



New Forms for Business Intelligence

A concrete approach to the use of data to improve and quicken business decisions

Objective of the Course



- To give a picture about the usage of data and analytics in the modern Business through real examples.
- Data environment set-up
- Multivariate statistical techniques
- Practical sessions using specific software applications focusing on:
 - Demand Segmentation
 - Scoring Models

Agenda of the Course



- Module 1: Introduction to the Course
 - CRM Analytics evolution
 - Some practices on CRM Analytics
- Module 2: Data environment set-up
- Module 3: Demand Segmentation
- Module 4: Scoring Models

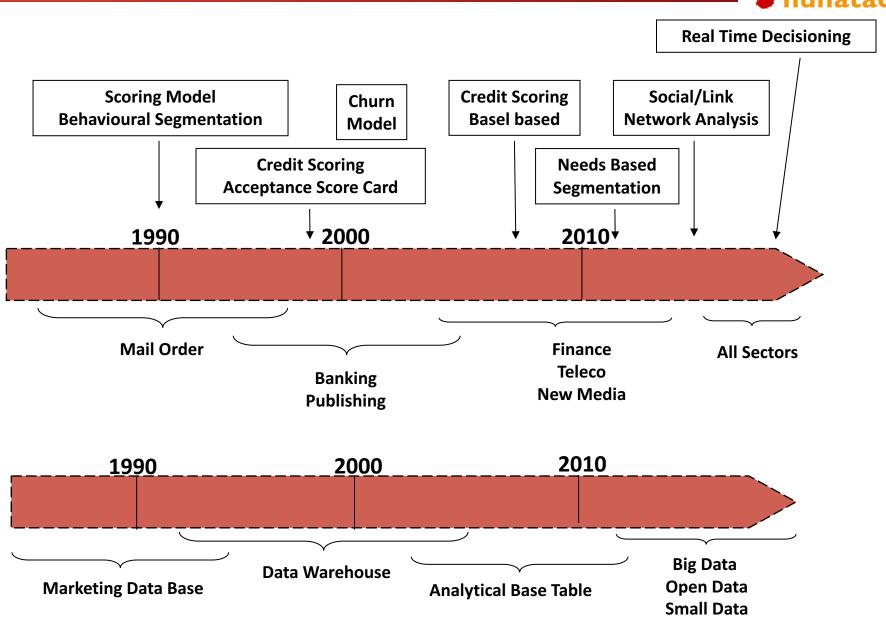
Agenda



- Module 1: Introduction to the Course
 - CRM Analytics evolution
 - Some practices on CRM Analytics

Data & Profiling





Agenda

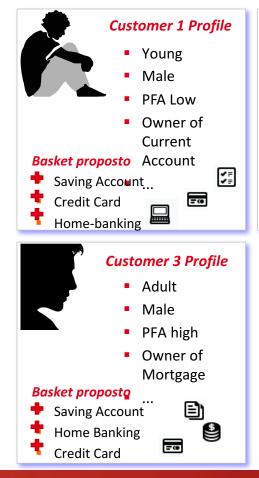


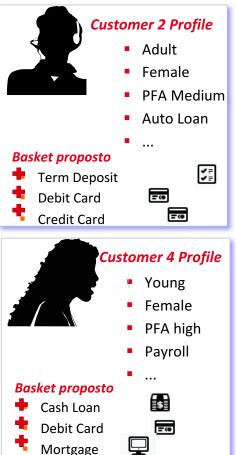
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- Head of CRM
- Increase Cross-Selling Index
- Next Best Product/Offer trough Market Basket Analysis







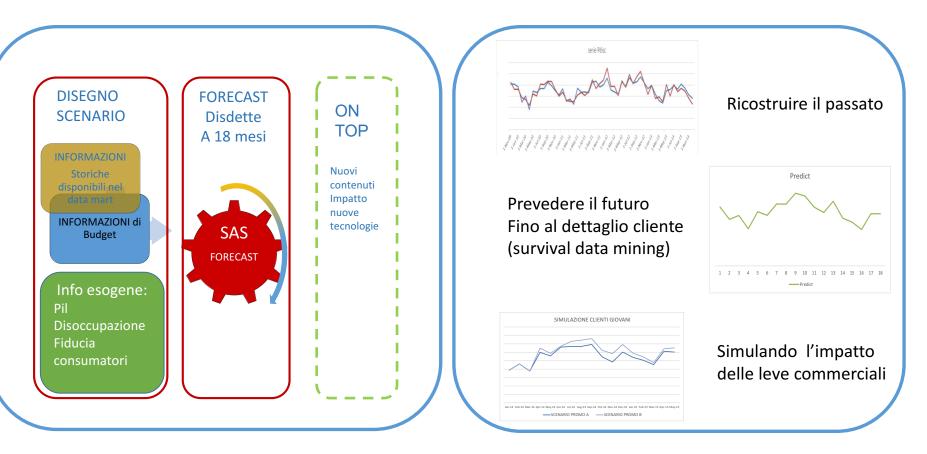


- 1.000k Active Customers
- 8 Socio-Demo and Economic KPIs of Segmentation
- 20 Products
- 16.200k of theoretical combinations reduced to 32k effective NBP baskets
 - Basket products order is based on real baskets owned by customers having similar profiles
 - Basket products are ordered according to the likelihood to be subscribed
 - Through products ranking it's possible to find out the NBP for each customer
- 15% of Customers with 1 product in the basket, 16% with 2, 17% with 3, 40% with more than 3
- NBP Basket used on managing in-bound contacts
- Channels: Call Center, Branch
- Start: October 2013 Delivery on production February 2014
- Analytical team: 2 people

Broadcasting



- Head of Customer Management
- Churn reduction
- Churn Forecasting trough Survival Data Mining



Broadcasting

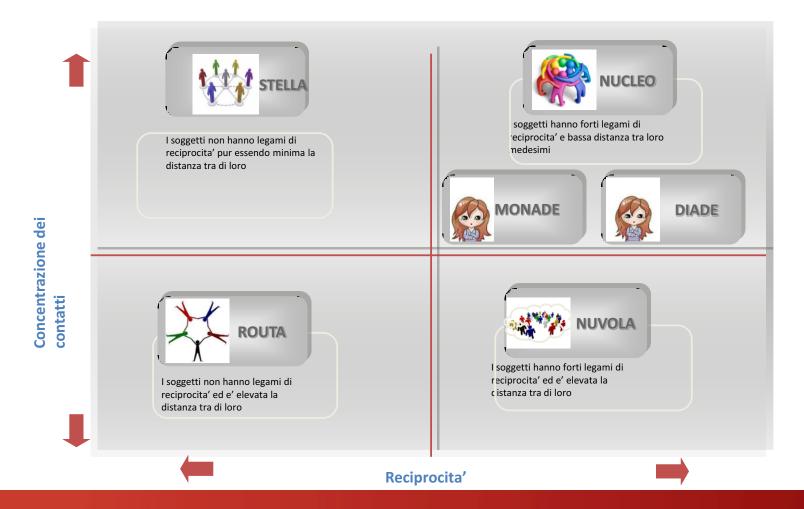


- 4.500k Active Customers Individuals
- Tactical campaigns to manage potential churners short term view
- Strategy plan to manage CB attrition medium term view
- Changing churn prediction from 'next month' to 'which month'
- Time line is the dimension used to integrate internal data with external data: seasonality, events, competitors' actions
- Changing technical modelling approach form 'traditional' to' Survival Data Mining '
- Churn prediction at individual level for next 12 months, monthly based
- Churn prediction at aggregated level for next 18 months, by CB segments
- Start: January 2015 Delivery on production: April 2015
- Analytical team: 2 people

Telco



- Head of Customer Base Consumers Individuals
- Viral Marketing campaigns roll-out
- Phone Call Communities based on Link Network Analysis



Telco

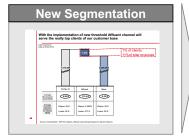


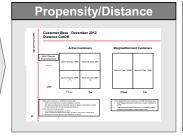
- 22mlm Active Customers Individuals
- Incoming and Outcoming phone calls
- Period of measurement: three months
- Data Matrix: (1.550mln x 4)
- Roughly 4mln of communities split into 6 different types
- Identification of the different roles inside the community
 - Trendsetter
 - Bridge
- Communities used to 'family insight' other project
- Start: November 2015 Delivery on production April 2016
- Team: 1 Senior Statistician, 2 Senior IT Analysts

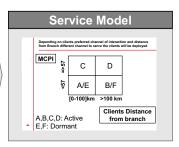


- Head of Retail
- New Private Individual Service Model
- Segmentation based on Distance and MCPI algorithm









Customer Clusters by Distribution Model	Channels	Branch	Account Officer	Service Officer
A & E < 12 months (no DSA)	Physical Branch Based	✓	Branch Manager	Mass Physical Branch RM
B,C,D & F < 12 months (no DSA)	Virtual Branch Based	✓	Branch Manager	Mass Remote RM
A,C & E < 12 months (managed by DSA)	DSA Branch Based	✓	Branch Manager	Mass Branch DSA
B,D & F < 12 months (managed by DSA)	Virtual Branch Based	✓	Branch Manager	Mass Remote DSA
(E & F) > 12 months	Central Management Based	\checkmark	Branch Manager	Head Quarter
OVERALL				



- 1.400k Customers Individuals
- More than 100 physical branches
- Remote virtual branch, DSA network, Central Branch
- Segmentation based on:
 - Physical distances
 - Multichannel propensity: products, transactions, channels
- 6 Segments
- Less than 100 physical branches
- Optimal allocation algorithm to create customers portfolio per branch
- Start: February 2014 Delivery on production May 2014
- Team: 2 Statisticians, 1 IT Analyst