

## Highlights

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## A new economic crystal ball for EM gazers

Hugo Cox Dec 23 12:42 Comments



How to predict future growth in emerging markets (EM)? This is a million dollar question for investors and policymakers. Dozens of crystal-ball indices have sprung up but most of them are pretty poor when it comes to making predictions.

So the latest measure, assembled by a group at Boston's MIT and dubbed 'economic complexity', is of interest. It looks beyond the traditional measure of 'economic diversity', which has proved useful to economists because countries that export a diverse range of products tend to be better equipped to ride the roller coaster of global demand than those that produce just a few.

The new measure devised by the MIT team also considers the rarity of exported products, judged by the number of other countries that also export them. Including this factor alongside diversity of exports, the measure predicts that countries that export a wider variety of goods that are in relatively scarce supply stand to outperform those countries that export a narrow repertoire of goods in competition with other entrenched producers.

Cesar Hidalgo, Director of the Macro Connections group at The MIT Media Lab, has tested the predictive power of 'economic complexity' measure.

He looked at the difference between GDP and economic complexity in 1985 across a hundred or so economies. According to the theory, a big difference meant subsequent GDP should be higher – in order to close the gap. Sure enough, the actual annualised GDP between 1985 and 2000 was pretty close to that predicted by the relationship between GDP and economic complexity in 1985 (see clustering around the diagonal line, below).

Many of the outliers, notes Hidalgo, are countries that faced big political instabilities in that time, including Iran, Iraq and Liberia.

Hidalgo believes economic complexity could be a valuable resource for investors and policy makers because it is better at predicting future growth than the current favoured indices, notably the Global Competitiveness Index, published annually by the World Economic Forum.

"The global competitiveness index is a very poor predictor of long term GDP per capita growth, compared to economic complexity, but it makes the headlines of all newspapers business section every year," Hidalgo says.

To see the difference between economic diversity and complexity, compare Singapore, Pakistan and Chile. They were equally diversified – ie they had the same total number of different exported products – in the year 2000 (see chart below) – but their per capita GDP differed significantly (x axis).



ones.

But don't start using the MIT measure, for next year's stock market returns, warns Hidalgo. "Because of the long term predictability of the measure (complexity is a fundamental), I would advice against using 2012 metrics to predict growth in 2013 or 2014."

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