



# Intelligent Marketing - Spatial Behavioral Analysis

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**People matter, results count.**

# Introductions



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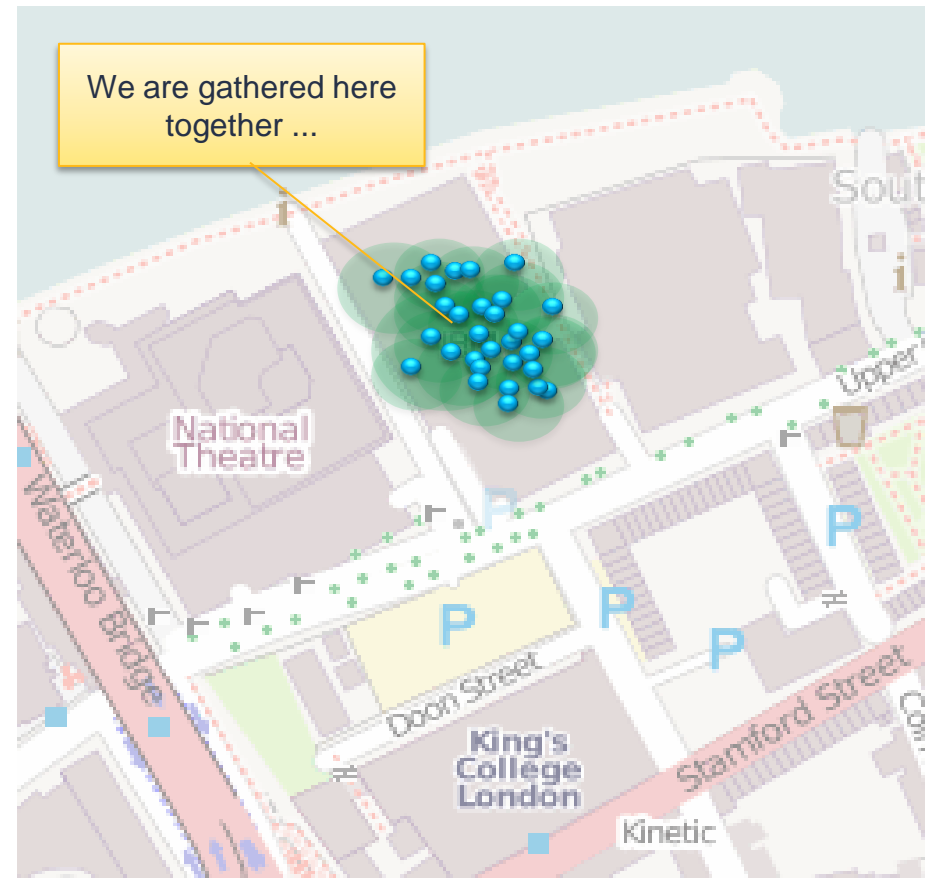


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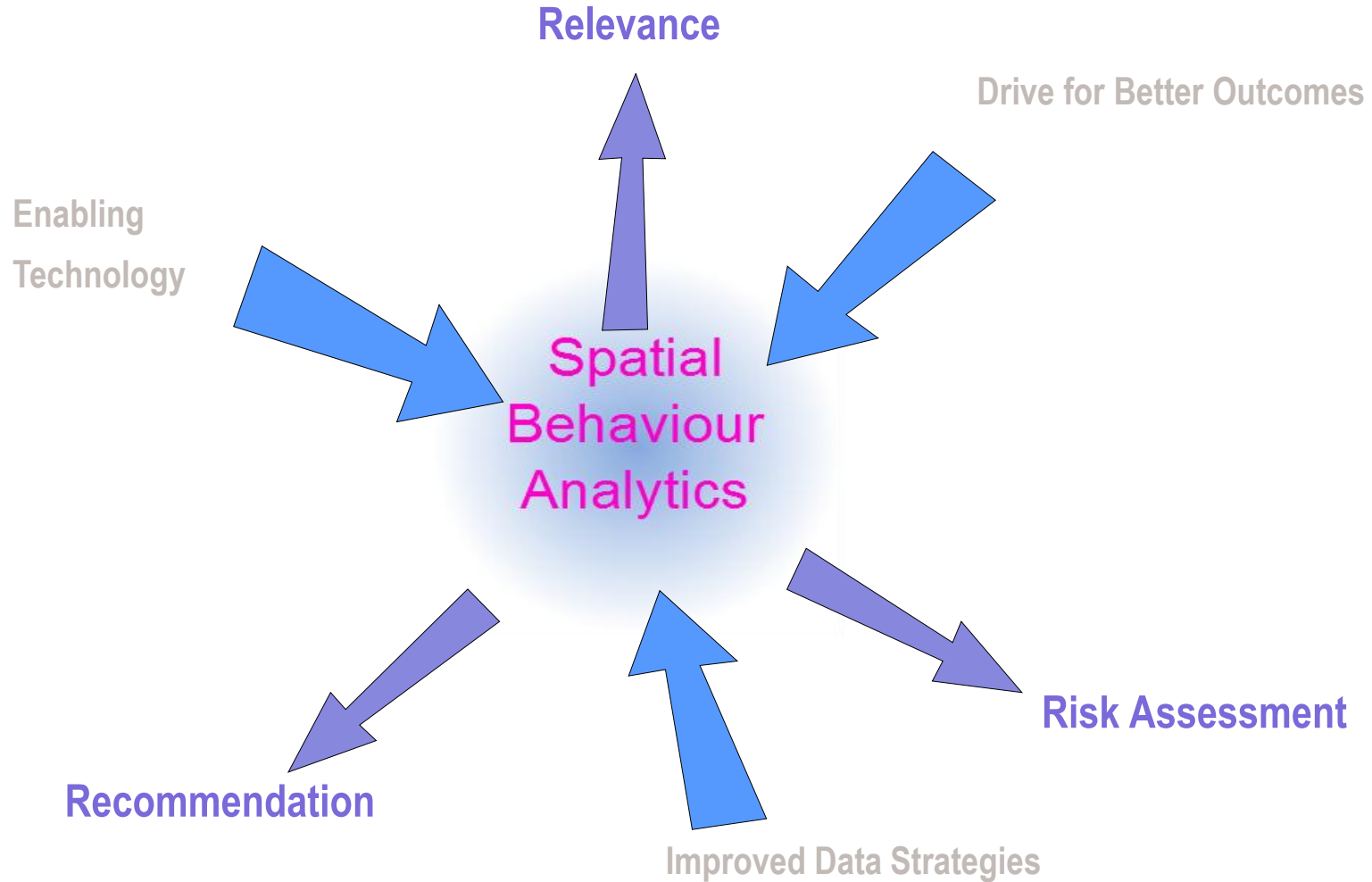
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# Agenda

- The 3 R's – Reading, wRiting & aRithmetic
- Behaviors In Places
- Relevance: Place As Campaign
- Recommendations: Habits as heat maps
- Risk: Risk exposure as route history
- The Big Idea: Spatial Behaviour
- Spatial Behavioral Analytics – as a Service
- The Platform
- Discovering Insights, Delivering Outcomes
- Capgemini – Business Information Management
- Intelligent Marketing

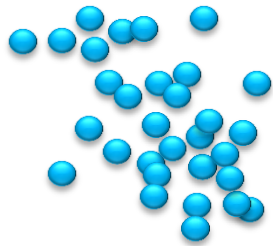


# The 3 Rs – Reading, wRiting & aRithmetic

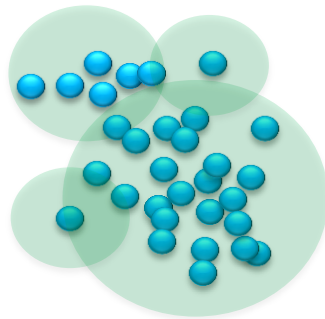


# Behaviours in Places

Where you interact and transact isn't random, it's the result of choices in places.



clustered by  
common  
behaviours



common  
behaviours  
in places

Place and behaviour are linked.



Spatial Behaviour – Common Behaviours in Places

# Relevance: Place as Campaign

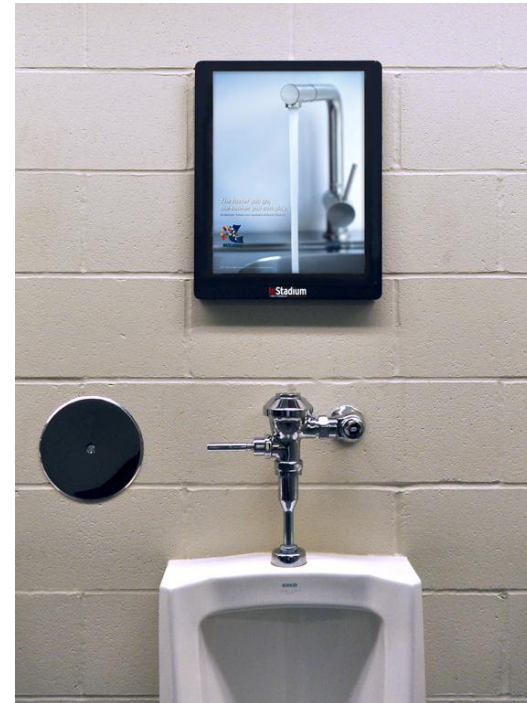
## “Place Specific” Campaigns

### Place-as-campaign

More relevant marketing campaigns can be defined at Places.

As customers are identified in a place, we make them a targeted offer.

These ideas aren't new, above the line marketing has always been focussed on advertising media placement.



It's not new to target campaigns on specific places

# Relevance: Place as Campaign

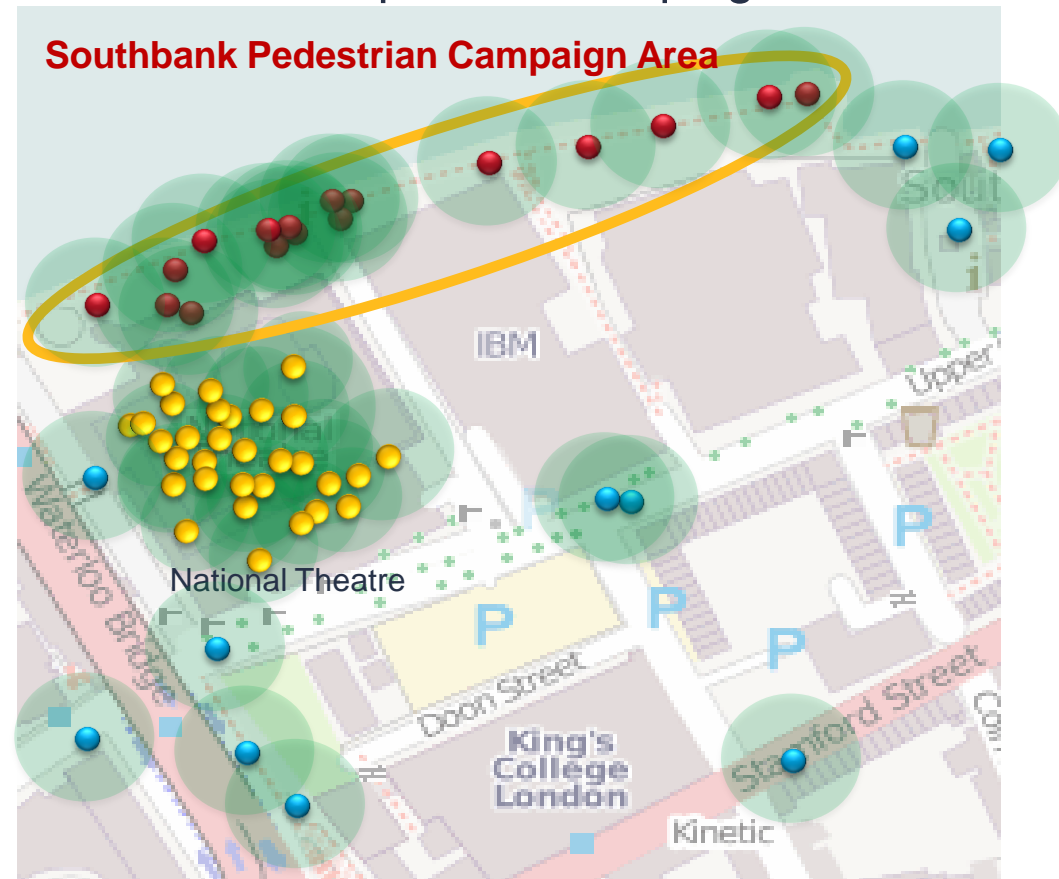
## Place-as-campaign

More relevant marketing campaigns can be defined at Places.

Tailoring Offers to people in places, allows us to focus on experience, and improve relevance.

For example, as you enter into the “campaign boundary” your inclusion in the campaign is Activated, and an offer, an alert, or a notification is sent.

## “Place Specific” Campaigns



National Theatre – “Southbank Pedestrian Offer”

# Recommendation: Habits as Heat-maps

## Habits-as-Heat-maps

Recommendations can be tailored to a customer's habits, revealed by the heat-maps of their locations over time: Their "Visited Place Profiles"

Here, an IBM employee, Dale Lane, used Google latitude to publish online his own personal travel heat map.

How might we tailor/ improve recommendations we make?





# Risk: Routes through Risk

As people move through heat-maps of “risk” we can tally up their exposure to tailor policies to them.

If motorways had a different car accident risk profile than other roads, how does this map record their exposure to risk, and how the policy might be priced?

We can also specify policy boundaries and alert them as they move “out of coverage” and offer to “top them up”



Routes as movement through risk heat maps

# The Big Idea: Spatial Behaviour

We think knowing where customers interact & transact can improve:

- Relevance
- Recommendation
- Risk Assessment

Place and behaviour are linked.



Spatial Behaviour – Behaviours in Places

# Spatial Behavioral Analytics – as a Service

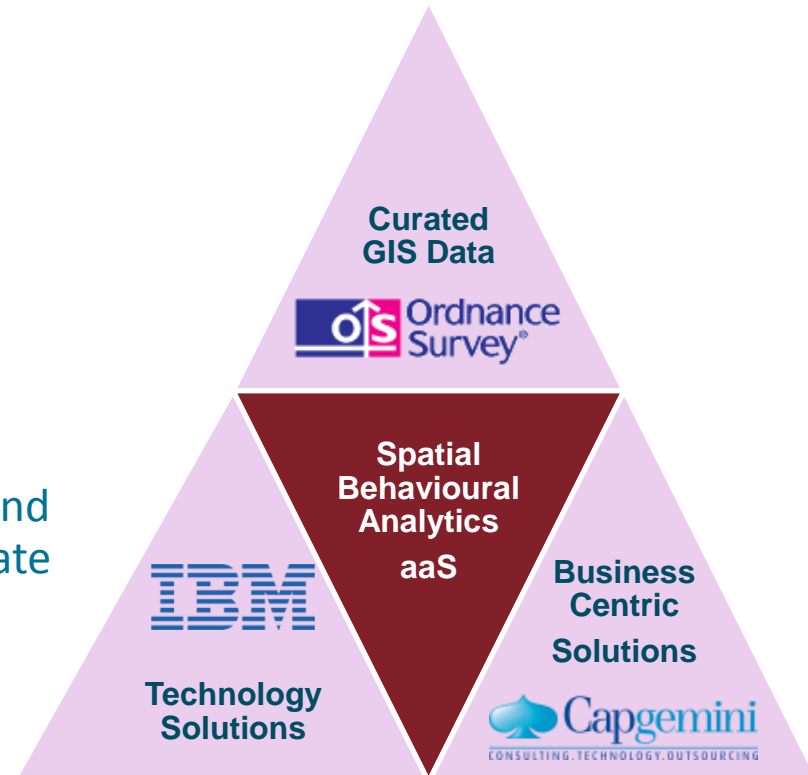
## ➤ “Spatial Data Science” on a “living atlas”

We believe that **“where customers transact/interact”** affects our clients ability to improve their:

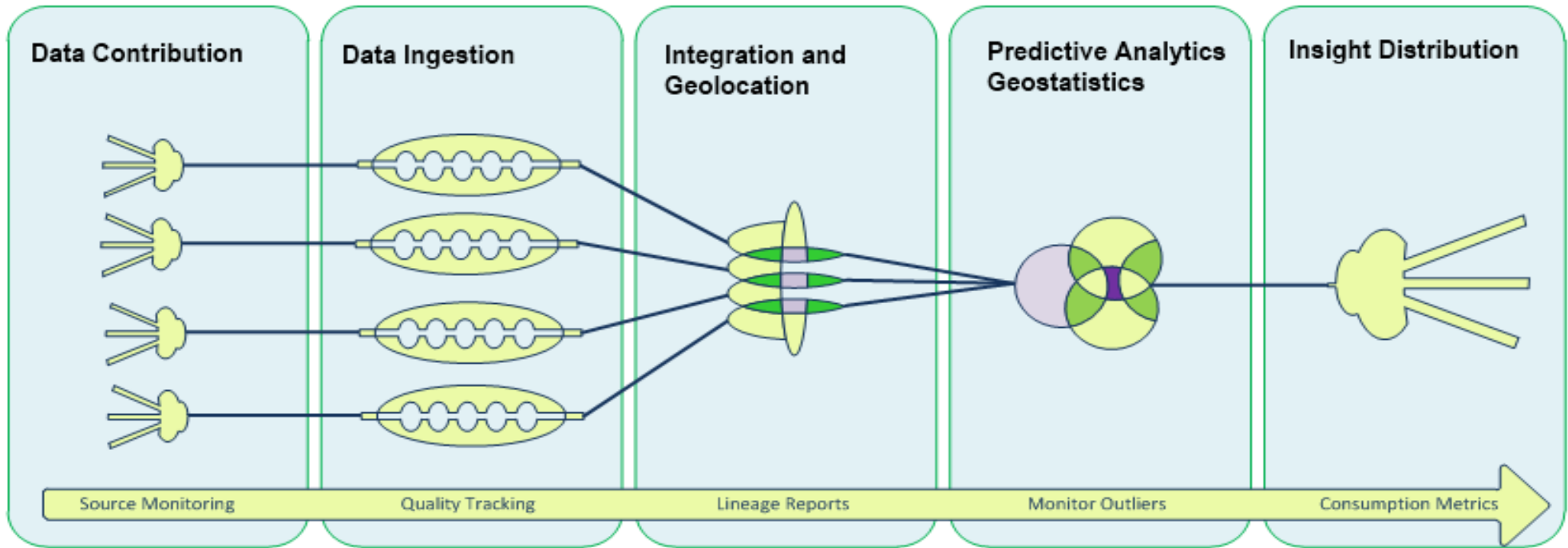
- ✓ *Relevance*
- ✓ *Recommendations*
- ✓ *Risk Assessments*

- The intersection of technology, spatial data competency, and experience in business centric solutions, enables us to create a platform to delivery

**“Spatial Behavioural Analytics aaS”**



# The Platform



- Clients on the platform buy analytics results, with/ without mapping context
- Data providers are granular – apps on the IPAD?
- Data Providers are Enterprises – passing along change data capture about Customers
- Reference Data Providers – provide shared information models, and reference sets that give context especially with respect to spatial data.
- The platform has underlying functionality to control it's shared use: Monitoring, Quality, Consumption monitoring, Data Access Controls.

# Discovering Insights, Delivering Outcomes

## *Value:*

- ✓ Provides analytics about “situated behaviours” within a “living atlas” having dynamic context
- ✓ Improves generalist AaaS platforms available today because:
- ✓ Caters to analysis about individuals, and their located and situated behaviours, against a backdrop of accurate curated spatial context.

## *Traditional areas of Geostatistics:*

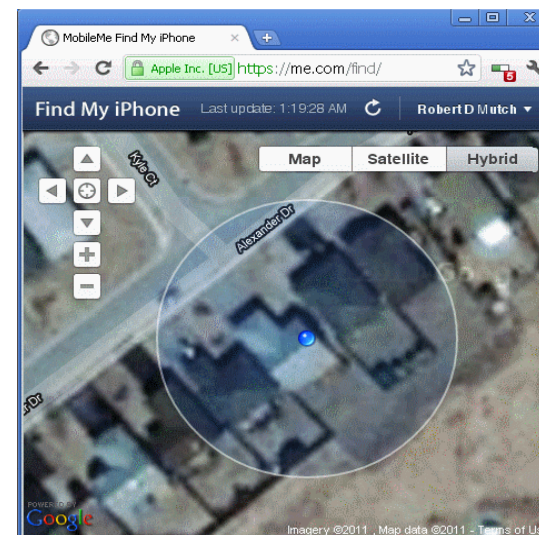
- ✓ Retail Gravity Models, Transportation Planning Models
- ✓ Route Planning, Static Insurance Risk Models, Environmental Modelling

## *New frontiers of Spatial Data Science:*

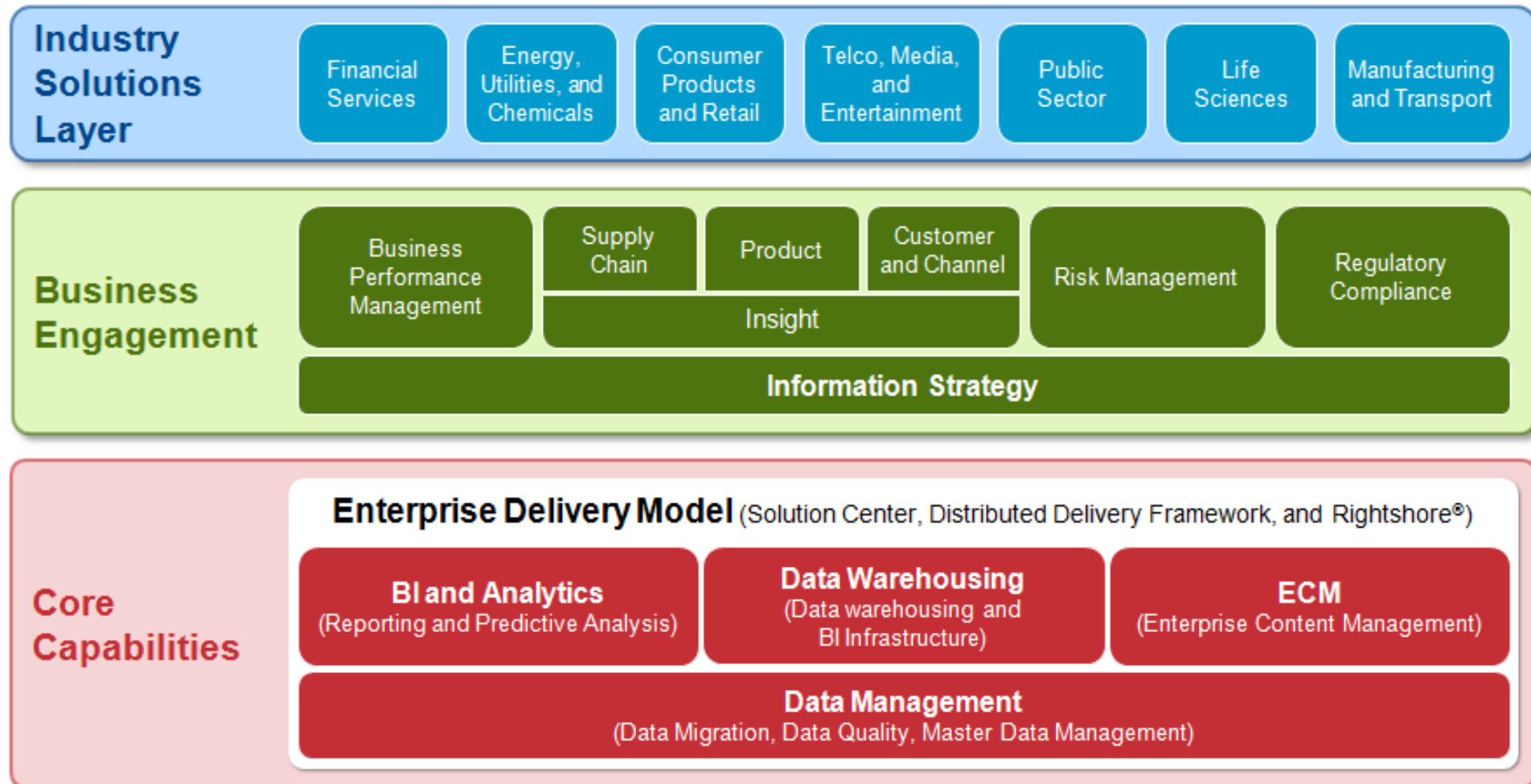
Analytics about individuals within context, location, situation, against dynamic populations

- ✓ How/When do we recommend things, as the customer is moving around?
- ✓ When a customer searches, location affects relevance
- ✓ A customer’s routine journeys, in space, bound the probable risks they are exposed to.

Powerful insights on individuals too, not just clusters

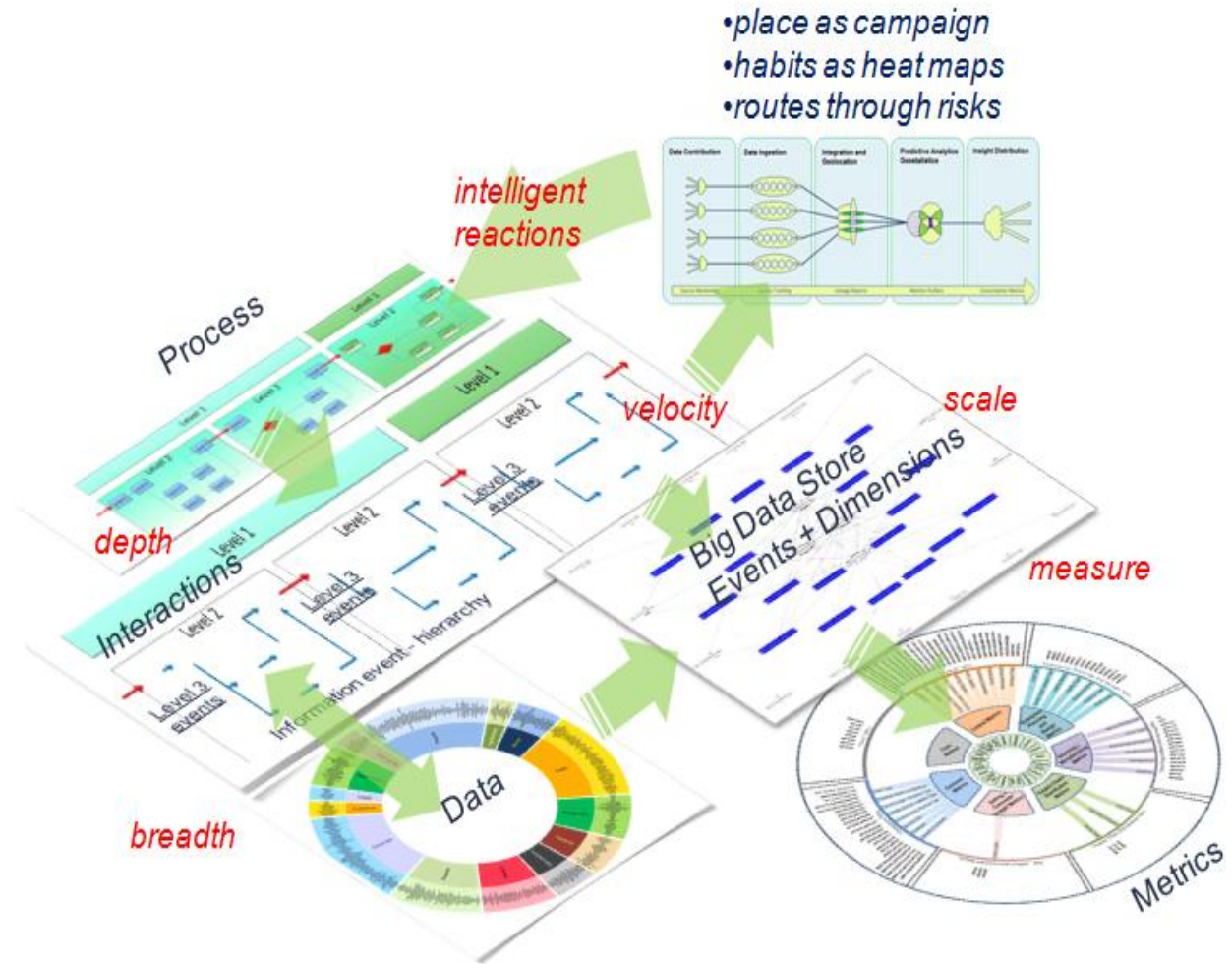


# Capgemini – Business Information Management



# Intelligent Marketing

**Marketing Strategies - using the platform with your big data helps you to improve your relevance, recommendations, and risk strategies in real-time.**



## People matter, results count.

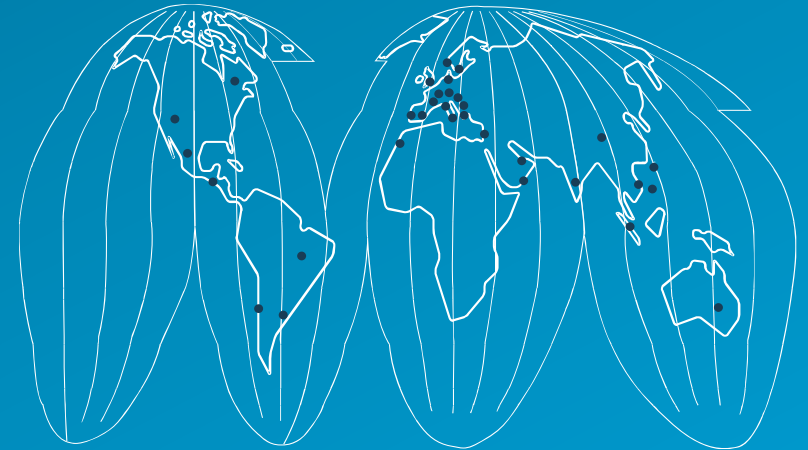


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# <TITLE>

## ➤ Level 1

- Level 2

- Level 3

- Level 4