

EXPERIAN.
learningDAY 2021

Customer centricity during challenging times



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Welcome to the Collection Session!



Per Ivar Kristiansen
Sales Director & Site Leader
Experian Norway



The challenges facing the collections industry – can you recognize any of these topics?

Data quality and accuracy at an early collection stage

Identifying the right strategy and channels

Lack of Automation

Pressure from new regulations

Difficult in accessing and using the most valuable information

Cost reducing measures and new revenue streams

Lack of Technology

Lack of Collections Strategy



Justisminister Monica Mæland (H) var i vår klar på at inkassosalærer og purregebyr raskt måtte nedjusteres som følge av svekket betalingsevne i kjølvannet av koronapandemien. Illustrasjonsfoto/iStock: Totojang

Nå er inkassosalærer og purregebyr halvert

JUSNYTT. Endringene trådt i kraft 1. oktober 2020.

Nytt inkassolovforslag kan kutte gebyrene med to milliarder kroner

Et utvalg vil nekte inkassoselskapene å kreve store gebyrer ved ubetalte bompenger, telefon- eller legeregninger. Det kan spare forbrukerne for store summer.



 Lindorff

KOMMENTAR

Tøffe, men nødvendige endringer i vente for inkassobransjen

Det blir tøft å tilpasse seg kutt i gebyrsatsene og andre forslag til endringer i inkassoloven. Men vi som bransje må forandre oss, skriver Lindorff-sjefen.



«Loft over samlede omkostninger»

2. Loft over samlede omkostninger

Aftalepartierne er enige om samtidig at indføre et loft over de samlede omkostninger for forbrugslån uden sikkerhed på 100 pct.

Med et omkostningsloft sættes der en entydig og effektiv grænse for, hvor meget en forbruger i alt kan komme til at betale for et forbrugslån uden sikkerhed over dets løbetid, også selv om forbrugeren ender i en situation, hvor der på et misligholdt lån pålægges gebyrer, strafrenter mv. Dette omkostningsloft vil gælde alle selskaber og personer, der driver erhvervsvirksomhed med at udbyde forbrugslån uden sikkerhed.

These changes create greater pressure on debt collection companies

More pressure on operating efficiency and automation

Accurate information and early identification

Effective collection strategies

A trusted partner



Agenda

10:15	Welcome & Introduction Per Ivar Kristiansen – Sales Director and Site Manager, Experian Norway
10:25	What did we learn from the financial crisis and where are we today? Peter Linzenbold, Nordic Client Director, Experian Nordics
10:50	Covid-19 Impact on Nordics Credit Activity and Future Expectations from Experian's Point of View Buse Hanci, Analytics Consultant
11:05	Break
11:20	Optimizing your debt collection strategies through data and analytics Martin Haraldseth - Analyst, Experian Norway & Kjell Tofte – Senior Product Manager, Experian Norway
12:15	Closing & thank you Bo Rasmussen - Chief Customer Officer and interim Nordic Market President, Experian Nordics

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Collections - What did we learn from the financial crisis and where are we today?



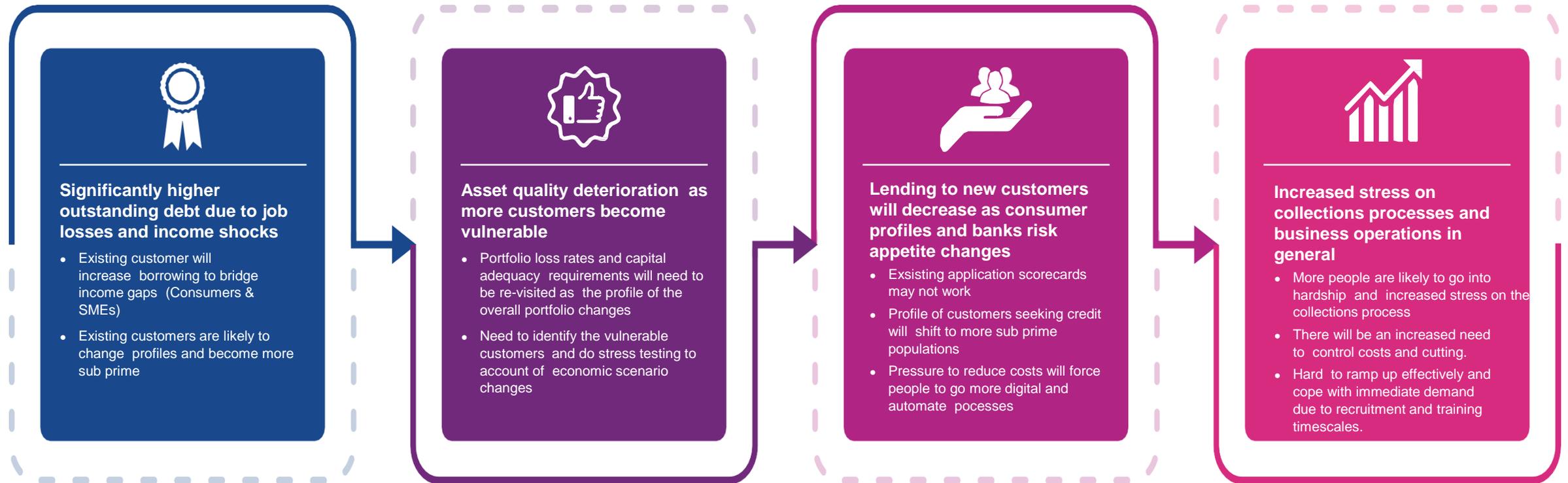
Peter Linzenbold

Nordic Client Director
Experian



Lessons learned from the last financial crisis

Four core lessons for Financial Institutions from the last financial crisis



The challenges faced within collections

- Poor data quality and lack of contact information
- Lack of customer insight and only limited focus on early warnings
- Manual processes which reduced collector efficiency
- Painful integration, hard to overcome legacy constraints
- High dependency on front office staff with limited collections knowledge
- Organisational silos with limited co-ordinations and alignment

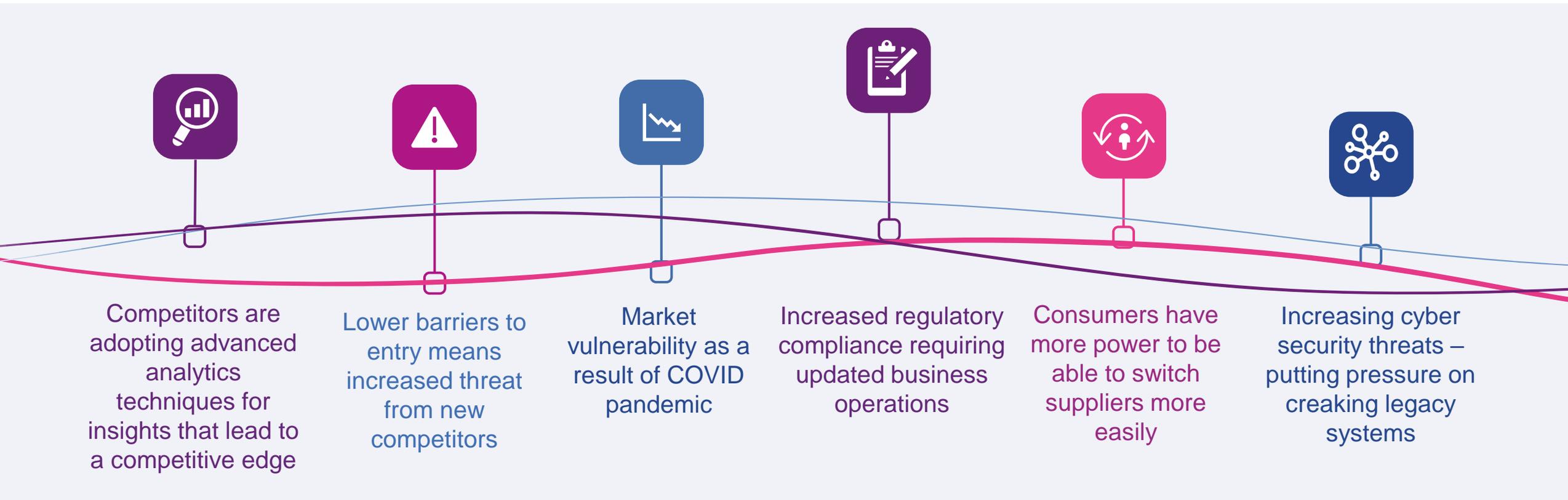


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Where are we today?



A changing market is forcing organisations to reshape the customer journey but this task is filled with obstacles



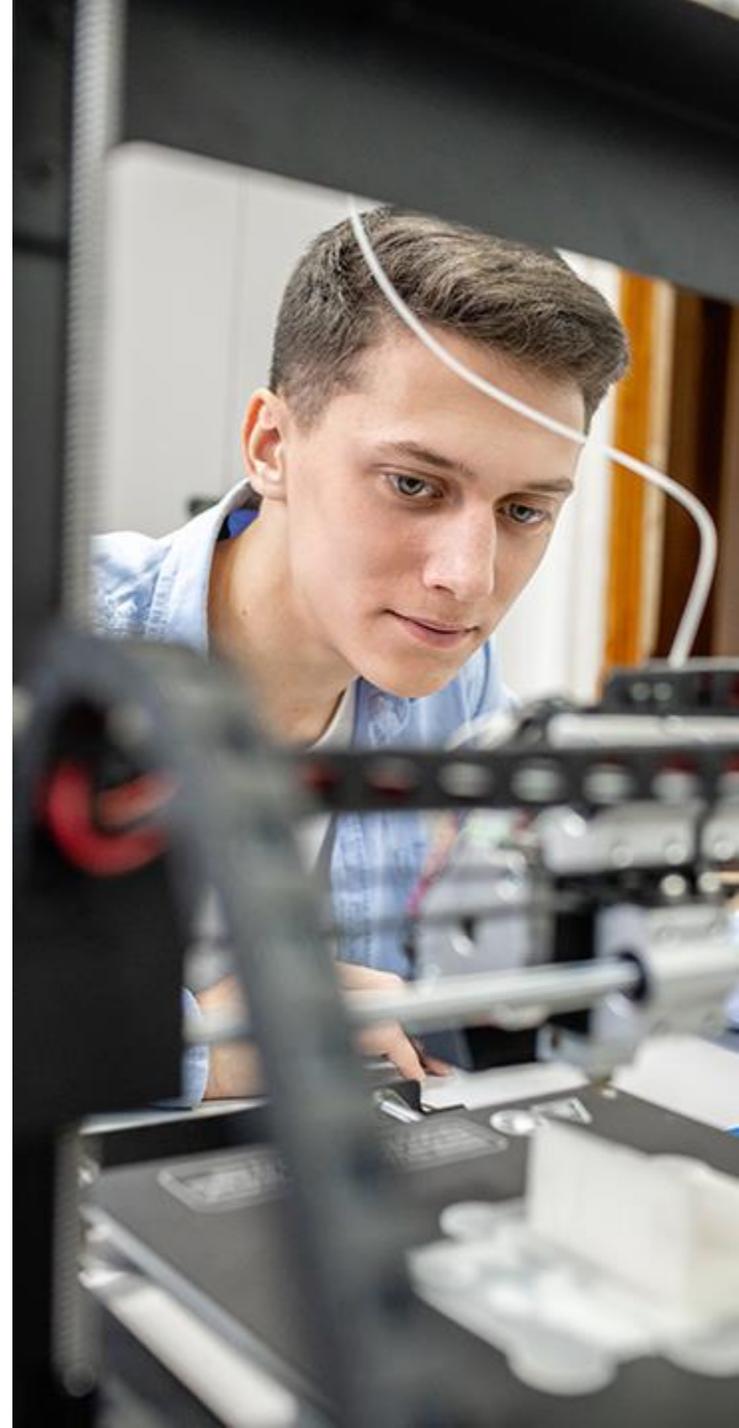


Customer behaviors and preferences has significantly changed

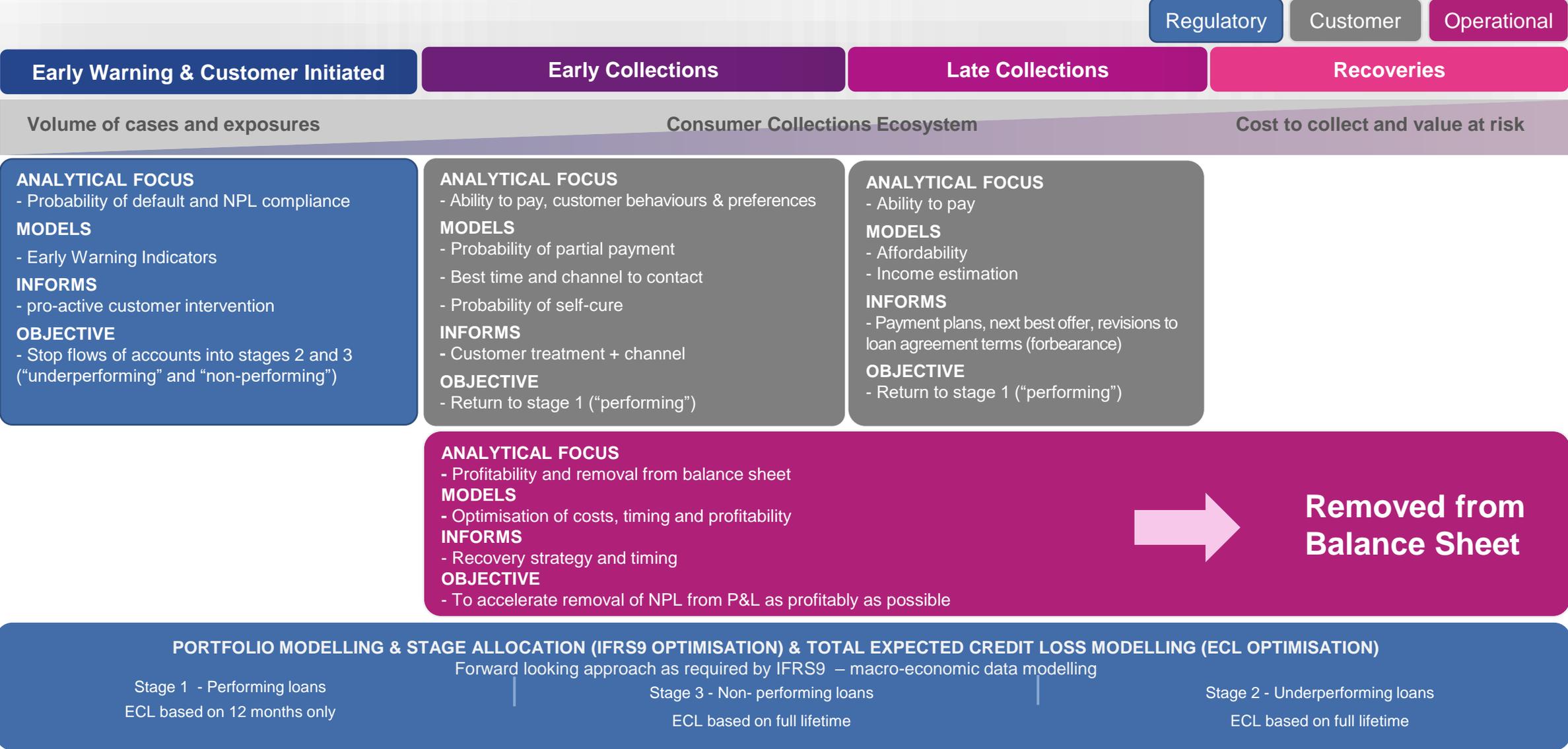
- Treat me as an individual
- Let me self service
- Allow me to interact the way that suits me
- Give me options that best suit my situation
- Treat me fairly and transparently

Collections departments are still facing similar challenges today as in 2008

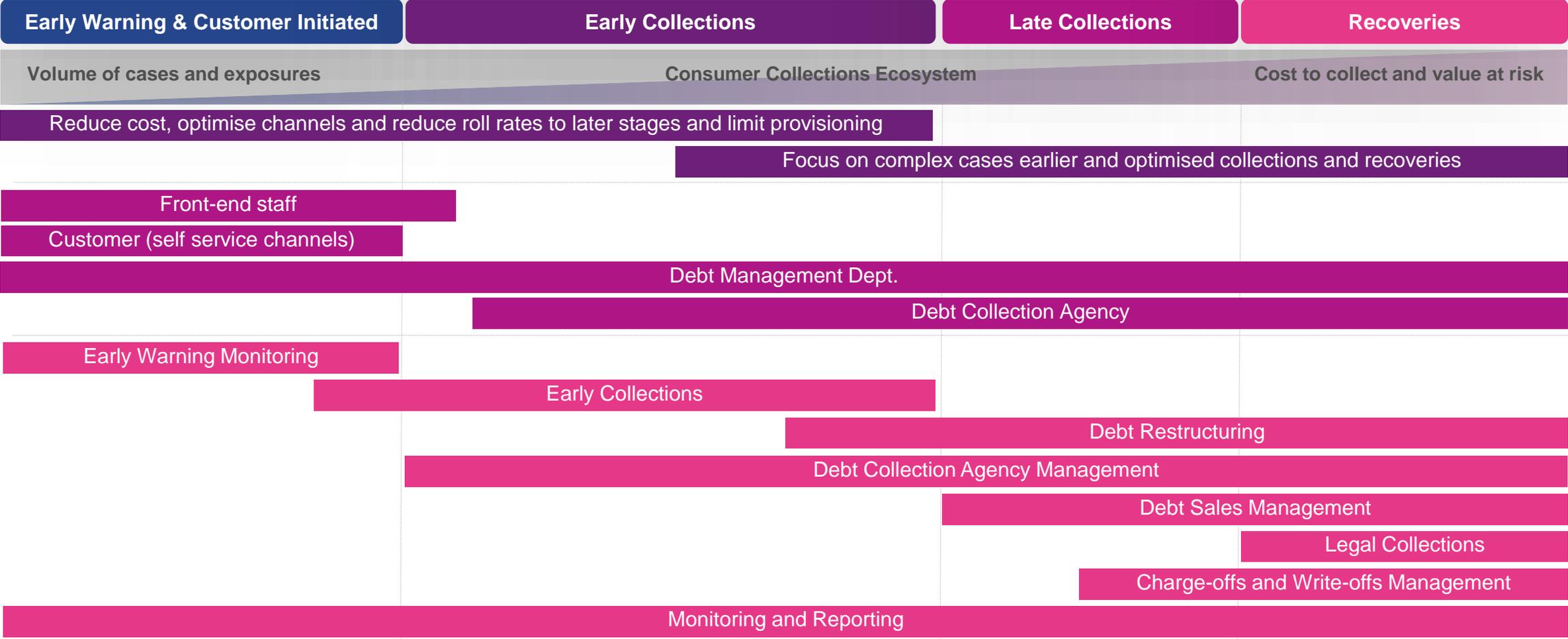
- Poor data quality and lack of contact information
- Lack of customer insight and only limited focus on early warnings
- Manual processes which reduced collector efficiency
- Painful integration, hard to overcome legacy constraints
- Organisational silos with limited co-ordinations and alignment
- Lack of digital capabilities for customer self-service and limited ability for individual treatments



Organizations are becoming more and more data and analytical driven with a primary focus on capital allocation...



However, only limited focus has been given to improving the collections operating model and digitization of collections



Why?

Who?

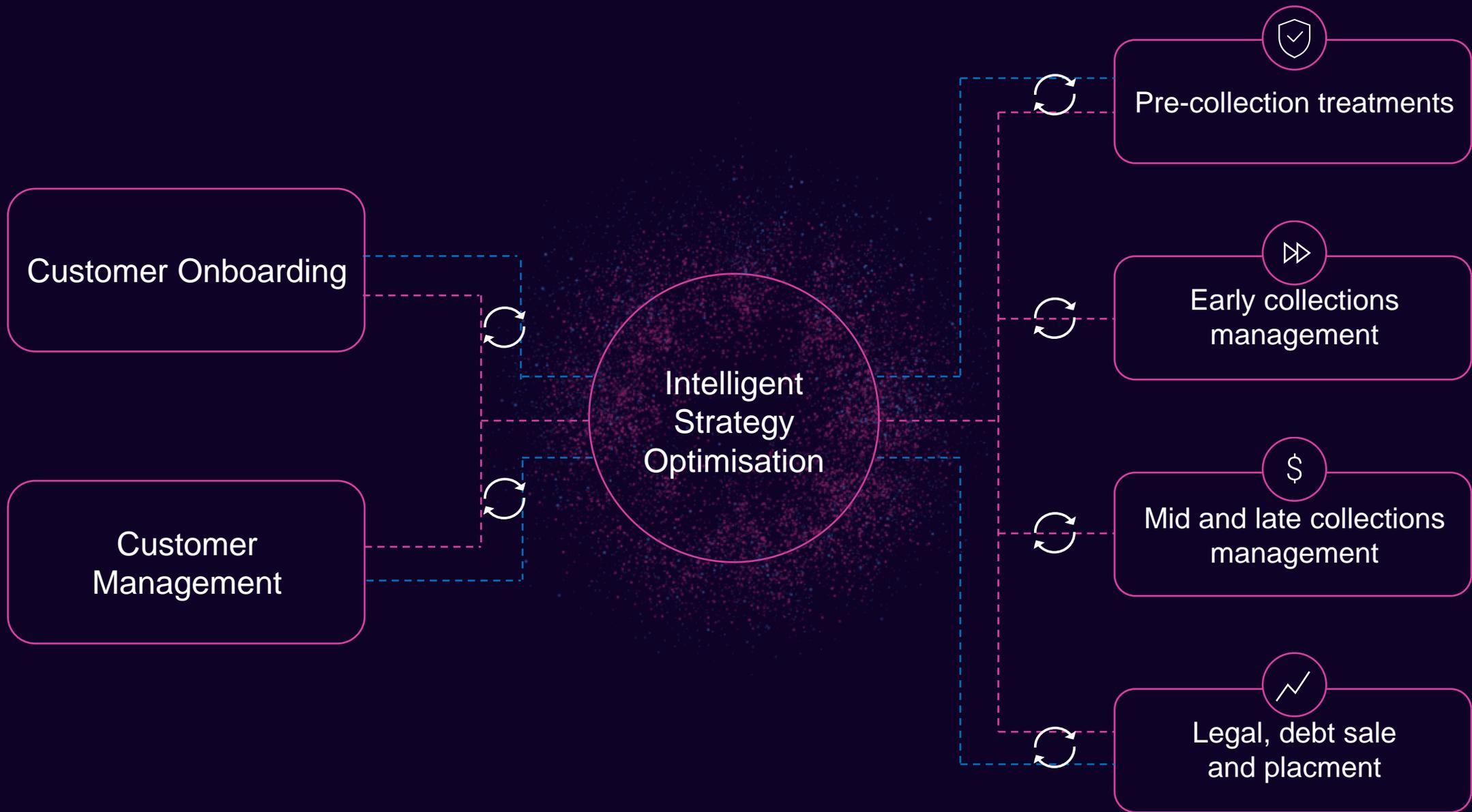
What?

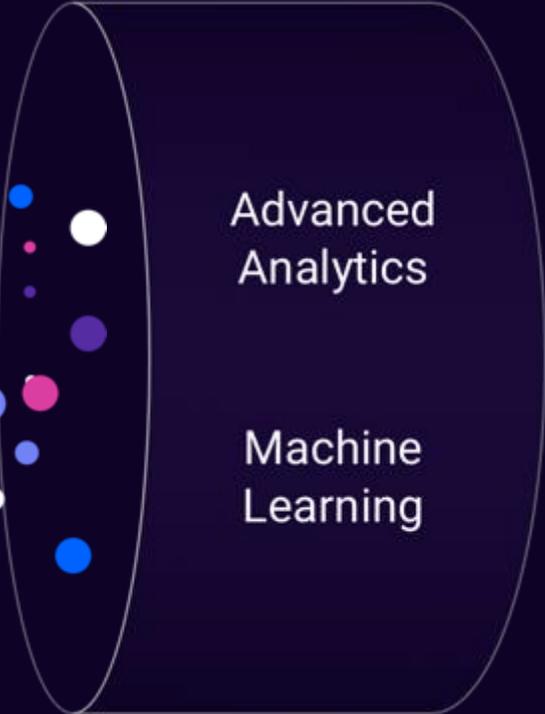
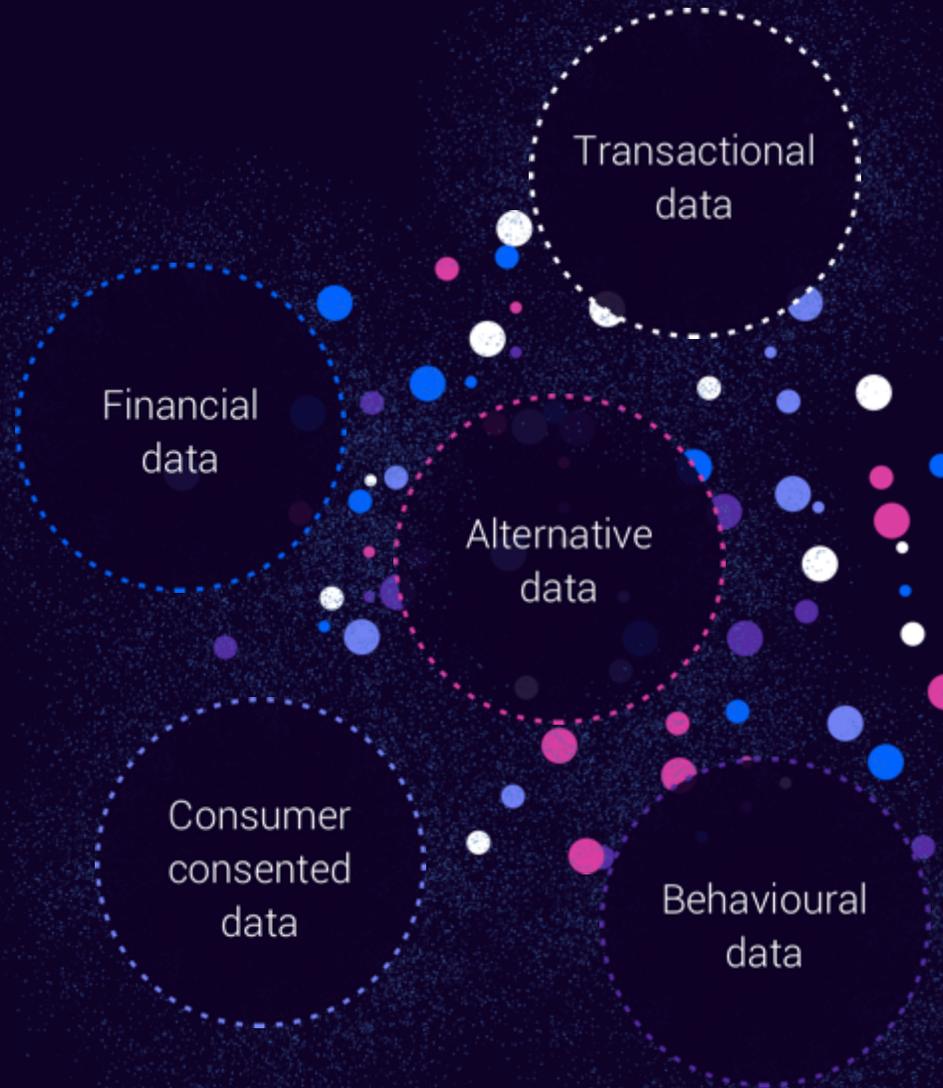


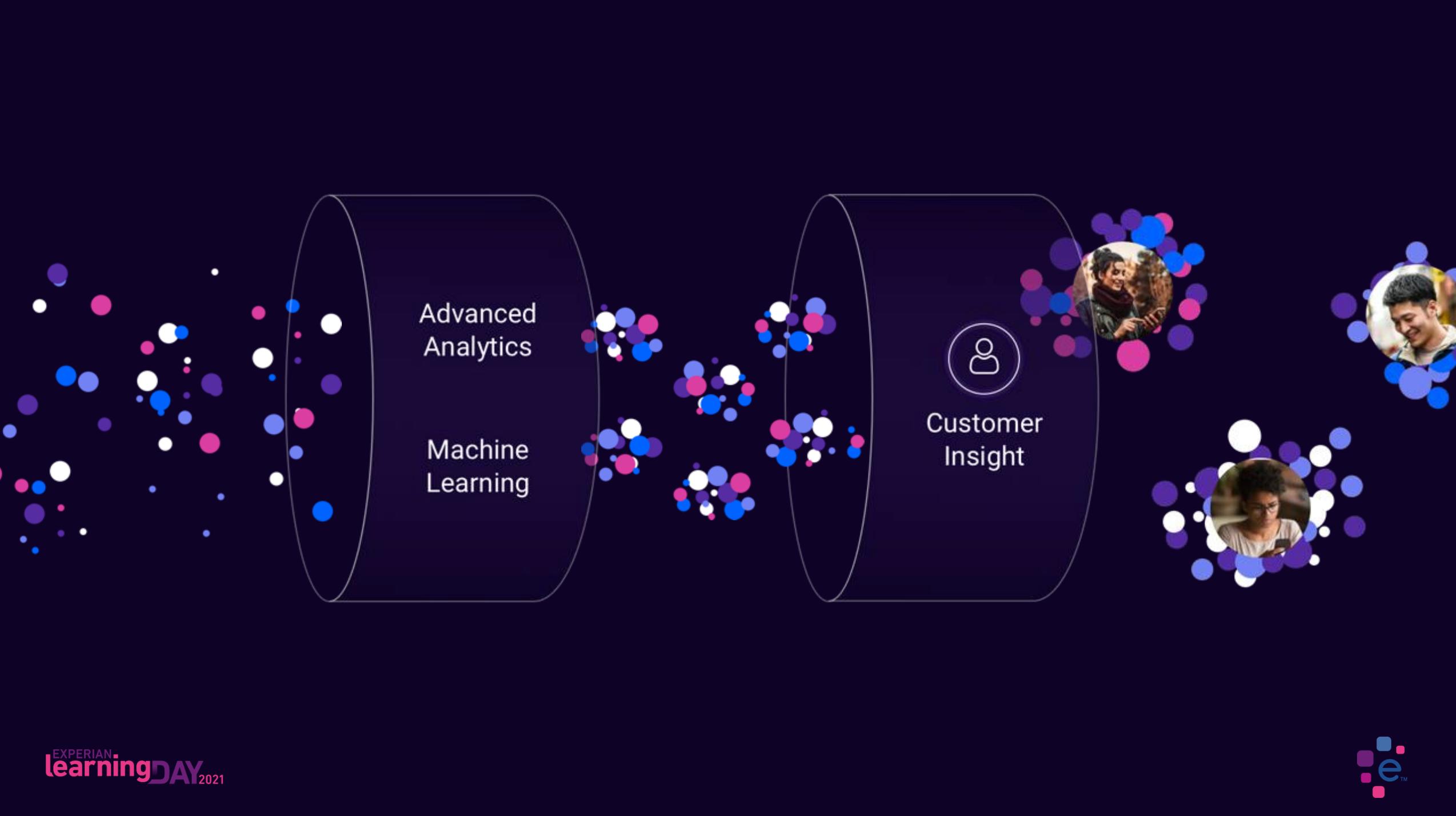
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How can Experian help?









Advanced
Analytics

Machine
Learning



Customer
Insight



Customer
Insight



High risk, high value. Move
to Debt Recovery Agent.



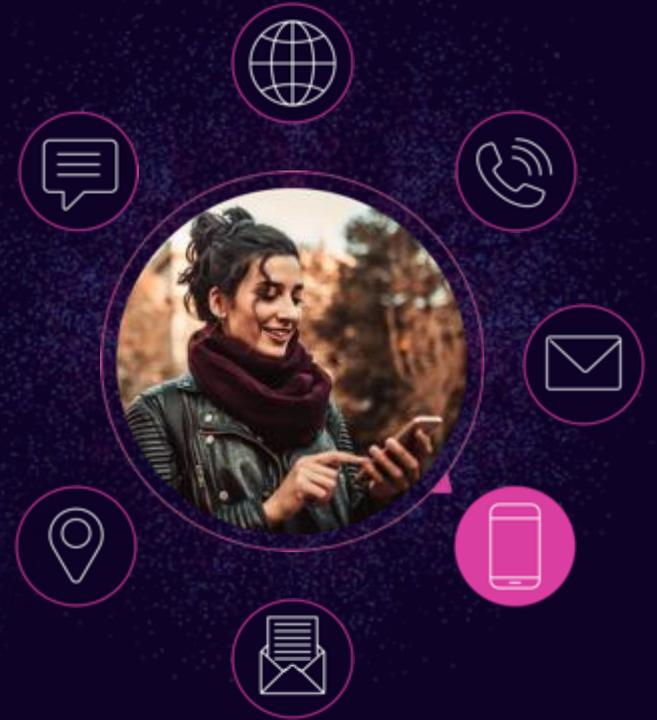
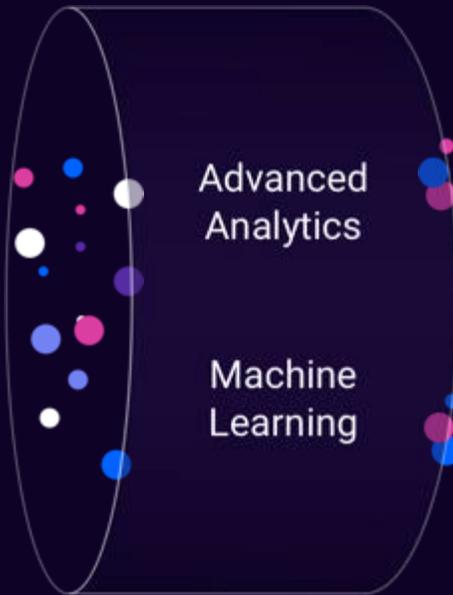
High loan value, reduced
income flag. Early
Contact Strategy.



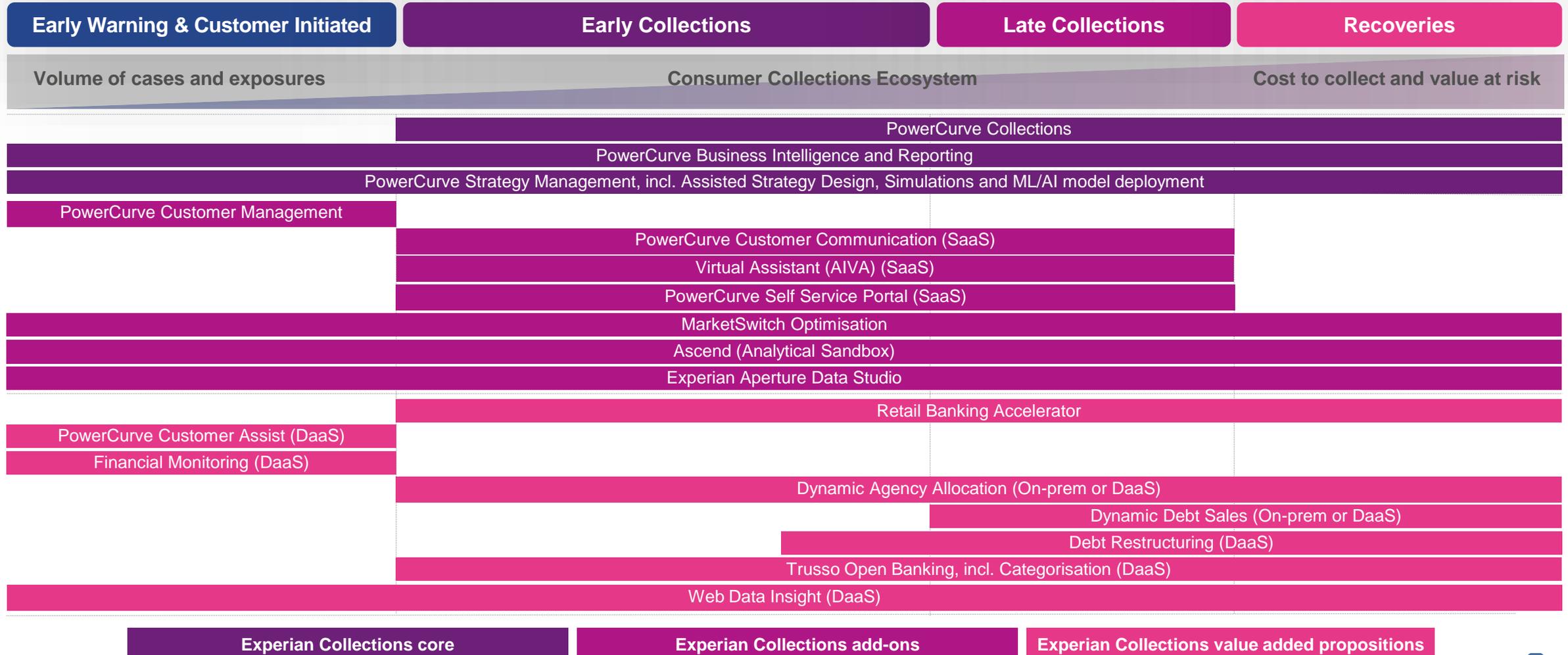
Low risk, high propensity
to pay. Email & self-service.



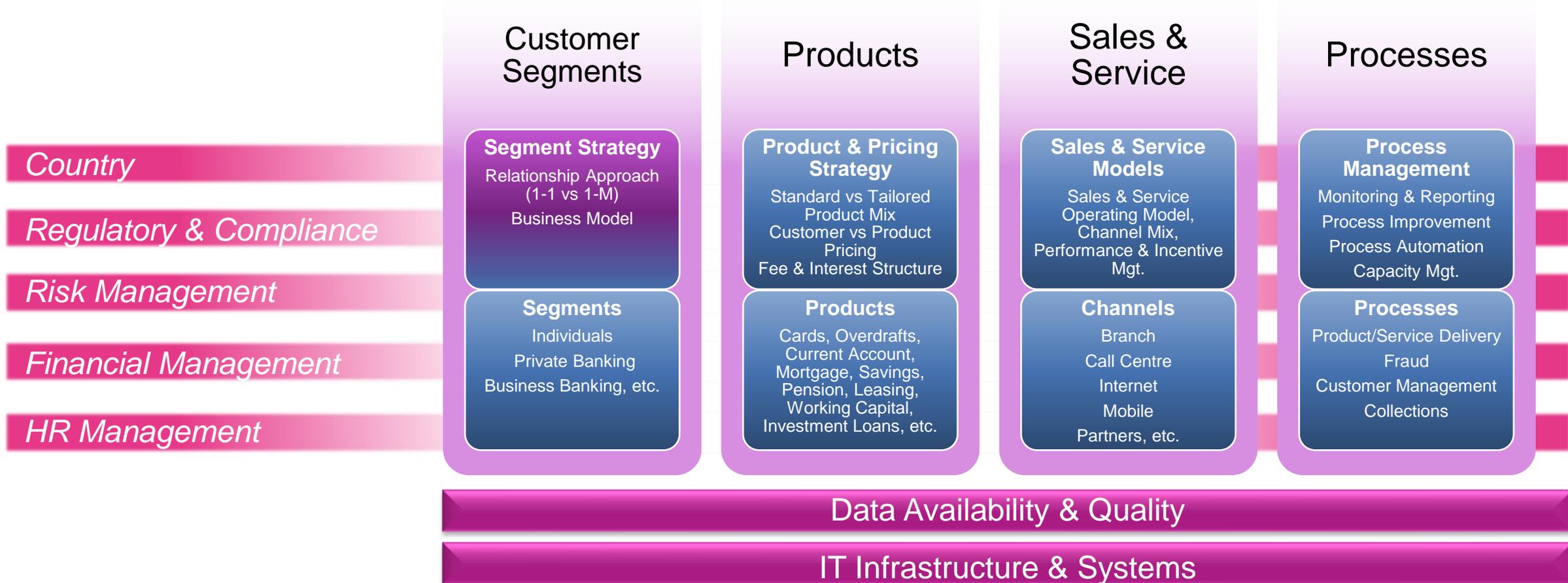
Our automation software helps deliver a superior collections journey



The technologies are already here, and Experian helps various bank in their digital collections journey....



A good digitization journey, starts with a good understanding of collections and its dependencies...



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Covid-19 Impact on Nordics Credit Activity and Future Expectations from Experian's Point of View



Buse Hanci

Business Consultant
Experian



The consequences of Covid-19: The worst is still to come for some sectors, while the new normal is already the normal for others



This presentation is around the status of the market and provides our perspective on the banking environment in the near future

What is the economic situation in Nordics as of today?



What have we learned from the last one year during the lock-downs?



Credit activity



Asset quality



Changing spending behaviors

What will happen next?



The lockdown has had a massive economic impact on many industries. GDPs of the Nordic economies has decreased, and unemployment rates increased in 2020

Different than 2008-09 financial crisis

In 2009;

In Norway:

Unemployment 3,2%, GDP growth -1,7

In Denmark:

Unemployment 6%, GDP growth -4,9

Better performed than UK & many European countries' economies BUT

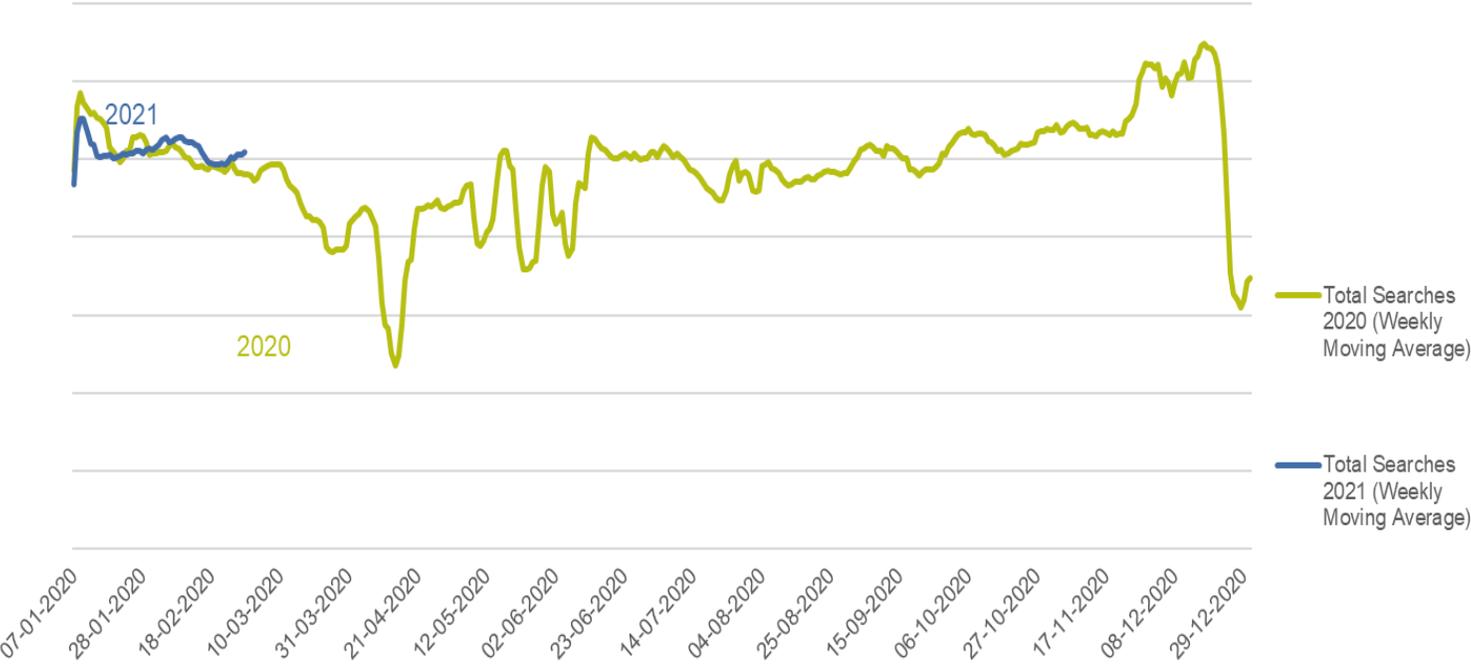
High export volumes with UK & Germany

Economic Statistics	Denmark	Norway	Sweden	Finland
Annual GDP growth (%) in 2019	2.8	0.9	1.4	1.3
Expected annual GDP growth (%) in 2020 pre-Covid-19	1,5	1,9	1,1	0,9
Annual GDP growth (%) in 2020	-3.3	-0.8	-3.0	-2.9
Expected annual GDP growth (%) in 2021 as of Dec 2020	2,9	3,7	3	2,2
Unemployment rate (%) as of Dec 2019	3,7	3,9	6	6
Unemployment rate (%) as of Dec 2020	4,4	5	8,2	7,8

* GDP growth levels: National Statistical Offices
Registered unemployment rate: <https://tradingeconomics.com/>

Credit activity* in Denmark - New normal or just normal?

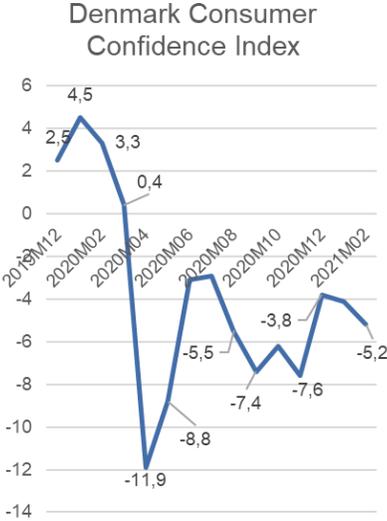
Credit enquiry volumes have a sharp fall in December due to an expected fall due to the Christmas holiday. From the beginning of 2021, credit enquiries have been at the same levels with pre-Covid-19 time



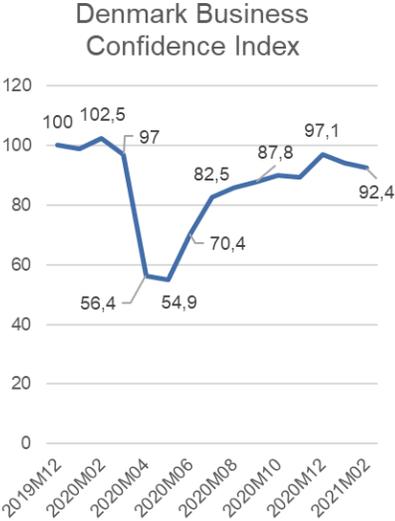
*Credit activity = RKI searches

Covid-19 impact on credit activity in Denmark

- High impact after mid-March after the lockdown
- After May 2020, with gradual openings, recovery started
- Not shocking impact of 2nd lockdown on credit activity

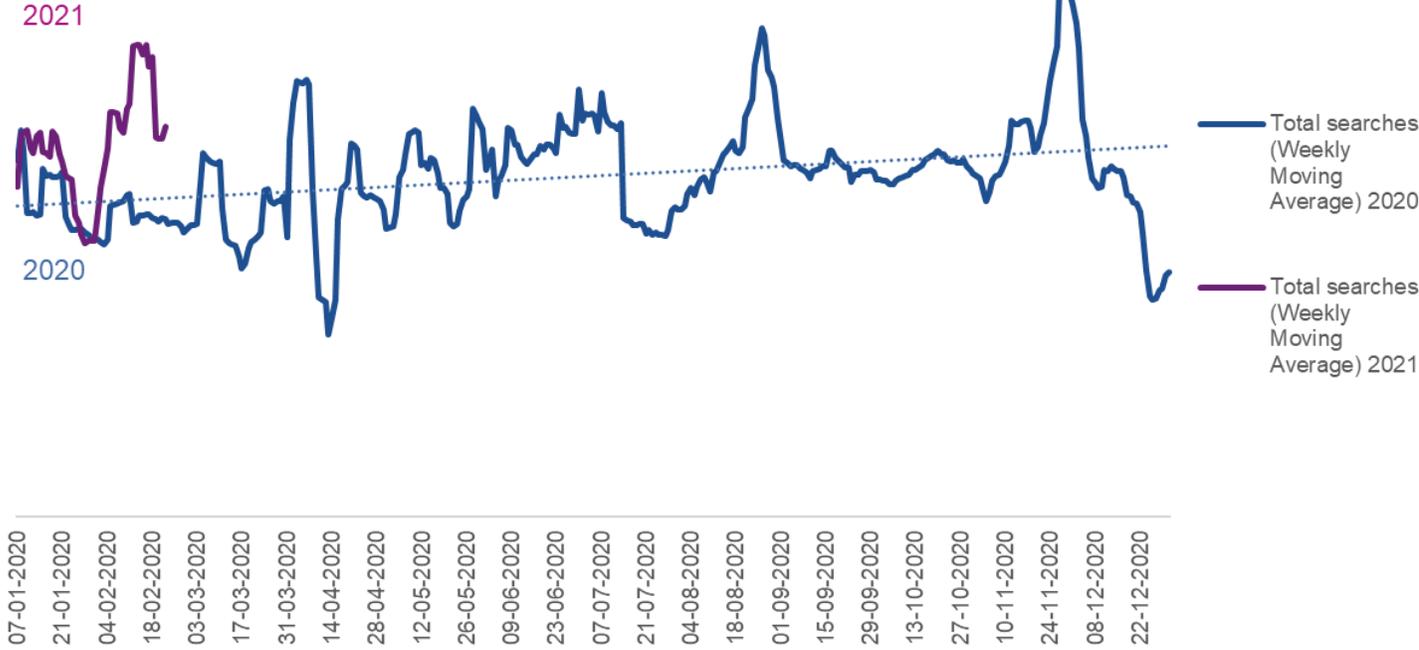


*Danmarks Statistik



Credit activity* in Norway - New normal or - even better?

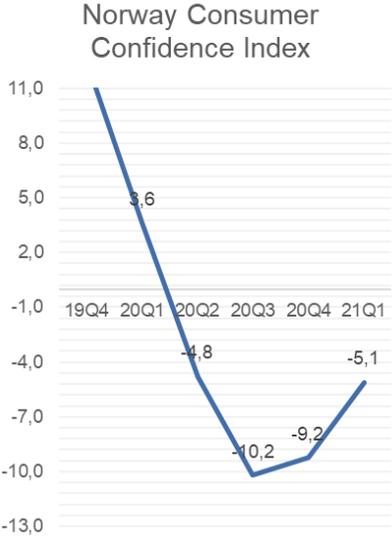
Recovery in the credit activity is mostly supported by fast adaption of the stores to online shopping and mobile payment with the help of payment providers



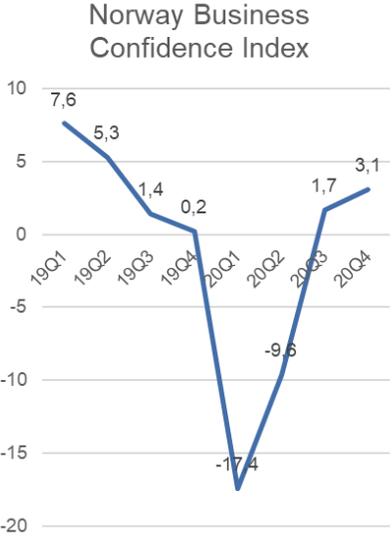
*Credit activity = RKI searches

Covid-19 impact on credit activity in Norway

- Sharpest decline following the lockdown measures enacted 13th March
- E-commerce effect
- Stricter restrictions in October & November and then December



*Business Confidence Index: ssb.no
Consumer Confidence Index: finansnorge.no

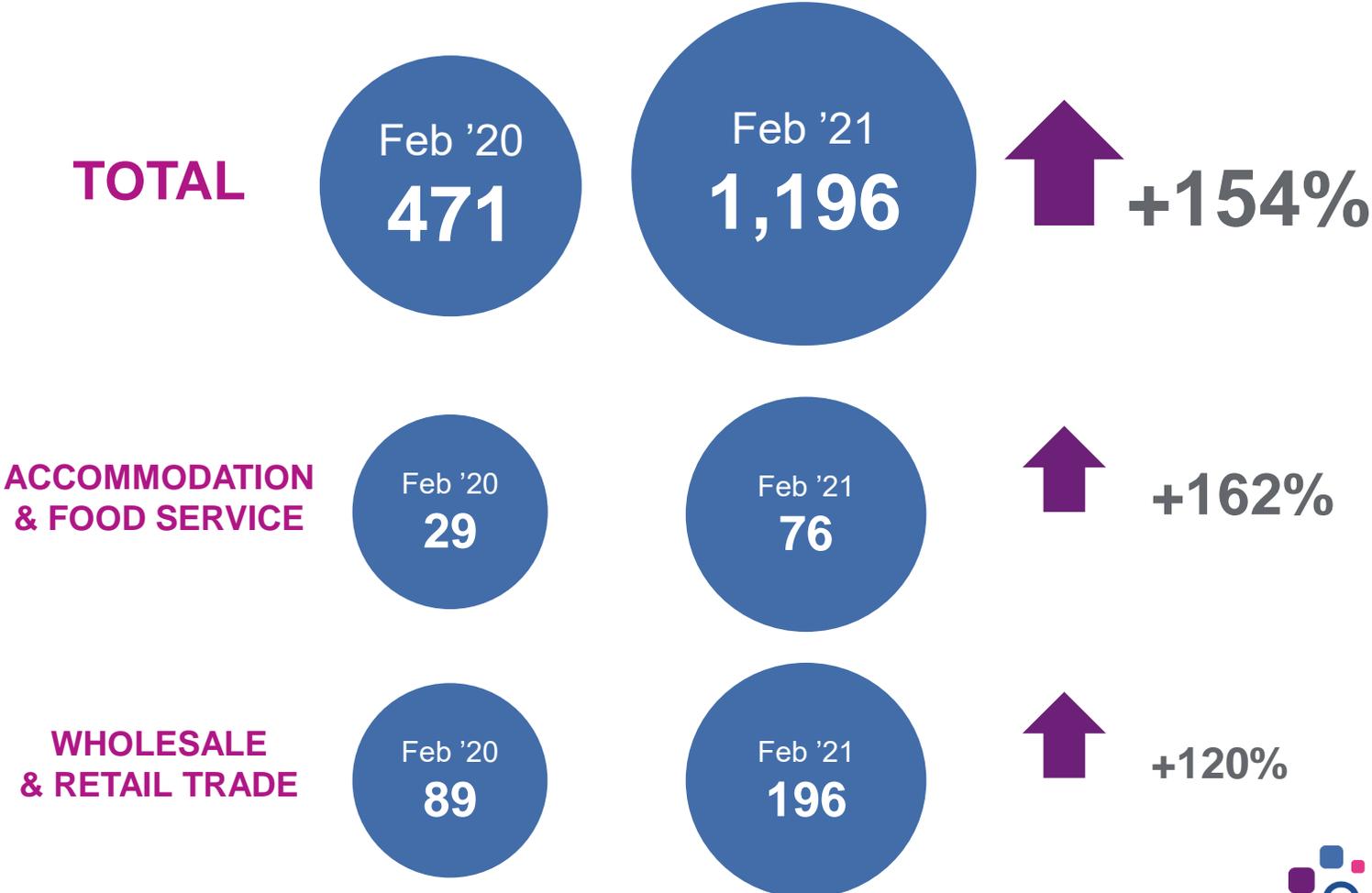


For Denmark, expected storm did not arrive but still some more expected bankruptcies will come

The total number of bankruptcies in February 2021 looks 1,5 times higher than the same month of the last year, **BUT**

IVS effect

- Nearly half of the bankruptcies were IVS
- High number of bankruptcies in January & February due to a shift in compulsory dissolutions in October last year - failure to submit accounts
- Mostly the companies with no employees and only limited revenue
- 212 declared bankruptcies in February among active companies - 7.2 % fewer than in January



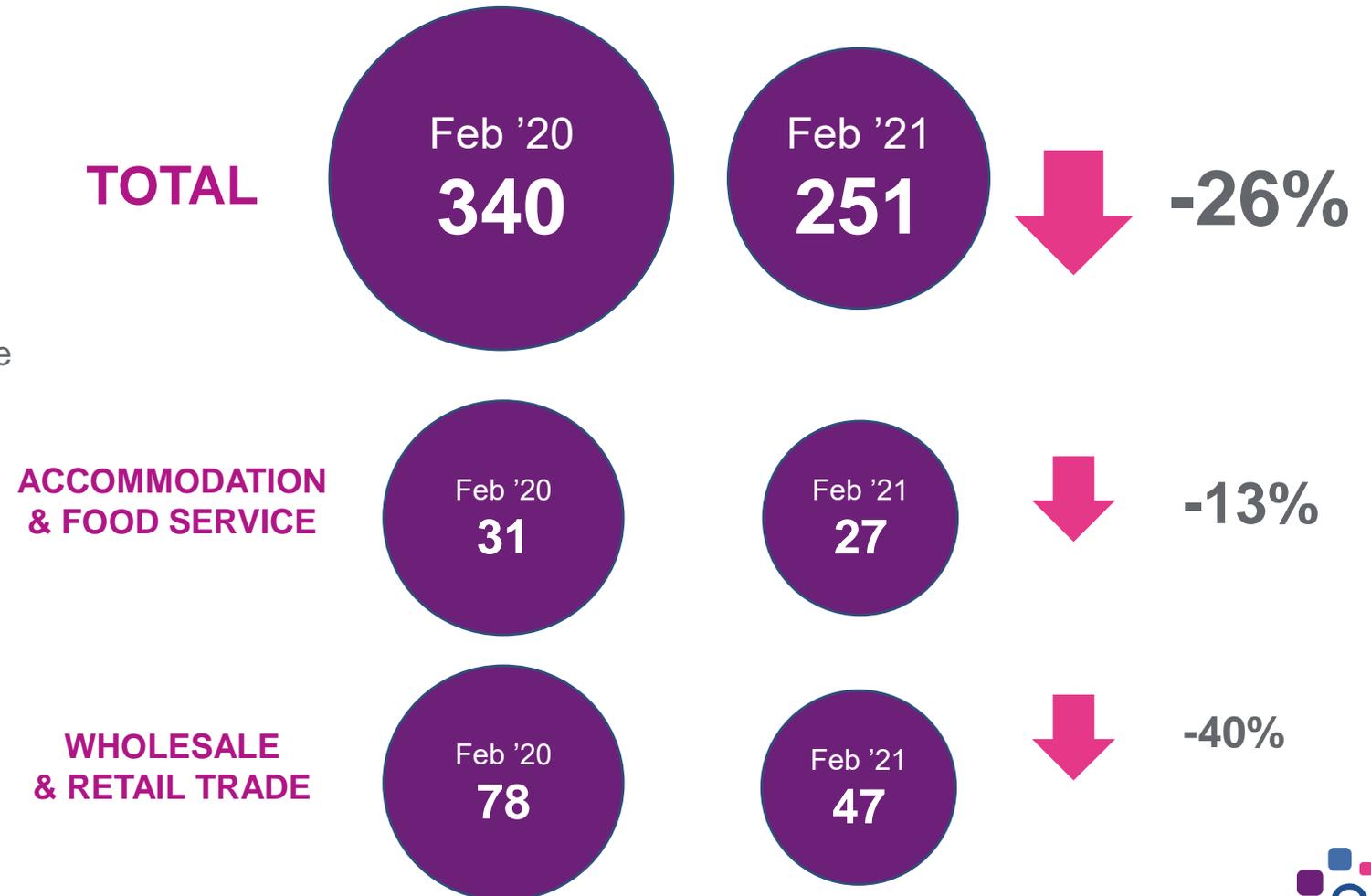
For Norway, decreasing trend in bankruptcies continues. Is it at its “to-be” levels or is the impact postponed?

1 Deferred payments for tax and fees & delayed bankruptcy registrations

- Partly due to fewer bankruptcy petitions from the tax authorities due to deferred payment of taxes and fees
- If it is the case there should have been a spike in the bankruptcies by 50% compared to 2020

2 Or just government aid package impact?

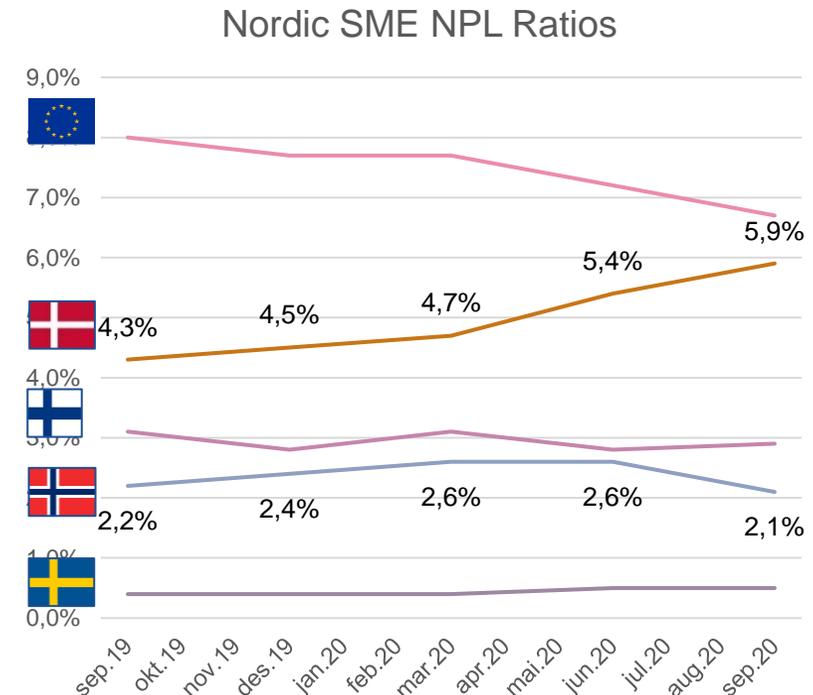
- A more moderate scenario is that to reach 2019 levels relatively quickly, and that bankruptcies will increase moderately through 2021. Which means an increase of approx. 25% compared to 2021



The full impact of Covid-19 will expectedly put more pressure on the bankruptcies because non-performing loan (NPL) stock in SME portfolios in Denmark has an increasing trend

Denmark has the highest NPL levels among Nordic countries and still increasing

- 31% increase in NPL share in Danish SME portfolios – from 4,5% in Dec 2019 to 5,9 in Sep 2020
- In Norway the increase in SME NPL share in SME portfolios continued until 1st half of 2020 then it dropped to 2,1% in Sep 2020.



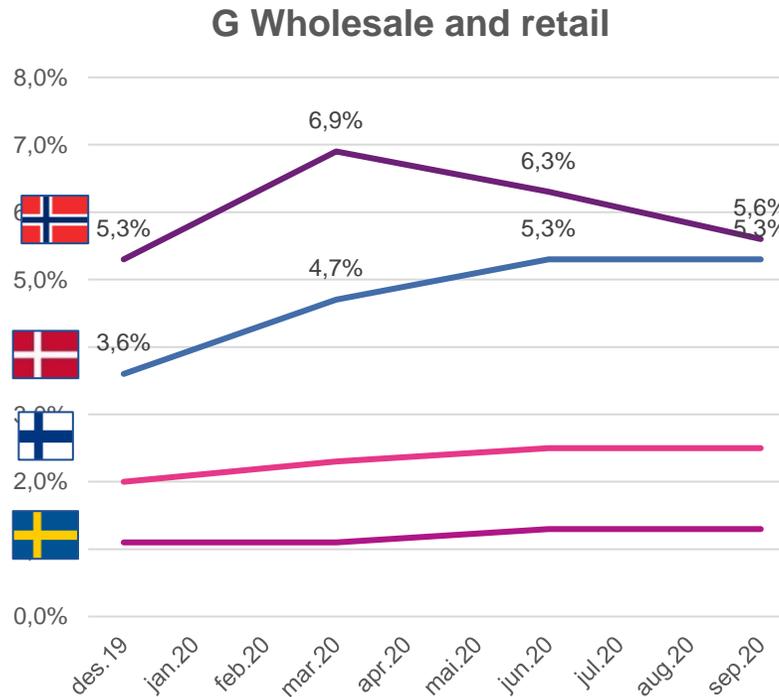
*EBA Risk Dashboard Q3 2020

Sector matters

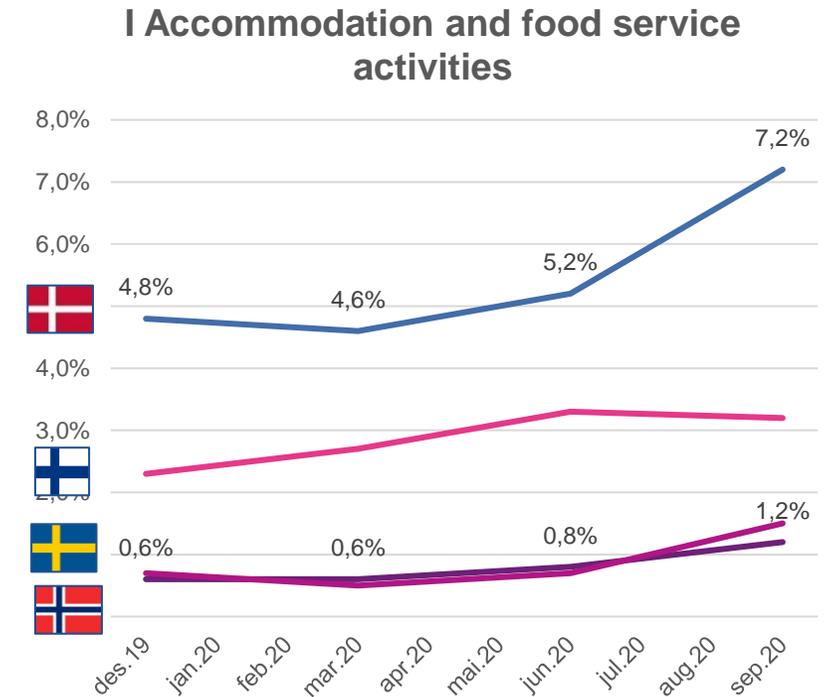
The performance of the loans differs among sectors and among countries

Hotels and restaurants are clearly struggling in Denmark

- In Norway, NPL levels of wholesale and retail sectors' loans started to get improved after March 2020
- In Denmark the increase in NPLs has flattened after June 2020
- Government measures have an impact on sector specific performance.



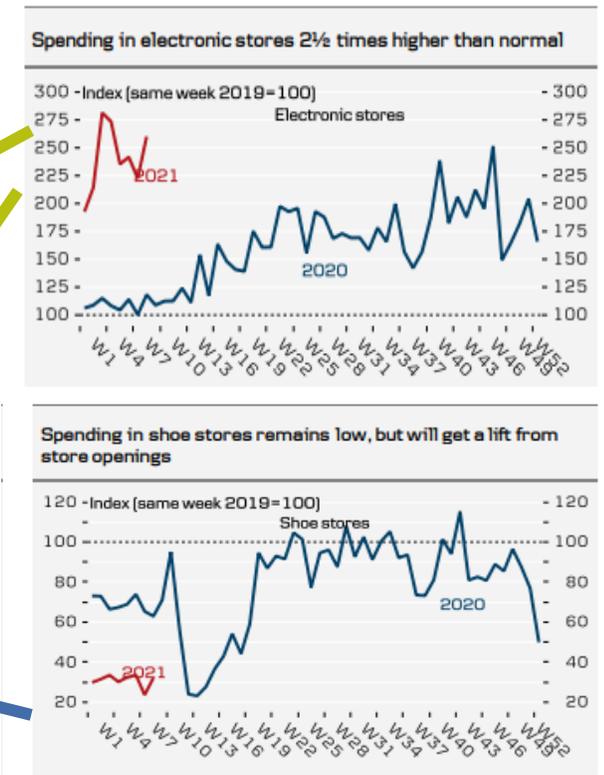
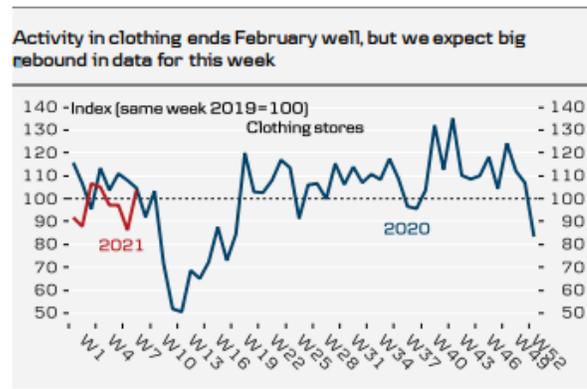
*EBA Risk Dashboard Q3 2020



*EBA Risk Dashboard Q3 2020

We need new clothes and larger screens for Zoom meetings, but we don't need shoes for home office

According to Danske Bank Spending Monitor reports, spending patterns have been also shaped by Covid-19 outbreak



What will happen next?

For example, in Denmark, governmental actions on tax schedules, liquidity injections with holiday money disbursements, uncertainty with positive expectations of completion of the vaccination, limited re-openings for certain sectors and regulatory measures define the agendas of many companies as well as banking and financial institutions



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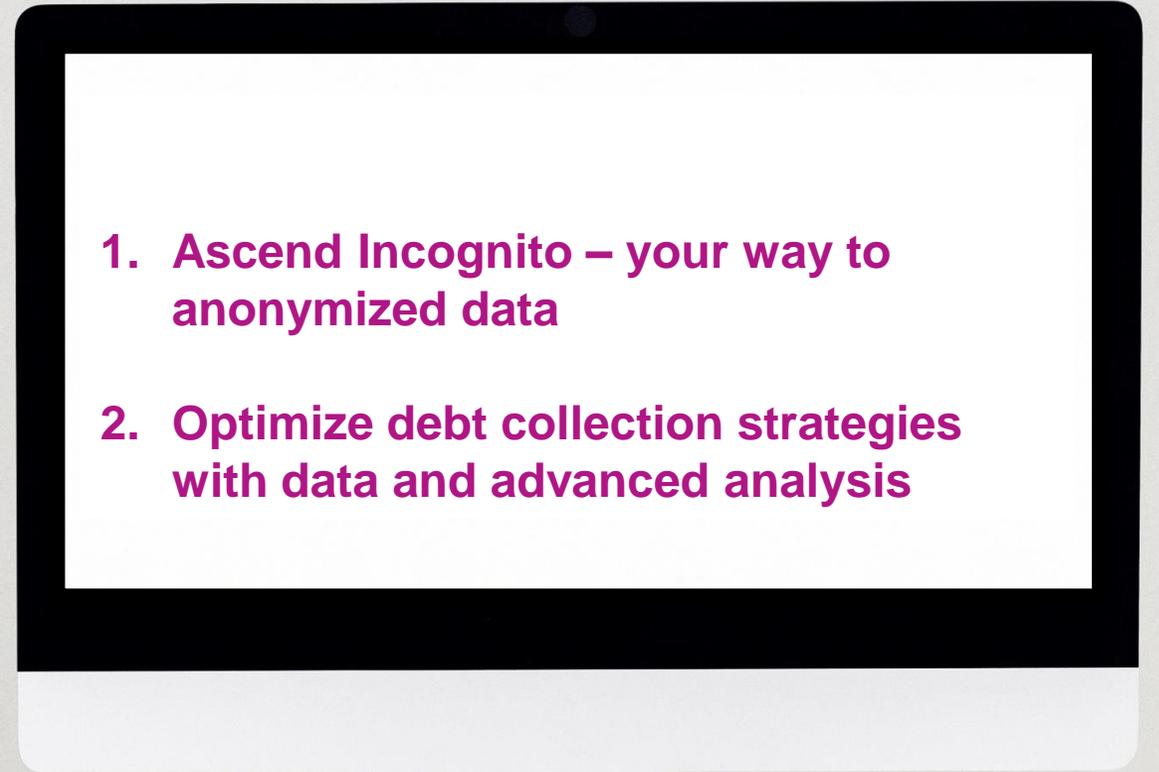
Kjell Tofte
Senior Product Manager
Experian Norway



Martin Haraldseth
Analyst
Experian Norway

Agenda

1. **Ascend Incognito – your way to anonymized data**
2. **Optimize debt collection strategies with data and advanced analysis**



Ascend Incognito – your way to anonymized data

Restrictions on the use of sensitive data

Limitations around use of sensitive data

Protection of sensitive data has been in focus for a long time, but sensitive data has great societal benefits, and not just in a credit context.

Should society not benefit from technology and solutions that can bring value in a safe way?

Experian has not previously been able to cover all the areas in which customers need help!

We have therefore started a large project that can utilize anonymized data within several strategic decisions.

This could be a starting point for being able to offer more data that is secured via anonymization

Everything is about data and solutions

By using methods for anonymization, we open the possibility of using data that is normally limited in the first place.



The **Ascend Incognito** is the **gateway** for our clients to **utilize** otherwise **restricted data** and **deep insights** from our **credit bureau**.

By anonymizing our bureau data, we **comply with regulation** and **enable our clients to draw the benefits and insights** from it.

Accelerating time-to-decision for our clients through use of anonymized data and analytically platforms that have the right functions is more crucial than ever.

Some possibilities

Anonymised data for unique insight

- ✓ *There are many possibilities and below are some of them.*
- ✓ *There is no answer that is wrong as it is the customer's needs that cover the focus we need to have.*

Initial risk categorization

Reduce cost

Trends

Minimal Consumer information

Customer behavior over time

Risk concentrations

Minimize time for decision

Monitoring and validation

Future needs

Customer feedback

We have already received some feedback and interest from several customers:

We are interested in using as much data as possible, including data that normally requires notification letters that can be submitted anonymously.

Interested in how we can do this according to the law and wanted us to get in touch when the solution was ready.

We believe that synthetically generated bureau data can help us identify the underlying trends in the market.

We see opportunities to use aggregated bureau data to identify appropriate actions in the early stages of the debt collection process.

What is the difference between Ascend and Ascend Incognito?

Analytisk verktøyboks

Cloudera DataScience
Arbeidsbenk integrert
som standard SAS &
H2O plug-inn muligheter



Ascend



SaaS-plattform

Hosted in the Cloud on
Experian's servers in
Frankfurt (AWS)



Data visualisation Interactive
mapping, charts and graph
capabilities with Microstrategy

**Upload your own
data**



Client

Send your own data as a batch to Experian,
for application of anonymized aggregated
data before uploading in Ascend.

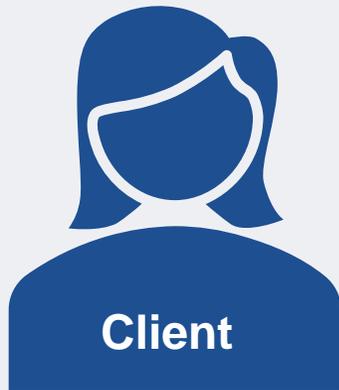
Experian uploads customer data with
the desired aggregated data.
Experian can also upload Synthetic
"stand-alone" database for model /
score / report options.

Incognito
Anonymization of relevant
bureau data

Ascend Incognito can also be delivered as a separate stand-alone solution

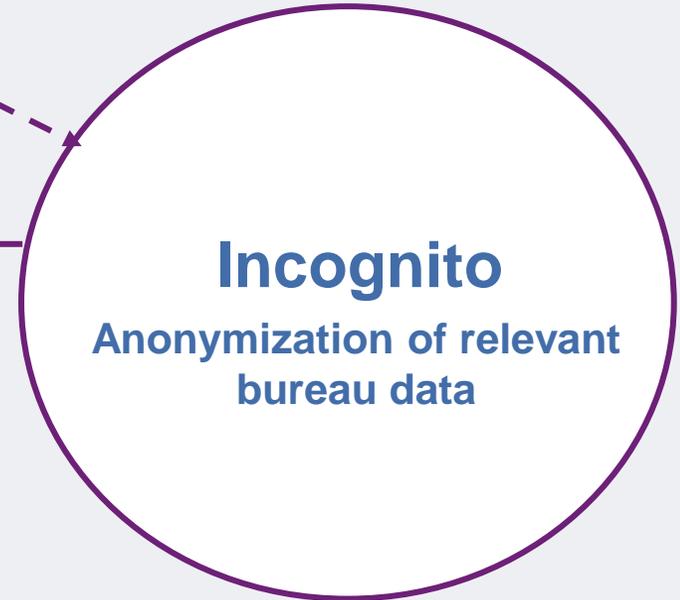
1

The customer sends their own data in batch to Experian to compare with anonymized aggregated **bureau** data



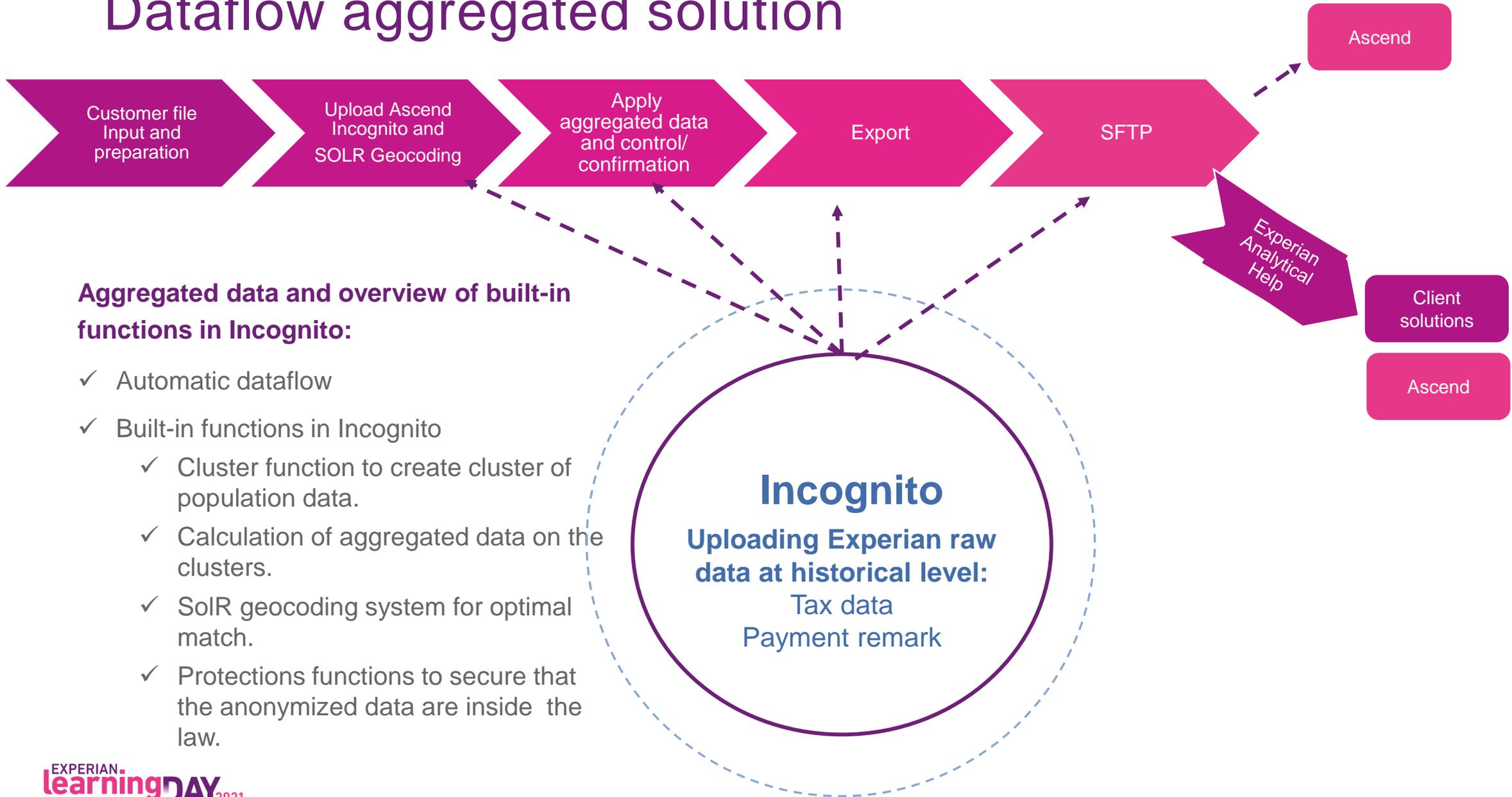
2

Experian returns analysis output, including desired variables.



Future goal is to include this type of data in other services. An alternative solution is today a flexible anonymization engine for applying data.

Dataflow aggregated solution

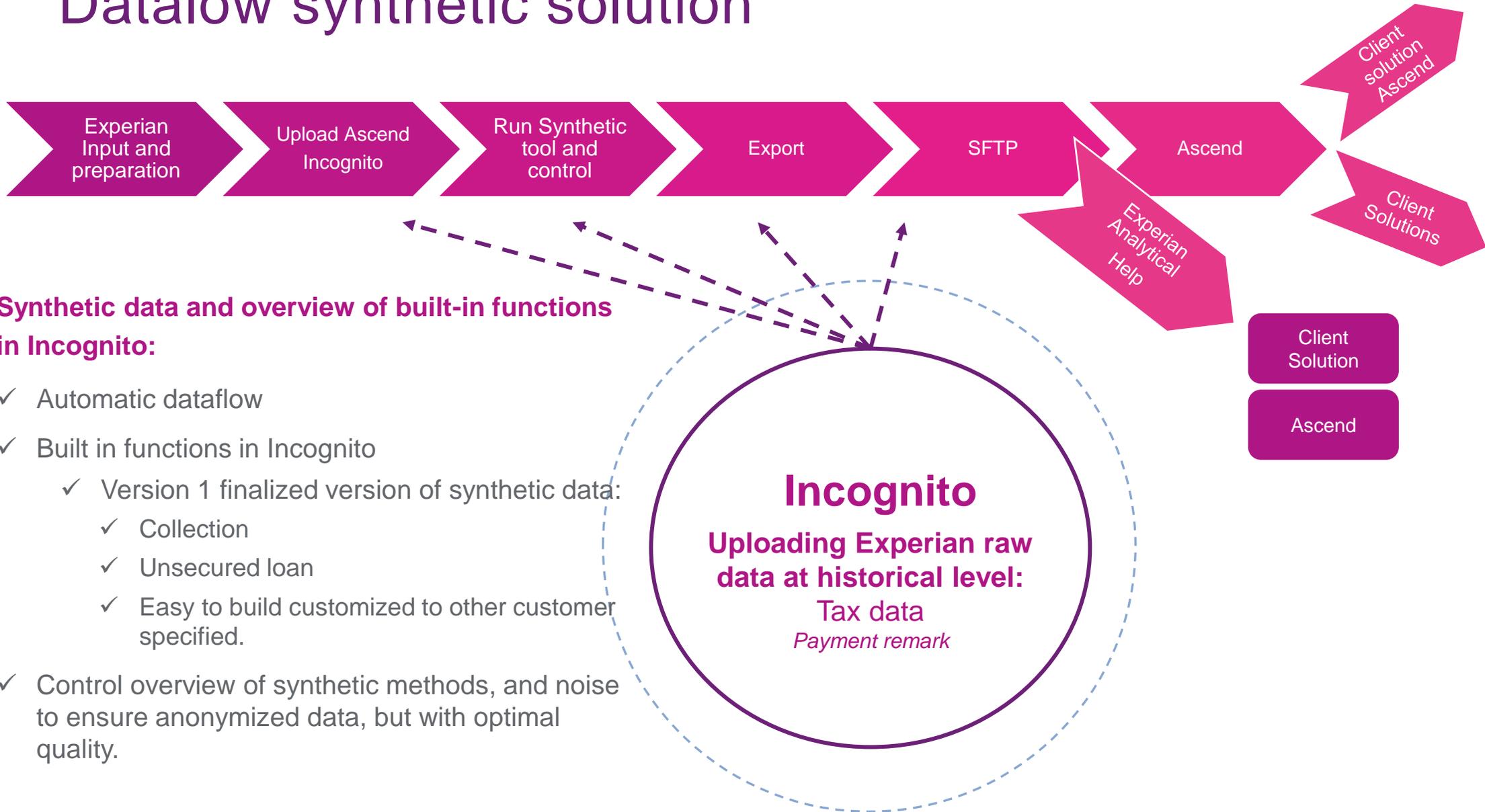


Aggregated data and overview of built-in functions in Incognito:

- ✓ Automatic dataflow
- ✓ Built-in functions in Incognito
 - ✓ Cluster function to create cluster of population data.
 - ✓ Calculation of aggregated data on the clusters.
 - ✓ SolR geocoding system for optimal match.
 - ✓ Protections functions to secure that the anonymized data are inside the law.

Incognito
Uploading Experian raw data at historical level:
Tax data
Payment remark

Datalow synthetic solution



Synthetic data and overview of built-in functions in Incognito:

- ✓ Automatic dataflow
- ✓ Built in functions in Incognito
 - ✓ Version 1 finalized version of synthetic data:
 - ✓ Collection
 - ✓ Unsecured loan
 - ✓ Easy to build customized to other customer specified.
- ✓ Control overview of synthetic methods, and noise to ensure anonymized data, but with optimal quality.

Optimize debt collection strategies with data and advanced analytics

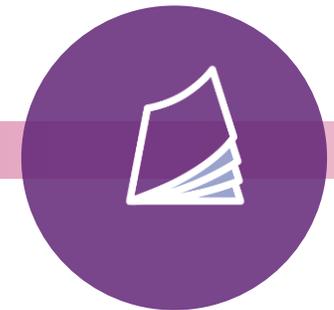
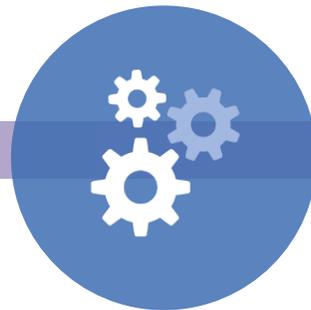
Data and decisioning

Client input

Experian as a datahub

Models and policy rules

Automized decision



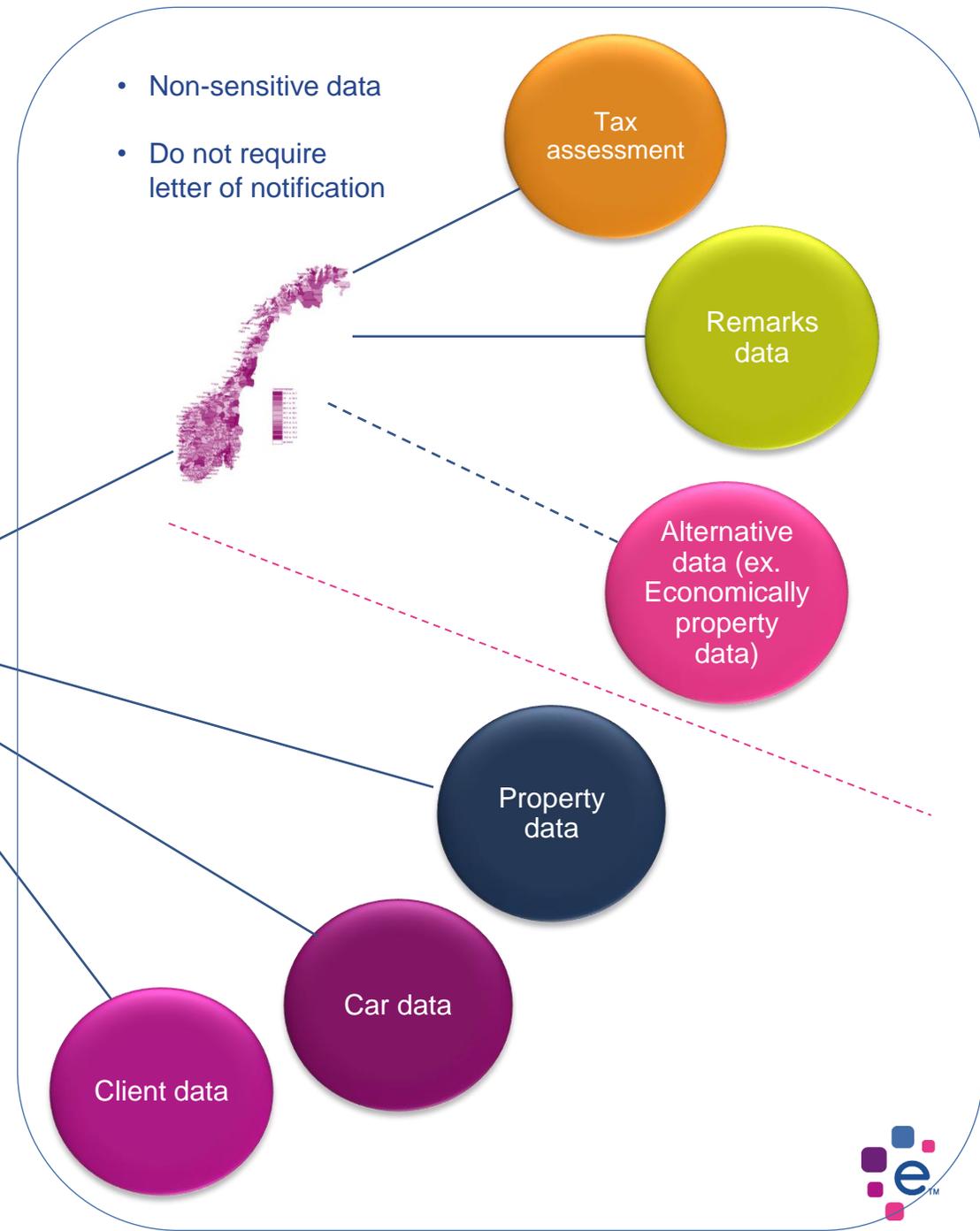
Client sends SSN

Experian returns data

Prediction and policy rules

Recommended decision

Data sources



Utilization of aggregated data

- Main purpose of **aggregation** is to maintain insight that distinguish between high and low **risk** while ensuring **anonymity**
- **Aggregated bureau information** on cluster level (geography X age group X gender) can be joined with client data and non-sensitive 3.party data in a data set.

Input data						
Name	Address	Postal code	Place	Age	Client Variable 1	Client Variable 2
Bruce Lee	JKDtoppen71	0585	Oslo	28	1	Yes
Ola Nordmann	Norge 1	1412	Sofiemyr	54	2	No

Cluster_ID	Age group	NET_INCOME				TOTAL_TAX				NET_WEALTH				Net_income growth median	% of pop with payment remark
		25th percentile	median	75th percentile	mean	25th percentile	median	75th percentile	mean	25th percentile	median	75th percentile	mean		
1234	18-38	130,000	244,000	345,000	260,000	40,000	80,000	116,000	86,000	0	0	3,000	110,000	7,22%	5,01%
5678	39-58	206,000	314,000	442,000	380,000	69,000	105,000	160,000	135,000	0	0	30,000	345,000	2,33%	4,81%

Debt collection strategies

Simplified example of the process

More data combined with advanced analytics optimize decision making and internal resource allocation

Today's situation



Improved decision making by **utilization of aggregated data**



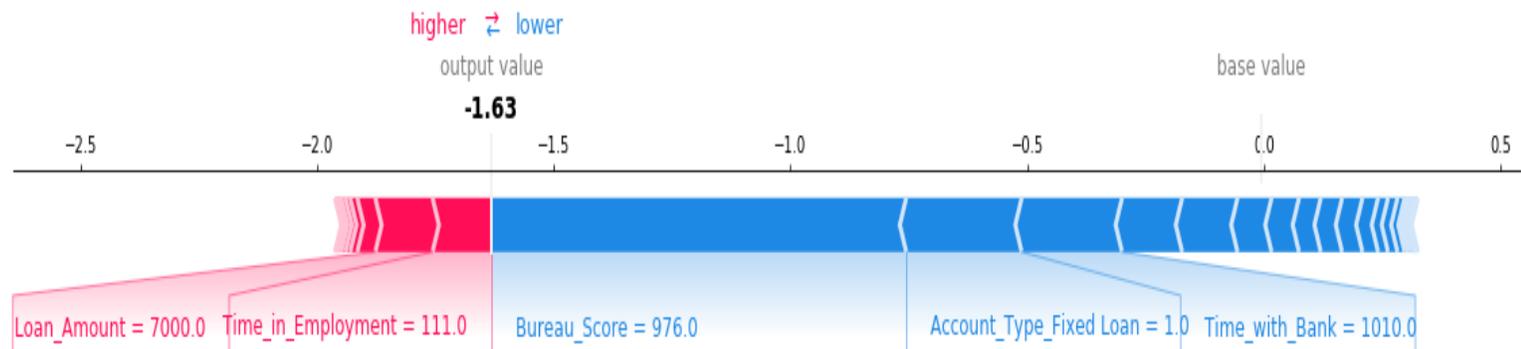
Machine learning models

XGBoost with focus on explainability

Characteristics	Weight	Gain	Cover	Total Gain	Total Cover
<u>Bureau Score</u>	36	223,75	3413,18	8054,96	122874,57
<u>Time with Bank</u>	28	60,00	2295,92	1679,98	64285,70
<u>loan to income</u>	26	35,43	2311,05	921,10	60087,18
<u>Account Type Fixed Loan</u>	17	79,90	3054,69	1358,24	51929,79
<u>Number of Payments</u>	21	42,72	2213,18	897,05	46476,79
<u>Loan Amount</u>	19	28,59	2331,68	543,22	44301,94
<u>Gross Annual Income</u>	17	23,11	2008,14	392,91	34138,30

XGBoost is not a “black box”

- Automatic report of variable predictiveness
- Graphical representation of the strength of variables

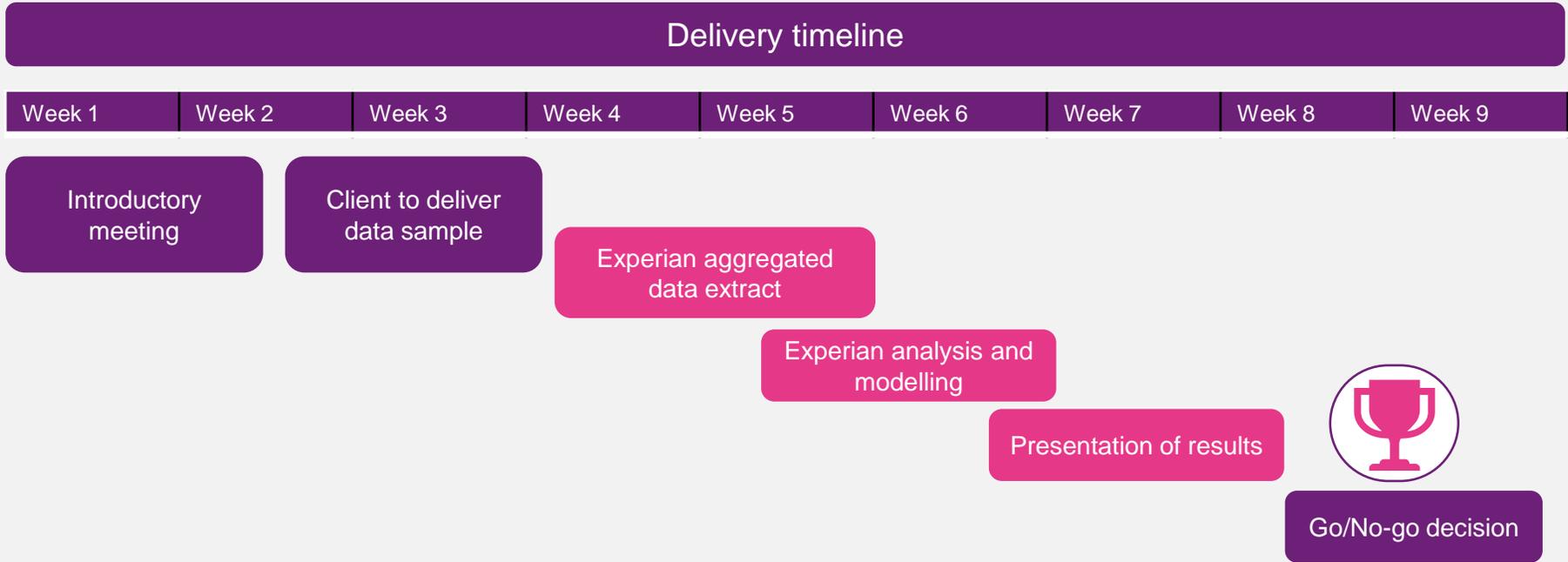




Explore the value of anonymized data in just 2 months

Client input

Experian



Align on purpose and data format
How has clusters been created?

To append anonymized data, date of birth or address is necessary. If utilizing age group then gender or address needed. If gender is not allowed by client, clusters can still be created.

Analysis investigates the performance and value added from the aggregation on the client's portfolio.

Delivery method / decision:
1: SFTP delivery
2: Ascend

