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Federal Liabilities: 2017 Update

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Summary

The 2016 Financial Report of the United States Government (FRUSG) identifies total federal liabilities of \$22.8 trillion as of September 30, 2016. The debt held by the public, \$14.2 trillion, comprises 61% of these liabilities. Federal employees' accrued benefits make up another 31%, and various other categories round out the remainder.

Absent from the official liabilities is a measure of current retirees' expected Social Security and Medicare benefits even though these elderly entitlement benefits are conceptually equivalent to federal employees' accrued benefits. The Social Security and Medicare benefits payable to retirees do appear in the FRUSG's Statements of Social Insurance, but not as liabilities. We suggest adding these portions of the elderly entitlement programs' obligations – net benefits payable to current retirees – to the official liabilities of the federal government.

Social Security and Medicare benefits payable to current retirees produces an additional liability of \$19.8 trillion, an amount that exceeds the debt held by the public and that is 87% of the size of the official liability measure. Together the official liabilities and the Social Security and Medicare benefits to be received by current retirees total \$42.6 trillion, or 229% of GDP.

The liability measure presented here – based on past actions – combined with the forward-looking fiscal gap and unfunded obligation measures provide policymakers with a comprehensive set of metrics that allows them to distinguish between federal government commitments that have already been made and those that are contingent on continuing programs in their current forms.

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Toward a Comprehensive Measure of Federal Liabilities

This is our fourth annual report highlighting federal liabilities in which we add Social Security and Medicare benefits payable to current retirees to the *official* federal liabilities to arrive at a more comprehensive measure of the government's indebtedness.¹

In a nutshell, our argument for including the Social Security and Medicare benefits payable to current retirees as federal liabilities is based on the following observations. First, Social Security and Medicare benefits payable to current retirees meet the definition of liabilities as articulated in the Financial Report of the United States Government (FRUSG): "Liabilities are obligations of the Government resulting from prior actions that will require financial resources."² Second, accrued entitlement benefits are conceptually equivalent to the federal employees' accrued benefits that are reported as federal liabilities. Third, limiting the Social Security and Medicare benefits to those payable to current retirees, as we do here, provides a conservative estimate of the total entitlement debt. In sum, excluding the entitlements benefits payable to current retirees underestimates the liability position of the federal government.

This exercise is unique from other ways of accounting for the federal government's obligations because it recognizes the portions of Social Security and Medicare accrued benefits – those expected by current retirees – that are extremely likely to be paid in full and are tied to past actions. As we will illustrate, this subset of accrued benefits is largely protected from legislative reforms.

Here we distinguish between the federal government's commitments arising from *past* actions in contrast to commitments that may arise from *future* actions. Importantly, it complements the established ways of reporting on the financial status of the Social Security and Medicare programs. The programs' unfunded obligation measures combine already accrued benefits with yet-to-be-accrued benefits net of expected future revenues that presuppose the continuation of the programs into the indefinite future.

Accounting for liabilities arising from the federal government's past actions gives policymakers additional understanding of the government's current indebtedness before they consider future government spending either through continuation or expansion of current programs or through new programs. This report offers a conservative estimate of the liabilities that are essentially already on the government's books.

All of the liabilities represent either commitments to bond holders, to current retirees, or to current federal military or civilian employees. These liabilities are all largely unaffected by policy changes, are less affected by forecasting assumptions, and collectively provide an important starting point in accounting for how much the federal government owes today, based on what it

has done in the past. While retirees do not have ownership rights to their Social Security and Medicare benefits, the payment of these benefits in full is expected. Few of the reform proposals receiving serious consideration significantly reduce current retirees' benefits. Changing the cost of living adjustment for Social Security would have modest effects on retirees' accrued benefits. Higher Medicare premiums for high income retirees definitely reduce their net benefits, but the effect on the overall amount of retirees' accrued benefits is limited. Given these considerations, retirees' accrued benefits deserve additional attention to be treated essentially the same as the government's other liabilities.

The 2016 FRUSG identified liabilities totaling \$22.8 trillion as of September 30, 2016. Adding the \$19.8 trillion in Social Security and Medicare benefits payable to current retirees produces a total of \$42.6 trillion in federal liabilities. The Social Security and Medicare benefits payable to current retirees are 40% larger than the debt held by the public and are 47% of the total liabilities that include them.

The proposed total federal liabilities are equal to 229% of GDP, which is three times the publicly held debt's share of GDP at 77%. These total liability claims on future resources represent more than a dozen years of all federal tax revenues at their 50-year average share of GDP of 17.4%.³

The Liabilities of the U.S. Government

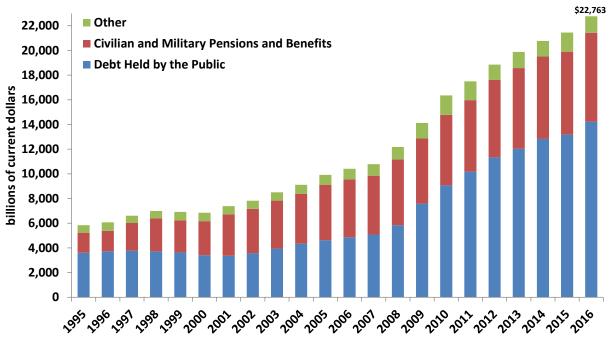
Each year the FRUSG identifies the government's assets and liabilities on the federal government's balance sheet. As of September 30, 2016, the federal government's assets totaled about \$3.5 trillion and were comprised of financial assets (loans receivable, inventories, and cash) and of nonfinancial property assets. Additionally, the government owns stewardship assets and has the power to tax and set monetary policy.

Though the \$3.5 trillion in assets is sizable, the liabilities of the federal government dwarf this amount. The liabilities reported in the FRUSG include the debt held by the public, the federal civilian and military employees' accrued pension benefits, other retirement and disability benefits, as well as other liabilities. Figure 1 presents the liabilities of the U.S. government from 1995 to 2016. As of September 30, 2016:

- the debt held by the public was \$14.2 trillion,
- federal employee and veteran benefits totaled \$7.2 trillion,
- and the other liabilities were about \$1.3 trillion,
- producing total liabilities of \$22.8 trillion.⁴

Figure 1 also illustrates the rapid growth in the federal liabilities in the years following the "Great Recession." The liabilities almost doubled between 2007 and 2016 primarily due to the deficits' additions to the debt held by the public. The debt held by the public in 2007 comprised 47% of the total liabilities reported in the FRUSG, but as of 2016, it accounted for 77%.⁵

Figure 1. Liabilities of the U.S. Government from the Financial Reports of the United States Government



Sources: Financial Reports of the United States Government (1998-2016) and Consolidated Financial Statements of the United States Government (1995-1997).

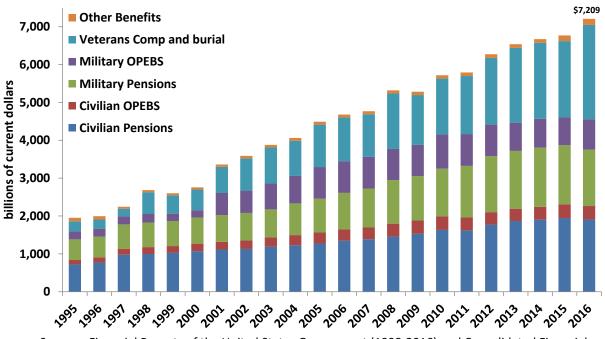
One further note is merited at this point. Trust fund assets, like those held in the Social Security and Medicare Trust Funds, are assets to the particular agencies, but are also liabilities of the Treasury and thus cancel each other in the consolidated financial statements.

Accrued Civilian and Military Pension and Benefit Liabilities

In addition to publicly held debt, the federal government's other major class of liabilities are the accrued retirement benefits of military and civilian employees. The benefits come in the form of pensions and other post-employment benefits (OPEBs) – mainly health care benefits. Figure 2 depicts the evolution of these accrued benefits from 1995 to 2016. The \$7,209 billion in accrued benefits as of September 2016 are comprised of:

- civilian pensions equal to \$1,910 billion (27% of the total),
- military pensions of \$1,490 billion (21% of the total),
- veterans' compensation and burial benefits of \$2,497 billion (35% of the total), and
- civilian and military OPEBs and other benefits of \$1,312 billion (19% of the total).

Figure 2. Accrued Civilian and Military Pension and Benefit Liabilities



Sources: Financial Reports of the United States Government (1998-2016) and Consolidated Financial Statements of the United States Government (1995-1997).

The veterans' compensation category includes disability and survivors' benefits. Since 1995 this category has grown from 14% of the total accrued benefits to its present share of 35%. Altogether, the accrued benefits grew from 25% of contemporaneous annual GDP in 1995 to 39% of GDP in 2016.

These liabilities are partially backed by intergovernmental securities, like those held in the Social Security and Medicare Trust Funds. However, as is the case with the entitlement programs' trust fund assets, the annual financial report of the Office of Personnel Management (OPM) makes clear that the assets held by the federal employee pension plan are concurrently liabilities of the Treasury and that the resources to pay benefits are not set aside by the federal government.⁶

"All of OPM's investments are in U.S. Treasury and Federal Financing Bank securities held by trust funds – the Retirement, Health Insurance, and Life Insurance Programs. The Federal Government does not set aside assets to pay future benefits or other expenditures associated with the trust funds."

OPM Fiscal Year 2016 Agency Financial Report, p. 71.

Debts, Liabilities, Obligations, Gaps and Imbalances

The emphasis here on liabilities associated with past actions differs from the forward-looking measures of the federal government's future obligations associated with both past and future actions. The forward-looking measures include the Social Security and Medicare programs' unfunded obligations and broader government-wide measures like the fiscal gap and the fiscal imbalance. All of these forward-looking measures provide for a complete understanding of the resources necessary to cover the government's future commitments assuming the continuation of current policies. The narrower focus here takes a retrospective view in defining a federal liability. The connection between the forward-looking measures and the retrospective view taken in the present report is discussed in *A Primer on Measures of Government Financing Shortfalls and Liabilities*.¹

The forward-looking measures of an elderly entitlement program's unfunded obligation begins with the difference between the present values of future expenditures less future revenues for a particular time horizon – 75 years or the infinite horizon. The current value for the Trust Fund partially offsets this amount, producing the unfunded obligation. The calculation of the unfunded obligation is subject to the assumptions made about future economic conditions, demographic changes, and in the case of Medicare the all-important rate of per capita health care spending growth and its relationship to per capita income growth.

Two additional forward-looking measures that take into account the entire federal government are the fiscal gap and the fiscal imbalance. The 75-year fiscal gap is regularly estimated by the Congressional Budget Office (CBO) and by the Office of Management and Budget (OMB). The fiscal gap is often defined as the degree by which the primary surplus (the surplus not including interest payments) must increase relative to current law tax and spending policies, expressed as a percentage of GDP, such that the ratio of the debt to GDP at the end of the projection period is the same as the current ratio. Thus, with this definition the debt held by the public is not repaid, it is only required to remain at its current share of GDP.

The fiscal imbalance measure as discussed in Gokhale and Smetters (2003) does include the repayment of the debt and is calculated over the infinite horizon.ⁱⁱ Like the unfunded obligation measures for Medicare and Social Security, the fiscal gap and the fiscal imbalance are sensitive to long-run economic and demographic assumptions and to interpretations and applications of current law tax and spending policies. In contrast, the accrued benefits of current retirees are much less sensitive to the long-run assumptions, as will be illustrated in a subsequent section.

As an example of how sensitive the fiscal gap is to legislative change, consider the effects of the passage of the Affordable Care Act (ACA) on the on the fiscal gap. The OMB's fiscal gap measures are presented in *Analytical Perspectives*, a document that accompanies the annual publication of the *Budget of the U.S. Government*. The pre-ACA estimate of the 75-year fiscal gap was 8.0% of GDP in the Fiscal Year 2011 *Analytical Perspectives* (p. 52), but one year later, the new estimate of the fiscal gap, that included the optimistic forecast of future Medicare spending, fell to only 1.8% of GDP in the Fiscal Year 2012 *Analytical Perspectives* (p. 56).

¹A Primer on Measures of Government Financing Shortfalls and Liabilities, August 2016, <u>http://perc.tamu.edu/perc/Publication/policybrief/report 7 20162.pdf</u>

ⁱⁱ Gokhale, Jagadeesh and Kent Smetters, *Fiscal and Generational Imbalances*, 2003, American Enterprise Institute Press, Washington, DC.

Unfunded Obligations and Current Retirees' Expected Social Security and Medicare Benefits

The relation between the accrued benefits of current retirees and workers, and the futureoriented unfunded obligation measures for Medicare and Social Security, is laid out in *A Primer on Measures of Government Financing Shortfalls and Liabilities*.⁷ The Medicare and Social Security Trustees Reports provide annual estimates of the programs' respective unfunded obligations and some of those components are incorporated into Table 1. Table 1 illustrates how the benefits payable to current retirees are related to the comprehensive accounting of a program's future scheduled benefits and dedicated tax revenues under current law.⁸

The benefits payable to current retirees net of their tax and premium payments in support of the programs are given in the first row of the table.⁹ Net accrued Social Security benefits payable to participants who have attained the eligibility age of 62 totaled \$12.33 trillion as of 2016. Net Medicare benefits payable to participants who have attained the eligibility age of 65 totaled \$7.51 trillion as of 2016, and together the net Social Security and Medicare benefits payable to current retirees were \$19.84 trillion.

Table 1. Social Security and Medicare Funding Shortfalls			
2016 Trillions of do	Social Security	Medicare	Total
Net benefits accrued by current retirees	\$12.33	\$7.51	\$19.84
Net benefits of current workers	\$19.57	\$25.69	\$45.26
100 year closed group	\$31.90	\$33.20	\$65.10
Net benefits of future workers	\$3.00	\$22.30	\$25.30
Total infinite horizon additional funding requirements	\$34.90	\$55.50	\$90.40
Trust Fund	\$2.81	\$0.26	\$3.08
Total infinite horizon additional funding requirements less Trust Funds	\$32.09	\$55.24	\$87.32

Sources: *Financial Report of the United States Government, Fiscal Year 2016* and the 2016 Social Security and Medicare Trustees Reports. Net benefits are expected future expenditures less dedicated payroll taxes, taxes on Social Security benefits, premiums, and state transfers. General revenue transfers are not included as revenues.

The next row presents the net benefits for current workers who have not reached the program's respective eligibility ages. These totaled \$45.26 trillion in 2016. This amount is comprised of \$19.57 trillion in net Social Security benefits and \$25.69 trillion in net Medicare

benefits. The combination of the first two rows produces the 100-year closed-group unfunded obligation. These amounts indicate by how much current participants' (workers and retirees) expected future benefits exceed their future dedicated tax and premium payments beginning in 2016 (at current rates).

Note that these shortfalls do not include general revenue transfers for Medicare Parts B and D even though these transfers are considered dedicated revenues in the Trustees Reports. The net benefits and shortfalls as presented here for Medicare are thus from the total budget perspective, and these shortfalls can be thought of as the revenues required by the programs that are in addition to payroll taxes, premiums, and state transfers.

The net benefits for future workers are shown on the next row. The small net Social Security benefits for future workers indicates that these workers will pay about the same in payroll taxes as they will receive in benefits even at the current tax rate which is significantly lower than the tax rate necessary to fund future Social Security expenditures.

The next row indicates the magnitude of the net shortfall over the infinite horizon at current tax rates, or alternatively, these are the amounts by which Social Security and Medicare are underfunded relative to their dedicated revenue sources of payroll taxes, taxes on Social Security benefits, and Medicare premium payments. Altogether the two programs will require \$90.40 trillion in additional revenues to pay scheduled benefits.¹⁰

For the present analysis, it is important to point out that 22% of the shortfall, not funded from dedicated revenues, is payable to current retirees and that their scheduled benefits are likely to be paid. We contend that they should be treated as liabilities in the same way that the federal employees' pensions and OPEBs are treated as liabilities. Most proposed reforms have minimal effects on reducing the liabilities associated with paying expected Social Security and Medicare benefits to retirees. Once retirees begin receiving benefits they are annuitants in an operational sense and these payments are essentially liabilities of the federal government.

In contrast, the forecast benefits of young current workers and future workers can be substantially affected by reforms, particularly those benefits related to continued participation (those that are not already accrued) for younger current workers and future participants. The accrued Social Security and Medicare benefits payable to older workers – those 55 and over – could arguably be considered liabilities as well, given that many of the leading reform proposals hold them harmless. So, including only the accrued benefits of current retirees is a conservative estimate of the total Social Security and Medicare liabilities.

Are *Accrued* Social Security and Medicare Benefits Liabilities of the Federal Government?

The inclusion of accrued federal civilian and military personnel retirement benefits in the liabilities of the federal government raises the question: If these retirement pensions and liabilities are included as liabilities, why are accrued Social Security and Medicare benefits excluded from the liabilities?

The answer is not simple. For several years, the question of why Social Security and Medicare benefits were not included as liabilities on the federal government's balance sheet was addressed in the "Stewardship" chapter of *Analytical Perspectives*.ⁱ

The short answer to the question, given in *Analytical Perspectives*, is that while Social Security and Medicare are "obligations" of the federal government, they are not liabilities "in a legal or accounting sense." *Analytical Perspectives* goes on to note that "the Government has unilaterally decreased as well as increased these benefits in the past, and future reforms could alter them again," and "There is no *bright line* dividing Medicare, Medicaid, and Social Security from other programs that promise benefits to people, and all the Government programs that do so should be accounted for similarly." "Finally, under Generally Accepted Accounting Principles (GAAP) Social Security is not considered to be a liability, so not accounting for it as such in this chapter is consistent with accounting standards."ⁱⁱ

These responses to the question of including Medicare and Social Security as federal liabilities do not make the distinction between liabilities arising from past actions and future obligations that presuppose the continuation of current policy. *The bright line* we propose to draw is between the Social Security and Medicare benefits that are already accrued based on past actions versus those that arise from continued participation. And the line drawn here is even more restrictive in that it limits the liabilities to the accrued benefits already being paid to current retirees rather than also including the accrued benefits expected by current participants who are below the eligibility age. Accrued benefits of current workers are based on prior actions, but may be affected by future reforms, and in the case of Medicare are more difficult to define than are the accrued Social Security benefits of current workers.

Accounting for Social Security and Medicare presents an ongoing public policy puzzle. The benefits expected by retirees are not considered liabilities of the federal government or the assets (wealth) of the retirees. However, retirees have made their retirement plans as if these benefits are wealth. Also, almost all reform proposals ensure that current retirees are held harmless. Recognizing the expected benefits of retirees as liabilities of the federal government and as the retirees' assets (wealth) will inform policy discussions.

ⁱ See Fiscal Years 1998-2010, *Analytical Perspectives, Budget of the U.S. Government*. These versions of Analytical Perspectives include a "Stewardship" chapter in which the question of whether Social Security and Medicare should be included as government liabilities is addressed.

ⁱⁱ All quotes are from *Analytical Perspectives, Budget of the U.S. Government, Fiscal Year 2010,* p.186.

How are Retirees' Social Security and Medicare Benefits Affected by Reforms?

Though the benefits payable to retirees are consistent with the definition of a liability, one of the rationales for not including Social Security and Medicare on the federal balance sheet is that the government can unilaterally change the programs.

This section illustrates that the passage of the ACA significantly reduced estimates of Medicare's long-run unfunded obligation measures between the 2009 and 2010 forecasts, but had more muted effects on benefits payable to retirees. And while the ACA's expense constraining provisions have produced significantly lower spending forecasts, actually achieving the lower spending is uncertain. The Medicare Modernization Act (MMA) on the other hand, with its addition of prescription drug coverage, increased Medicare benefits payable to retirees between the 2003 and 2004 forecasts. It is true that the government can unilaterally change the programs, and that these changes can have significant effects on the long run forecasts, but here we illustrate how the effects of such changes are distributed differently across generations.

Medicare

Two recent Medicare reforms illustrate the effect of policy changes on Medicare benefits payable to retirees. Figure 3 presents net Medicare benefits payable to participants who are 65 and older for the years 2000-2016. The figure begins with 2000 because that is the year in which the Statements of Social Insurance was introduced in the FRUSG. Medicare Parts A, B, and D are each identified. Consider the first policy change: the passage of the MMA in 2003. The Act added prescription drug benefits, or Part D, to the insurance package. As seen in the figure between the 2003 and 2004 forecasts, retirees were endowed with new benefits, net of premiums, equal to \$597 billion.

Congress did indeed act unilaterally in this case and expanded retirees' net benefits by 21% over the previous year. The benefit expansion resulted in new Medicare wealth of about \$17,000 on average for the almost 35 million Medicare enrollees 65 years of age and above in that year. Reporting these new benefits as liabilities would have complemented the measures based on the long run forecasts.

In 2016, retirees' Part D benefits net of premiums were \$652 billion or 9.2% above the 2004 estimate of \$597 billion. Thus, the passage of the MMA resulted in additional liabilities of the federal government payable to current retirees, and though the estimates of their size have varied, the variability in the estimates are less affected by changing assumptions than are the long-run estimates.

The other major policy change reflected in the figure is the effect of the passage of the Affordable Care Act (ACA) in March of 2010. Scoring its provisions resulted in a dramatic reduction in 75-year and perpetuity unfunded obligations, but as seen by comparing the current retirees' benefits for the years 2009 and 2010 from the figure, it had a modest effect on these liabilities. Between the two years, the current retirees' expected benefits declined by \$339 billion, from \$4,848 to \$4,509 billion or by only 7%.

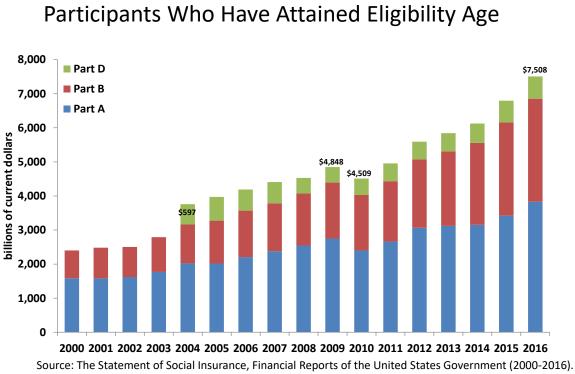


Figure 3. Accrued Net Medicare Benefits Payable to Participants Who Have Attained Eligibility Age

This relatively modest reduction in benefits payable to current retirees stands in stark contrast to the substantial decline in the long-run unfunded obligation measures between the 2009 and 2010 Trustees Reports. The decline in the unfunded obligation estimates result from provisions in the ACA designed to limit per capita spending growth. The main provision is the productivity adjustment that primarily affects Medicare's Part A spending projections and some of Part B spending. The provision requires that payment updates to most providers are adjusted downwards by the increase in total factor productivity.

See text for discussion of the Government Accountability Office's opinion of the estimates beyond 2009.

As a consequence of this provision, the estimated 75-year unfunded obligation for Part A dropped from \$13.4 to \$2.4 trillion between the 2009 and 2010 Medicare Trustees Report and the infinite horizon unfunded obligation for Part A of \$36.4 trillion in 2009 actually became a surplus of \$0.6 trillion in the 2010 Report! The point here is that the accrued Part A benefits measure, while affected by the ACA's provisions, was much less sensitive than were the unfunded obligation measures.

The ACA's productivity adjustment had less of an effect on the present value of the general revenue contributions necessary to fund Medicare Part B in addition to premiums from retirees, but the reductions were substantial nonetheless; the present value of the general revenues required to fund Part B over the 75-year horizon dropped 25%, from \$17.2 trillion to \$12.9 trillion

with the 2009 and 2010 Reports, and over the infinite horizon they fell 43% from \$37.0 trillion to \$21.1 trillion.

The passage of the ACA produced significant difficulties for Medicare and Social Security Trustees who are charged with forecasting future Medicare expenditures. From 2010 to the present, the Medicare Trustees have had to wrestle with how to present forecasts that take into account the current law as well as expectations that generally run counter to the spending constraints in the law. The current law forecasts in the 2010 to 2014 Reports incorporated the ACA's productivity adjustment, which primarily affects Part A, as well as the now rescinded Sustainable Growth Rate (SGR) for physician payments. In each of those years the alternative forecasts indicated that, in the long-run, the program's expenditures could significantly exceed the forecasts made under the assumption that the current law was realized. The history of legislative overrides of the SGR suggests the same fate for the productivity adjustment. This assessment is again made in the 2016 Report.¹¹

The 2015 and 2016 Medicare Trustees Reports' current law forecasts incorporate the effects of the Medicare Access and CHIP Reauthorization Act (MACRA) that was passed in April 2015. The MACRA repealed the SGR and in its place the new legislation specifies physician payment updates. The 2016 Trustees Report notes, however, that by 2048 physician payments under the MACRA will actually be lower than those projected under the SGR.¹²

Beginning with the 2010 Trustees Report, the new provisions in the ACA, namely the productivity adjustment and the Independent Payment Advisory Board (IPAB), combined with the SRG (2010-2014 Reports) and now the MACRA (2015 and 2016 Reports) have resulted in current law Medicare spending forecasts substantially below the pre-ACA forecast and the annual alternative forecasts. As stated in the discussion of the alternative projections from the 2016 Report:

"The ability of new delivery and payment methods to lower cost growth rates is uncertain at this time. Preliminary indications are that some of these delivery reforms have had modest levels of success in lowering costs. It is too early to tell if these reductions in spending will continue or if they will grow to the magnitude needed to align with the statutory Medicare price updates. Given these uncertainties, it will be important for policy makers to monitor the adequacy of Medicare payment rates over time to ensure beneficiary access to high-quality care."¹³

Since the passage of the ACA the Government Accountability Office (GAO) has issued a disclaimer of opinion on the Statements of Social Insurance (SOSI) in the FRUSG. The SOSI is derived from the Social Security and Medicare Trustees Reports and provides the estimates of accrued Medicare and Social Security benefits for retirees reported here. The reason for the disclaimer has been the Medicare forecasts. The statement of the Comptroller General of the United States, included in the 2016 FRUSG notes:

"Significant uncertainties (discussed in Note 22 to the consolidated financial statements), primarily related to the achievement of projected reductions in Medicare cost growth, prevented us from expressing an opinion on the sustainability financial statements, which consist of the 2016 and 2015 Statements of Long-Term Fiscal Projections;^a the 2016, 2015, 2014, 2013, and 2012 Statements of Social Insurance; and the 2016 and 2015 Statement of Changes in Social Insurance Amounts.^b About \$32.5 trillion, or 70.0 percent, of the reported total present value of future expenditures in excess of future revenue presented in the 2016 Statement of Social Insurance relates to Medicare program reported in the Department of Health and Human Services' (HHS) 2016 Statements of Social Insurance, which receive a disclaimer of opinion. A material weakness in internal control also prevented us from expressing an opinion on the 2016 and 2015 Statements of Long-Term Fiscal Projections."¹⁴ (See endnote 14 for the embedded footnotes.)

The auditor's report accompanying the 2016 HHS Agency Financial Report "disclaimed" the post-ACA Medicare statements of social insurance. The auditor noted many of the same concerns voiced by the trustees in each of the post-ACA Trustees Reports.

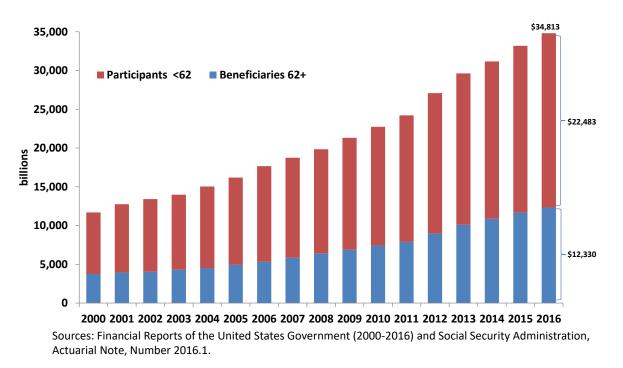
"Absent an unprecedented change in health care delivery systems and payment mechanisms, the prices paid by Medicare for health services will fall increasingly short of the costs of providing these services. For example, overriding the scheduled physician payment updates or the productivity adjustments for most providers, as was done repeatedly with the sustainable growth rate formula in the period leading up to the passage of the MACRA and may be necessary in the future if cost rates prove inadequate, would lead to substantially higher costs for Medicare in the long range than those projected in this report. As a result of these limitations, we were unable to obtain sufficient audit evidence for the amounts presented in the statements of social insurance as of January 1, 2016, 2015, 2014, 2013, and 2012, and the related statements of changes in social insurance program for the periods ended January 1, 2016 and 2015."¹⁵

Whether or not the ACA's and the MACRA's provisions are realized in the long run, the forecast net spending on behalf of current retirees, as we have seen, was reduced between the 2009 and 2010 Financial Statements. In regard to Medicare, reporting the liabilities payable to retirees in each year gives policy makers and the public a better idea of how legislative changes added to the liabilities, with the passage of the MMA, or reduced the liabilities, in the case of the ACA. The SOSI has received a disclaimer of opinion since 2010, and thus, the expected Medicare benefits payable to current retirees (based on the current law forecasts) are conservative in comparison to the other liabilities and compared the amount had the alternative forecast been used. To illustrate how the current law forecasts may underestimate the growth in accrued Medicare benefits, note that the present value of Medicare's anticipated real lifetime spending per beneficiary has grown less rapidly than retirees' expected Social Security benefits since 2009. As a consequence of the lower post-ACA current law forecasts, the average accrued Medicare benefit per retiree has grown between 2009 and 2016 at a modest real annual rate of 1.64%, versus a substantially higher real 4.36% annual rate for Social Security.

Social Security

Beginning in 1996 the Social Security Administration's Office of the Chief Actuary has produced estimates of the accrued benefits for participants who are 22 and above in a given year.¹⁶ These accrued benefits are referred to as the Maximum Transition Cost. The accrued Social Security benefits are comparable to the accrued benefits in a private pension plan in that they are based on past earnings.¹⁷ Figure 4 presents the total accrued benefits for the years 2000-2016, for which both total accrued benefits and the accrued benefits of participants who have reached the age of eligibility are available. As of 2016, the accrued Social Security benefits totaled \$34.8 trillion. Of that amount, \$12.3 trillion or 35% were payable to participants 62 years of age and above with the remaining \$22.5 trillion or 65% accrued by the current participants 61 and younger. The share of total accrued benefits payable to the participants who have reached the age of eligibility has grown in recent years as the result of the aging of the Baby Boom generation. A comparable calculation of accrued Medicare benefits payable to all current participants is not published by the Centers for Medicare and Medicaid Services.¹⁸

Figure 4. Composition of Accrued Social Security Benefits All Participants and Beneficiaries

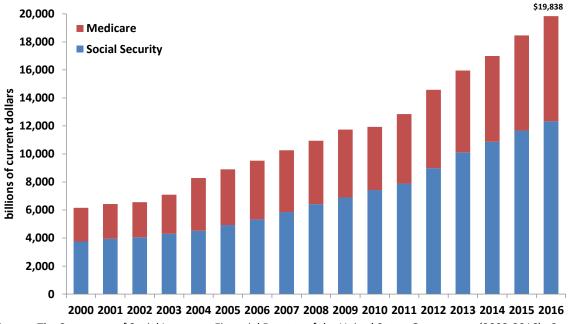


Social Security and Medicare

The accrued Social Security and Medicare benefits for all current participants are larger than the accrued benefits payable to retirees that are used here. So, the benefits payable to retirees are conservative estimates of the programs' total potential "liabilities." Further, the delayed or deferred effects of reforms to either Medicare or Social Security means that current retirees' benefits are marginally affected as they are phased-in in coming years. Figure 5 presents the accrued Medicare and Social Security benefits payable to current retirees. As of 2016 these benefits totaled \$19.8 trillion.

Most Social Security reforms that have been discussed in recent years leave current retirees unaffected. Increasing the retirement age, increasing payroll taxes, raising the taxable maximum and instituting means testing for incoming groups of retirees have no effect on the accrued Social Security benefits of current retirees that are presented in Figure 5.

Figure 5. Accrued Social Security and Medicare Benefits Payable to Participants Who Have Attained Eligibility Age



Source: The Statement of Social Insurance Financial Reports of the United States Government (2000-2016). See text for discussion of the Government Accountability Office's opinion of the Medicare estimates beyond 2009.

In the case of Social Security, the cost of living adjustment is the only reform, among those currently receiving attention, that would reduce current retirees' expected benefits. However, the effect on the accrued benefits of current retirees would be minor. Most leading proposals prefer replacing the current CPI-W (consumer price index for wage and salary workers) with the chained version of the CPI as the index used to make cost of living adjustments to Social Security Benefits.¹⁹ Over the next 30 years, the present value of benefit payouts are reduced by less than 3% if the cost of living adjustments are based on the chained CPI rather than the CPI-W. Thus, the expected benefits payable to current retirees would be reduced slightly if this reform were implemented.

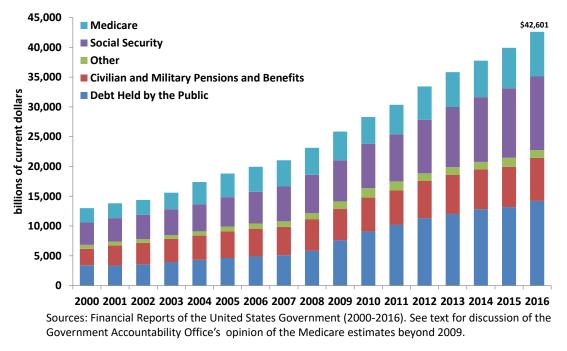
Figure 5 indicates that the total of the Medicare and Social Security benefits payable to retirees has risen steadily in nominal dollars. They have also risen steadily as a share of GDP. In

2000 they were equal to 60% of GDP, by 2007 they were 71%, and as of 2016 they were 107% of GDP.

Adding Retirees' Expected Social Security and Medicare Benefits to Federal Liabilities

Figures 6 and 7 depict the composition and size of the "official" federal liabilities combined with retirees' expected Social Security and Medicare benefits in nominal dollars and as a share of GDP.

Figure 6. Federal Liabilities Including Accrued Social Security and Medicare Benefits Payable to Participants Who Have Attained Eligibility Age

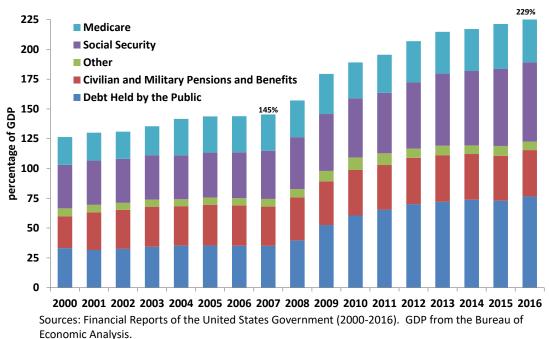


As seen in Figure 6, the total of the official liabilities and retirees' expected Social Security and Medicare benefits were almost \$43 trillion in 2016. The \$19.8 trillion in retirees' expected Social Security and Medicare benefits comprised 47% of the total, were equal to 87% of the official liabilities reported in the FRUSG, and were 40% higher than the debt held by the public. Altogether, these liabilities more than doubled their size over the last decade.

Denominating the combined liabilities by contemporaneous annual GDP is depicted in Figure 7. By 2016 the total liabilities were equal to 229% of GDP. The figure indicates that the liabilities' share of GDP was fairly static from 2000 to 2007. Prior to the recession the combined liabilities were 145% of GDP. The increase in the debt held by the public accounts for 49% of the growth in the share of GDP from 2007 to 2016 and the accrued Social Security and Medicare benefits of

retirees account for 43%.

Figure 7. Federal Liabilities Including Accrued Social Security and Medicare Benefits Payable to Participants Who Have Attained Eligibility Age as a Percentage of GDP



The debt held by the public tells one part of the federal liability story. Accrued retirement benefits payable to federal employees add to the story. And including Social Security and Medicare benefits payable to retirees is a further step towards completing the story. Together they give policy makers and the public a comprehensive understanding of the federal government's outstanding commitments based on prior actions.

Why are the Treasury Securities Held by the Federal Reserve Included in the Debt Held by the Public?

As of September 30, 2016 the Federal Reserve held almost \$2.6 trillion in Treasury Securities that are included in the debt held by the public. However, in preparing the FRUSG these holdings do not reduce the \$14.2 in debt because the Federal Reserve is considered to be independent of the Federal government. So, in consolidating the financial statements across all federal entities the Federal Reserves' holdings are treated as separate as noted in the following excerpt from the FRUSG.

"SFFAC [Statement of Federal Financial Accounting Concepts] 2 specifically excludes the Federal Reserve System – the Board of Governors of the Federal Reserve System and the Federal Reserve Banks. . . . However, in the United States, the organization and functions pertaining to monetary policy are traditionally separated from and independent of the other central government organizations and function in order to achieve more effective monetary and fiscal policies and economic results. Therefore, the Federal Reserve System is not considered part of the government wide reporting entity."

It is relevant to consider how the Federal Reserve's assets and liabilities affect the total federal liabilities measures presented here.ⁱⁱ In addition to its almost \$2.6 trillion in Treasury Securities, the Federal Reserve also holds almost \$1.8 trillion in federal agency and government sponsored enterprise mortgage backed securities. These are the two main components of the Federal Reserve's total assets of \$4.5 trillion. Given that the interest received by the Federal Reserve on most of these assets is transferred to the Treasury, their total value could be thought of as an offset to the total liabilities of the federal government – possibly by an amount up to \$4.5 trillion.ⁱⁱⁱ

However, on the liability side of balance sheet, the Federal Reserve currently has a significant level of bank reserves on which it is paying interest. The Federal Reserves' liabilities apart from currency, totaled \$3.0 trillion in September of 2016. Excluding the Federal Reserve would reduce the total liabilities of \$42.6 trillion by approximately \$1.5 trillion, or by 3.5%.

Conclusion

With the federal debt held by the public equal to 77% of GDP, many are concerned about the future path of fiscal policy. The debt held by the public is but one form of federal liability. The federal government is also already committed to paying federal employees' accrued pensions and other post-employment benefits – primarily health care benefits. Adding these federal employee retirement liabilities and other federal liabilities to the debt held by the public

ⁱ*Financial Report of the United States Government, Fiscal Year 2016*, Department of the Treasury, 2016, p. 230.

ⁱⁱFor a more complete treatment of the implications of the Federal Reserve's effects on the federal government's debt position from the balance sheet and income statement perspectives see Thomas R. Saving, "Rethinking Federal Debt: What Do We Really Owe?" Private Enterprise Research Center Policy Study No. 1607, August 2016.

ⁱⁱⁱ Federal Reserve Banks Combined Quarterly Financial Report, September 30, 2016.

produced the \$22.8 trillion liability on the federal government's balance sheet as of September 30, 2016.

But these liabilities are just a part of the total implicit liability position of the federal government. We suggest adding the Social Security and Medicare benefits expected to be paid to current retirees to the official federal liabilities to provide a comprehensive measure of the government's indebtedness based on past actions. Adding them to the "official" liabilities produces a total proposed liability measure of \$42.6 trillion or 229% of GDP. Paying off these liabilities would take more than 12 years of all federal revenues, if the revenues remain at the 50-year average of 17.4% of GDP.

The liability measure we propose is distinctly retrospective in its treatment of Social Security and Medicare commitments. The benefits expected by current retirees provide a conservative estimate of commitments that meet the definition of a liability: they are obligations of the government resulting from prior actions that will require financial resources. These benefits are also much less affected by changes in forecasting assumptions than are the long-run unfunded obligation measures. Together, they exceed the debt held by the public and are 87% the size of the official federal liabilities reported in the FRUSG. Finally, they are relevant to policy makers and the public. These are the benefits on which retirees rely, and retirees are politically motivated to assure that their benefits are not reduced.

The accounting treatment of retirees' expected Social Security and Medicare benefits also informs other public policy questions. Recent studies of wealth inequality do not include accrued Social Security and Medicare as assets.²⁰ Excluding these benefits from wealth estimates has been justified given that workers and retirees do not have a legally enforceable property right to the receipt of their benefits. However, excluding them leaves the impression that middle and lower income workers' retirement resources are less than they actually are in practice. If accrued Social Security and Medicare benefits should be included as part of the federal government's liabilities, as we have suggested in this report for the portion payable to current retirees, so should they be counted in the wealth measures as retirees' assets. In the case of Social Security, the amount payable to retirees account for 35% of the total accrued benefits. And as discussed, the accrued benefits of current workers who are below the retirement age, though potentially affected by future reforms, are arguably an indicator of workers' implicit wealth in the two programs.²¹

While the net Social Security and Medicare benefits payable to retirees appear in the FRUSG's Statements of Social Insurance these portions of the elderly entitlement programs' obligations deserve added attention. Reporting them as liabilities or "proximate liabilities" complements the forward-looking unfunded obligation measures by distinguishing between those obligations payable to current retirees and those payable to future retirees and participants.

Notes

¹ See Federal Liabilities: Past Actions with Future Consequences, PERC Study, May 2014 available at: <u>http://perc.tamu.edu/perc/Publication/policybrief/report_5_2014.pdf</u>, Federal Liabilities: 2015 Update, PERC Study, July 2015 available at <u>http://perc.tamu.edu/perc/Publication/policybrief/report_7_2015.pdf</u> and Federal Liabilities: 2016 Update, PERC Study No. 1605, August 2016 available at <u>http://perc.tamu.edu/perc/Publication/policybrief/study_no_1605_08_2016.pdf</u>.

²*Financial Report of the United States Government, Fiscal Year 2016,* Department of the Treasury, 2016, page 49. ³The years to pay for these liabilities are based on the present value of 17.4% of future GDP where the GDP and discount rate forecasts are from the 2016 Social Security Trustees Report Table VI.G6.

⁴The other liabilities include environmental and disposal liabilities, accounts payable, insurance and guarantees, and additional other liabilities. See *Financial Report of the United States. Government, Fiscal Year 2016,* Department of the Treasury, 2016, page 58.

⁵ See Analytical Perspectives, Budget of the United States Government, Fiscal Year 2012, Office of Management and Budget, Table 31-2, for other estimates of the total liabilities and assets for the years 1960-2010.

⁶ Note 3 from the *OPM Fiscal Year 2016 Agency Financial Report*, p. 71 continues: "The cash receipts collected from the public for the trust funds are deposited in the U.S. Treasury, which uses the cash for general Government purposes. Treasury securities are issued to the OPM as evidence of its receipts. Treasury securities are an asset to OPM and a liability to the U.S. Treasury. Because OPM and the U.S. Treasury are both parts of the Government, these assets and liabilities offset each other from the standpoint of the Government as a whole. They are eliminated in consolidation for Government-wide financial statements of the United States."

⁷ For a discussion of the relationship between forward-looking measures of program specific, and government-wide, funding shortfalls and retrospective liabilities and accrued benefits see *A Primer on Measures of Government Financing Shortfalls and Liabilities*, PERC Study, August 2016,

http://perc.tamu.edu/perc/Publication/policybrief/report 7 20162.pdf

⁸ The infinite horizon open group, 75-year open group, and the 100-year closed group measures are presented in the annual Social Security and Medicare Trustees Reports. The accrued benefit liability for all current Social Security participants is available in an annual Actuarial Note published by the Social Security Administration's Office of the Actuary. In 2016, the accrued benefits of all current participants totaled \$34.8 trillion (inclusive of the \$2.8 trillion in Trust Fund bonds). Thus, the benefits of current retirees account for more than one-third of the total accruals. See Jason Schultz and Daniel Nickerson, "Unfunded Obligation and Transition Cost for the OASDI Program," Actuarial Note, Number 2016.1, Social Security Administration, Office of the Chief Actuary, June 2016.

⁹ Table 1 presents the *net* Social Security and Medicare benefits payable to current retirees. Thus, premium payments for Part B and D are netted out of the Medicare benefits as are remaining dedicated Social Security and HI payroll taxes and income taxes on Social Security benefits. Federal income taxes in support of Medicare Parts B and D are not subtracted from the expected benefits. However, the *FY 2016 Agency Financial Report, Department of Health and Human Services* does identify the income taxes payable from retirees as offsetting revenue.

¹⁰The Supplementary Medical Insurance portions of Medicare (Parts B and D) are funded by premium payments from participants and from general revenues. Officially, these parts of the program do not have unfunded obligations because the general revenues are assumed to cover the difference between premium revenues (about 25% of expenditures) and expenditures.

¹¹2016 Medicare Trustees Report, p. 194.

¹²2016 Medicare Trustees Report, p. 195.

¹³2016 Medicare Trustees Report, p. 196.

¹⁴*Financial Report of the United States. Government, Fiscal Year 2016,* page 38. The quote includes the following footnotes: "^{4(a)} The Statement of Long-Term Fiscal Projections presents for all the activities of the federal government the present value of projected receipts and noninterest spending under current policy without change, the relationship of these amounts to projected gross domestic product, and changes in the present value of projected

receipts and noninterest spending for the prior year." "^{5(b)} Statements of Social Insurance are presented for the current year and each of the 4 preceding years in accordance with U.S. generally accepted accounting principles. Also, the sustainability financial statements do not interrelate with the accrual-based consolidated financial statements." See also referenced Note 22. Social Insurance pages 137-159.

¹⁵Ernst and Young conducted the independent audit of the *FY 2016 Agency Financial Report, Department of Health and Human Services*. This excerpt is from the section of their report that gives the basis for the disclaimer of an opinion on the statements of social insurance. See *FY 2016 Agency Financial Report, Department of Health and Human Services* pages 65-66 for the entire basis for disclaimer of opinion and disclaimer of opinion.

¹⁶Jason Schultz and Daniel Nickerson, 2016, "Unfunded Obligation and Transition Costs for the OASDI Program," Social Security Administration, Office of the Chief Actuary, Actuarial Note, Number 2016.1, June 2016.

¹⁷See Shultz and Nickerson (2016), p. 3, for a full description of how accrued benefits are estimated for workers who are below the eligibility age of 62. Basically, each year a benefit amount (specifically a disability benefit) is calculated for these workers based on past earnings. The benefits are indexed to age 62 and then adjusted in proportion to completed years of work divided by potential total years of work.

¹⁸Workers who have at least 10 years of work in Social Security covered employment are fully vested in Medicare. Conceptually, all of these workers have accrued retirement health care coverage beginning at age 65. But, consistent with the methodology used to estimate accrued Social Security benefits accrued Medicare benefits could also be estimated in proportion to years of work divided by potential total years of work. Recall that the percentage of total accrued benefits payable to Social Security retirees was 35% in 2016. Using this percentage as a guide, estimated total accrued Medicare benefits would be \$22 trillion and the amount payable to Medicare beneficiaries younger than 65 would come to \$13.7 trillion. However, with either methodology, the estimates of accrued benefits of younger workers are uncertain due to the aforementioned forecast uncertainty. See Andrew J. Rettenmaier and Thomas R. Saving, "Thinking about Tomorrow," NCPA Policy Report No. 317, December, 2008 for two alternative estimates of accrued Medicare Benefits.

¹⁹See the Social Security Administration's Office of the Actuary web page for the scoring of variants of all of the provisions that are components of current reform proposals. The estimates in the text are based on provision A3: <u>http://www.ssa.gov/OACT/solvency/provisions/cola.html.</u>

²⁰Saez and Zucman (2016) for example, do not include accrued Social Security and Medicare benefits in their study of wealth inequality. See "Wealth Inequality in the United States since 1913: Evidence from Capitalized Income Tax Data," *Quarterly Journal of Economics*, May 2016, pp. 519-578.

²¹For a discussion of how Social Security's accrued benefits affect the wealth distribution, see Andrew J. Rettenmaier, "Is Social Security Wealth?" Private Enterprise Research Center Working Paper, No. 1602, April 2016.