



"What Would Be the Macroeconomic Effects of a Corporate Tax Hike?"

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Last March, in the 202B resident's Budget, President Biden proposed that Congress raise the corporate ax rate from 21 percent to 28 percent finthen, last August, Congress introduced a new 15 percent corporate alternative minimum tax on large corporation Biden Reduction Act.² What are the effest of such corporate tax hikes on aggregate economic activity

There are two methods to comp**the** effects of a corporate tax change. First, we can use statistics and econometrics to estimate the effects the history of past tax changestas, this method is not perfect, as history often rhymes but does not repeat itself. Seeocraph use macroeconomic model hat replicate how the economy works and how households and businesses respond to economic incentives.

In this commentary, first, explain the advantages using macroeconomic model then, I use one such model to predict the effects of a corporate tax hike.

The Advantages of Using a Macroeconomic Model.

Using a macroeconomic model to predict the effects of a corpotrate hange has two main advantages over using econometric first advantage has to do with the interaction between tax changes and economic conditions. Past changes in the corporate taxe oftenwer driven by changes in economic conditions. In technical jargon, changes in the corporate tax rate were endogenous. With econometrics, it is difficult to distinguish whether the changes of mic conditions were caused by the changes in the corporate x rate or vice versa. In contrast, macroeconomic models can clearly distinguish the two effects.

The 2017 tax reforms a good example of why it is difficult to determine whether a tax change was driven by economic conditions or not. In 2017, Congress passed the Tax Cuts and Jobs Act, a tax reform that included a cut in the corpo**taxe**rate from 35 percent to 21 percent. On the one hand, the tax cut may have been exogenous, the ultimate result of a political election that had little to do with economic conditions. On the other hand, the tax cut may have been endogenous asit was partlymade possible by the low levels of interest rates chrelaxed the fiscal constraint and allowed cutting taxes and raising government **dieth** is latter case, causality would have run both directions the tax cut would have affected economic onditions and vice versaand it would be difficult for econometrics distinguish the effects.

The second advantage of using macroeconomic models rather than econometrics has to do with how often the specific tax change that we are interested in occurred in the past. Past changes in the corporate tax rate were often accompanied by changes in other policy tools, for instance, changes in depreciation allowances and investreentcredits. The details about the policy changes

happened in the past. We will consider one such policy change

The working of the model sheds light on the economic intuition behisde diffects. The tax hike raises the margine ffective tax rate, which distorts investment decisions and discourages investment demand As investment demand by the corporate sector decreases, the real interest rate decreases and stimulates investment demand by the noncorporate base to substant aggregate, however, busines avestment decreases. The lower level of investment reduces the of capital over time. With a lower capital stock, the marginal product of later reases, reducing the business demand for labor and the real wage rate. As the real wage creases exemployment decreases and leads to a lower level of output.

Thesize of the effection output, investment, and employment, although not negligible, are not large. The reason is that the distortion per entropy of two tax shields that reduce taxable incorose associated with the deductibility of interest expenses and one associated with the celerated depreciation of capital. As the tax rate increases,

be analyzed empirically with real world data and econometric technic (Bress) is depreciation increases by 5 percentage points in the initial year and by han additional 1 percentage point per year overthe next 5 years As a result, from the sixth year on, the totat rease in bonus depreciation is 10 percentage pointes shown in Table 3, the gradual increase in bonus depreciation decreases