

CONCERT FOR SUCCESS

NCR SOLUTION AGAINST CYBERCRIME

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Salone dei Pagamenti – 24th November 2017

The world economy is changing

Today's global economy...

Is more interconnected

Than it has ever been before



Innovation and convenience leads to...

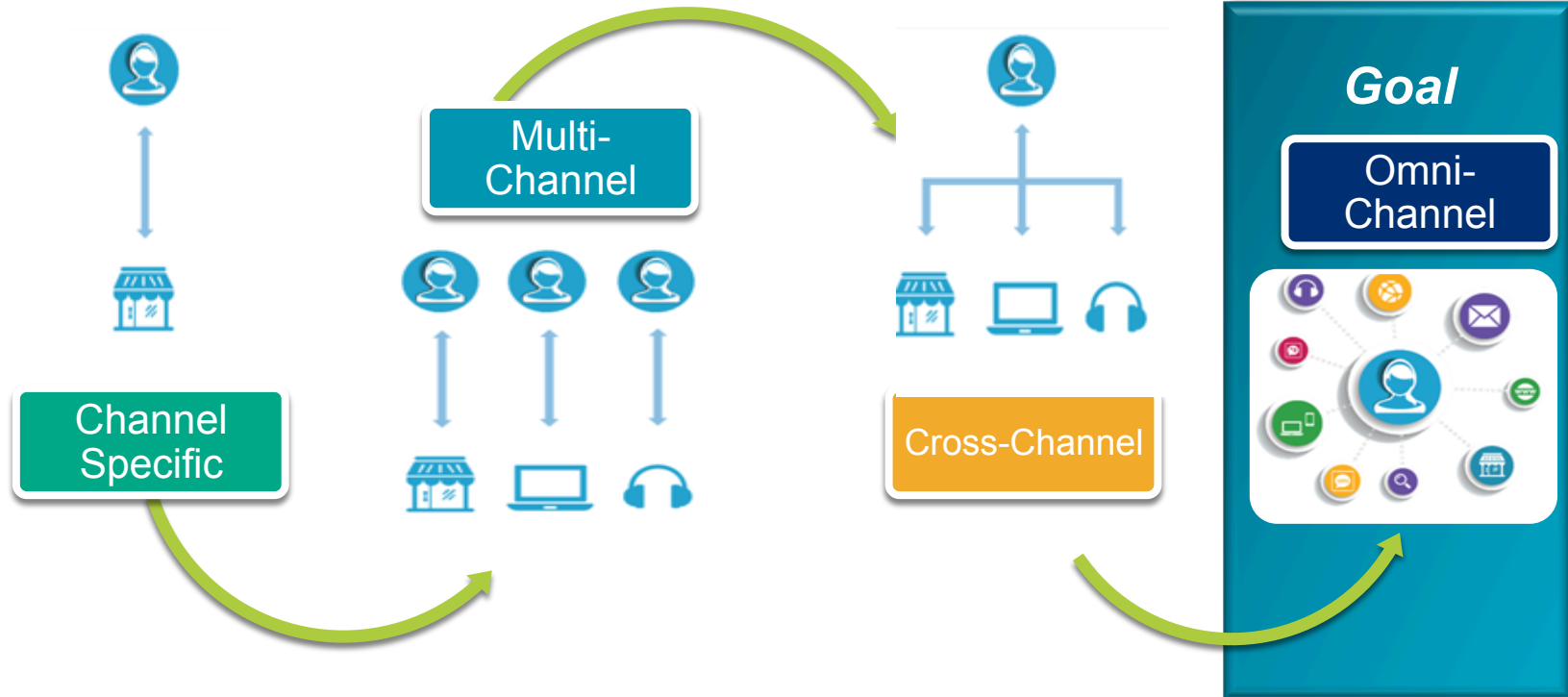
**SECURITY
CHALLENGES
INFILTRATING**

**FRAUDSTERS
NOT BEING
FAR BEHIND**



Evolve to true enterprise monitoring

Yesterday, Today, Goal



Adaptive Strategies

ANALYTICS ENGINE

- Bayesian driven machine learning;
- Analyzes thousands of parameters in milliseconds;
- Dynamic strategies adjustment.

**STATISTICS
FOCUSED**

PROFILE ENGINE

- User defined profiles and aggregates;
- Updated real-time, always accurate;
- Mix and match to create any scenario.

**BEHAVIOR
FOCUSED**

RULES ENGINE

- Graphical, point-and-click
- React swiftly to new threats;
- Use any data element in the system.

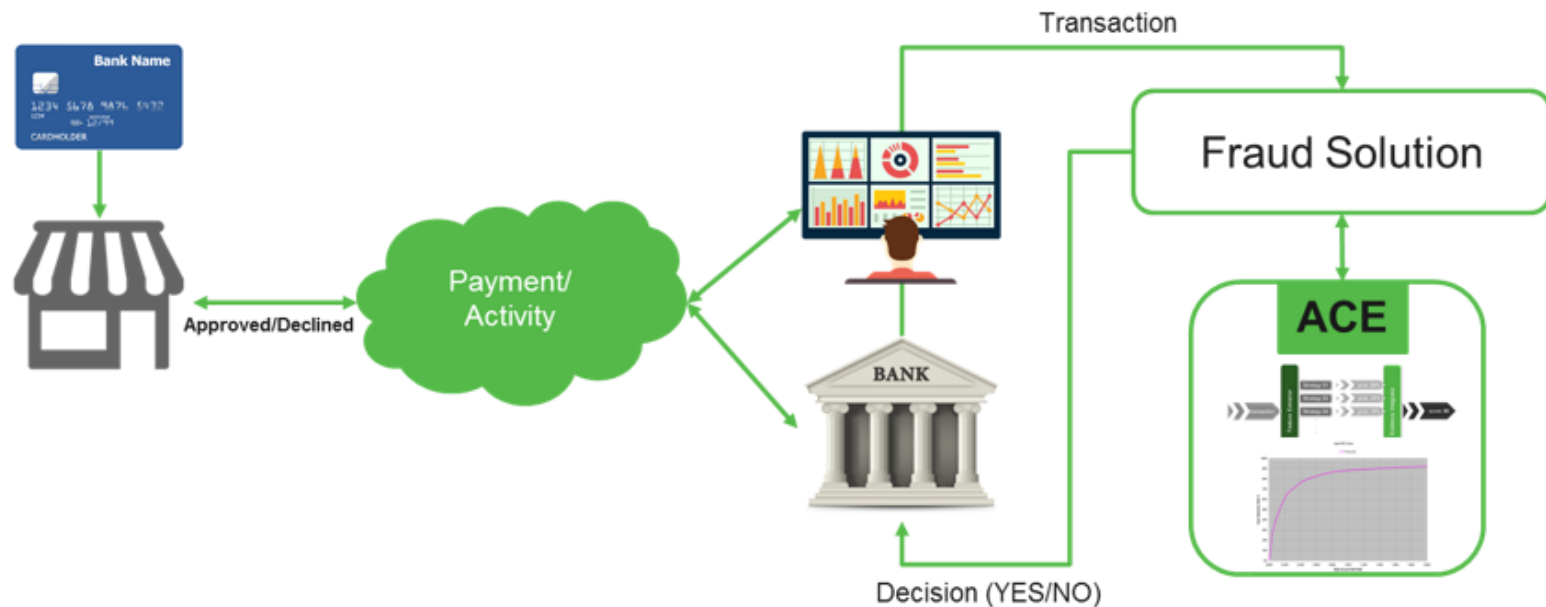
**SCENARIO
FOCUSED**

ADAPTIVE CLASSIFICATION ENGINE

Use Together

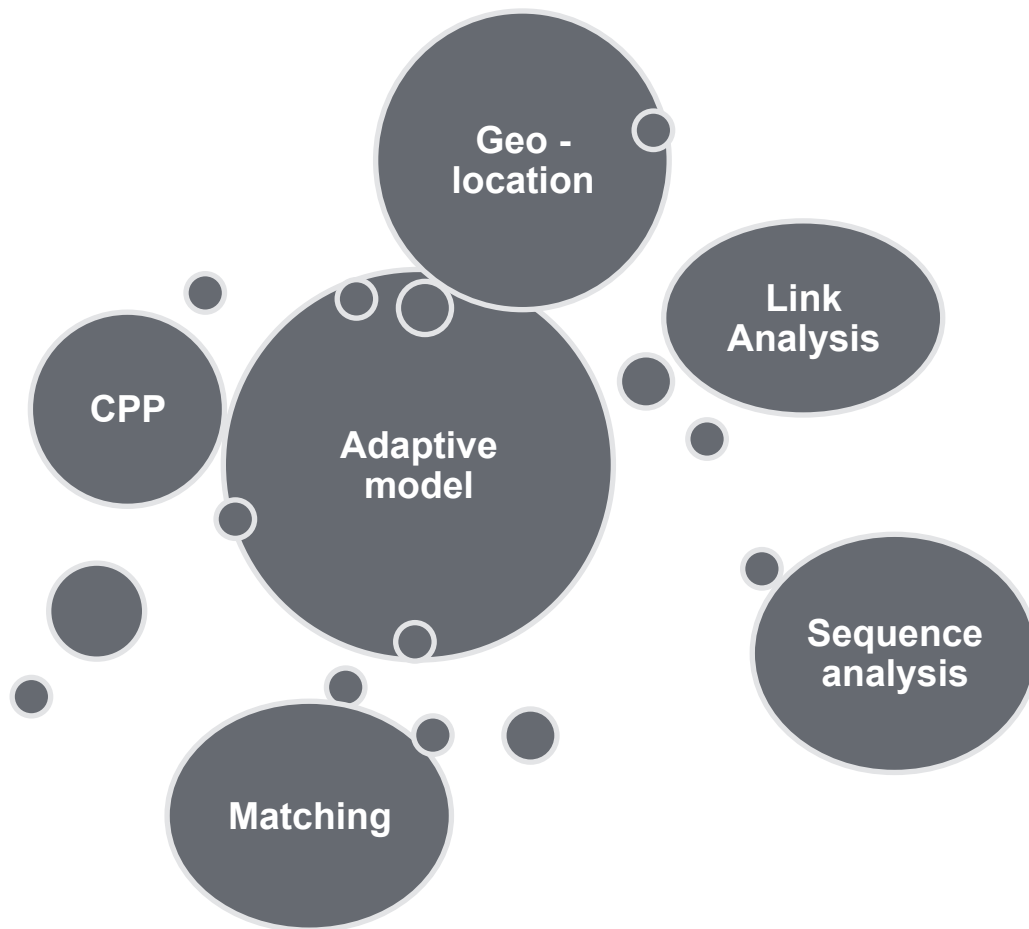
Fraud prevention AI engine

Fraud and Loss Prevention Solutions

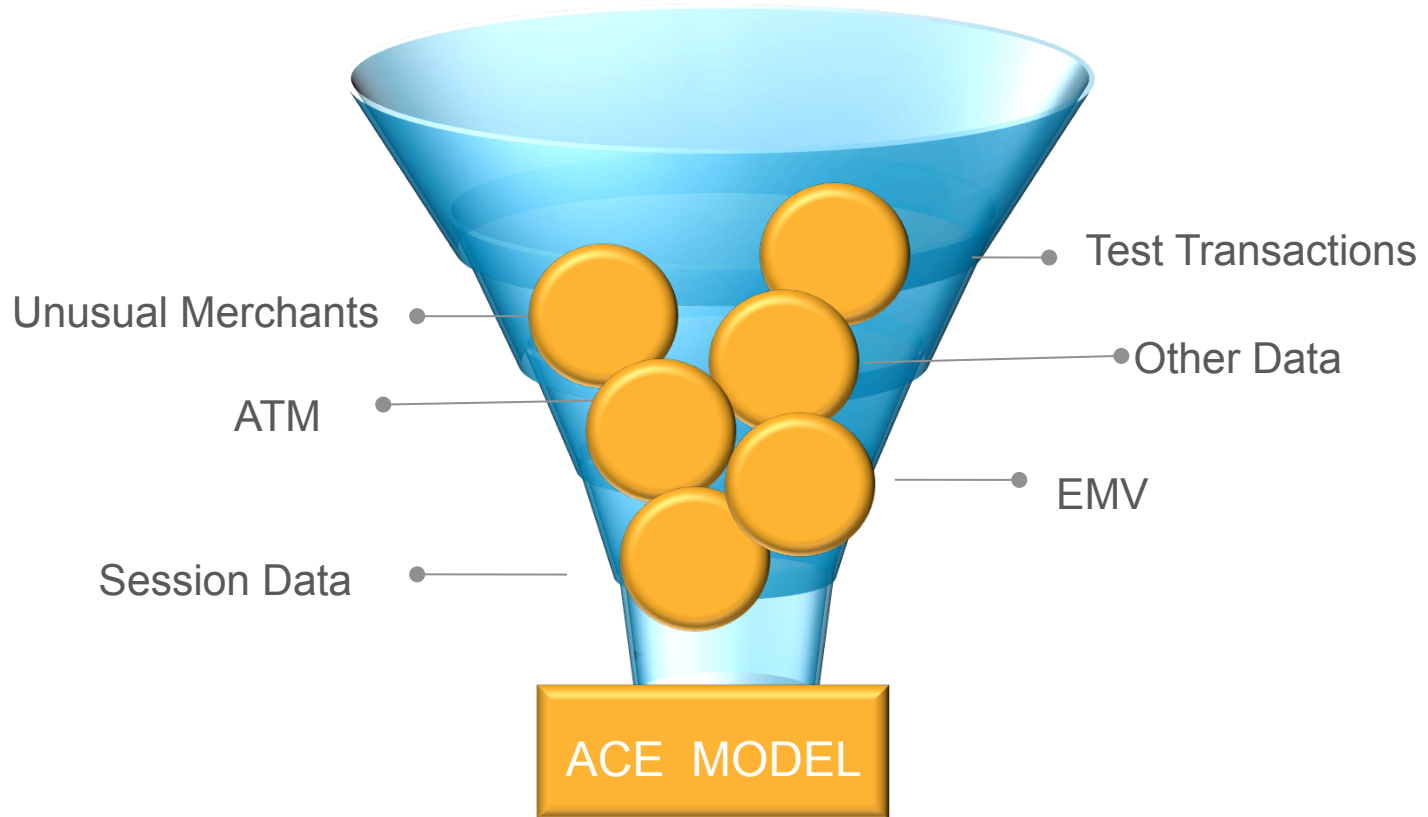


Adaptive + Information + Feedback

- Increasing detection performance will be a combination of:
 - Research on adaptive strategies
 - Integration with external data sources
 - Feedback

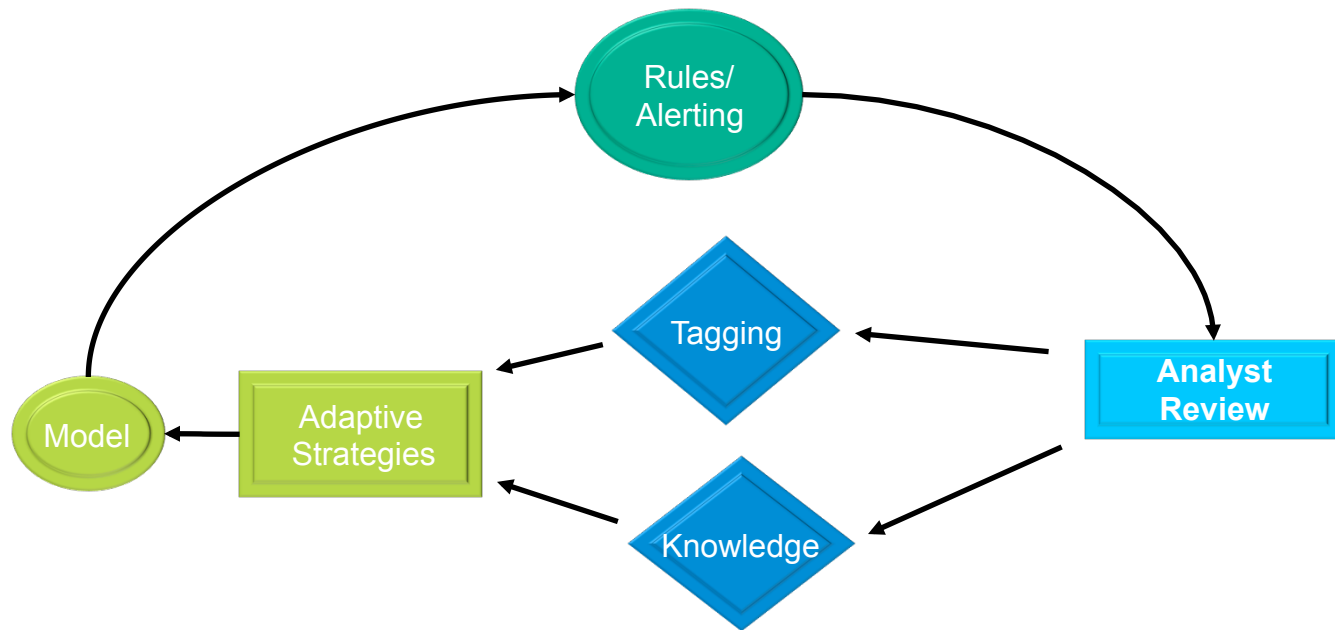


Models within the ACE Model



Real-time feedback

ACE Model



ACE strategies



Self learning Strategy example

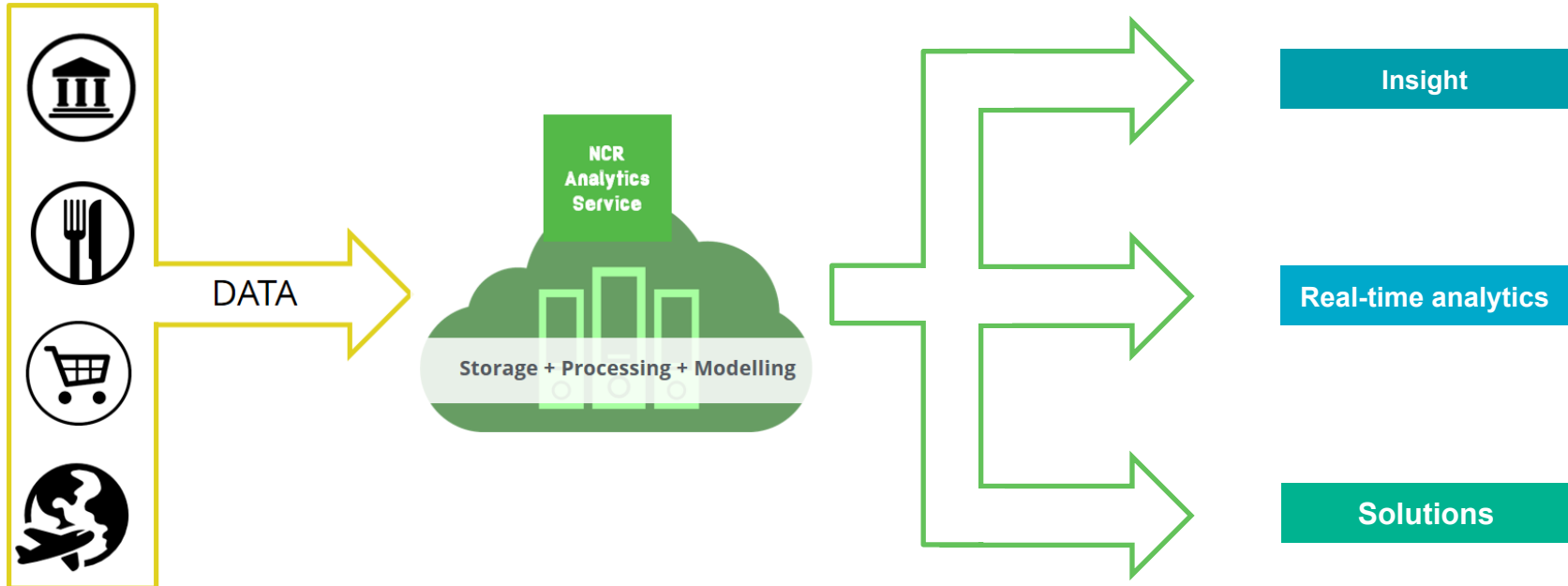
- These self learning strategies started off with excellent performance
- They consistently improved over the next quarter
- ...and maintained their performance for the next 18 months!
- Numbers like this would take many hours of daily analytics to achieve through rule writing

Month	1	2	3	4	5	...18
Detection Rate	69%	76%	75%	81%	87%	84%
False Positive Ratio	8	7	8	6	7	7
Cases Alerted On 1st Fraud	52%	55%	58%	64%	74%	73%

Analytics Managed Services

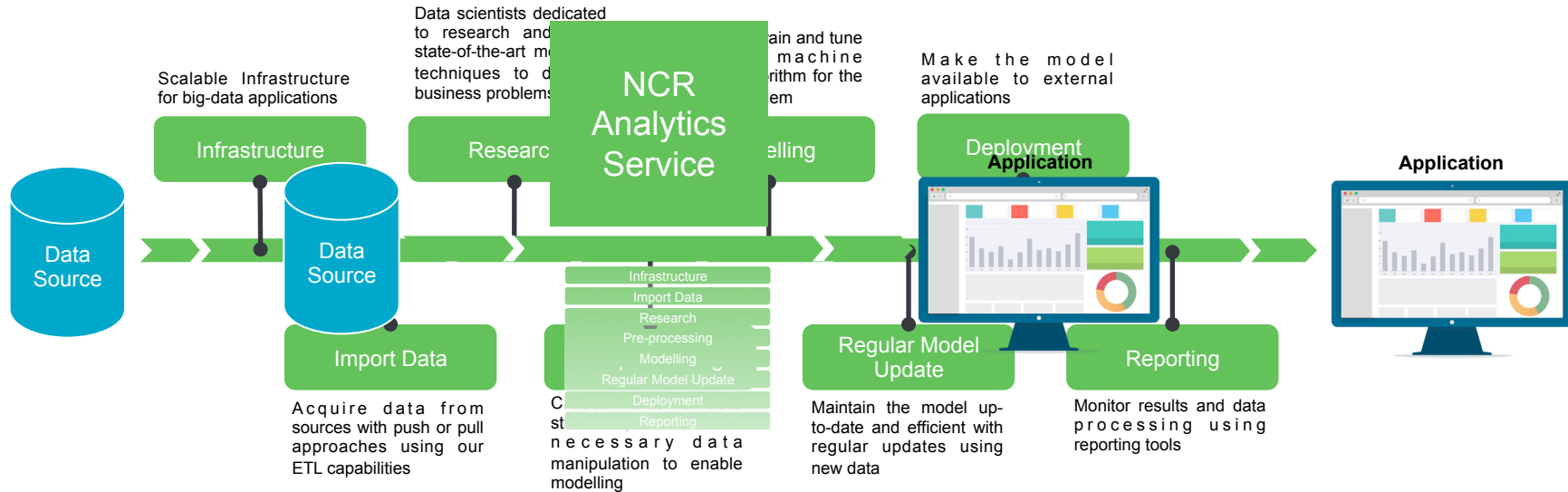
Advanced Analytics Service

- Leverages NCR unique industry data collection capabilities and expertise
- Empowers customers with machine learning
- Allows easy integration of advanced Artificial Intelligence (AI) models



Deploying Analytics Engine

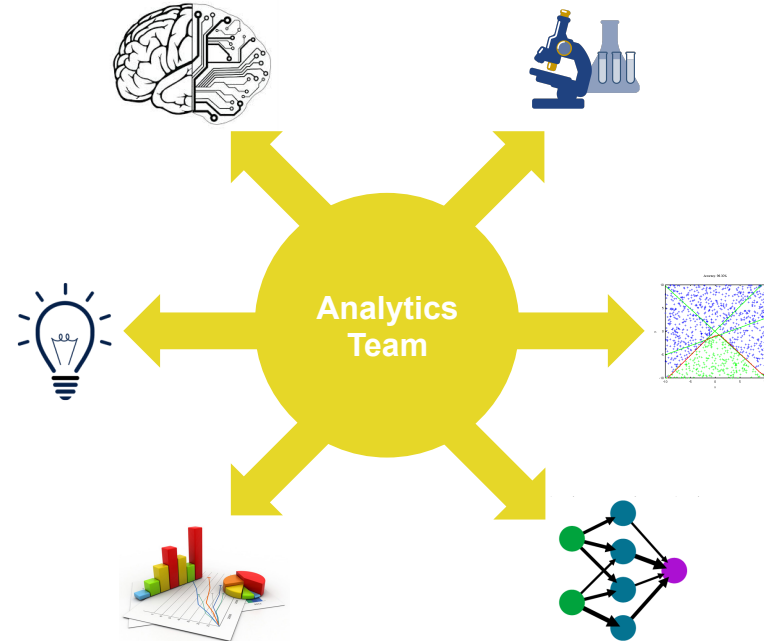
NCR Analytics Service



The team

Analytics and Consultancy

- International Data Scientists Group with expertise in:
 - Artificial Intelligence
 - Machine Learning
 - NLP/Text Mining
 - Predictive analytics
- Activities:
 - Implement customer models
 - Developing/Integrating internal solutions
 - Data strategy
 - Customer support and consultancy



Advanced Analytics + Rules

A grayscale image of a musical score with various notes and staves. A bright green rectangular box is overlaid on the left side of the image, containing white text.

**USE IN CONCERT
FOR SUCCESS!**

THANK YOU

