

# **Raoul Pal, Paying Attention**

JOHN MAULDIN | March 28, 2017

When my friend Raoul Pal – mastermind of Global Macro Investor and partners with Grant Williams in Real Vision TV – has something to say, my ears perk up. And when he leads off a piece this way, I am ALL ears:

I'm going to blow your mind with this following article. My mind is still reeling from my discovery and from writing this piece.

Turns out he's talking about India, and more specifically, about recent advances in that nation's technological infrastructure.

[I]t is very rare indeed that a country develops an outsized technological infrastructure breakthrough that leaves the rest of the world far behind.

But exactly this has just happened in India... and no one noticed.

And Raoul wastes no time in telling us the implications of this development:

India is now the most attractive major investment opportunity in the world.

That's quite a statement. So rather than tease his insight, I'll just let Raoul make his case.

It is this sort of "How did you find that?" idea that Raoul is known for. He writes one of the most expensive macroeconomic letters in the world, and his subscriber list is short and extremely exclusive.

I first met Raoul maybe seven years ago in a small private hedge fund gathering to which he gave a presentation. We stayed in contact and begin to find ourselves together at various events, often ending up on panels and stages together. Raoul has become a good friend. Shane and I have been lucky enough to stay with him at his home on Little Cayman Island (total population 100 residents, with one bar and a few small hotels that cater to the serious scuba diving community. It is the ultimate libertarian paradise – no government! When something has to happen in the community, they simply get together at the bar, decide who's going to pay for what, and get on with it.

Raul comes up with more unique ideas per year than any man I know. What's fascinating is that he comes up with an idea and then you begin to see it filtering into the trading/hedge fund community.

This year at the <u>Strategic Investment Conference</u>, Raoul has agreed to let me utilize him a great deal more than in the past. Not only is he presenting with Grant Williams (a killer duo last year) but he will also be moderating and participating in a few panels. When you come to the conference (surely you are coming to the conference), you want to make sure to spend some time getting to know Raoul.

And with that, I'm going to dive back into my own research and see if I can come up with a few more ideas worthy of your attention. Maybe not mind-blowing, but hopefully worth your time. Have a great rest of the week, and we'll touch base again this weekend.

Your just trying to keep up analyst,

And Marke

John Mauldin, Editor

Outside the Box

## India

By Raoul Pal March 2017

I'm going to blow your mind with this following article. My mind is still reeling from my discovery and from writing this piece.

Let me enlighten you...

Companies that create massively outsized technological breakthroughs tend to capture the investing population's attention and thus their share prices trade at huge multiples, as future growth and future revenues are extrapolated into the future.

From time to time, entire countries re-model their economies and shift their growth trajectory. The most recent example was the liberalisation of China's economy and massive spending on infrastructure, which together created an incredibly powerful force for growth over the last two decades.

But it is very rare indeed that a country develops an outsized technological infrastructure breakthrough that leaves the rest of the world far behind.

But exactly this has just happened in India... and no one noticed.

India has, without question, made the largest technological breakthrough of any nation in living memory.

Its technological advancement has even left Silicon Valley standing. India has built the world's first national digital infrastructure, leaping at least two generations of financial technologies and has built something as important as the railroad was to the UK or the interstate highways were to the US.

India is now the most attractive major investment opportunity in the world.

It's all about something called Aadhaar and a breathtakingly ambitious plan with flawless execution.

What just blows my mind is how few people have even noticed it. To be honest, writing the article last month was the first time I learned about any of the developments. I think this is the biggest emerging market macro story in the world.

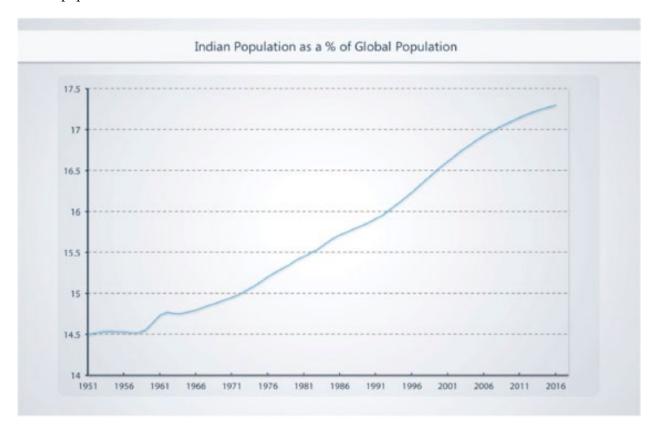
#### Phase 1 - The Aadhaar Act

India, pre-2009, had a massive problem for a developing economy: nearly half of its people did not have any form of identification. If you were born outside of a hospital or without any government services, which is common in India, you don't get a birth certificate. Without a birth certificate, you can't get the basic infrastructure of modern life: a bank account, driving license, insurance or a loan. You operate outside the official sector and the opportunities available to others are not available to you. It almost guarantees a perpetuation of poverty and it also guarantees a low tax take for India, thus it holds Indian growth back too.

Normally, a country such as India would solve this problem by making a large push to register more births or send bureaucrats into villages to issues official papers (and sadly accept bribes in return). It would have been costly, inefficient and messy. It probably would have only partially worked.

But in 2009, India did something that no one else in the world at the time had done before; they launched a project called Aadhaar which was a technological solution to the problem, creating a biometric database based on a 12-digit digital identity, authenticated by finger prints and retina scans.

Aadhaar became the largest and most successful IT project ever undertaken in the world and, as of 2016, 1.1 billion people (95% of the population) now has a digital proof of identity. To understand the scale of what India has achieved with Aadhaar you have to understand that India accounts for 17.2% of the entire world's population!



But this biometric database was just the first phase...

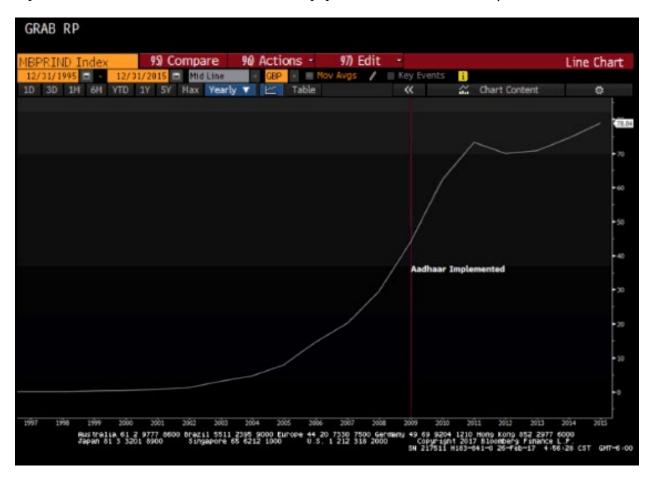
# **Phase 2 - Banking Adoption**

Once huge swathes of the population began to register on the official system, the next phase was to get them into the banking system. The Government allowed the creation of eleven Payment Banks, which can hold money but don't do any lending. To motivate people to open accounts, it offered free life insurance with them and linked bank accounts to social welfare benefits. Within three years more than 270 million bank accounts were opened and \$10bn in deposits flooded in.

People who registered under the Aadhaar Act could open a bank account just with their Aadhaar number.

# Phase 3 - Building Out a Mobile Infrastructure

The Aadhaar card holds another important benefit – people can use it to instantly open a mobile phone account. I covered this in detail last month but the key takeaway is that mobile phone penetration exploded after Aadhaar and went from 40% of the population to 79% within a few years...



The next phase in the mobile phone story will be the rapid rise in smart phones, which will revolutionise everything. Currently only 28% of the population has a smart phone but growth rates are close to 70% per year.

In July 2016, the Unique Identification Authority of India (UIDAI), which administers Aadhaar, called a meeting with executives from Google, Microsoft, Samsung and Indian smartphone maker Micromax amongst others, to talk about developing Aadhaar compliant devices.

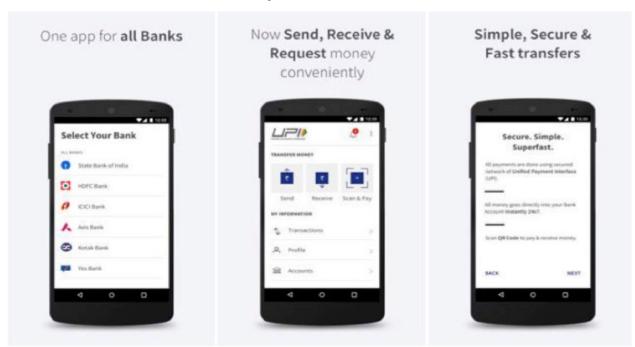
Qualcomm is working closely with government authorities to get more Aadhaar-enabled devices onto the market and working with customers – including the biggest Android manufacturers – to integrate required features, such as secure cameras and iris authentication partners.

Tim Cook, CEO of Apple, recently singled out India as a top priority for Apple.

Microsoft has also just launched a lite version of Skype designed to work on an unstable 2G connection and is integrated with the Aadhaar database, so video calling can be used for authenticated calls.

This rise in smart, Aadhaar compliant mobile phone penetration set the stage for the really clever stuff...





But that is not all. In December 30th 2016, Indian launched BHIM (Bharat Interface for Money) which is a digital payments platform using UPI (Unified Payments Interface). This is another giant leap that allows non-UPI linked bank accounts into the payments system. Now payments can be made from UPI accounts to non-UPI accounts and can use QR codes for instant payments and also allows users to check bank balances.

While the world is digesting all of this, assuming that it is going to lead to an explosion in mobile phone eWallets (which is happening already), the next step is materializing. This is where the really big breakthrough lies...

Payments can now be made without using mobile phones, just using fingerprints and an Aadhaar number.

Fucking hell. That is the biggest change to any financial system in history.

What is even more remarkable is that this system works on a 2G network so it reaches even the most remote parts of India!! It will revolutionise the agricultural economy, which employs 60% of the workforce and contributes 17% of GDP. Farmers will now have access to bank accounts and credit, along with crop insurance.

But again, that is not all... India has gone one step further...

# Phase 5 - India Stack - A Digital Life

In 2016, India introduced another innovation called India Stack. This is a series of secured and connected systems that allows people to store and share personal data such as addresses, bank statements, medical records, employment records and tax filings and it enables the digital signing of documents. This is all accessed, and can be shared, via Aadhaar biometric authentication.

Essentially, it is a secure Dropbox for your entire official life and creates what is known as eKYC: Electronic Know Your Customer.

Using India Stack APIs, all that is required is a fingerprint or retina scan to open a bank account, mobile phone account, brokerage account, buy a mutual fund or share medical records at any hospital or clinic in India. It also creates the opportunity instant loans and brings insurance to the masses, particularly life insurance. All of this data can also in turn be stored on India Stack to give, for example, proof of utility bill payment or life insurance coverage.

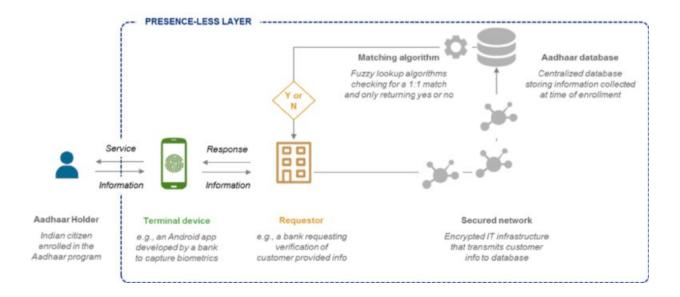
What is India Stack exactly?

India Stack is the framework that will make the new digital economy work seamlessly.

It's a set of APIs that allows governments, businesses, startups and developers to utilise a unique digital infrastructure to solve India's hard problems towards presence-less, paperless and cashless service delivery.

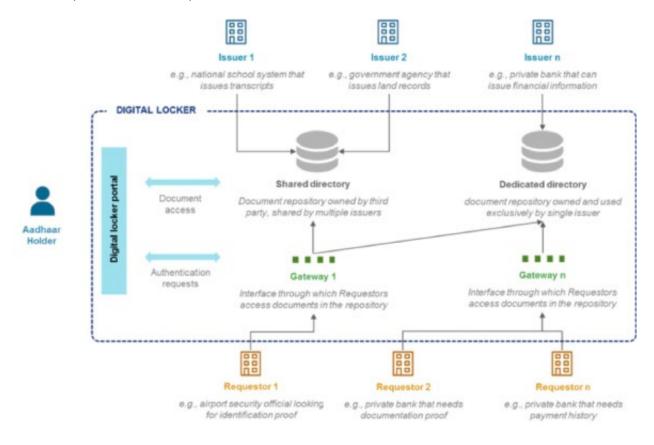
- Presence-less: Retina scan and finger prints will be used to participate in any service from anywhere in the country.
- Cashless: A single interface to all the country's bank accounts and wallets.
- Paperless: Digital records are available in the cloud, eliminating the need for massive amount of paper collection and storage.
- Consent layer: Give secured access on demand to documents.

India Stack provides the ability to operate in real time, transactions such as lending, bank or mobile account opening that usually can take few days to complete are now instant.



As you can see, Smart phones will act as key to access the kingdom.

This is fast, secure and reliable; this is the future...



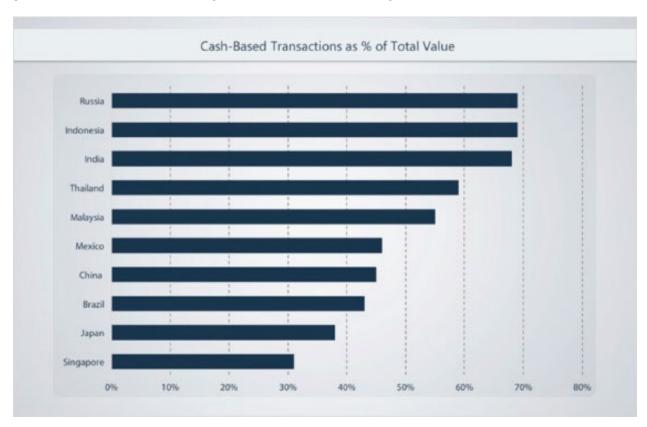
This revolutionary digital infrastructure will soon be able to process billions more transactions than bitcoin ever has. It may well be a bitcoin killer or at best provide the framework for how blockchain technology could be applied in the real world. It is too early to tell whether other countries or the private sector adopts blockchain versions of this infrastructure or abandons it altogether and follows India's centralised version.

India Stack is the largest open API in the world and will allow for massive fintech opportunities to be built around it. India is already the third largest fintech centre but it will jump into first place in a few years. India is already organizing hackathons to develop applications for the APIs.

It has left Silicon Valley in the dust.

### Phase 6 - A Cash Ban

The final stroke of genius was the cash ban, which I have also discussed at length in the past. The cash ban is the final part of the story. It simply forces everyone into the new digital economy and has the hugely beneficial side-effect of reducing everyday corruption, recapitalising the banking sector and increasing government tax take, thus allowing India to rebuild its crumbling infrastructure...



India was a cash society but once the dust settles, cash will account for less than 40% of total transactions in the next five years. It may eliminate cash altogether in the next ten years.

The cash ban digitizes India. No other economy in the world is even close to this.

# Phase 7 - The Investment Opportunity

Everyone thinks they know about the Indian economy – crappy infrastructure, corruption, bureaucracy and antiquated institutions but with a massively growing middle class. Well, that is the narrative and has been for the last 15 years.

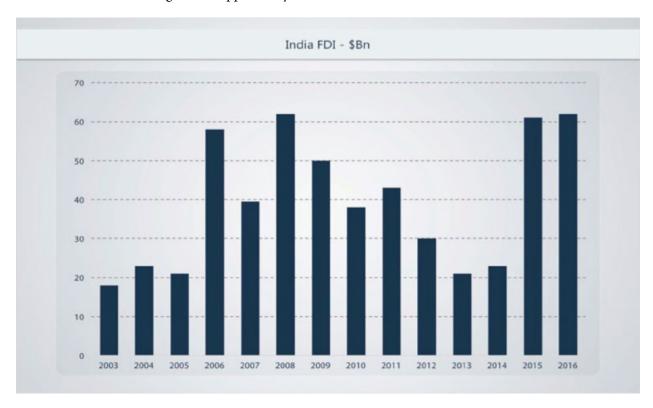
But that phase is over and no one noticed. So few people in the investment community or even Silicon Valley are even vaguely aware of what has happened in India and that has created an enormous investment opportunity.

The future for India is massive technological advancement, a higher trend rate of GDP and more tax revenues. Tax revenues will fund infrastructure – ports, roads, rail and healthcare. Technology will increase agricultural productivity, online services and manufacturing productivity.

Telecom, banking, insurance and online retailing will boom, as will the tech sector.

Nothing in India will be the same again.

FDI is already exploding and will rise massively in the years ahead as technology giants and others pour into India to take advantage of the opportunity...



I am long the telco sector (Bharti)...



And I am long the Nifty Banks Index...



I think India is going to offer an entire world of opportunity going forwards.

If I can sum up, it's in this one chart: the SENSEX in US Dollars. It looks explosive for the next 10 years...



Incredible India indeed.

## \*\*\*Hot off the press\*\*\*

I decided to test the waters on Twitter on Sunday and Monday to find out how many non-Indians were aware of India Stack/Aadhaar. I have 24,000 followers on Twitter, many of which are you guys, and hosts of others heavily engaged in financial markets i.e. it's a decent data sample.

In the 12 hours since the survey began, around 900 people have responded. It appears that 90% of the investment world knows absolutely nothing about the biggest IT project ever accomplished and have never even heard of it.



Now, that is an informational edge.

#### **BACKGROUND**

Raoul Pal has been publishing Global Macro Investor since January 2005 to provide original, high quality, quantifiable and easily readable research for the global macro investment community hedge funds, family offices, pension funds and sovereign wealth funds. It draws on his considerable 26 years of experience in advising hedge funds and managing a global macro hedge fund.

Global Macro Investor has one of the very best, proven track records of any newsletter in the industry, producing extremely positive returns in eight out of the last twelve years.

Raoul Pal retired from managing client money at the age of 36 in 2004 and now lives in the tiny Caribbean island of Little Cayman in the Cayman Islands.

He is also the founder of Real Vision Television, the world's first on-demand TV channel for finance: www. realvisiontv.com

Previously he co-managed the GLG Global Macro Fund in London for GLG Partners, one of the largest hedge fund groups in the world.

Raoul moved to GLG from Goldman Sachs where he co-managed the hedge fund sales business in Equities and Equity Derivatives in Europe. In this role, Raoul established strong relationships with many of the world's pre-eminent hedge funds, learning from their styles and experiences.

Other stop-off points on the way were NatWest Markets and HSBC, although he began his career by training traders in technical analysis.

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Raoul Pal, Global Macro Investor, Cayman Islands

March 2017

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