View on Consumer Lending trends in Europe

TFI event – Fairness in Consumer Credit Markets

Jan Dodion Lund, 09 May 2019



Topics for discussion today

- Developments in Credit standards, terms and conditions, and net demand for loans in the Euro area
- 2. Regulatory changes impacting household financing: GDPR and PSD2
- 3. The availability of Credit Bureaus in Europe
- 4. ING Risk's approach with regards to Lending to households: Alternative Data & Machine Learning



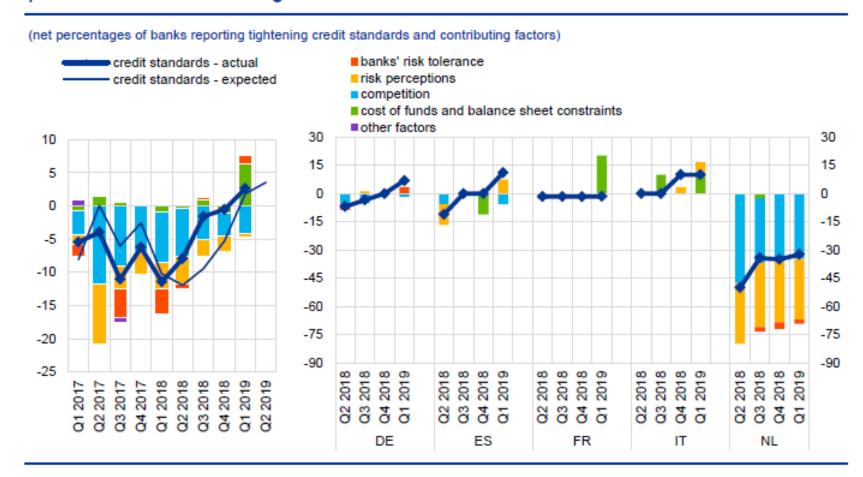
Developments in credit standards, terms and conditions, and net demand for loans in the Euro area

April 2019 European Central Bank lending survey



Housing loans: recent shift to tighter standards related to B/S constraints after long run of narrowing margins, higher reject rates, demand increase. Competition has big impact.

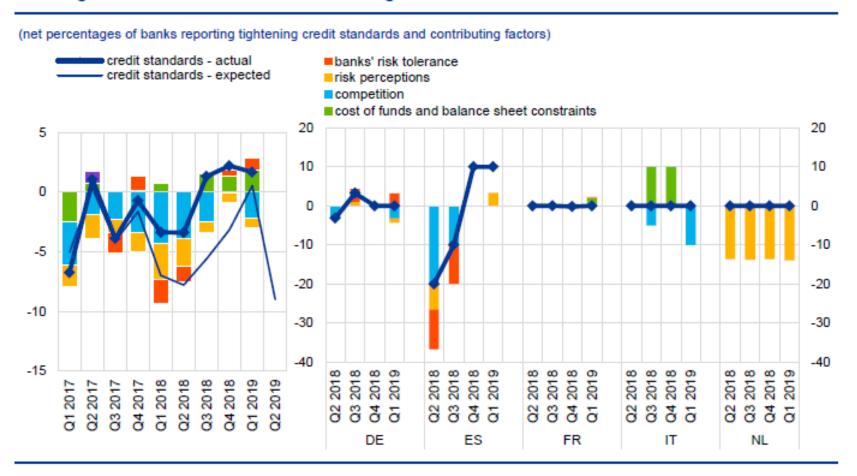
Changes in credit standards applied to the approval of loans to households for house purchase, and contributing factors





Consumer credit: similar trends, but margins continue to narrow. Recent drop in change in demand, but increase is expected.

Changes in credit standards applied to the approval of consumer credit and other lending to households, and contributing factors





GDPR and PSD2 are changing the European Consumer Lending Landscape

Data Ethics versus Innovation

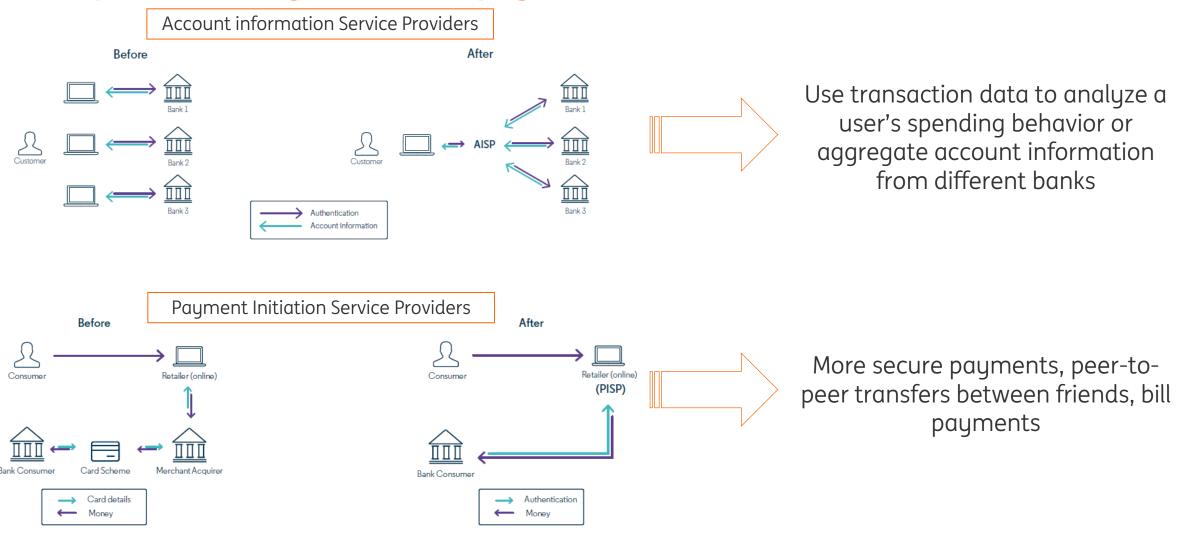


The use of data: GDPR and Data Ethics

- The GDPR raised the expectations on what is expected from companies in order to protect the data of their customers and employees.
- It required companies to be more in control of data processes and more transparent about what data is processed and for what reason.
- The expectation is that companies will differentiate themselves more and more by their "data promise": What are we doing with your data and more importantly what are we not doing with it?
- The fact that a bank has a utility function and holds what is perceived to be "sensitive personal data" must be taken into account in any data strategy.
- ING is a company with strong values and is recognized as such. Its philosophy and use of personal data must fit in with those values and this goes beyond compliance with the law.



PSD2 aims to improve innovation, reinforce customer protection and improve security of internet payments and account access within the EU





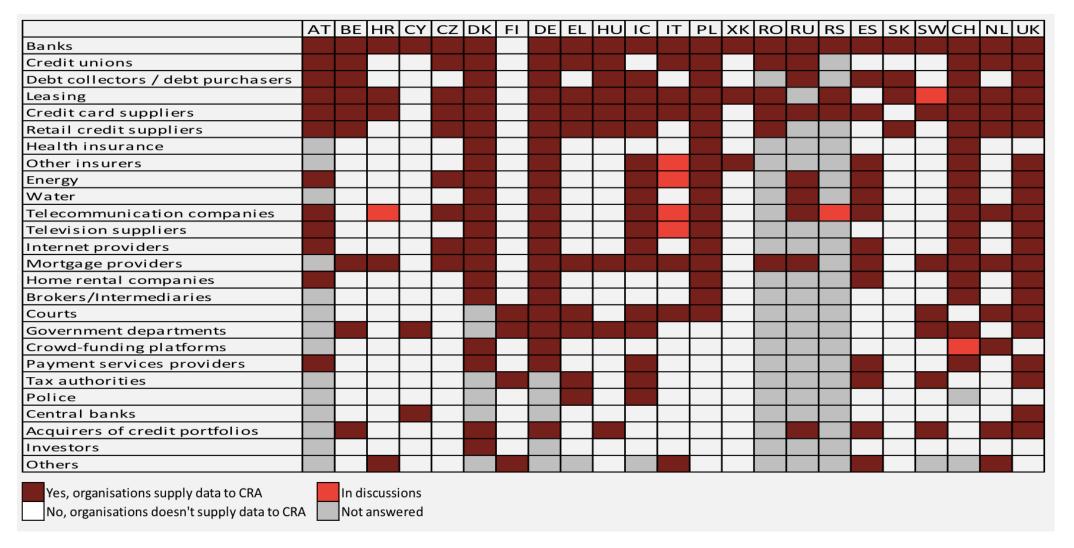
Credit Bureaus within Europe

A lot of diversity in European credit reporting space continues to exist, however with a trend to share more data

2017 Survey of ACCIS covering 32 members across 23 countries

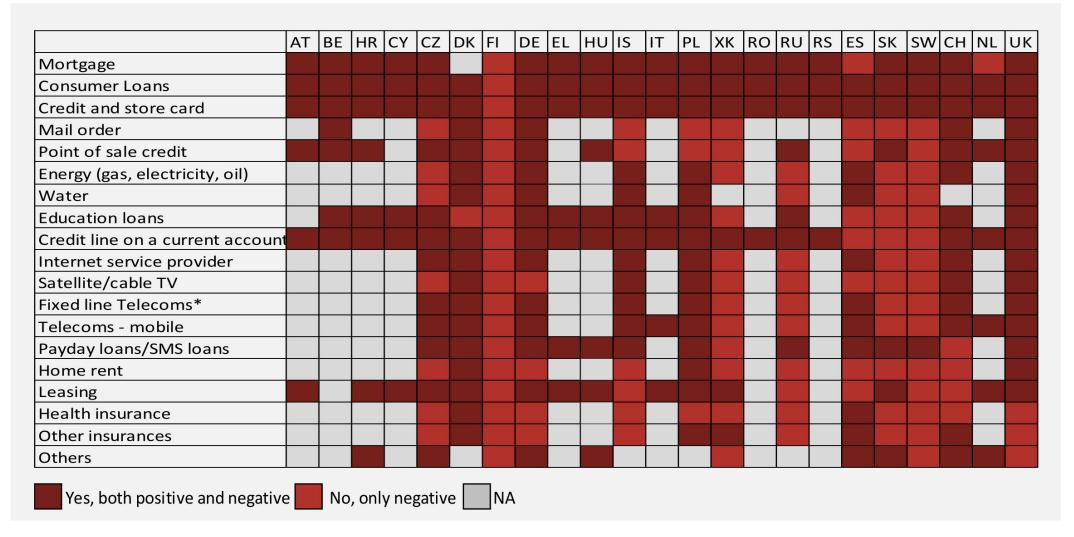


There remains potential for a greater supply of alternative data such as utilities and telecommunications



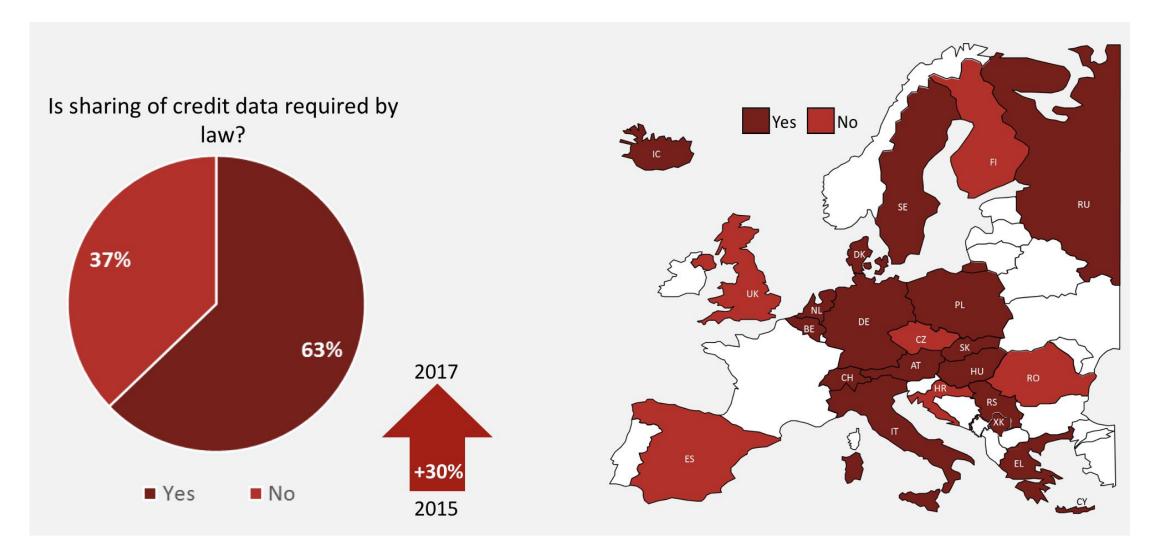


The depth of mainstream lending products is highest, however this varies significantly across the European Single Market



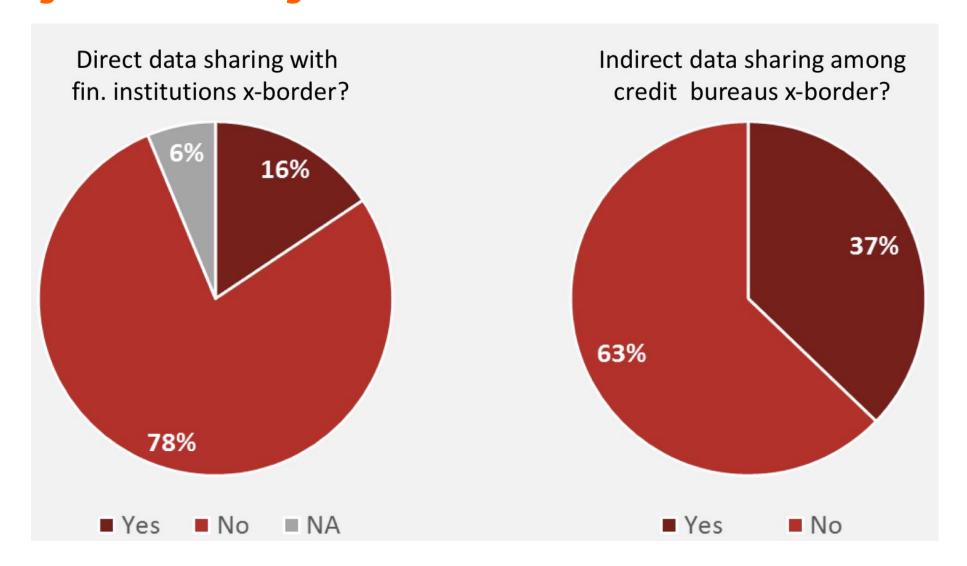


More and more European countries are making sharing of data a legal requirement





Cross border data sharing remains limited and has not shown any significant changes since 2012





ING approach to consumer lending

Data & Analytics as a driver for sustainable financing in line with consumer needs



Fit for purpose risk models are essential to create a competitive advantage for ING

Efficient and fast process

- Instant lending to non-ING customers
- Pre-approved loans for primary customers

Customer Targeting

Propensity models
Affordability models
Default models

Customer onboarding

Score card models Fraud models

Customer management

PD, EAD and LGD Early warning Collections Low risk costs

Starts with the 'right' customer



Application of new data sources, modelling methods and technologies crucial to develop better risk models

Data to develop better drivers

Transactional data Economic data Open data



For example:

Google adwords
Google search
Credit bureau
IFRS 9 data
Behaviour
Other bank accounts

Modelling methods to optimize estimations

Shortage of data points Model approaches New models



For example:

Reject inference Champion challenger Machine Learning

Technologies for better data calculation

Real time data



For example:

Real time processing of behaviour

- Traditional credit risk relies on linear models but we live in a non-linear world;
- More data can be processed resulting in a more granular and inclusive description of customer behavior;
- From the ING experience, Machine learning models achieve a 10% increase in performance compared to traditional models



Focus on TX models results in less bias and broader access to credit

3 Reasons to focus on transactional models

PSD2

Opportunity for new customers

Power of combining

Machine Learning with TX data

Existing customers
Better pre-approved and portfolio
management

High level flow for transactional data usage in lending

Get transactional data, both

Categorize transactional

Categorize transactional

Categorize transactional

internal and external

Categorize transactional data for multiple purposes

Develop credit decision models

Efficiency

- In addition to more traditional data sources:
 - Usage of other banking products (Credit Cards, Overdrafts...)
 - Repayment behavior of other loans where applicable
 - External information (Credit Bureau, Central Bureau of Statistics) data where applicable
 - Socio-demographic information about the customer



Risk Costs





Use Case: Instant lending to non-ING customers



The customer applies for the loan online





Credit decision based on the customer transactions

The customer provides credentials from his/her primary bank
Consent for ING to use the data

Request for data

Third party API

Transactions transferred to ING



Requirements:

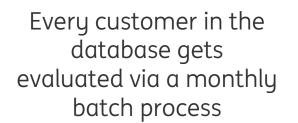
- Automated process
- Accurate process
- Fast process



Use Case: Pre-approved loans for primary customers









The loan is preapproved and the customers can access the money quickly

