

## EXPERIAN-Barning DAy 2022

Accelerate and maximize your data potential



#### **Velkommen til Experian Learning Day 2022**

Bo Rasmussen

Chief Customer Officer, Nordics





## Housekeeping | In person



**Fire exits** 



### **Devices silent**



### Ask the team





## Housekeeping | Online

Teams Chat Post and read messages here

#### Camera & Audio

Please ensure you are off camera and on mute





## Agenda

09:00	Welcome & Introduction Bo Rasmussen – Nordic Sales Director, Experian Nordics
09:10	Customer Experience Update: Your benefits as an Experian Client Lars Tøttrup, Operations Service Director, Experian Nordics
09:30	The value of alternative data within Analytics Julie Berg – Analyst, Experian Norge
10:00	Break
10:15	Limiting financial loss when E-ID is compromised Jon Marius Bru – Pre-Sales consultant, Experian Norge
10:45	ESG Score - The utilization and value driver in the Nordics Szabolcs Hideg - Head of Analytics, Experian Nordics
11:15	Break
11:30	Scorecard development – Combining variables in a non-manual way Martin Haraldseth – Data scientist, Experian Norge
11:50	Synthetic data – Why is this important and what value does this drive? Szabolcs Hideg - Head of Analytics, Experian Nordics
12:10	Effective data orchestration in an optimal customer journey Jakob Færgeman- Principal Consultant, Experian Nordics & Jon Marius Bru, Pre-Sales consultant, Experian Norge
12:30	Takk for i dag og lunsj Bo Rasmussen – Nordic Sales Director, Experian Nordics



#### **Customer Experience Update: Your Benefits as an Experian Client**

Lars Tøttrup

Operation Service Director Experian Nordics



## **Customer Experience in Experian**

Three years ago, we launched our CX programme, and we have seen improvements reflected in the latest feedback





Comments about behaviour & knowledge are favourable and highlight a high level of professionalism The introduction of digital user forums, the launch of MyExperian and the Experian Academy has given Clients improved access to information Launching the Experian Way of Closing the Loop has demonstrated we listen to our Clients and act on their feedback



We are innovating with new propositions to address changing Client Challenges such as Experian MAX





## Our focus on Norway









"As your Client I need proactive engagement to meet the scheduled deliverables within the timelines"



## Pace of Delivery

COVID impact on time to fix defects, implement changes, and deliver tasks and projects

#### Short term remediation

- Support staff moved Off Site
- Focus on client feedback
- Faster prioritization
- Taskforces to address
  bottlenecks

#### **Restructured Factory**

- Change from *Functional* to *Product oriented* self sufficient agile teams in support.
- Central Delivery Hub for software projects and upgrades

#### **Optimize Processes**

 Enable next level of agile maturity with constant improvements





## Experian are proud to share that across the Globe our Clients Trust us

- We recognise the importance of keeping your data safe and secure
- The World continually faces new Fraud threats
- We constantly improve our technology and IT infrastructure





## **Transformation**

Upgrading the Services to enhance Client experience and to keep ahead on Security

#### **Modernization progress**

- Simplified and consolidated platforms
- Added Security in design and embedded controls
- Re-development of Services and Products

#### **Benefits achieved**

- Safeguarding data with highest Security focus
- Upgraded User interfaces and added Functionality
- Further increased Data Quality
- Service stability increase



#### What's next?

- Performance calibration as we implement
- Focus to enhance and simplify interfaces / APIs
- Further added functionality and Service simplification



*"We need to make it easy for Clients to manage my access"* 





## **Service Access**

Constant focus to ease and safeguard access to your services

#### Single Sign on

Service access through one interface – and with added Self Service,

#### Enhance usability

We listen to client feedback and implement better help texts, improved process and functionality.

#### **Access review focus**

Further measures to protect data – we need your help on annual client validation of user access.

#### **Security First**

Clients can trust Experian to safeguard data – Security is in everything we do.





## Key Takeaways

#### **Client driven improvement**

- We continually look to improve your experience with a CX programme led by our Clients' voice.
- We have an award winning Close the Loop process to ensure we listen, respond and take action.

#### Stay in touch

- Please continue to provide feedback, your insights are invaluable.
- Ensure you have agreed to receive our monthly newsletters, to stay up to date and informed – sign up here: <u>https://www.experian.no/arrangementer/Nyhetsbrev</u>

#### Sign up to MyExperian

- Our Client portal contains many resources that you will find useful.
- We are continually adding new functionality and information to benefit our Clients.
- Visit: <u>https://www.experian.com/lp/decision-</u> analytics/global/myexperian/register





#### **Alternative Data**

Julie Berg Analyst Experian

experian.

## Agenda



- 1. Industry challenges relating to data
- 2. Traditional credit data
- 3. New data sources and how they are relevant
- 4. Web Data Insights





## Some of the challenges facing the credit industry

in recent years...



8-8 8-8-9 8-8-9

## Data sources and methodology

Stricter regulation relating to **data collection, retention and security** as part of GDPR, and consumers' right to be forgotten are changing the way data is used and stored

In order to **stay compliant** with recent lending regulations such as **Utlånsforskriften** and **Gjeldsinformasjonsloven**, more data needs to be collected as part of credit assessment, compared to in the past

The tougher regulatory environment has forced businesses to think outside the box and look for additional data alternatives, both in terms of data sources and analytics methodology



## An overview of traditional «credit data»

Consumer information

#### Tax assessment

From last 3 years:

- Income
- Tax
- Net wealth
- Tax class



EXPERIAN

#### **Payment remarks**

- Number of open remarks
- Value
- Type of remark
- Creditor
- Source



#### **Business interests**

- Number of business
  interests
- Type of business interest (e.g. Owner, board member, etc)
- Bankrupt business
  interests



#### Geography

- Address information
- Postal number
- Municipality
- County
- Alternative address





With stricter regulation requiring the **collection** of specific data, while limiting the use and storage of existing data, the industry has been forced to look for alternatives...





# Some of Experian's newer data sources and analytics methodology





## What is available from some of the additional data sources?

Examples of some available data fields

**Debt Registry** (Gjeldregister)

#### **Debt summary info:**

- Sum balance •
- Total exposure •
- Total number and sum of all loans

#### For each loan type:

- Total exposure
- Original loan amount
- Remaining amount
- Terms •

EXPERIAN

- Interest rate
- Flag if coapplicant

#### **Property data**

**Property data with Ambita as** original source:

- Number of properties owner
- Ownership share
- Pledge amount
- Value
- Remarks on property

#### **DSF (Folkeregisteret)**

- Marital status
- Number of children
- Citizenship
- Birth place
- Date of emigration (if emigrated)
- Etc.

# Some of Experian's newer data sources and analytics methodology



e

## Overview of the lending requirements in Låneforskriften



#### Affordability calculation

Must include normal living expenses.

Borrowing costs must include interest, loan repayments, and 5% interest rate increase on the customer's total debt.

#### Debt ratio

Based on gross income and total debt.

Should not exceed 5\*income.

#### Monthly installments

No installment-free payment period.

Maximum of 5-year maturity, unless it is refinancing.



#### Refinancing

If refinancing existing unsecured debt: does not have to meet all other requirements.

Refinancing possible only if new loan is smaller in size, and total cost does not exceed existing.



## Calculating an applicant's disposable income:



Monthly **income** based on either:

- Income from last available tax records (from Experian), or
- Annual income from application form

Other relevant variables, when available:

- Rental income (from application form)
- Estimated parental benefits (based on number of children, from Experian)

Taxes from last available tax year (from Experian)

Estimated living expenses, containing:

- Standard SIFO budget estimates
- Monthly utility/power costs, based on either size of home or household (from application form or Experian)
- Car expenses (from Experian)
- Monthly rent, either from application form or estimated based on geographic location/city
- Marital status verified against DSF to determine if living expenses are shared (from Experian)

**Debt information**, based on either:

- Secured and unsecured debt stated on application form
- Unsecured debt from the Debt Registry

Monthly payments calculated using estimated loan term and interest rates. Rates can be customized to client's preferences.



Debt registry data helps ensure consumer protection and regulatory compliance, by...

Verifying stated information from application form

 $\checkmark$ 

Used when calculating applicant's debt ratio





# Some of Experian's newer data sources and analytics methodology







## What Web Data Insight is

What it IS

What it DOES

What it MEANS

- A web service solution, hosted by Experian, to better manage SME acquisition and portfolio risks across the lifecycle.
- Uses machine learning and advanced data science to generate entirely new predictive data variables.
- Enables providers of credit to SME businesses to overcome the challenges created by **limited business** intelligence and credit data.
- Gathers **non-traditional unstructured and uncorrelated web data** relating to SME businesses, their presence in the market and what is being said about them by their customers and suppliers.
- Transforms data in real time into usable insights that enable providers of credit to make **faster**, **more accurate lending decisions**.
- Helps clients **grow top line revenues** by accepting more good quality customers faster whilst simultaneously **reducing bottom line costs** by reducing the need for referral and underwriting.
- Clients are better able to build and maintain profitable SME lending portfolios without having to reduce their overall risk appetite and use the additional insights to inform more accurate and better targeted marketing and customer acquisition strategies.

## In short...

WDI is an internet presence index made up from a set of features measuring internet activity on SMEs

#### Note:

Sole traders are currently not applicable – due to Experian legal and compliance limitation

WDI is not compliant in Norway as a **standalone risk score**, but can be **useful as a supplementary to existing credit risk models** 



### Methodology and Model development – What WDI is From data requirements to web data score



SMEs portfolio data requirements:

- Legal entity name
- City and/or Address
- Date of Application
- Observed behavior (e.g. G/B Flag, Churn flag)





### Methodology and Model development – What WDI is Web Attributes Creation

Go



## Methodology and Model development – What WDI is Getting Insights: an example



## **Norway Solution**

#### 298k

Companies are used for development

5 KPIs are defined	
GS Presence	
GM Contact Info	
GM Rating	Internet Presence Score
GM Photo Count	
GM Price level	_

Internet presence - index	Description	% Population
1	Very Low Presence	13.83%
2	Low Presence	12.69%
3	Medium Presence	36.18%
4	High Presence	28.73%
5	Very High Presence	8.57%





## Norway Solution – KPIs distribution

bins	meaning	Total pct			
GM contact info					
0	No Hit	19.68			
1	has no phone and no website	11.74			
2	has phone OR website	25.50			
3	has both	43.08			
GM rating					
0	No Hit	19.68			
1	found on GM but no ratings	42.54			
2	Average rating <= 4.6; Total # ratings <= 10 and Days since last review > 150	24.66			
3	At least two of the above listed conditions are not met	13.12			

# GS Searches				
0	No Hit	12.07		
1	1-3 results	33.48		
2	4-499 results	32.55		
3	500 + results	21.90		

bins	meaning	Total pct			
GM Photo Count					
0	No Hit	19.68			
1	# photos = 0	45.81			
2	1 <= # photos < 9	19.85			
3	9 <= # photos	14.66			
GM Price level					
0	No Hit	19.68			
1	Found on GM, but no price level.	78.76			
2	price level <= 2	1.46			
3	2 < price level	0.10			





## Norway Solution – KPIs distribution

Internet Presence Index = 1(very low presence)



Internet Presence Index = 5(very high presence)



- GS Searches = {"0" : "No Hit", "1" : "1-3 results", "2" : "4-499 results", "3" : "500 + results"}
- GM contact info = {"0" : "No Hit", "1" : "has no phone and no website", "2" : "has phone OR website", "3" : "has both"}
- GM Rating = {"0" : "No Hit", "1" : "found on GM but no ratings", "2" : "Average rating <= 4.6; Total # ratings <= 10 and Days since last review > 150", "3" : "At least two of the above listed conditions are not met"}
- GM Photos = {"0" : "No Hit", "1" : "# photos = 0 ", "2" : "1 <= # photos < 9", "3" : "9 <= # photos"}
- GM Price level = {"0" : "No Hit", "1" : "Found on GM, but no price level.", "2" : "price level <= 2 ", "3" : "2 < price level"}




How can WDI be used in credit strategies today?

Bespoke credit origination or customer management strategies can be improved by adding an additional source of information from WDI



## Some of Experian's newer data sources and analytics methodology







Some of Experian's newer data sources and analytics methodology

Remaining topics sound interesting?

Stay tuned for our Nordic Head of Analytics, Szabi Hideg's upcoming presentations on these shortly:







### **Experian Nordiske Analyseavdeling**







#### Limiting financial loss when E-ID is compromised



Jon-Marius Bru

Sales Engineer Experian



### Agenda

The challenges we are facing

Increasing security with minimum friction

**Short demonstration** 





# **Challenge**: Clients are tricked into giving up their E-ID details and get their accounts drained

- Fraudsters collects compromised PII data about individuals
- The fraudsters use different methods to trick the individuals to give up their E-ID data.
- The clients are giving up details in fear of something bad happening and are helping the fraudsters getting control of their funds.
- The compromised PII data together with the E-ID information is used to drain the individuals accounts and to take up credit in their name.

### Humans are the weakest link!







With 57% of businesses reporting higher losses from account opening and account takeover fraud in the past 12 months, the challenge is becoming harder to solve

The challenge is to be sure that the owner of the E-ID is the one that use it and not a fraudster...



A user access the internet bank

with a device of choice

and log in with E-ID (BankId) is done

But who is the user behind the E-ID?

### How can we increase security without unwanted extra client friction?

Device intelligence is triggered on all logins to help authenticate the users





Extra security is triggered if device intelligence indicates a new device or have found any discrepancies with the device used. Document verification is used to verify the user identity and actions is restricted until new authentication is done

### How can we increase security without unwanted extra client friction

Let the user choose if the extra level of security will be active, and what the thresholds shall be to trigger it The extra security option is only triggered if the user wants to use the additional security.

- $\begin{array}{c} & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ \end{array} \end{array}$
- Use E-ID and Document verification to activate new settings
- Use face recognition to identify the client when the extra security is triggered

### Three main takeaways



Use device intelligence for all transactions to trigger additional security level.

Remember to use Dev Intel that is difficult to block!

**Use Biometrics** 

Biometrics like face or voice recognition can easily be verified against the original source

#### Avoid unwanted friction

Let the user choose to use the additional security option or not, like a twofactor authentication

#### Help your clients protect themselves!







### **ESG Score**

### The Utilization and Value Driver in the Nordics



Head of Analytics - Nordic Experian



### Table of contents

- Regulatory background
- Why to move fast?
- ESG risk drivers
- $\circ~$  ESG risk impact on the credit cycle
- Key pillars and supervisory expectations
- The ESG Score
- How can Experian help?







### **Regulatory background**

#### 2015



- Sustainable Development Agenda for 2030 is developed by the UN, with 17 sustainable development goals
- **Paris Agreement,** establishes a maximum increase of 2°C until the end of 2100, compared to pre-industrial levels



- European Commission (EC) Action Plan on
   Sustainable Growth :
  - Reorienting capital flows towards a more sustainable economy
  - Mainstreaming sustainability into risk management
  - Fostering transparency and longtermism

#### 2019



 European Commission Green deal, promotes a circular and sustainable economy, with a primary objective : making Europe climate neutral in 2050





2021

2021

INTERNATIONAL

- EU Taxonomy : defines a common framework for all ESG aspects
- ECB guide on climate-related and environmental risks for banks
  - Climate and environmental risk become part of the banking supervision process
- Includes physical risk for assets and transition risk to low carbon economy
- Management and supervision of ESG risks : how ESG factors and risks should be included in the regulatory and supervisory framework: business strategies, governance, risk management and supervisory reporting
- Inclusion of ESG risks in **supervisory** assessments
- **Reporting** : Draft Pillar 3 disclosures of ESG risks (green asset ratio)
- BCBS principles for the effective management and supervision of climate-related financial risks







### Why to move fast?





### **ESG Risk Drivers**



Inadequate management of E & S risks

Non-compliance with corporate governance frameworks/codes



Iranem	Iccion	channe	r.
IIGUSIU		channe	Þ

Lower profitability

Lower real estate value

Lower household wealth

Lower asset performance

Increased cost of compliance

Increased legal costs

Financial risks
Credit risk
Market risk
Operational risk
Liquidity and funding risk
Reputational risk



### **ESG Impact on Credit Cycle**



### **Key Pillars and Supervisory Expectations**

#### Business Models and Strategy



Business Environment Understand the impact of ESG (climate-related and environmental, social and governance) risks on the business \_\_



Business Strategy
Integrate the ESG risks in the
business strategy

#### Governance and Risk Appetite



Management body
 Consider ESG risks when
 developing longer-term
 business strategy and
 objectives

**Risk appetite** Include ESG risks in the risk appetite framework



#### Organizational structure and reporting ESG roles and responsibilities of management and 3 lines of defence. Reporting of ESG risks

#### **Risk Management**



#### Risk management framework

Incorporate ESG risks indicators as categories in the risk management framework:

- ✓ Credit risk at all stages of the lending
- ✓ Operational risk
- ✓ Market risk
- ✓ Liquidity risk



Stress testing and scenario analysis
Include ESG risks in the baseline and adverse scenarios

#### Disclosure



### Policies and procedures

Disclose information and key metrics related to ESG risks



#### Disclosure of assets affected by climate change

Series of templates included in Pillar 3, including Green asset ratio





### **ESG Score – building blocks**







### How Can Experian Help?



- ✓ Advanced analytics to capture and analyze ESG data
- ✓ Web-based data to capture timely information on ESG
- Individual assessment of ESG risk of each exposure :
- Transparent, simple and can be linked to KPIs used in the organization / systems
- Established methodology, using multiple criteria on each dimension of the ESG

- Risk framework method, sensitivity analyses to analyze dynamic impact of ESG :
- Forecasts that account for ESG risks, including their feedback loops
- Capacity to handle regional and sectorial analysis
- Consultancy and data support to EBA's 2022 Climate Change Stress-Test
- ✓ Integration of ESG metrics in business strategy, governance and risk management
- ESG integration into credit risk evaluation process and credit decisioning
- Development and delivery of new generation Risk Management, Loan Origination and Monitoring models, EWS and triggers that are forward-looking and incorporate ESG impact









### **Experian's Nordic Analytics Department**







#### Automatisk utledede variabler i prediksjonsmodeller



Martin Haraldseth

Data Scientist Experian



### Agenda



- Prediksjonsmodeller
- > Hvorfor fokus på utledning av nye variabler?
- > Interaksjonsvariabler
- Metodikk
- > Use case







### Hvorfor fokus på utledning av nye variabler?

Kombinasjon av avansert analyse og domenekunnskap er nødvendig for å sikre en robust prediksjonsmodell med høy prediksjonskraft.

- Økt mengde data og datakilder (eks. webdata, transaksjonsdata)
- Våre kunder befinner seg i forskjellige sektorer, markeder og forretningsområder



### Interaksjonsvariabler

Automatisert løsning for generering av nye variabler

#### Fordeler

- Rask oversikt over data
- Beslutningstrær benyttes til å krysse variabler med optimale splitter for å øke prediksjonskraft
- Stor frihet til å velge algoritmens kompleksitet avhengig av data og formål
- Analytiker gjennomgår algoritmens forslag før endelig beslutning
- Håndterer numeriske og kategoriske variabler







### Metodikk



Ønskede interaksjonsvariabler påføres datasettet før modellkjøring





### Use case



Index	Gini	KS	Strongest Variable	Strongest Variable Gini	VInfo	Variable 1	Variable 2
0			Variable_K	36.732		Variable_K	Variable_A
1	46.91	0.361	Variable_A	32.577	0.763	Variable_D	Variable_A
2	44.004	0.346	Variable_K	36.732	0.685	Variable_B	Variable_K
3	41.007	0.332	Variable_K	36.732	0.599	Variable_D	Variable_K
4	38.924	0.285	Variable_B	33.706	0.549	Variable_B	Variable_I
5	30.851	0.23	Variable_D	27.872	0.309	Variable_E	Variable_D
6	29.24	0.227	Variable_C	22.608	0.283	Variable_C	Variable_I
7	28.645	0.218	Variable_J	25.008	0.275	Variable_E	Variable_J
8	28.543	0.211	Variable_J	25.008	0.278	Variable_F	Variable_J
9	25.981	0.202	Variable_G	21.521	0.218	Variable_G	Variable_H





### Use case

Sammenligning av endelige scoremodeller

- Øke inntekter med flere aksepterte kredittsøknader til samme risikonivå på porteføljen
- Redusere tap med et lavere risikonivå på porteføljen til samme akseptrate



	Score_k01		Score_k02		Uplift	
Split	G/B Gini	G/B KS	G/B Gini	G/B KS	G/B Gini	G/B KS
All	59.8	45.3	62.3	47	4.2%	3.8%
Development	60.4	46.1	62.8	47.6	4.0%	3.3%
Validation	57.4	42.4	60.2	45.3	4.9%	6.8%

Mer alternative data og flere variabler gir et større potensial for økning i prediksjonskraft





### **Experian Nordiske Analyseavdeling**







### **Synthetic Data**

### Why is it important and what value does it drive?

#### Szabolcs Hideg

Head of Analytics - Nordic Experian



### Table of contents

- Regulatory Background
- **o** Some Challenges Data Driven Organizations Face
- Synthetic Data
- Use Cases




## **Regulatory background**

- $\circ$  The toughest privacy and security law in the world
- $\circ\,$  Drafted and passed by the EU
- Imposes obligations onto organizations that target or collect data related to people in the EU.
- $\,\circ\,$  Put into effect in May 2018

"Personal data is any information that relates to an individual who can be directly or indirectly identified."

- $_{\odot}\,$  Aka right to erasure
- $\circ\,$  Individuals have the right to have their personal data erased
- BUT, the organization's rights in some cases can trump the right to erasure



Right to Be oli Forgotten o E

General

Protection

Regulation

Personal

Data

Data

 $\mathbf{Q}$ 

### Some challenges data driven organizations face



#### **Historical Data**

How long to go back? How to justify legitimate use purpose?

"Do you guys really need this?"





#### **External Data**

Previously (pre GDPR) available services, data sources are no longer available/restricted, increasing challenges with gathering external information on individuals for analytics purposes.



#### **Data Processing**

What can be used for what purpose? Restrictions on data use impacting model accuracy, certain data processing might be on the "border-line" where the right practice is to "play safe"



## Framework & maintenance

Developing and maintaining a fully compliant framework while also having business considerations is not easy. Departments to agree on the processing actions, individuals to know and be up to speed on what is needed from their side,

etc.

## Some challenges data driven organizations face





## Framework &

Developing and maintaining a fully compliant framework whi

also having business considerations is not easy. Departments to agree on the processing actions, individuals to know and be up to speed on what is needed from their side;

maintenance

How long to go back? How to justify jeditimate use

#### purpose /

"Do you guys really need this?"



Previously (pre-GDPR)available services, data sources

are no longer available/restricted, increasingchallenges with gatheringexternal information on individuals for analytics purposes:

Historical DatADDEGN/GC DyarGDPR

What can be used for what purpose? Restrictions on data

use impacing model accuracy, certain data processing might beon the "border-line" where the right practice is to "play safe"

# Solution

## GANT HAVE A DATA BREACH

## IF YOU DON'T HAVE ANY DATA

nafiio.com

## Another path? Any de-tour? Bumpy it may be...

### **Synthetic Data**



#### What is synthetic data?

• Artificially created data that in large parts looks and behaves like **real data**.

#### **A** How did it come into focus?

 GDPR compliance make it difficult to store and process data needed for certain analytics projects where data is not in a full anonymized status.

#### What value can it bring?

- Enable data driven solutions by creating 100% artificial records for further processing.
- Smote Section 2015 Some algorithms to help along the way:



o GAN





## **Synthetic Data**

### C How did it come i ito

What is synthetic da

GDPR compliance in the it difficult to store and process data needed or certain analytics projects where data is not in a stanonymized status.

SMOTE

#### What value can it bring?

- Enable data driven solutions by coating 100% artificial records for further processing.
- SMOTE Some algorithms to help along the way:
  - o GAN





### **SMOTE**



- Stands for Synthetic Minority Oversampling Technique
- A very common approach used to generate artificial data-points.
- The method ensures synthetic data points while still **maintaining similarity, anonymity and quality.**

#### SMOTE Step-by-Step

- 1. Choose a random real data point.
- 2. Find the k-nearest neighbors of the points.
- 3. Select one of the nearest neighbors randomly.
- 4. Make the synthetic data points somewhere in-between the real data point and the nearest neighbor.





### **Synthetic Data Use Cases**

#### 1. Data Anonymization



Applying the synthetic data generation process flow with the underlying audit and control steps <u>to generate a dataset that is</u> <u>disconnected from PII</u> and therefore could

be stored for future study purposes.

#### 2. Data Enrichment



Linking additional/external variables to a given dataset which after the dataset is synthetized and only the synthetic data version is shared to be used for analytics purposes.

#### **3. Generic Models**

₹=	

Development of **generic models that are based on the synthetic data files**. This could include simulating a certain portfolio behavior or quality when opening a new product or entering to a new market.









### **Experian's Nordic Analytics Department**







#### **Effective data orchestration in an optimal customer journey**

Jakob Færgeman

Global Consultant Experian





## happe world

s as possible...



**GORDON GEKKO** 

#### THE MOST VALUABLE COMMODITY I KNOW OF IS INFORMATION





## But reality is not necessarily particular digital mature

What type of paradox are we experiencing?

#### DATA QUALITY: THE TRUTH ISN'T OUT THERE

Why do banks struggle to achieve financial goals? Their data









## **Banking** is just bits and bytes



John Reed, Citibank Chief CEO/Chair, 1984-1998

## Why is the combination of physical and digital banking presence so challenging?

Let's review a typical physical banking structure and the oldest written loan application on Denmark

Sierbe Rlaffe il Desmine die Completelit Southiezest 5 & Da. 4. and the second s iz zolatela zol. 551 natati Kongen Selfler 1837. Tollender General in 25 January 1837 and getter at without un Miller of John Cher Hill. and the filling the good the go the leave of SUC Mighandialies as allin Series Jecking & P W olling 1 aV 101, 2. Lot J. M. P. 132, Hygand shigh 3 der Taft Dykkermaskine 1837 Ansøgning om lån by Statens Arkiver - Danish State Archives

EXPERIAN





### So what?

What does that mean for the ability to have a strong customer journey



Danske Bank har lukket 21 filialer i 2021 finanswatch.dk

#### Vertical integration



#### CRM: Inside-Out

Complex CRM systems must manage the interaction between:

- # Distributionschannels
- # Product lines
- # Customer management systems

# The challenge with the digitisation of the customer journey has changed the comptetiion both locally and internationally

The market changes have happened gradually...









Berlingske 2013 – upon the news that Coop would launch Coop Bank





## To ensure the best customer journey the data orchestration must be managed differently

Digital Bank - Horizontal integration

#### Customer Functionality designed by adopting an "outside in" approach







## Data orchestration requires the right tools to develop and maintain interfaces

GUI is a key element to enable that now everything needs to be rocket science

## Identify the right data sources

Subsequently they need to be integrated in a workflow process that is 100% synchronized with the customer journey





### Remember also to use the data!

Which then requires the right tools to determine and define how to manage the information

# Important that GUI is developed so analysts can use it

- Reduce IT dependency
- Credit strategies and segmentation can be managed effectively
- ML models can be integrated





### Key takeaways

Outside - In Data orchestration must be defined based on customer journey and not vice versa One stop shop Increasing demand after a central data hub / One stop shop Use the data! Effective data orchestrering requires an environment to exploit the value of data to ensure the best customer journey



## EXPERIAN-Barning DAy 2022

Accelerate and maximize your data potential