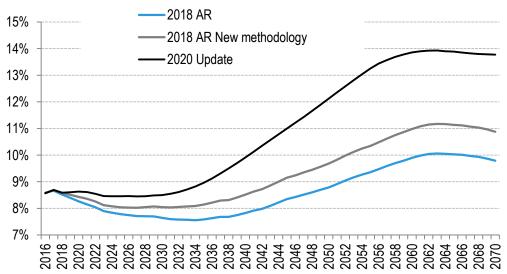
Change in overall pension expenditure due to new methodology





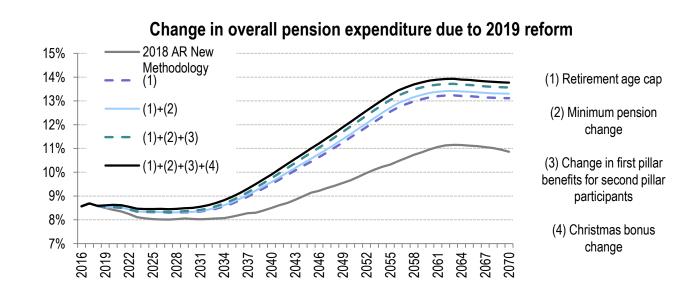
- Overall pension expenditure in 2070 increase by 4 p.p. of GDP
 - 1.1 p.p. is due to methodological corrections
 - 2.9 p.p. is due to adopted changes
- The increase against previous round will start already in 2020
 - Significant increase between 2030 and 2060

Change in overall pension expenditure due to 2019 reform



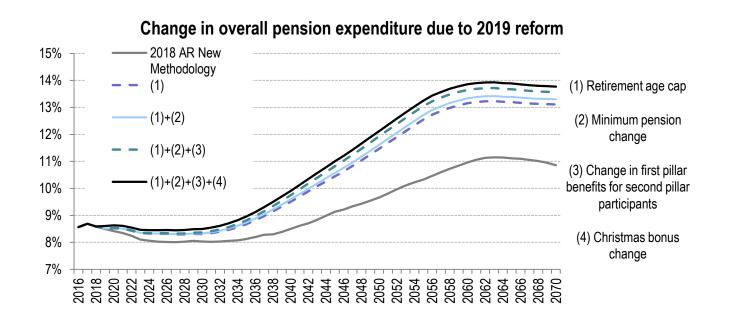


- Overall pension expenditure will increase by 2.9 p.p. of GDP due to adopted changes
- The most significant change will be due to retirement age cap (2.2 p.p.)
- Change in minimum pension only has a small effect (0.2 p.p.)
 - Change in indexation not considered between projection rounds





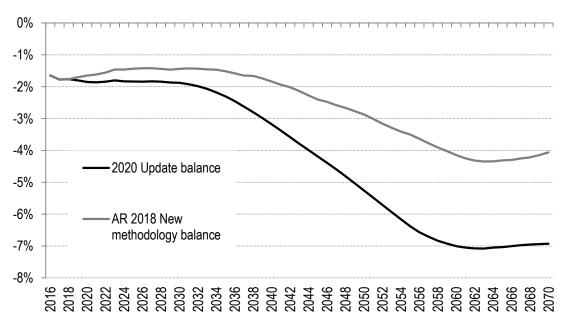
- Overall pension expenditure will increase by 2.9 p.p. of GDP due to adopted changes
- Change in the first pillar benefits for the second pillar participants will add an additional 0.3 p.p. of GDP in 2070
- Doubling the Christmas bonus will have an additional effect of 0.2 p.p. in 2070





- The contributions remain relaitvely stable near 7 % of GDP in both projection rounds
- The deficit increases by 3 p.p. in 2070 from 4 % of GDP to 7 % of GDP

Change in pension system balance due to 2019 reform



Thank you for your attention