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Agenda

Evolution of Marketing

The Rise of Advanced Analytics

Becoming Digital – Transformation along use cases

Getting there – Starting points for the journey

Marketing is at an infliction point to re-invent its operating system to compete in today's digital world

Marketing has been evolving over the past 20 years...

From traditional





Mad men



Math men



Broadcast media



Fragment channels



Static



Interactive



TV



Digital



Agencies



Platform

Furthermore, the dynamics of marketing in a digital economy have fundamentally changed

The dynamics of marketing have changed

From traditional	To digital
One-off	Always-on
Push	"On-demand"
Mass	Personalized
Paid	Owned + earned + paid
Siloed brand & performance	Customer-centric 360- deg marketing
Pre-planned	Agile, always-on, real- time
Produce	Produce, measure, optimize

There is significant value to capture for those who do it right

20%

in sales
productivity
through
personalized
targeting

25%

Reduction in attrition rates through a multivariate predictive model

160%

in **cross-selling success** after life **stage segmentation**of customers

135%

Expected increase in annual revenue through digital marketing revamp of organization

200%

in online conversions after 3 months of SEM optimization

8-10

NPS points for large bank through optimization of digital campaigns

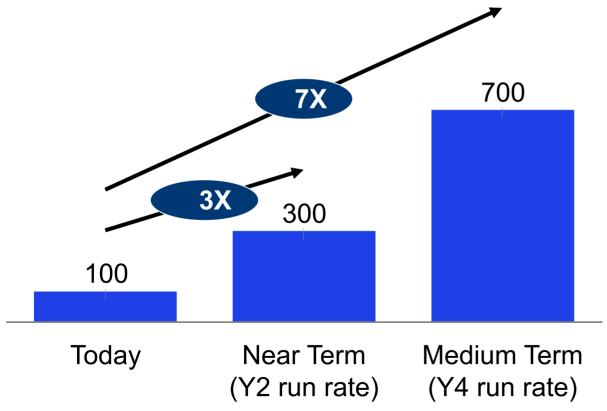
66%

cost per customer acquisition through SEM optimization

A global bank is on the path to \$700 million + incremental revenue from a digital marketing transformation

Revenue, \$ millions





85%

of value capture through five core initiatives

- 1 SEO improvements
- 2 Landing page optimization
- **3** Optimizing the buy flow conversion rate
- 4 Media spend optimization
- **5** Cross-sell

SOURCE: McKinsey McKinsey & Company 6

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Quick definitions





Big Data

A massive volume of **structured or unstructured data** that has relevance to an organization's outcomes



Advanced Analytics

The **systematic approach** of applying quantitative methods to **data** sets for **insight generation**



Machine learning

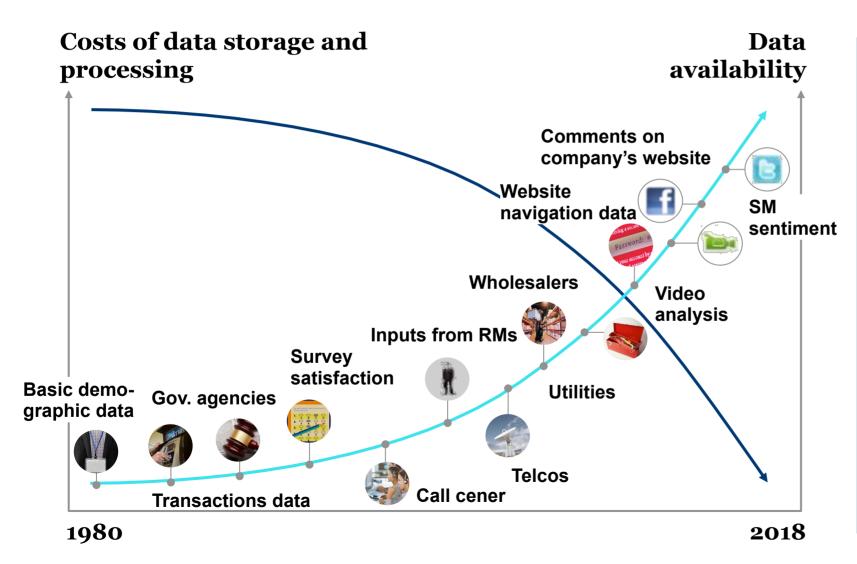
Data analysis method that allows a computer to learn without being explicitly programmed; automated analytical model building



Advanced visualization

Dynamic **iteration of data** through the **use of models** that allows users to **interact with data in a visual way**

Big Data availability has boomed in the past years while cost of storage and processing has drastically decreased NON EXHAUSTIVE EXPLANATORY

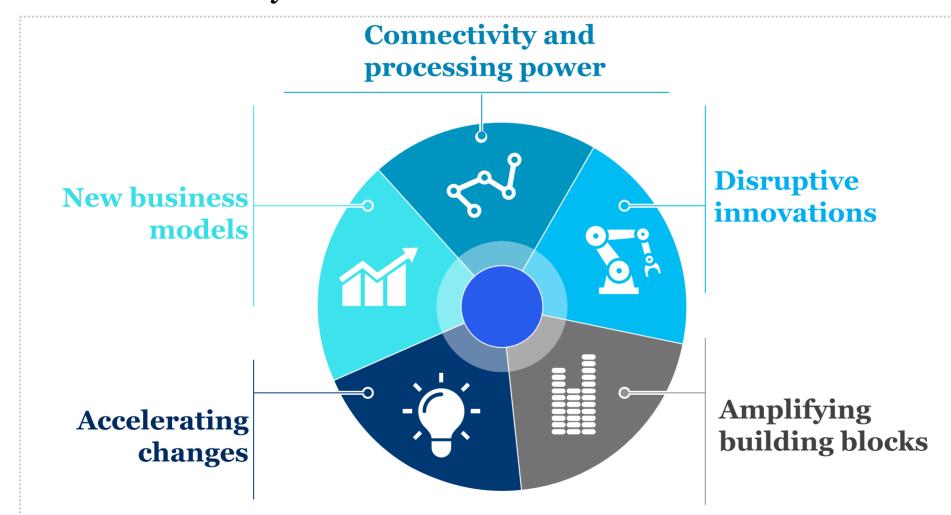


Ability to apply **Advanced Analytics** to unstructured data

Multiple technologies coming together within AA space

- Machine learning
- Visualization
- Sentiment analysis
- 3D simulation
- Artificial Intelligence

The Digital and Advanced Analytics revolution is redefining many industries in many areas of their businesses





General Electric has been known as "the digital company that is also an industrial company"



- CEO defined clear vision to entirely restructure into an analytics company
- Masses of data used to drive machine productivity and reliability
- "Hardware as a Service" the future business model
- \$1B investment in Predix Platform



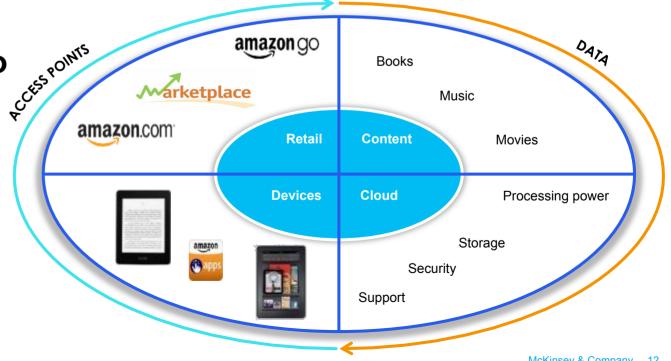
SOURCE: McKinsey McKinsey McKinsey & Company 11



Amazon is leveraging data and analytics to expand from the digital world to the physical world

- Amazon ecosystem drives virtuous circle of customer access points and data
- Analytics capabilities applied widely for pricing, personalization, space allocation, product search...

Capabilities enabled move from digital to physical – Amazon Go

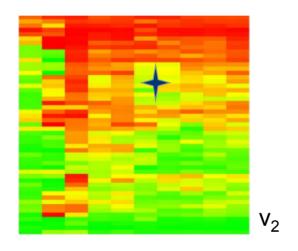


Machine Learning is at the cutting edge of advanced analytics and is providing organizations with a new way of seeing and solving problems

Self-cure

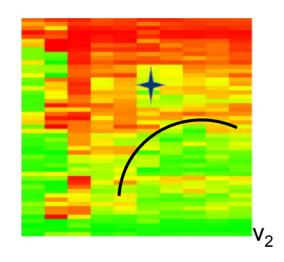
Partial payment + Our client

The actual phenomenon



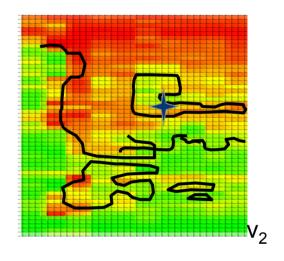
Real life phenomena exhibit complex non-linear patterns

How traditional stats sees it



Traditional stats fits predetermined "shape" into the phenomenon

How Machine Learning sees it



ML algorithms simultaneously run over data spotting & recording patterns

These algorithms «learn» with every bit of additional information as they identify new business patterns

SOURCE: McKinsey McKinsey McKinsey & Company 13

Lessons learnt from data organization set-up in multinational companies

Surprisingly **few** companies know where and how analytics can create value

The talent **challenge** is not only to find data scientists but also to groom 'translators' Data science is the easy part. Getting the **right data**, and getting the data ready for analyses, is much more difficult 33

66 Embedding analytics is as much about change management as it is about data science

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Driving impact and success from Advanced Analytics require three key elements



1. A vision

Senior leader- and sponsorship



2. Use cases

Concrete applications with quick impact



3. The foundations

Organizational and technical prerequisites





1 Build a vision for your company – examples from others





Use cases



Foundations



We're not there yet, but we envision a system where I could literally see, on my laptop, any product at any moment as it goes through the manufacturing line of any one of our plants **showing me the costs** of that product at the same time

McDonald, CEO P&G, 2013

[Insight] is used **all over** the business, not just in marketing but in the property program, **decisions** on which product ranges to stock and in understanding how different types of customers are **responding** to what we do

> Caroline Bradley, **Marketing Director**

SOURCE: McKinsey McKinsey & Company 17

2 Identify use cases – overview of potential commercial levers

Focus of today

Vision

Commercial use cases



Internal optimization



Other use cases

Data as an asset



Next Product to buy

Assortment

optimization



Workforce optimization

Supply chain



Fraud/theft detection



Use cases



Customer segmentation



Predictive Maintenance



Risk/bad debt prediction



Promotion



Demand forecasting



People Analytics



Pricing



Store location



Foundatio



Mark. mix optimization





2A End-to-end assortment optimization approach is helping a leading European grocery retailer to grow sales by 11%

Vision

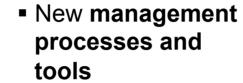


Largest retailers in Ukraine

Situation

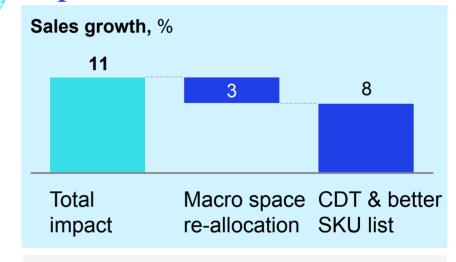
■ 5-months **E2E** grocery assortment optimization project

What they did



- Customer Decision **Tree** to have insights about consumer behaviors
- Developed **Navigator's manual**

Impact¹



- Fast implementation and impact seen in 4 weeks pilot
- 4tree CDT changes semimanual category management processes
- Innovative and user friendly solution embraced by category team
- No up-front investment





1 Based on results of 1-st wave of roll-out

A leading retailer is leveraging algorithms to power new personalized tactics to increase digital marketing conversion rate

Personalize content to build engagement...

...driven by new Big Data algorithms

Vision





Target customers with recent purchase

Timing



Trigger based vs. daily mass emails,

Use cases



Merchan-



Showcase unique, relevant SKUs based on last basket

Creative



Reference customer name and last purchase in subject line, hero image and copy

Foundations



Landing page



Send customers to department relevant landing pages

Past shopping behavior



Trigger emails

- Landing pages
- On-site placements
- Off-site targeting
- Coupons and offers

Multichannel delivery

Next Product to Buy algorithm



Specific product recommendations

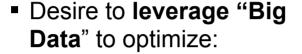
SOURCE: McKinsey

2CA consumer electronics company increased \$400m+ in annual incremental value by leveraging Big Data transformation on marketing

Vision



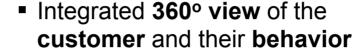
Situation



- Business growth
- Operations
- Product design
- ROI
- Lack of:
 - Integration of data
 - Analytical capability
 - Organizational structure
 - Culture



What they did



- Cross-functional hypothesis workshops
- Built 3 "insight factories"
- Capability building



Impact

Improved profitability by +25%

New operating model

New data architecture design







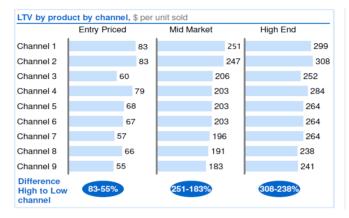
1 Based on results of 1-st wave of roll-out

The channel and promotion strategies were optimized to ensure "right product, right channel, right price"...

Vision



 Uncovered differences in customer value by product by channel...



... and used that information to optimize product range by channels



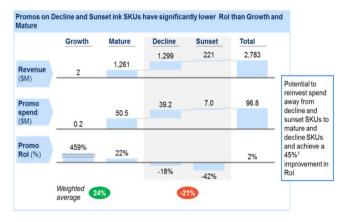
Use cases



 Re-allocated spend to different channels and tactics...



... as well as to different products based on the stage in their product lifecycle



Foundations

SOURCE: McKinsey & Company 22



20...as well as marketing resources and customer targeting strategies to generate the greatest ROI on marketing spend

Vision

Re-deployed resources to higher value geos



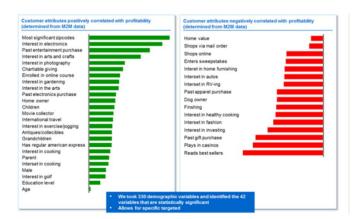
Re-deployed spend away from lower ROI tactics - ATL and coupons



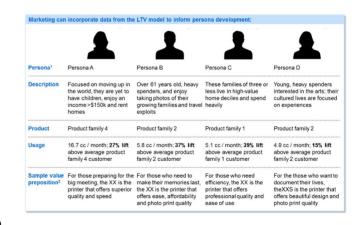
Use cases



Identified **key** attributes of their highest value customers



- and built a targeting engine to prioritize acquisition prospects
- Facilitate upsell and churn reduction





McKinsey & Company 23 SOURCE: McKinsev

2D A Brazilian telco restructured its call center S2S approach improving new sales levels more than 50%

Vision



Use cases

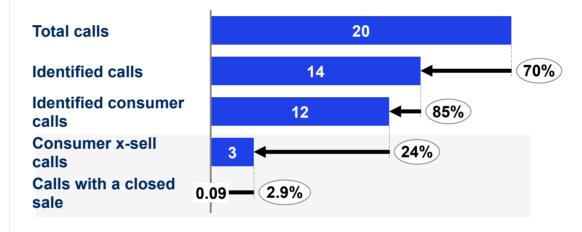
A Brazilian Telco wanted to increase S2S calls sale

Situation

the volume of closed with a

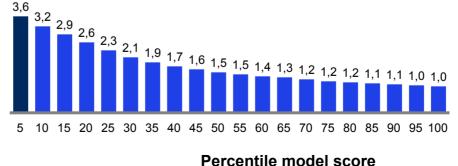
What they did





Performance of the Machine Learning model on the Test data set

Cumulative uplift vs average of S2S sale in next month (%)



Impact¹

- Production levels increased more than **50%** 4 weeks after implementation
- Hit ratios improved more than 20% for a comparable customer base

Foundations

1 Based on results of 1-st wave of roll-out

SOURCE: McKinsey

2E A Japanese retailer used advanced analytics to identify 1,000 new profitable locations based on previously unknown measures of success

Vision



Situation



Recent store openings had been disappointing

Use cases



Foundations



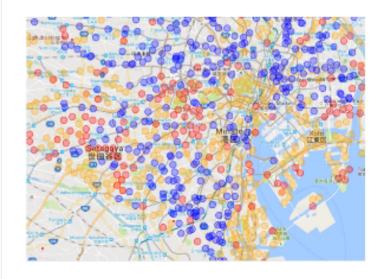


What they did

- Used **Al platform** to create a model to extract key performance drivers
- Leveraged:
 - Internal data sources: transaction log data, labor,...
 - **External sources**: weather, news, maps, retail stores in the area, demographics,...
- Tested thousands of:
 - Potential drivers of value
 - Identified drivers of store performance

Impact

■ 1.000 new store locations identified that would be profitable with the current format



McKinsey & Company 25 SOURCE: McKinsey

Detailed on following pages

Vision

Technical and people **foundations**



Culture and mindset

New operating model



Big Data IT



Analytics



Process and governance





Data

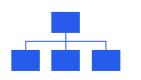


Performance management





Employees



Organization

McKinsey & Company 26 SOURCE: McKinsey Analytics

3A Use cases are implemented in "factory" settings: intense collaboration on pilots with operational staff, outside "normal" office...





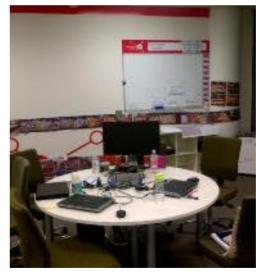


Use cases

A 'think-outside-the-box' environment in a dedicated project space



- A dedicated team on the client side
- Navigators to facilitate
- Analysts to prepare Big Data inputs
- Work on pilot use-case (e.g. assortment optimization) category by category: turning insights from BigData into actions



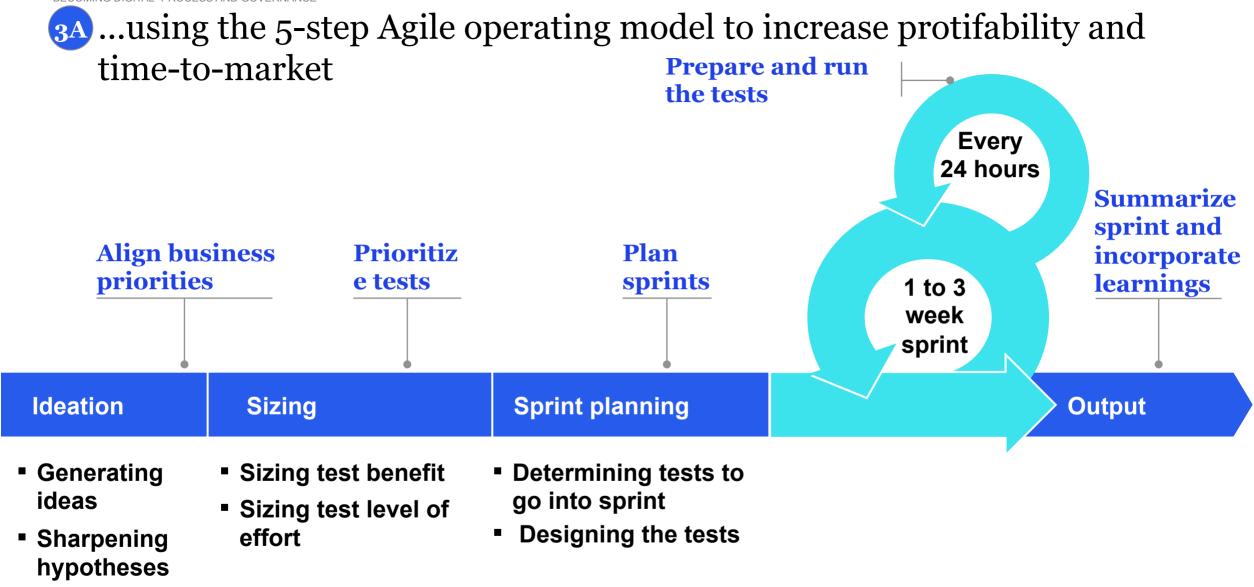
Each category in the **Category Accelerator is** assigned a pod



Visual management and tracking

Foundations

SOURCE: McKinsey



SOURCE: McKinsey McKinsey & Company 28



Applying MVP and test and learn process allowed a client to dramatically reduce TTM and effectiveness on email marketing campaigns

CLIENT EXAMPLE

From 1 email to thousands of targeted versions....



Customer lifecycle offer versions

100^X

Product category merchandise versions

10^{X}

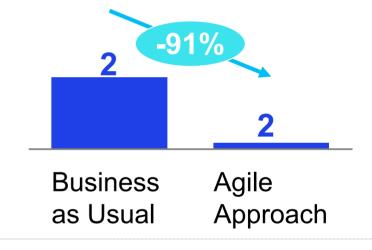
Customer segment messaging versions

40^X

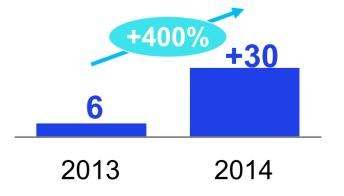
Geographic clusters trending versions

...with accelerated cycle times & test cadence

Marketing cycle times E2E weeks required



Monthly test cadence Tests per month



SOURCE: McKinsey McKinsey & Company 29

In order to ensure effectiveness in performance management it is necessary to establish KPIs to the end-to-end funnel



Short term

- Total leads
- Leads from priority segments

- Total number of steps (forms, clicks, etc.)
- Average time required for completion of journey
- Closing ratio (%)
- Total Sales

Medium term

- Position in search engines
- Social sentiment

- Contact center follow up on online needs
- Digital marketing return on investment
- Cost per sale

Source: McKinsey & Company 30

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Getting there – Starting points for the journey

You can start by implementing a high-impact use-case while laying the foundations for an Advanced Analytics transformation...

- Identify a **core business problem** that could have a **clear bottom line impact**
- Develop the **use case** and business plan designing **data requirements** and sources
- In parallel, articulate Advanced Analytics **vision** and strategy and...

... set-up the **right organizational structure** and **grow/acquire** required talent to deliver scaled-up impact

SOURCE: McKinsey McKinsey McKinsey & Company 32

... which could be operationalized in a 3 phase transformation Initial IDEAS/DISCUSSION STARTER

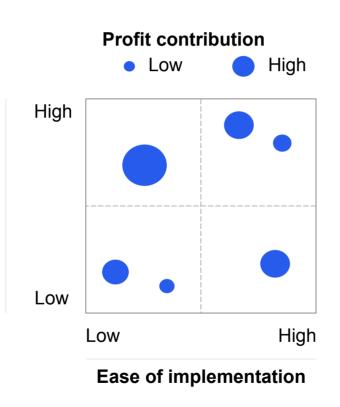
1. Use-case prioritization and pilot

ROI

- List possible Big Data/ **Advanced Analytics use** cases
- Prioritize along ROI/profit and ease of implementation

2. Use-case rocket

Pick one (or some) specific use cases and implement in pilot setting



3. Full scale transformation

- 18-24 months full analytic and commercial transformation
- Including 1 or 2 use cases from:
 - Assortment optimization
 - Promotion optimization
 - Price optimization
 - Vendor negotiations
- Possibility to include a workstream to **build / improve** foundations:
 - IT infrastructure
 - Organizational model

SOURCE: McKinsey McKinsey & Company 33

