



A Global Productivity Malaise

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Amid the lackluster economic recovery since the 2008 Global Financial Crisis, central banks of most major developed countries have been trying hard to reach their inflation targets and boost economic growth through quantitative easing (QE), zero and negative interest rate policies (ZIRP and NIRP), and even contemplating the use of helicopter money. Even with those unorthodox and unconventional measures, global growth can be rated as "moderate" at best. What is going on? Is the slowdown in global growth a result of weaker global trade? Or is it because there is excess capacity and not enough aggregate demand? The answer might be yes to both questions. However, we believe the decline in labor productivity growth in recent years is another major driver of the global growth slowdown. Deteriorating productivity is a global malaise that plagues both developed and emerging markets (EM). The root cause can be traced to a lack of investment spending or capital expenditures (capex).

A case in point is the U.S. Its economic recovery so far has been propelled by both growth in labor input and wages, as well as the ensuing consumption growth. Now, as the U.S. is reaching full employment status, wage growth will also reach its limit. Whether the economic recovery can transition from being driven by labor, wages, and consumption to one that is investment and productivity driven will determine the U.S.'s future gross domestic product (GDP) growth potential and ultimately the Federal Reserve's (Fed's) equilibrium rate as well.

A look at trending labor productivity data paints a clearer picture of this productivity malaise across both major EM countries (see Table 1) and developed market (DM) countries (see Chart 1 and Chart 2). Our major observations are:

- 1. Labor productivity growth has slowed in both EM and DM countries over the past several years. In EM countries, productivity growth has declined from 5% in 2007-2013 to 2% on average in 2015. In developed countries, productivity growth has slowed from 1%-2% in 2007-2013 on average to below 0.5% in 2015.
- 2. In EM, there is more dispersion among countries. Brazil, Russia, South Africa, Mexico, and Turkey have seen the greatest drop-offs in productivity, whereas India, China, Indonesia have been relatively stable.
- 3. Within developed nations, data is more consistent, hovering around 0.5% growth or below. Surprisingly, productivity growth has been slowest in Germany, France, and Italy.

Table 1: Growth of Labor Productivity

Persons Employed and Real GDP for Major Emerging Economies; 1999-2016; As of May 2016

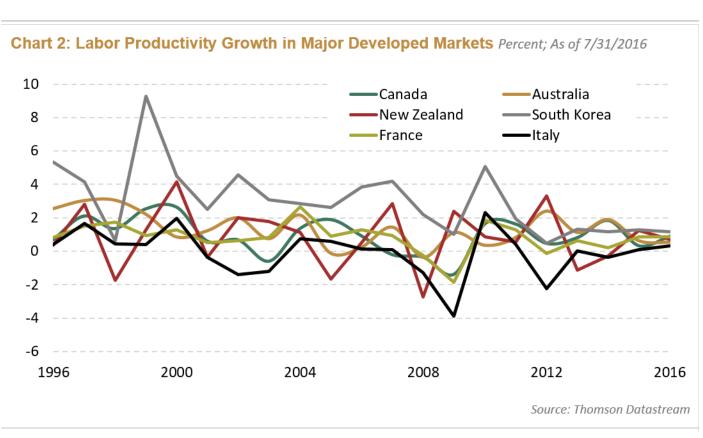
	Major Emergin	σ	Russian		China (TCB	China (Official	South			
	Economie	_	Fed.	India	series)	series)	Africa	Mexico	Indonesia	Turkey
Labor Productivity Growth (GDP per person, annual average, percent)										
1999-2006	4.3	-0.3	4.7	3.2	7.5	8.9	2.1	1.3	3.2	3.6
2007-2013	4.9	2.0	2.2	7.3	7.1	9.3	1.4	-0.3	3.4	0.2
2013	3.9	1.6	1.5	5.1	5.4	7.3	-0.8	0.8	3.8	1.3
2014	3.5	-1.3	0.5	5.3	5.2	6.9	-0.4	1.9	3.3	1.2
2015	2.0	-4.1	-4.8	5.2	3.3	6.6	-2.5	0.1	4.6	1.4
2016 (Projection)	2.5	-4.2	-0.3	4.8	3.6	6.3	-1.0	0.5	3.8	0.5
Growth in Persons Employed (annual average, percent)										
1999-2006	1.9	3.2	2.1	3.5	1.0	0.7	1.7	1.8	1.1	0.5
2007-2013	0.7	1.8	0.5	0.2	0.5	0.4	1.1	2.4	2.4	3.2
2013	0.8	1.1	-0.2	1.2	0.4	0.4	3.1	0.6	1.8	2.8
2014	0.9	1.5	0.2	1.7	0.4	0.4	1.9	0.4	1.7	1.6
2015	1.0	0.2	1.1	2	0.5	0.3	3.9	2.4	0.2	2.5
2016 (Projection)	0.8	0.4	-1.3	1.9	0.2	0.2	1.6	2.0	1.2	2.7
Real GDP Growth (annual average, percent)										
1999-2006	6.3	2.9	6.9	6.8	8.6	9.7	3.9	3.1	4.3	4.1
2007-2013	5.9	3.8	2.7	7.5	7.6	9.8	2.5	2	5.9	3.4
2013	4.7	2.7	1.3	6.3	5.8	7.7	2.2	1.4	5.6	4.2
2014	4.4	0.1	0.7	7.0	5.6	7.3	1.5	2.3	5.0	2.9
2015	3.0	-3.8	-3.7	7.3	3.8	6.9	1.3	2.5	4.8	4.0
2016 (Projection)	3.2	-3.8	-1.5	6.8	3.8	6.5	0.6	2.5	5.0	3.2

*Major emerging markets aggregate is based on China (TCB series).

Notes: Major emerging markets aggregate is based on China (TCB series). Growth rates are based on the annual percentage of difference of each variable. Regional GDP and labor productivity growth rates are aggregated using shares in nominal PPP converted GDP; Regional employment growth is weighted using employment shares. Growth rates for 1999-2006 and 2007-2013 are the averages of yearly growth rates.

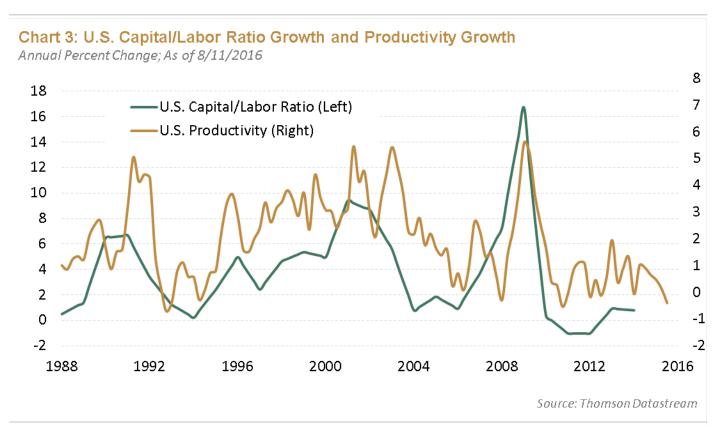
Source: The Conference Board Total Economy Database



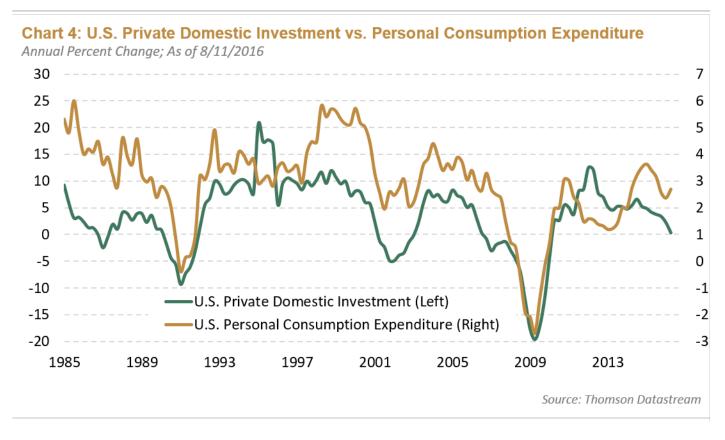


Examining this malaise to determine the investment implications and potential cures, we will use the U.S. economy again as an example. We believe the correlation between the capital/labor ratio versus productivity is the crux of the productivity slowdown issue (see Chart 3). If we label the first leg of the economic recovery since the Global Financial Crisis as between 2009 to now, we see that it has mostly been driven by recovery of labor input rather than capital input. However, the capital/labor ratio seems to be forming a bottoming pattern

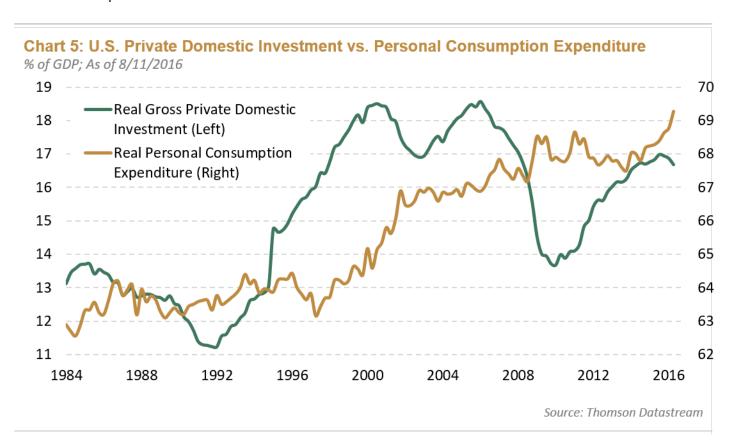
since 2012, and stalling a little after that. If this ratio picks up again, we believe productivity also should pick up if this relationship holds. However, given that the U.S. presidential election is drawing near in November, businesses may see too much uncertainty to commit more capital investments.



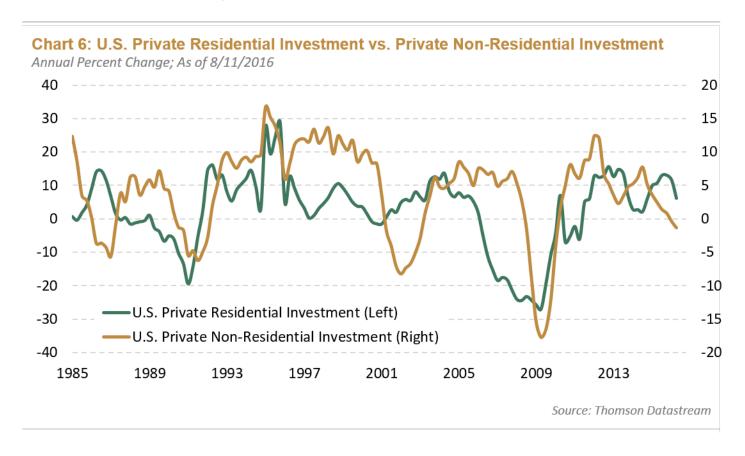
Private domestic investment growth has slowed dramatically from 10% in 2012 to 0% currently, while personal consumption spending has remained relatively more robust at 2.5% (see Chart 4). This trend also echoes the theme of the declining capital/labor ratio. As the labor market recovers, wage growth picks up, which in turn leads to personal consumption growth. In contrast, private investment has slowed, leading to a drop in capital input.



The U.S. economy is relying increasingly on consumption as a driver of GDP (see Chart 5). Personal consumption's share of GDP is at a historical peak of 69%. Meanwhile, the share of investment, while recovered from its trough of 14% during the Global Financial Crisis, still struggles at around 16%, failing to surpass its 2000 and 2006 peaks of over 18%.



Most interestingly, non-residential private investment growth has declined more drastically to almost -1.5%, whereas residential investment growth is just over 6% (see Chart 6).



Conclusion

We believe the anemic global economic recovery has been driven by labor input and wage growth. As a result, personal consumption has picked up. However, the global economy is plagued by a slowdown in productivity growth, both in EM and developed countries, largely due to a lack of private investments. If the capital/labor ratio bottoms from here and begins to recover, productivity should also pick up, in our view. The cure for the productivity malaise would be an increase in investment spending. However, one risk to the recovery is the fact that this is a presidential election year. Businesses may be unlikely to commit to investment amid the heightened uncertainty. Given that the U.S. is nearing full employment, labor input and wage growth may reach their limits and fail to propel GDP growth further. As a result, U.S. GDP growth potential will be determined by productivity growth. If the latter cannot pick up, we contend that the economy will be stuck in this slow GDP growth environment. Subsequently, interest rates will stay lower for longer.

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