

"Wherever there is Risk, there are opportunities for Actuaries"

South Africa is the only country where Actuaries can specialise in Banking

Banks in the Digital Age

- Digitisation changes traditional market structures and creates new hybrid business models
- Unbundling and democratisation of finance
- New disruptive competitors enter the market
- Banks enable third party apps and become marketplaces for all transactional needs
- Advent of big data & regulatory changes

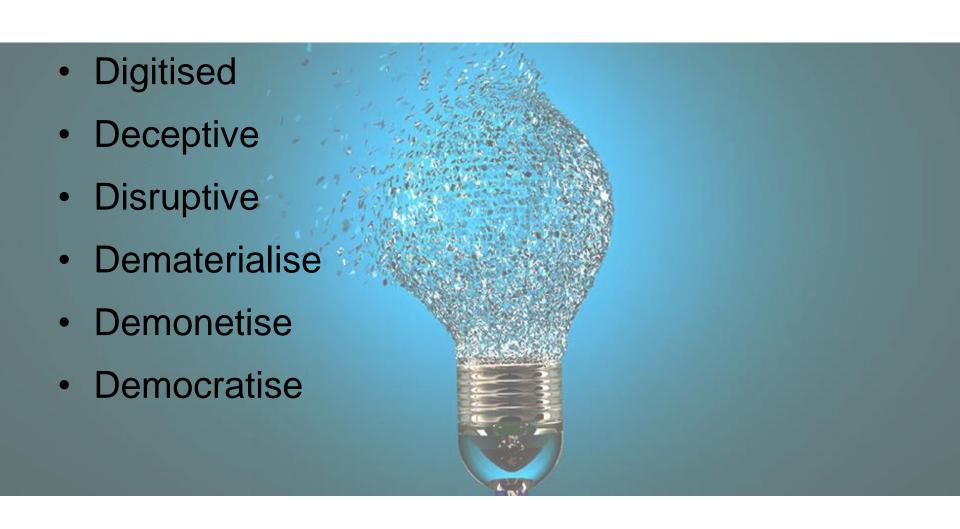
Actuaries play a key role

- Advanced data analytics and better insights so banks can make quick decisions and take action.
- Anticipation of new business risks.
- Identification of opportunities and new strategic directions.
- As Banks start to look more like technology companies, Actuaries need to become technologists too.

The Digital Disruption has already happened

- World's largest taxi company owns no taxis (Uber)
- Largest accommodation provider owns no real estate (Airbnb)
- Largest phone companies own no telco infra (Skype & WeChat)
- World's most valuable retailer has no inventory (Alibaba)
- Most popular media owner creates none of its own content (Facebook)
- World's largest movie house owns no cinemas (Netflix)
- Largest software vendors don't write the apps (Apple & Google)

Framework of Exponentials: Diamandis' 6 Ds



The Exponential Growth of Data

5 Exabytes = 5 Billion Gigabytes From the start of time ~ 2003

In 2010 ~ 2 days

In 2013 ~ 10 minutes

Today ~ 2 minutes

Why digitised information growth is exponential

- Zero friction to move/copy
- Zero marginal cost
- Apply computation
- Data correlations
- Machine learning
- Modeling
- Simulations

100% democratisation of effort/innovation





Several products have been **Dematerialised** into one device

(TV, flash light, alarm clock, camera, books, CD's)

Demonetised

Abundance of products & services available

FREE online



3D printing is in a Deceptive growth phase



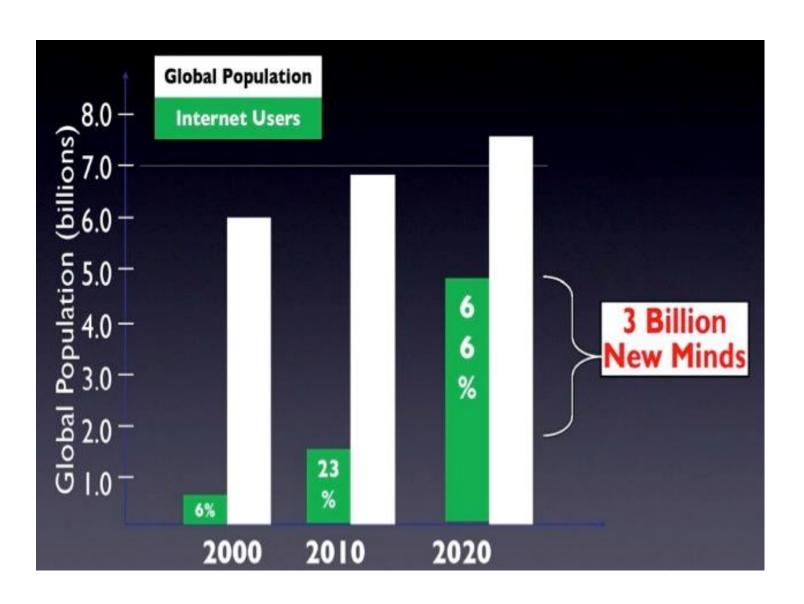
Democratisation

When a technology spreads across the world

Predicted there will be a billion handsets in Africa this year



Force: Rising Billion



Mobile is the new tech ecosystem

Tech moves forward by going from one ecosystem to the next, and each new ecosystem is a change in scale. Mobile has the scale of everyone on earth.

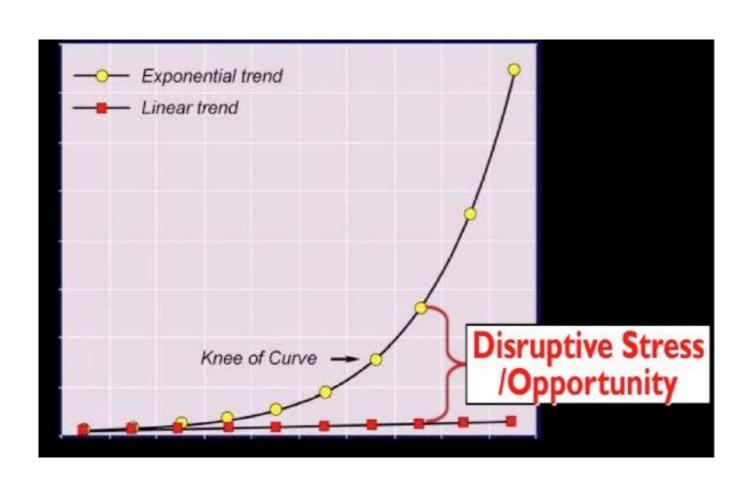


Andreessen Horowitz

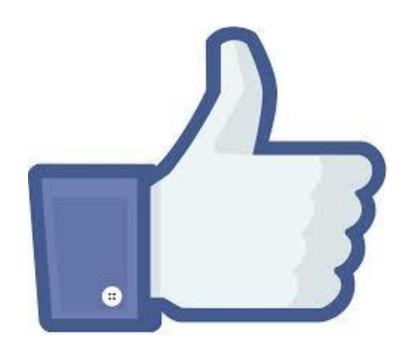
"Right now, a Masai warrior using Google on a smart phone in the middle of Kenya has access to more information than the U.S. president did just 15 years ago"



Artificial Intelligence (AI), Robotics, 3D Printing, Synthetic Biology, Media Tech, Nanotech, Solar, Networks & Sensors



Finance is OK?





Smartphones for under R600









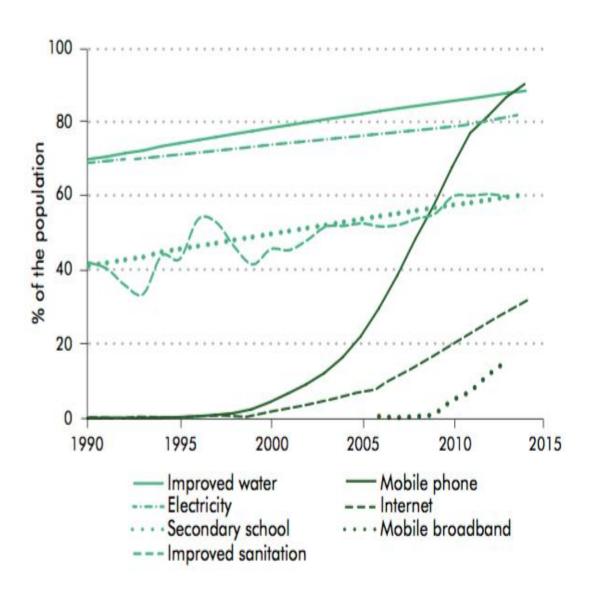






Half a billion
Smartphones
will be sold
in Africa
by end 2020

In developing countries more households own a mobile phone than have access to electricity or sanitation





A bank in 2020 will store, monetise & license a customers' data You can deposit data like money. Lend, spend, invest and earn interest from your data



Money doesn't make the world go round - You Do



Do you share your make-up tips with mates? Taught a co-worker to code? Fund-raised and proudly wear the t-shirt? It feels good right! It's rewarding. It's valuable. You're valuable.

aura

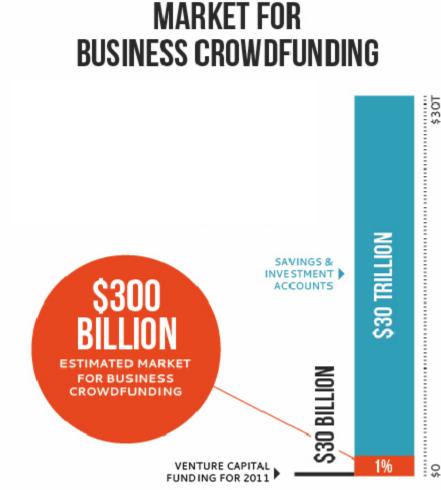
A world where your worth is the contents of your character, not the contents of your wallet

crowdfunder

Revolution In Finance

Economy +
Social +
Technology +
Legislation =

Unique Time



Prediction: By 2025 **virtual currencies** will compete with national currencies

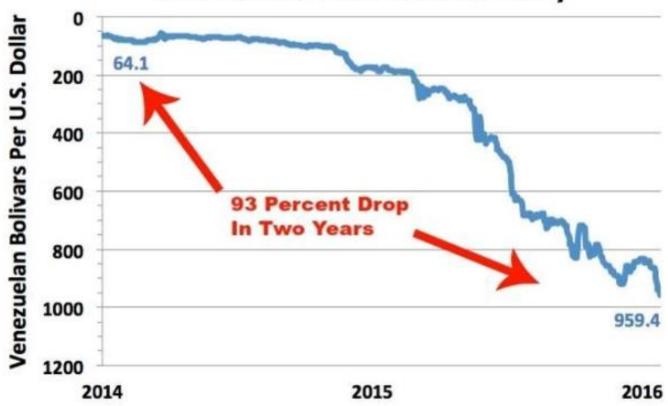








Venezuela's Death Of A Currency



Source: dolartoday.com



Complex Communication

INVESTING | 4/19/2012 @ 1:08PM | 11,876 views

Forbes Earnings Preview: Apple

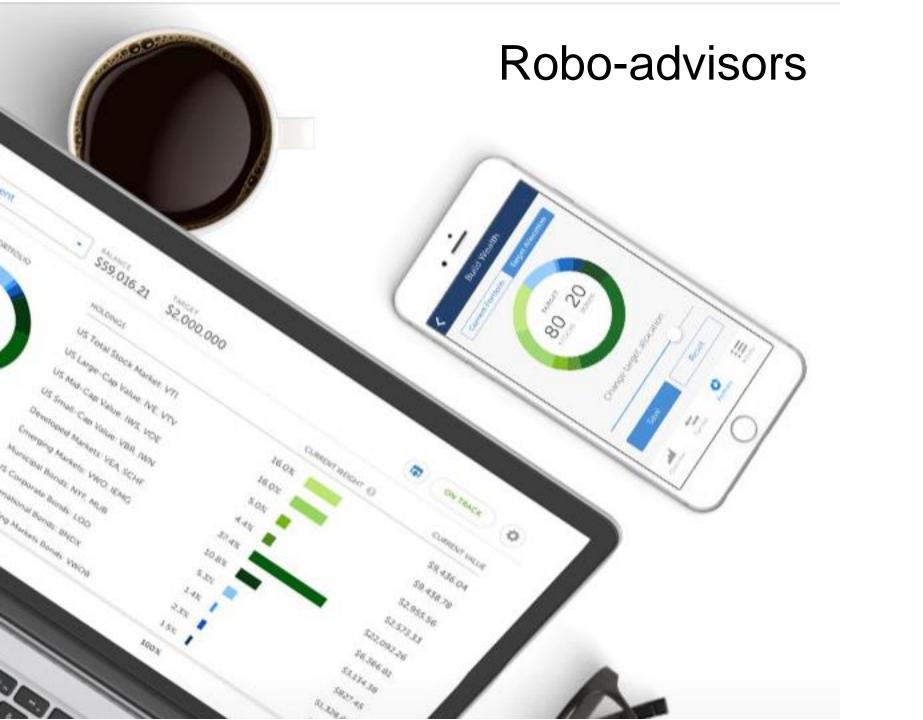
By Narrative Science

+ Comment now

Analysts have become increasingly bullish on **Apple** (**AAPL**) in the month leading up to the company's second quarter earnings announcement scheduled for Tuesday, April 24, 2012. The consensus earnings per share estimate has moved up from \$9.60 a share to the current expectation of earnings of \$9.86 a share.

f Share
49

What to Expect:





We're the global leader in solving business challenges through predictive analytics.

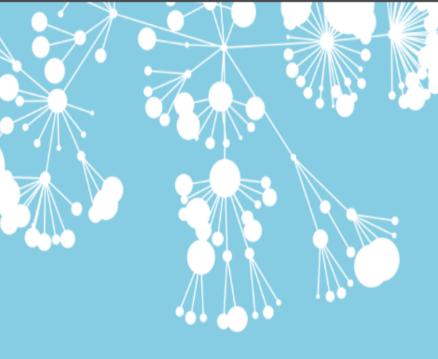












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10 Most Common behavioral Biases



Thank you

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