The effects of the oil counter-shock: The best is yet to come!

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After falling sharply over the past two years, oil prices have been rising once again since the start of the year. While a barrel came in at around 110 dollars in early 2014 and 31 dollars in early 2016, it is now close to 50 dollars.

Will this rise in oil prices put a question mark over the gradual recovery that seems to have begun in France in 2016?

In a recent study, we attempted to answer three questions about the impact of oil prices on French growth: will a change in oil prices have an immediate effect, or is there a time lag between the change and the impact on GDP? Are the effects of rises and falls in oil prices asymmetrical? And do these effects depend on the business cycle? The main results of our study can be summarized as follows:

- There is a time lag in the impact of oil price variations on French GDP. Over the period 1985-2015 the lag was on average about 4 quarters;
- The impact, whether downward or upward, is significant only for variations in oil prices greater than 1 standard deviation;
- 2. The asymmetric effect is extremely small: the elasticity of growth to oil prices is the same whether the price rises or falls. Only the speed at which the impact is transmitted differs (3 quarters in the case of a rise, but 4 in the case of a fall);
- 3. Finally, the impact of oil price changes on economic activity depends on the phase in the business cycle: the

elasticity does not differ significantly from zero in situations of a "crisis" or a "boom". However, the elasticity is much greater in absolute terms when the economy is growing slowly (an economic slump).

Let us now apply these results to the situation since 2012. Between the first quarter of 2012 and first quarter of 2016, the price of a barrel of Brent crude plummeted from 118 dollars to 34 dollars, a fall of 84 dollars in four years. If we factor in the euro/dollar exchange rate and changes in consumer prices in France, the fall amounts to a 49 euro reduction over the period (Figure 1).



Sources: INSEE, OFCE calculations..

We evaluated the impact of a decline like this on France's quarterly GDP, taking into account the above-mentioned time lag, asymmetry and phase of the business cycle.

Factoring all this in indicates that the oil counter shock ultimately did not show up much in 2015. As illustrated in Figure 2, the impact should make itself felt from the first quarter of 2016, regardless of the hypotheses adopted. The positive effect of the oil counter-shock is yet to come!

Figure 2. Impact on GDP of the fall in oil prices since 2012



Sources: INSEE, OFCE calculations..

Deviation in % in the central accounts