### Data + Technology

Great UX + Accurate risk

Michal Kročil May 2019 **Purpose**of Twisto

To **challenge** the status quo of everyday finance via exceptional **customer experience**by being at the forefront in delivering cutting edge **technology**.



# 01 Understanding the environment

Fraudulent / Irresponsible / Distressed Implications

**02**Mitigation of threats

Data sources and processing Modelling / Technology Non-scoring tools

# 01 Understanding the environment

## Everything moves fast.

### Borders are blurred.

# Reasons for customer ending in default



of defaulters know from the very beginning, they are not going to play by the rules

**Fraud** 



of defaulters do not take the responsibilities and consequence seriously

Irresponsible



of defaulters have the intention to repay back but do not have the means or attention to do so

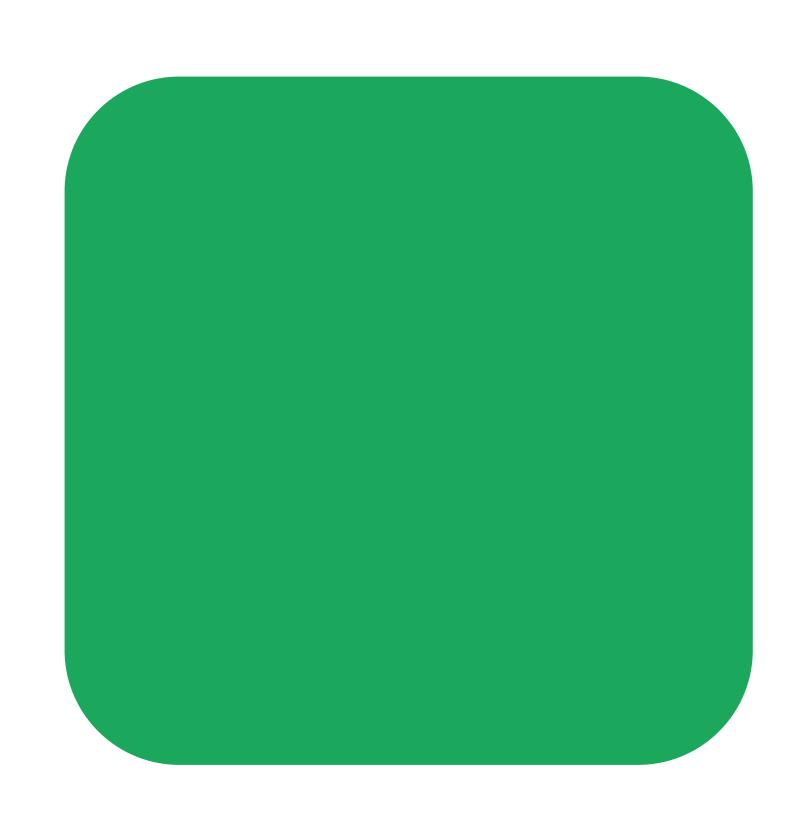
**Distressed** 

#### Fraudsters

- actively trying to find any weak spots
- different level of sophistication
- different level of "investment"

The critical thing is to **identify** them and **prevent** them from completing the transaction. Once it is completed, very thin chances of recovering any money.

#### Mistakes must not be repeated!



### Irresponsible

- trying to "get away with it"
- younger and lower education
- not necessarily evil people
- pressure / opportunity / rationalization

They might prove to be **profitable** customers at the end but they need to be well navigated.

Do not try to change them! Understand them and work with how they are.

#### Psychology!



#### Distressed

- Out of money
- Complicated life situations
- Disoriented / ashamed

You should be **friendly** and make an effort to win them back. They might become great success stories.

Fraudsters and Irresponsible might **pretend** to look like Distressed. Hard to distinguish.

#### Prevention and care!

Prevention / early recognition

Behavioral scoring

Notifications scaling

Ease of 1st step

Customer support

Recovery options

## 02 Mitigation of threats



VS.

## Risk

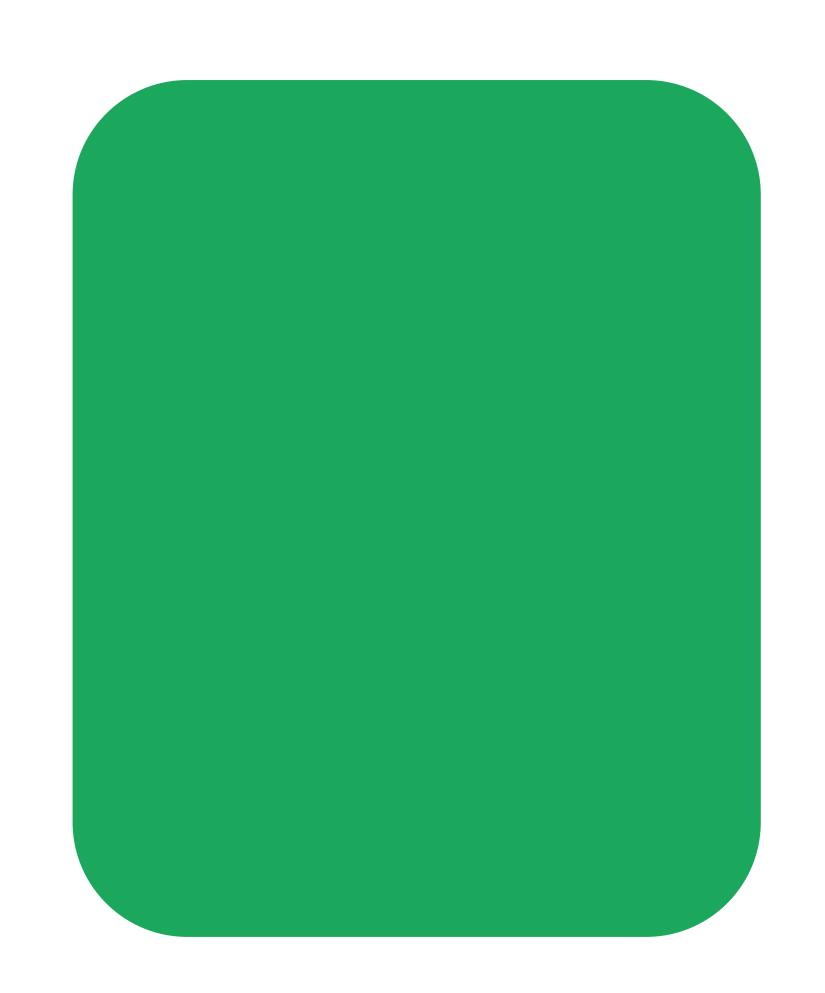
Complexity needs to stay.

But customer needs to be shielded from it by technology.

#### Data

- As few directly from customer as possible
- As many from other sources as possible
- Regularly reconsider data sources
- Pre-processing
- Check consistency
- Junk in = junk out
- Paid sources / Margin

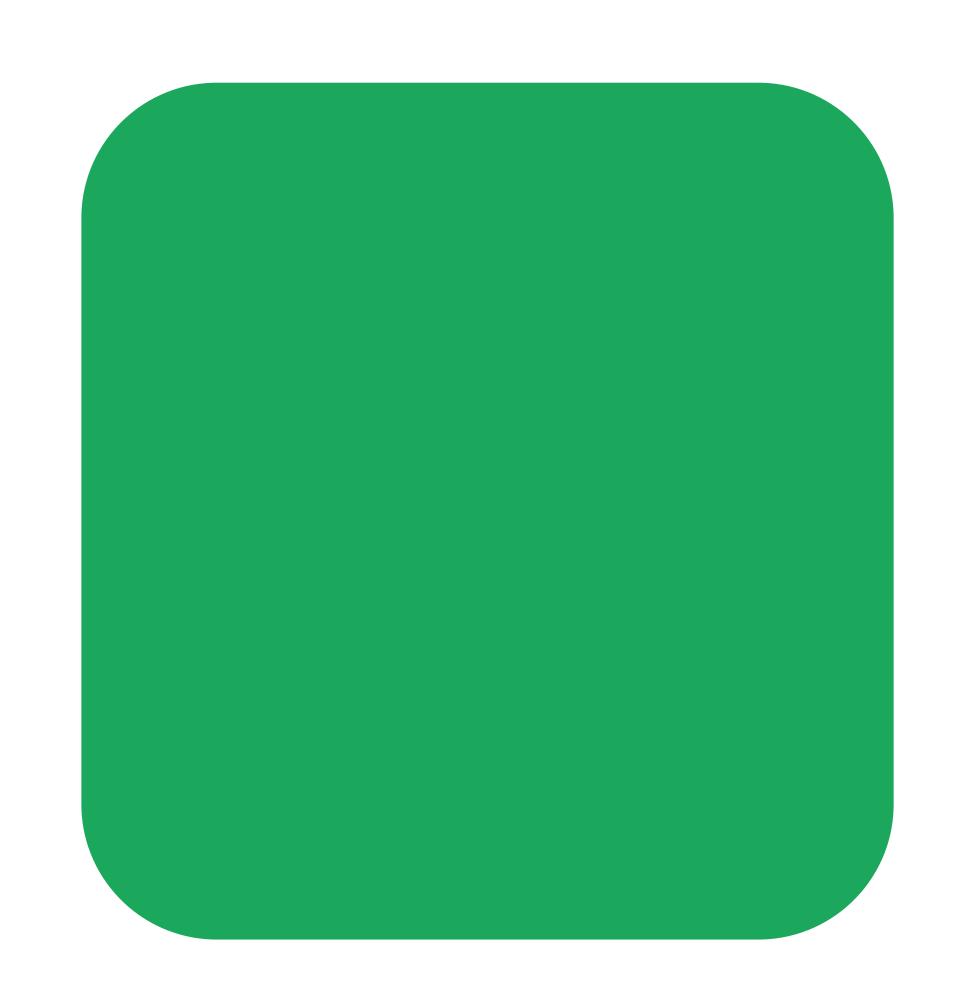
Perfect data **collection**, **understanding** and making them **work** for you is obviously one of the most critical aspects of any highly automated online operations.



### Modelling

- Scoring and CLTV
- History -> Prediction
- Credit risk vs. Fraud risk
- Application / Behavioral

**Cool** and important, but plays its role efficiently only as long as it is situated in an **environment** that provides support in case of inaccurate assessment (= fall back plan).



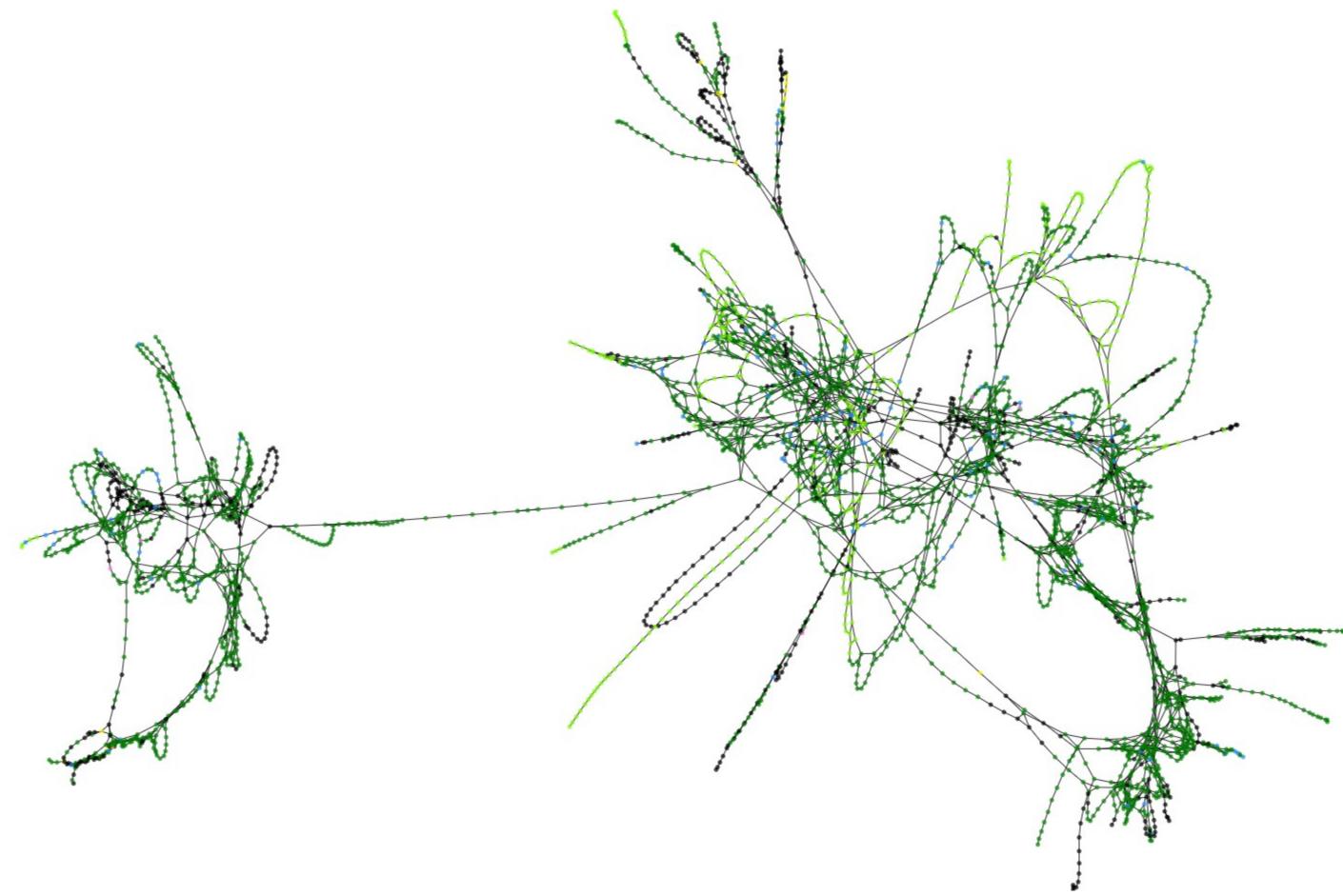
### Non scoring tools

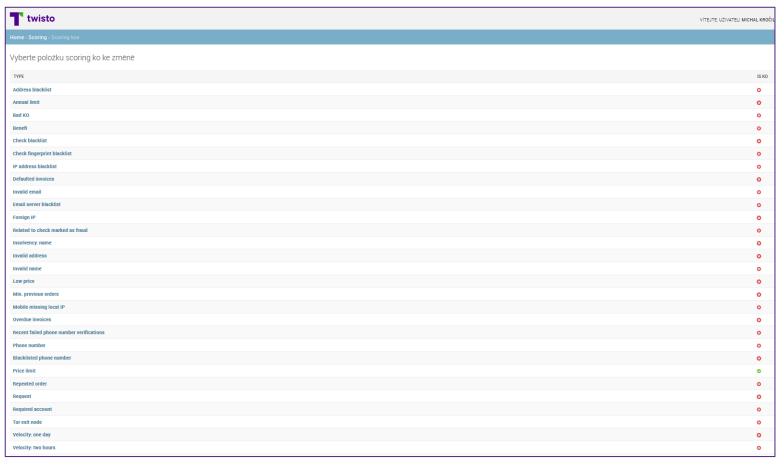
- Complementary to scoring
- Not as accurate and sexy
- More robust
- Passportable internationally

No single tool that we use is the "silver bullet" for risk mitigation. Well cultivated environment in which particular tools complement each other. We approach the risk from different vectors and that does the trick.

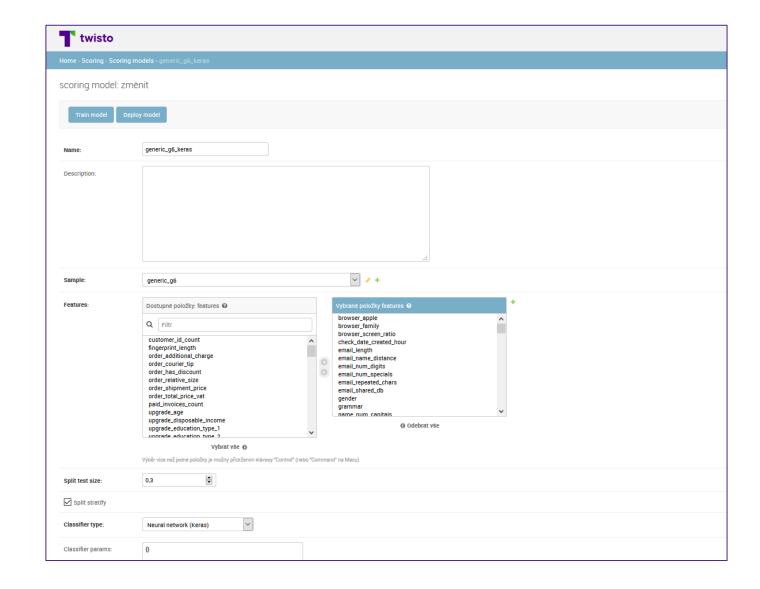


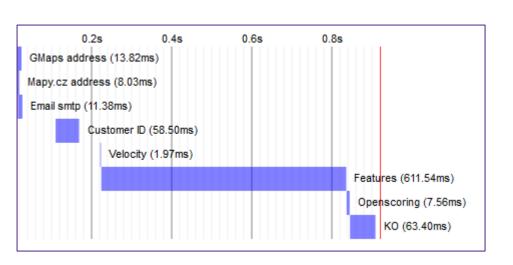


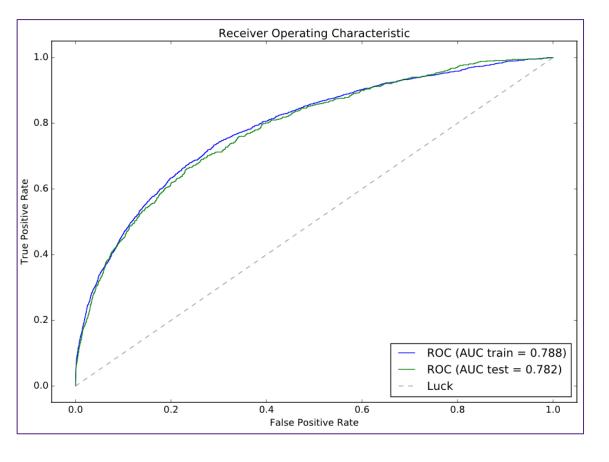














# Thank you!

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