

Outtection

...

Outliers out!

The team



Michaël Karpe

CEO



Melvin Casanave

CTO



Mohamed Bouazza

Head of R&D



Hervé Andres

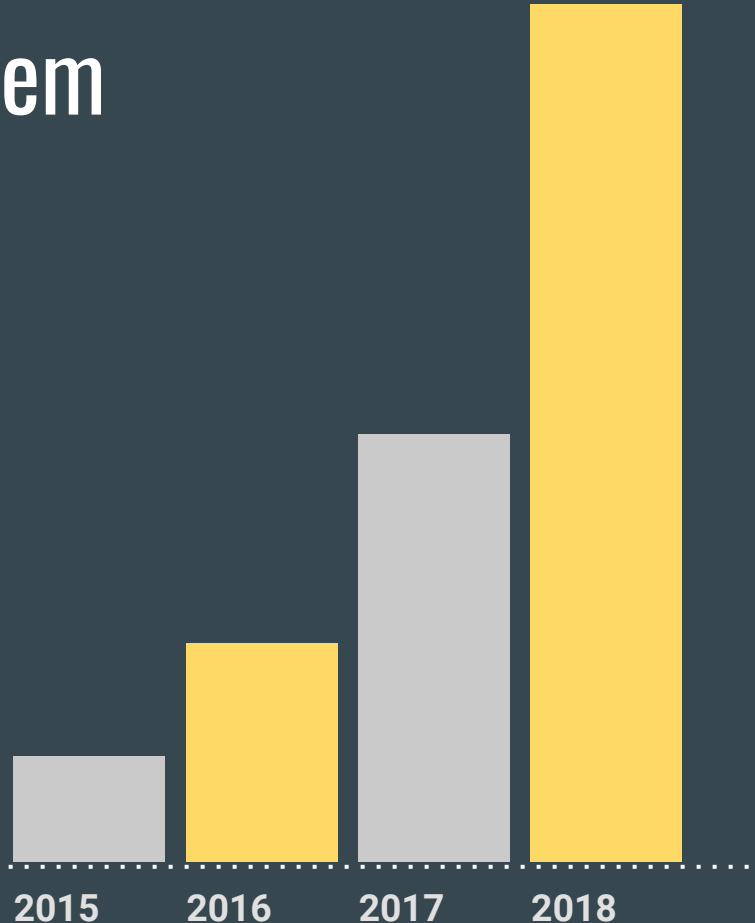
Head of Finance

The problem

Global digitalization of
banking operations

implies

Increasing risk of fraud





Mission statement:

**How to efficiently detect fraud in
banking operations?**

A close-up photograph of a person's hand holding a purple marker, drawing on a whiteboard. The background is blurred, showing some bokeh lights. The text 'The solution' is overlaid in white on the left side of the image.

The solution

Latest Machine Learning algorithms:

- Robust Estimator of Covariance (1999)
- Local Outlier Factor (2000)
- One-class SVM (2001)
- Isolation Forest (2008)
- Autoencoder (2012)

Business model

High profit due to high amount of
true positive detected
Low cost due to few errors in our
algorithms

Total amount of fraud in 2016 in
France: €800M
Average amount of fraud: €160

		P R E D I C T E D	
		"P"	"N"
A C T U A L	P	TRUE POSITIVE Outlier detected as outlier Profit: €160	FALSE NEGATIVE Outlier detected as inlier Cost: €160
	N	FALSE POSITIVE Inlier detected as outlier Cost: €1	TRUE NEGATIVE Inlier detected as inlier Profit: €0

Sales

Startup launch

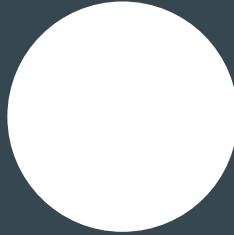
Promising results:
already around 60%
fraud detected (€16M
for 10% market share)

Research & Development

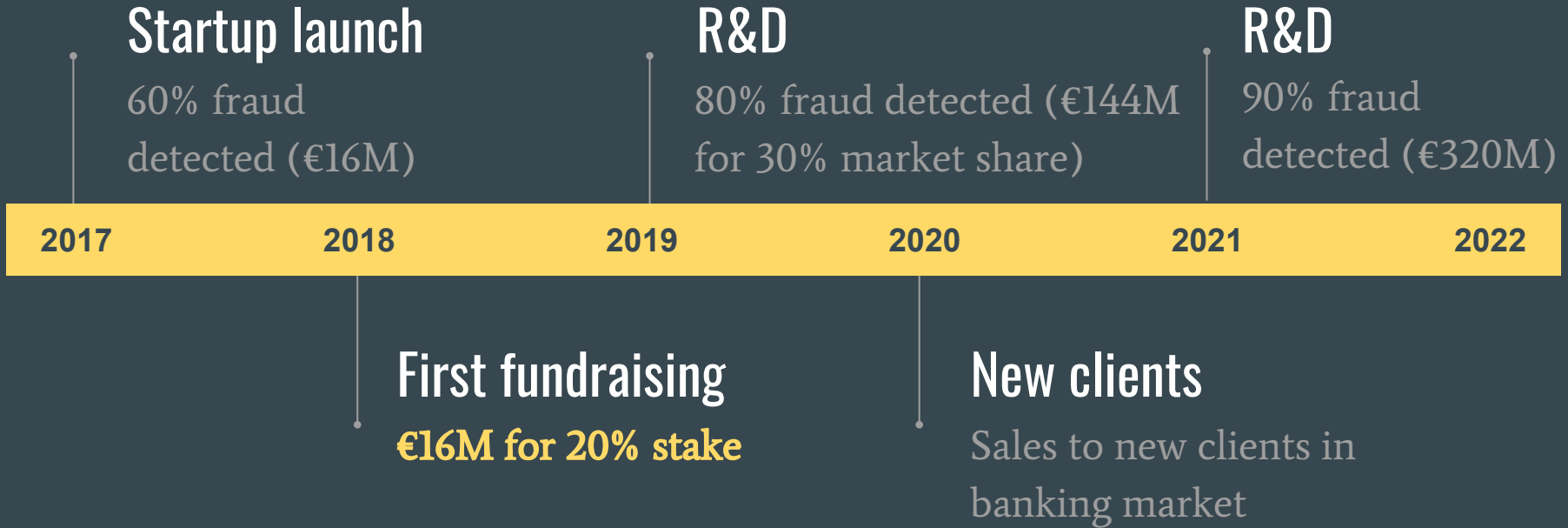
Improving fraud detection
of our algorithms:
€16M for 20% stake

High performance

Almost all fraud
detected: Profit
around €800M



Projections



An aerial photograph of New York City at dusk. The Empire State Building is prominent in the center, with its top lit in red and green. The city is densely packed with skyscrapers, many of which have their lights on. The sky is a mix of dark blue and orange from the setting sun. The word "Questions?" is written in a large, white, sans-serif font across the middle of the image.

Questions?