

PRACTITIONERS' & PROFESSIONAL FIRMS GROWTH FORUM WEBINAR

Date: 12th to 13th Aug 2020

Time: 08:00 - 17:00 Hours

Vision: A world class Professional Accountancy Institute



Technology and the Future of the Accountancy Practice

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Time: 9:00-9:45am Q&A: 10:30-11:00am

ABOUT US OUR 4 PILLARS





Technical

Infrastructure &

Machine Learning Softwares app.predictiveanalytics.co.ke



Knowledge Sharing

masterclass.predictiveanalytics.co.ke



Strategy & Consulting

Data Governance & Reculturization

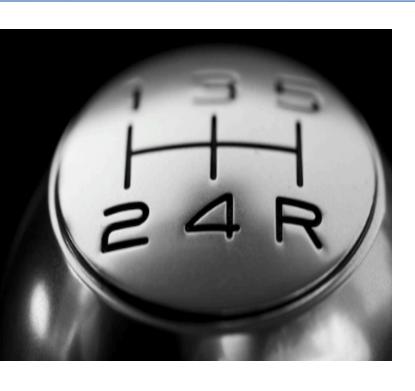


Community

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WHAT'S DRIVING IT





- People
- RegulatoryBoundaries
- Technology

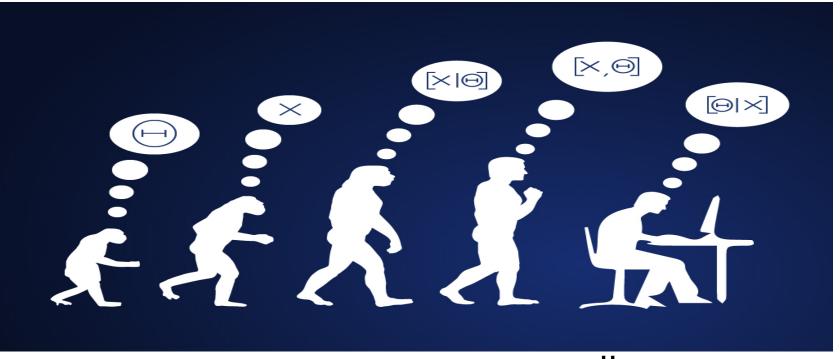
4th Industrial Revolution





(Yet another) History of life as we know it...





Homo **Apriorius** Homo

Homo **Pragmaticus Frequentisus**

Homo Sapiens

Homo **Bayesianis**

DASHBOARD



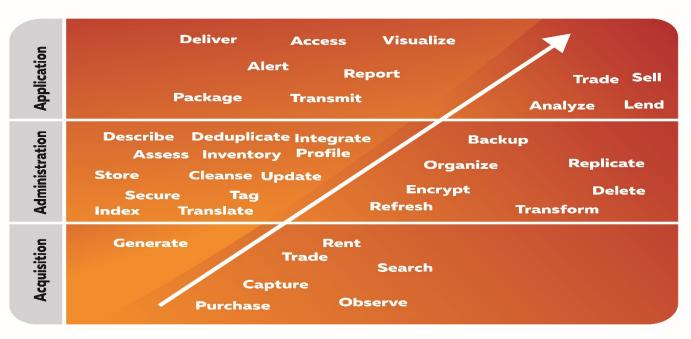


INFORMATION SUPPLYCHAIN





INFORMATION SUPPLY CHAINS



DATA FORMATS





Data Definition Framework



Data Format

Structured









Human-Generated

- Survey ratings
- Aptitude testing

Machine-Generated

- Web metrics from Web logs
- Product purchase from sales Records
- Process control measures

Unstructured









Human-Generated

- · Emails, letters, text messages
- Audio transcripts
- Customer comments
- Voicemails
- Corporate video/communications
- Pictures, illustrations
- Employee reviews

Human-Generated

- Number of Retweets, Facebook likes, Google Plus +1s
- Ratings on Yelp
- · Patient ratings ratings

Machine-Generated

- GPS for tweets
- Time of tweet/updates/postings

Human-Generated

- · Content of social media updates
- Comments in online forums
- Comments on Yelp
- Video reviews
- · Pinterest images
- Surveillance video



External

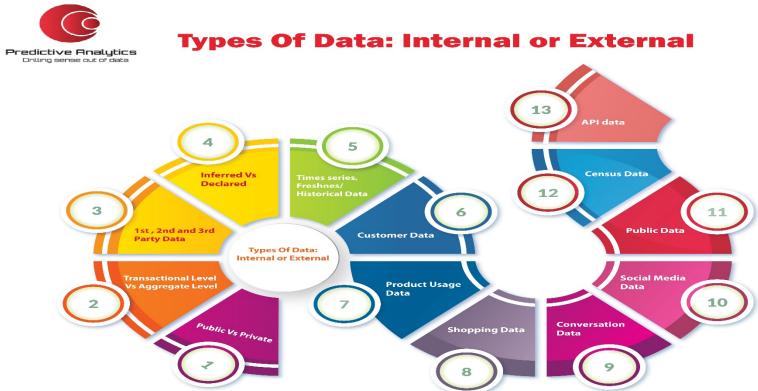
Internal





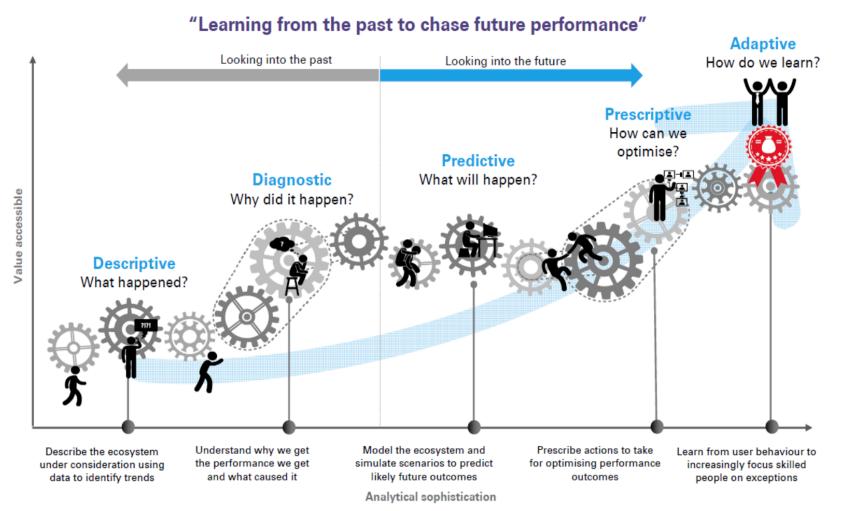
TYPES OF DATA





MATURITY CURVE





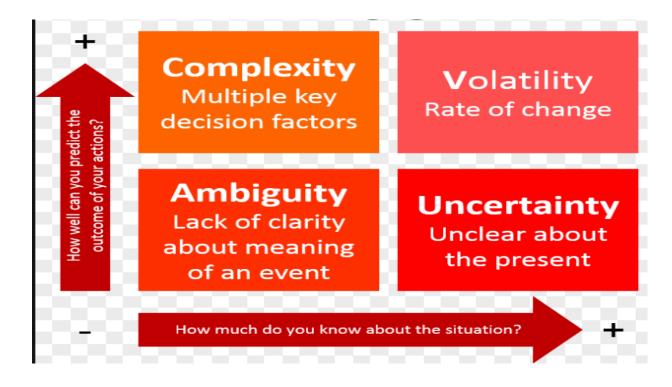
COVADIT (Corona Virus Accelerated Digital Transformation)





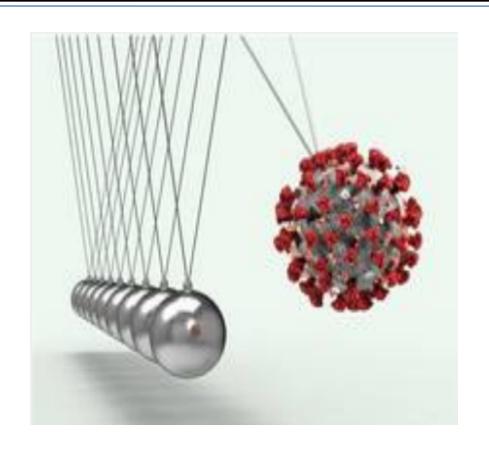
FLUID VUCA ENVIROMENT

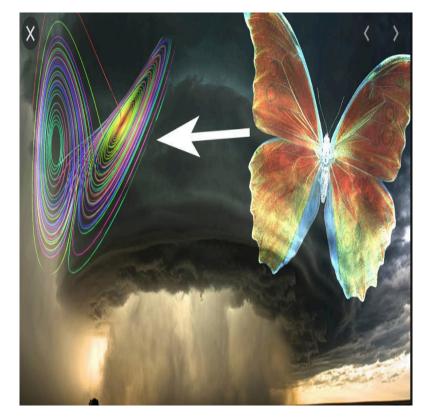




BUTTERFLY EFFECT







RESILIENCE



Responses need to be targeted based on the nature of the shock and recovery timeline for each industry

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	'New winners'	Hibernate	Lengthy recovery	Managed decline
Description	Industries experiencing a combination of rising demand as a result of COVID-19, or benefiting from the transformative effects COVID-19 could have on behaviours postcrisis	Industries experiencing short-term shocks, but that still remain fundamentally competitive and will be able to resume trade at a fairly rapid pace as COVID-19 impacts lessen	Industries with risk of being severely hit by both supply disruptions and demand contractions, and although these still remain viable are likely to require more time before recovering	Industries likely to be fundamentally re-shaped by long-term transformative forces of COVID-19 – potentially accelerating decline or consolidation of less competitive industries
Example industries	Digital sector players; Potential for local manufacturers driven by focus on supply chain resilience + diversification from China	Ag exports e.g., tea, coffee, horticulture etc as cargo trade resumes; SMEs that serve basic needs e.g., restaurants, beauty/grooming	Domestic and leisure tourism; export-oriented heavy manufacturing (hit by global recession)	Business travel + MICE – core behaviour shifts of operating in WFH environment in addition to climate change concerns

How well do you understand your direct and indirect exposure to these spaces?

How quickly can you understand and pursue opportunities?

Source: Dalberg analysis



BUSINESS RECOVERY CURVES



L CURVE
U CURVE
W CURVE
V CURVE
∠CURVE

PWC RESILIENCE REPORT



The PwC Global Customer Resilience To COVID-19 Disruption.

Short-Term Industry Exposure (Q2 FY20)	Ability to Recover	Mid-Range (2H20)*	Long-Term (2021 and beyond)
Aerospace & Defense	Low	Aerospace & Defense	Aerospace & Defense
Automotive	Low	Automotive	Automotive
Higher Education & Research	Medium/High	Higher Education & Research	Higher Education & Research
Industrial Machinery & Components	Low	Industrial Machinery & Components	Industrial Machinery & Components
Oil & Gas	Low	Oil & Gas	Oil and Gas
Professional Services	Medium	Professional Services	Professional Services
Sports & Entertainment	Medium	Sports & Entertainment	Sports & Entertainment
Travel & Transportation	Low	Travel & Transportation	Travel & Transportation
Chemicals	Low/Medium	Chemicals	Chemicals
Mill Products	Low	Mill Products	Mill Products
Mining	Low	Mining	Mining
Public Sector	High	Public Sector	Public Sector
Retail	Medium	Retail	Retail
Banking	High	Banking	Banking
Consumer Products	Medium	Consumer Products	Consumer Products
Defense & Security	High	Defense & Security	Defense & Security
Engineering, Construction & Operations	Low	Engineering, Construction & Operations	Engineering, Construction & Operations
High Tech	Medium	High Tech	High Tech
Insurance	High	Insurance	Insurance
Life Sciences	Low/Medium	Life Sciences	Life Sciences
Utilities	High	Utilities	Utilities
Wholesale Distribution	Low	Wholesale Distribution	Wholesale Distribution
Healthcare	Medium	Healthcare	Healthcare
Media	High	Media	Media
Telecommunications	High	Telecommunications	Telecommunications

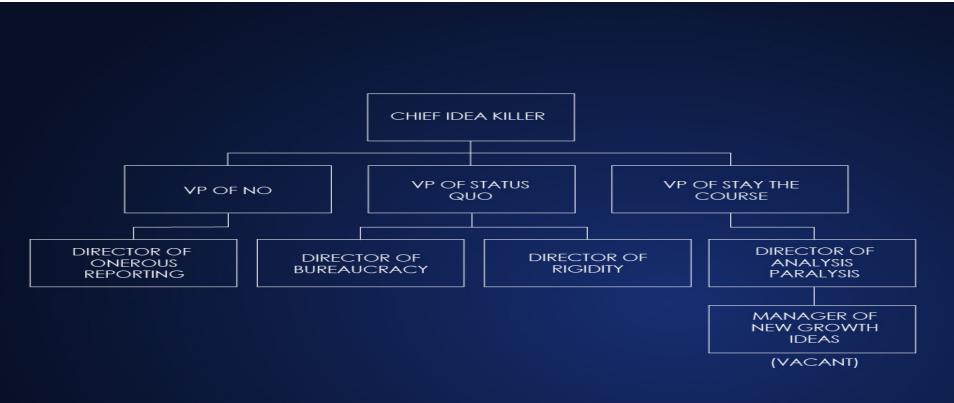
STRUCTURE - COBOT





CULTURE

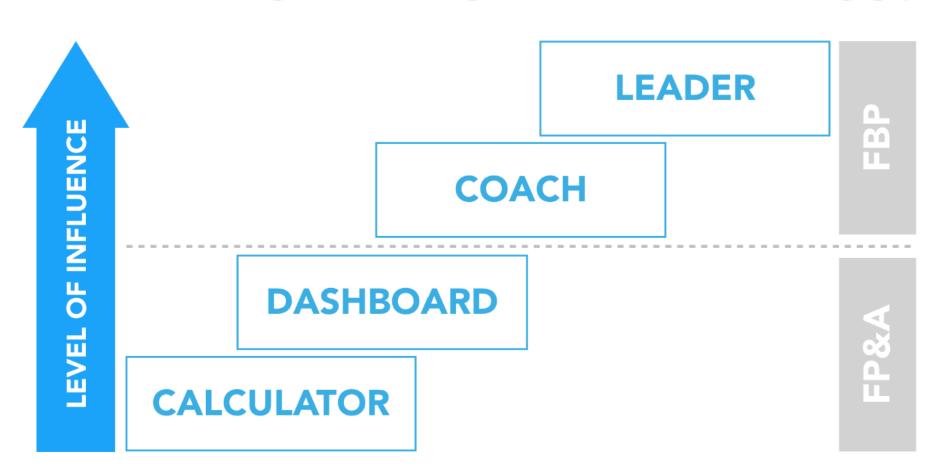




FINANCE PARTNER



WHAT TYPE OF FINANCE PARTNER ARE YOU?



TYPES



If you spend most of your time at reporting, budgeting or forecasting you're the CALCULATOR.

Spend most of your time building dashboards and working in BI, you're the DASHBOARD.

Spend most of your time with people, getting to know them, finding the WIIFM and influencing decisions, you're the COACH.

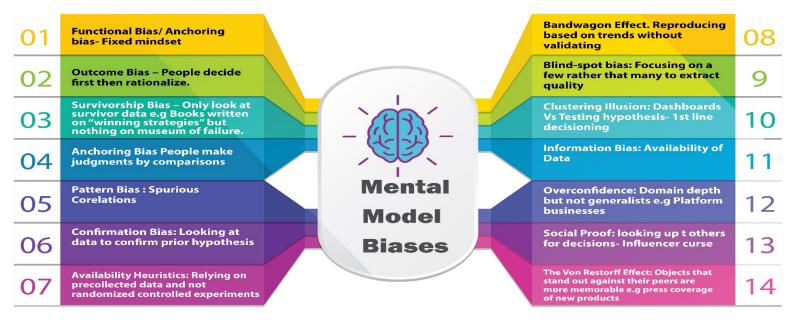
And if you've transcended finance and seen as a broad commercial leader, you're *the LEADER*.

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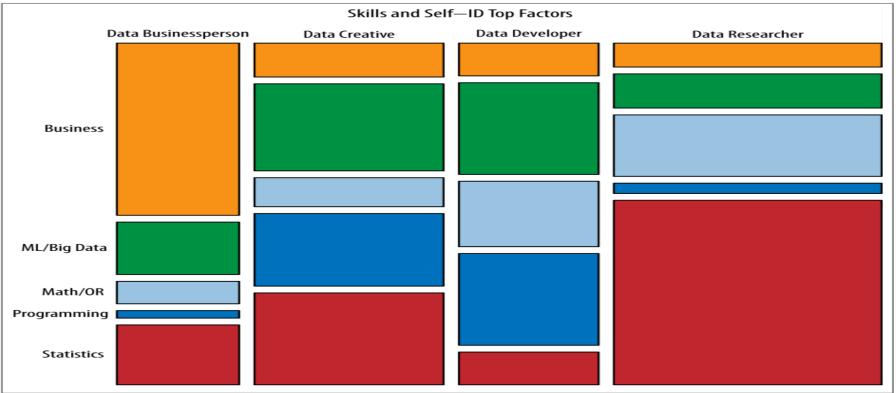


Mental Model Biases



SKILLS





TALENT



Getting Data Scientists

01

Competitive Hiring

 There exists some skills of already experienced data scientists who are good at entry level classification and regression problems.



Internal Training

 Boot Camp training and entry level data science programs are good methods of ensuring that the Data IQ within organizations is raised



Scaling technical staff

 Statistics, Finance, Engineering, Information Technology,
 Mathematics, Risk and Computer Science are great fields to identify and scale up select staff



Outsourcing

 For immediate results and return on Investment, outsourcing to experienced consulting firms also ensures that value can be derived from existing data



Strategic Sponsorships

 Hackathons and partnerships with the academia ensures that problems within organizations can be solved by brilliant minds within the industry



- Organic growth
- Easiest approach as skills development is pegged on organic growth and internal self driven scale up of existing staff

WHAT NEXT?





To meet data requirements, companies should strive to perform the following duties.

- 1. Develop Strategy
- 2.Softwares
- 3. Upskilling
- 4. Behaviour Change
- **5.Continuous Innovation Testing**
- 6.Build culture