

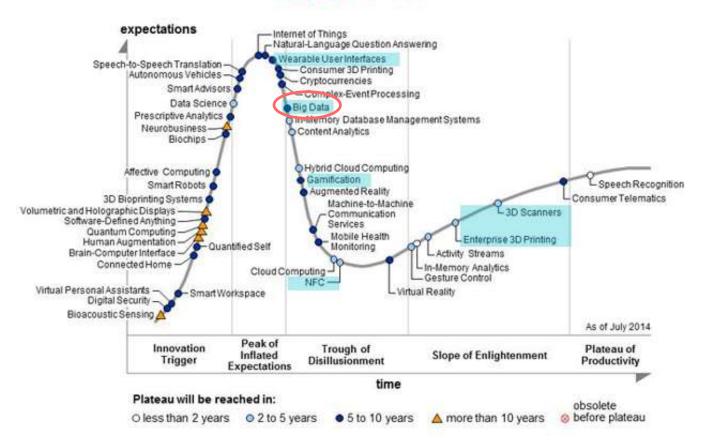
Level 7 Big Data:
The Science of Reading Between the Lines

Big Data Analytics

- \$14B industry in 2013;
- \$20B in 2014.
- Evidence of tangible benefit to clients ~ zero?



2014



You Don't Find Needles In Haystacks By Adding More Hay...



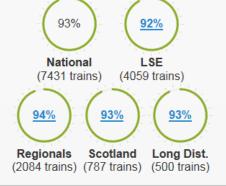
...even worse if there were no needles in the hay to begin with...

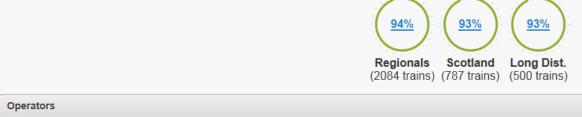
Data Breeds Data

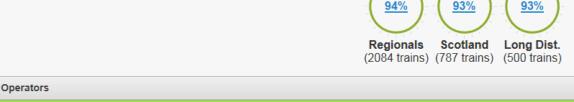
Hypothesis: the main reason for BDA dysfunction is it's being operated by data people.

George Harrison: 'if you don't know where you're going, any road will take you there'

'Any road' in this case means, if the last data I captured didn't help, I'll go and capture more data.







Arriva Trains Wales Trains: 315

Abellio Greater Anglia Trains: 678

London Overground Trains: 372

Chiltern Trains: 144

Virgin Trains Trains: 91

South West Trains Trains: 561

c2c Trains: 129

100%

98% 0

97% 0

97%

97%

0 98%

0 97%

Big Data = Small Wisdom



Location-tagged payments made in the U.S. annually

154 billion

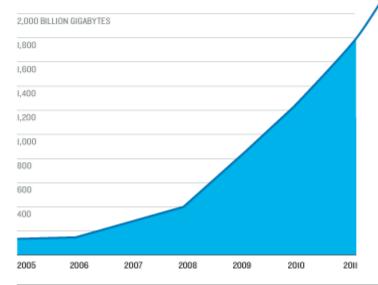


E-mails sent per day



U.S. adults whose location is known via their mobile phone

Digital Information Created Each Year, Globally



2,000%

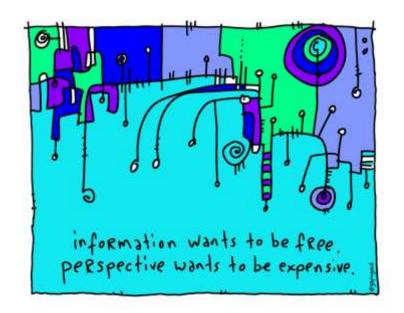
Expected increase in global data by 2020

III Megabytes

Video and photos stored by Facebook, per user

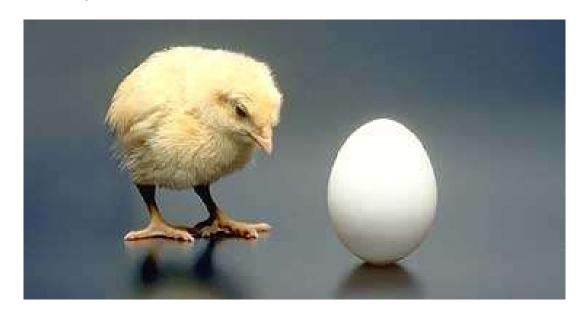
75%

Percentage of all digital data created by consumers



The Accidental Big Data Company

Hypothesis: you can only know what needs to be measured if you know what the solution is!

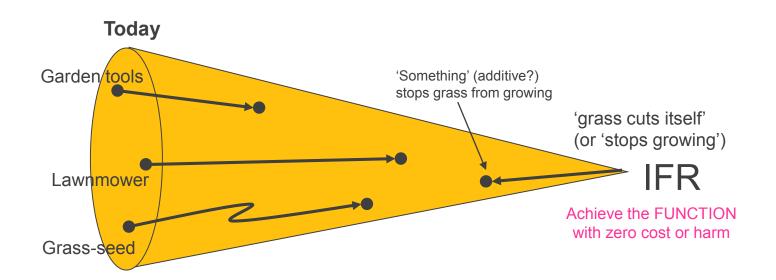


But We Do Know...

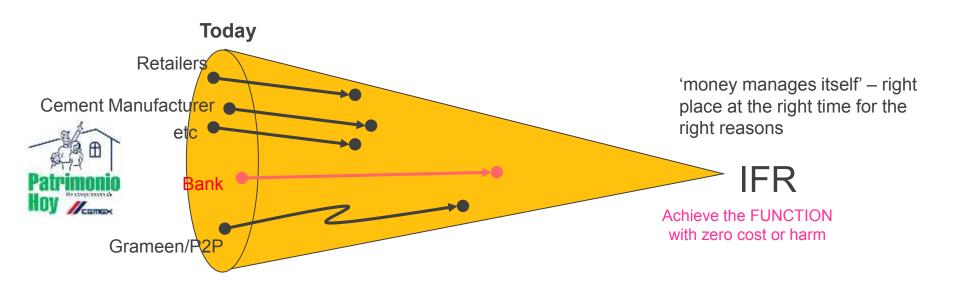


- * Increasing ideality is the over-riding driver for all system evolution
- * Ideality is about increasing the good, decreasing the bad
- * Ideality = 'Value' = <u>(Perceived)Benefits</u> (Cost + Harm)
- * IDEAL FINAL RESULT all the benefits, none of the cost or harm
- * 'free, perfect & now'
- * 'SELF'

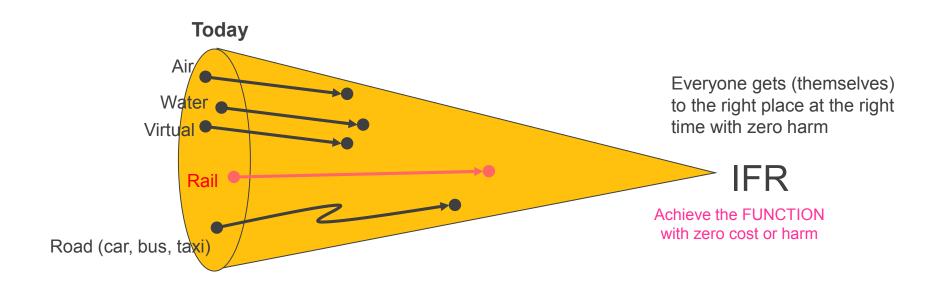
Lawnmowers – The Bigger Picture



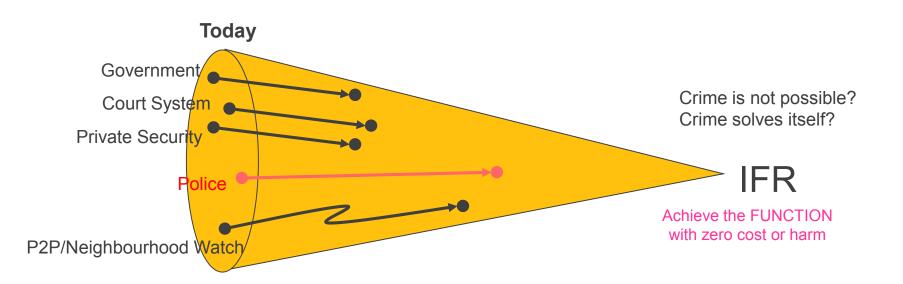
Financial Services – The Bigger Picture



Transport InfrastructureThe Bigger Picture



Law Enforcement – The Bigger Picture

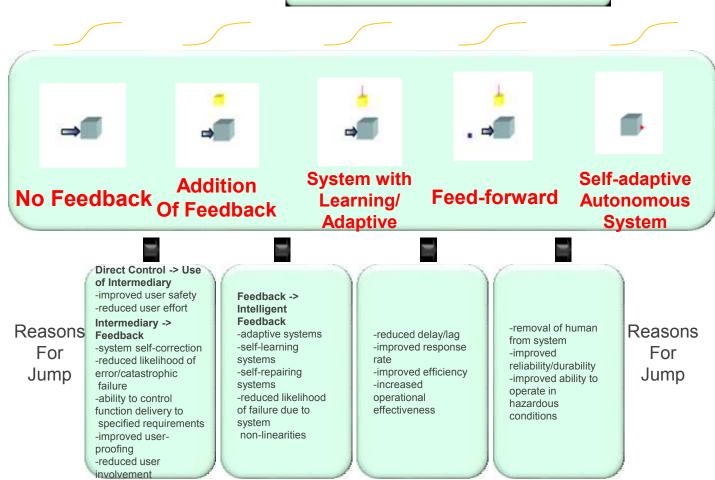


Problem Solving And 'Ideal Final Result



Predictable Evolution Signposts:

CONTROLLABILITY



Predictable Evolution Signposts:

MARKET EVOLUTION







Product



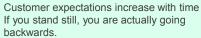
Service





Experience Transformation

Reasons For Jump



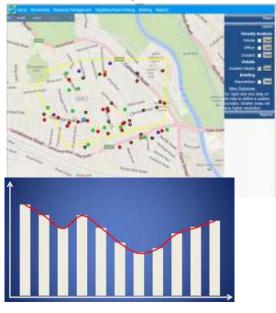
In order to remain competitive, you should be looking to the right along the trend

Key jump motivations:

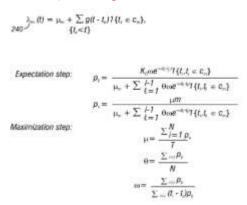
Service-experience = intangibles Experience-transformation = responsibility Reasons For Jump

PREDPOL: Input data from multiple sources is integrated in order to make a prediction of likely events. In the first instance, we will integrate five:

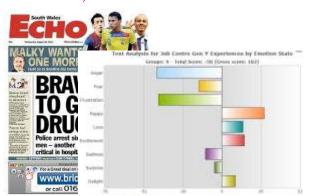
1) Incident Density Trend Data



2) Contagion Models



3) Social Mood Data trends



4) Special Event Calendar



5) Weather Forecasts

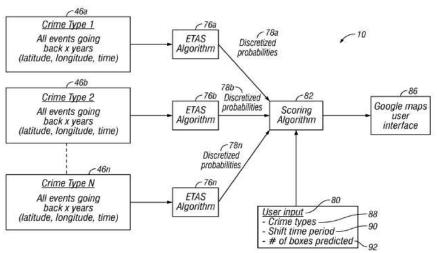


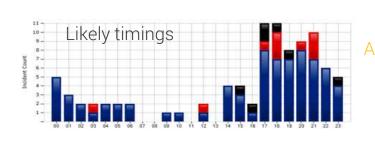


Pre-DMM Dashboard

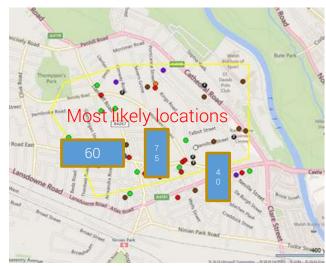
The DMM will be presented with a forecast of likely incidents of the various different crime types for the upcoming day(s), with outputs presented in both a geographic and

temporal basis:





Theft
Damage
Antisocial Behaviour
DV
Assault
Missing Persons
Major Incident

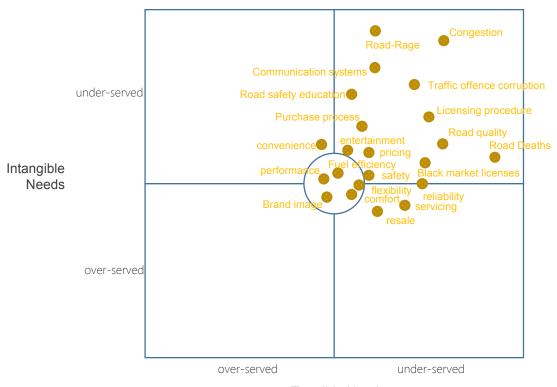


	College College - College
Predicted No. Incidents	90% Confidence Level
5	+/- 1
4	+/- 2
2	+/- 0.2
3	+/- 0.1
0	+/- 0.1
0	+/- 0.01
0	+/- 0.2



India – Driver Frustrations

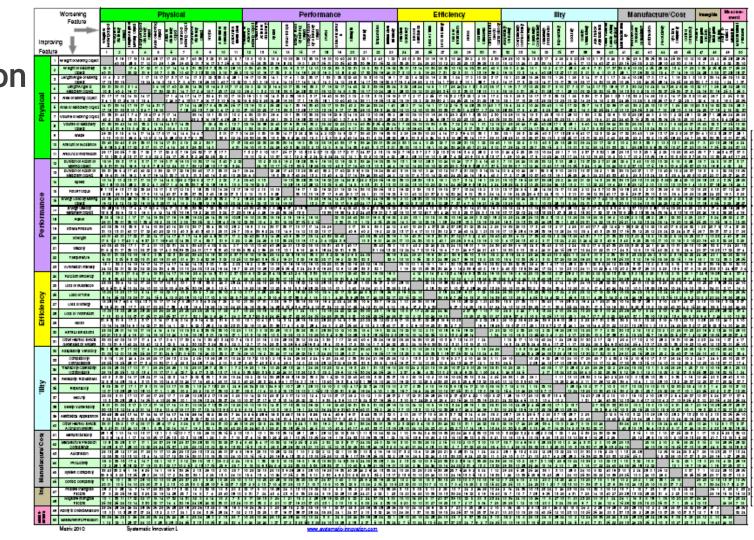
(based on scrape of multiple social media sources)



Tangible Needs



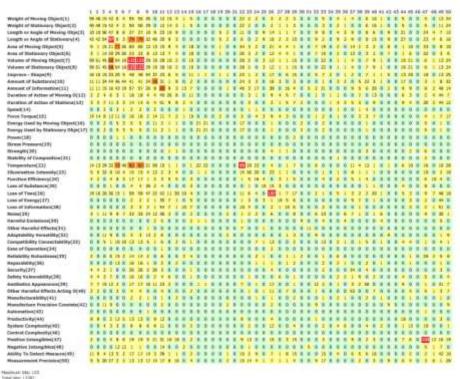
TRIZ Contradiction Matrix & 'Universal Ontologies'



Real World Technical Listening

Meaningful Measurements: Meaningful Solutions

'Contradiction Finder' tool: analyse large amounts of narrative (emails, reports, etc) In order to identify the main conflicts and contradictions present within a system:





Q. What do you think of (x) ...?



Pre-frontal Cortex

Your 'filtered' reaction that you present to the world

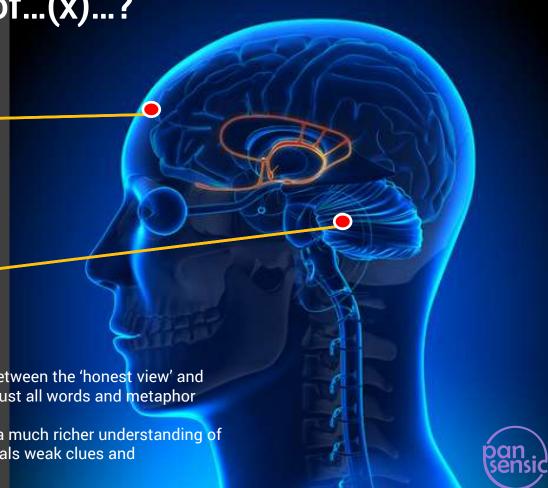


Limbic Brain

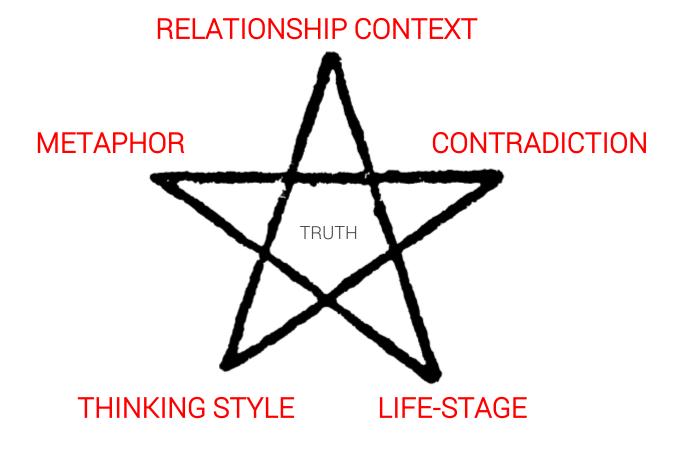
Your honest reaction to a question

While the 'packaging' of a comment may change between the 'honest view' and the 'public view', the brain is not fast enough to adjust all words and metaphor phrases in a descriptive response.

So by understanding this language choice, we get a much richer understanding of how somebody really feels/thinks/acts, which reveals weak clues and opportunities.

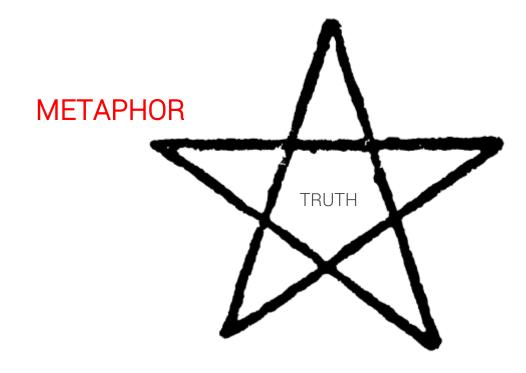


5 Elements Of Truth



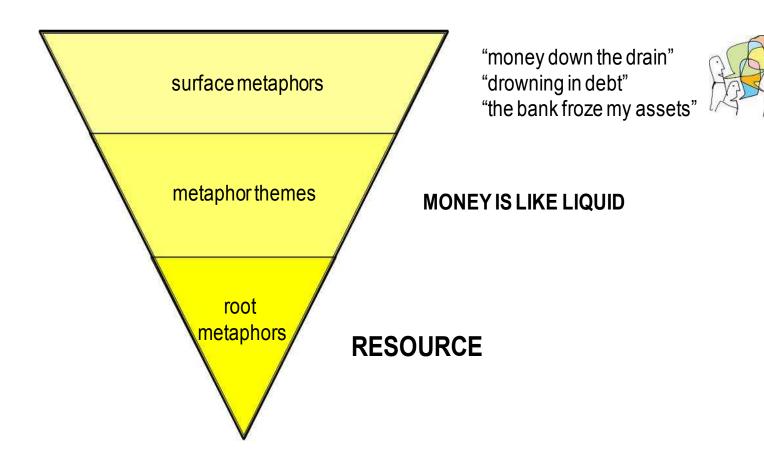


5 Elements Of Truth





Metaphor...





JupiterMu – Root Metaphor Analytics

Journey

How the Meeting of Past, Present, and Future Affects Peoples' Thinking

Union

How the Need to Relate to Oneself and Others Affects Peoples' Thinking

Power

How the Sense of Mastery, Vulnerability, and Well-Being Affect Peoples' Thinking

Inside

How Inclusion, Exclusion, and Other Boundaries Affect Peoples' Thinking

Transformation

How Changes in Substance and Circumstances Affect Peoples' Thinking

Equilibrium

How Justice, Equilibrium, and the Interplay of Elements Affect Peoples' Thinking

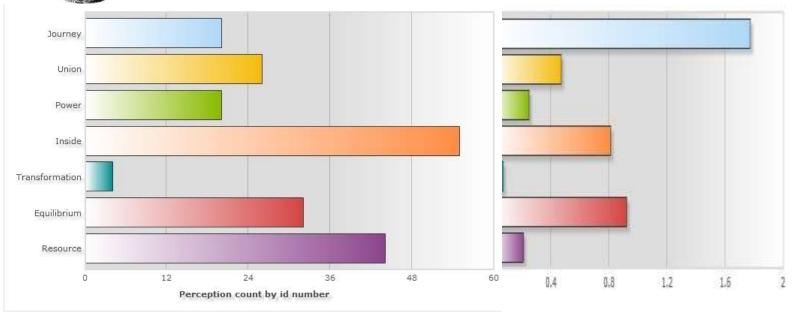
Resource

How Acquisitions and Their Consequences Affect Peoples' Thinking





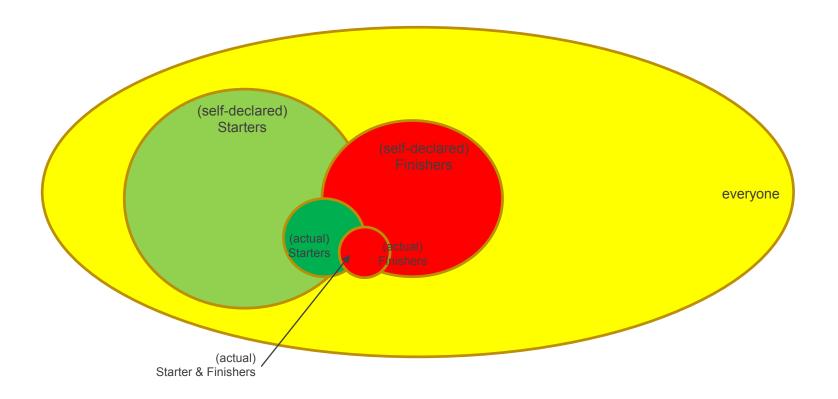
JupiterMu – Root Metaphor Analytics



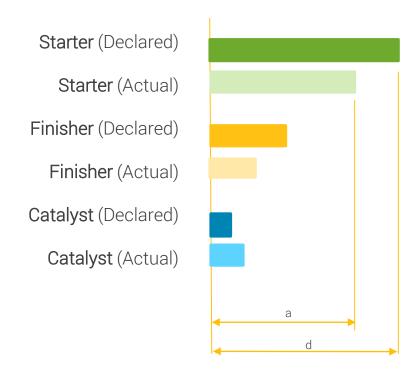




Starters & Finishers



Outputs



Realism = 100 + 100*(a-d)/d

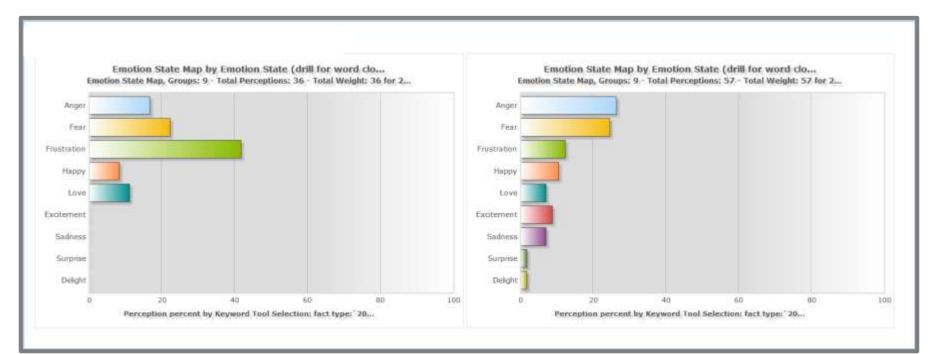
Starter = 78% (<100% represents person is over-optimistic about abilities)

Finisher = 60%

 $Catalyst = 115\% \ (>100\% \ represents \ person \ who \ underestimates \ their \ abilities)$



2014 2015





Hong Kong Frustrations

Capaign for universal suffrage - opposing views	Lust
Caution	Market Driver
Challenge to dictatorship Resheme	Online Censorship increased in HK
Community Celebrations	Outbound tours popular
Creativity opens eyes	Peace and ceremony
Critisim	People v Capitalism
Cultural Celebration	People v Power
Decrease in employment in the Activity Sector	Peoples voice growing
Definance against electrial reform	Political Corruption
Developing Tourism Facilities	Political Reform
Difference in cultural behaviours	Population Management
Difficulties for Young People - education and employment	Protection of endangered species
Disgruntled locals over good smuggling	Questioning communist links
Economic slow down	Questioning the agenda of supporters
Export demands from US - Lobster	Review on import control
Financial exploitation elder abuse	Rising Food Prices
Financial exploitation elder abuse	Risk of hostile attitudes
Financial exploitation elder abuse	Risk to locals
Financial Pressures	Security Risk
Financial strain	self censorship v Freedom of Expression
Flu Death Toll	Soaring Food Prices
Food Safety - Reviews on Export	Social and Economic inequality
Food Safety - Reviews on Export	Student generation rising
Freedom of Expression	Student Voice
Government Processes	Student Voice
Holidaymaker Critisim	Student Voice - Generational - natural progression
I.T. Bureau	Supporting revolution
llegal trading	Themes
Indulging on good food	Tourism
Inequality financial	Troubled Economy
IT Security	Uncertain change
Legislative Power	Universal Values
Loss of democracy	Zero Tolerence to unlicienced vendors

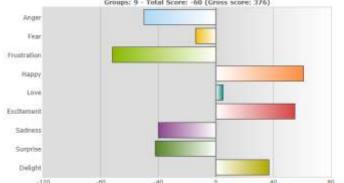


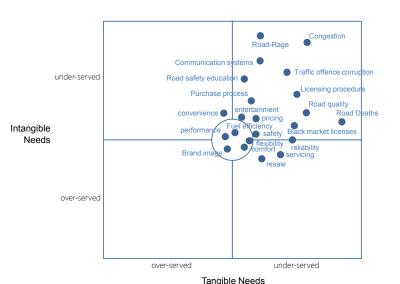


Real World Social Listening Meaningful Measurements: Meaningful Solutions

- PanSensic is a proprietary Big Data Analytics technology. It uses smart 'lenses' to read between the lines of discourse to identify clues, decode weak signals and frustrations, locate insights, and improve understanding of what customers and employees mean, not just what they say.
- PanSensic is grounded in 15+ years of academic research around human anthropology, social science and psychology. It applies a contextual understanding of how consumers use specific words and metaphor phrases, to arrive at an unparalleled comprehension of meaning.
- Unlike other Big Data providers, PanSensics started from a world of delivering meaningful solutions to seemingly intractable problems, where there is a need to measure what's important rather than what is merely convenient to measure
- PanSensic is helping marketers, managers and leaders to identify opportunities, recognise tensions, and improve communications.











Mapping



New-Trend Rad



'What will be



needs in India?





How to transform Call-Centre acceptability?











Pick up the weak signals that will change the world

darrell.mann@systematic-innovation.com