

AGENDA

- Why data-based credit decisions?
- Data Quality Accuracy & Relevance
- Use of Data in the Credit Life Cycle
- Closing Remarks







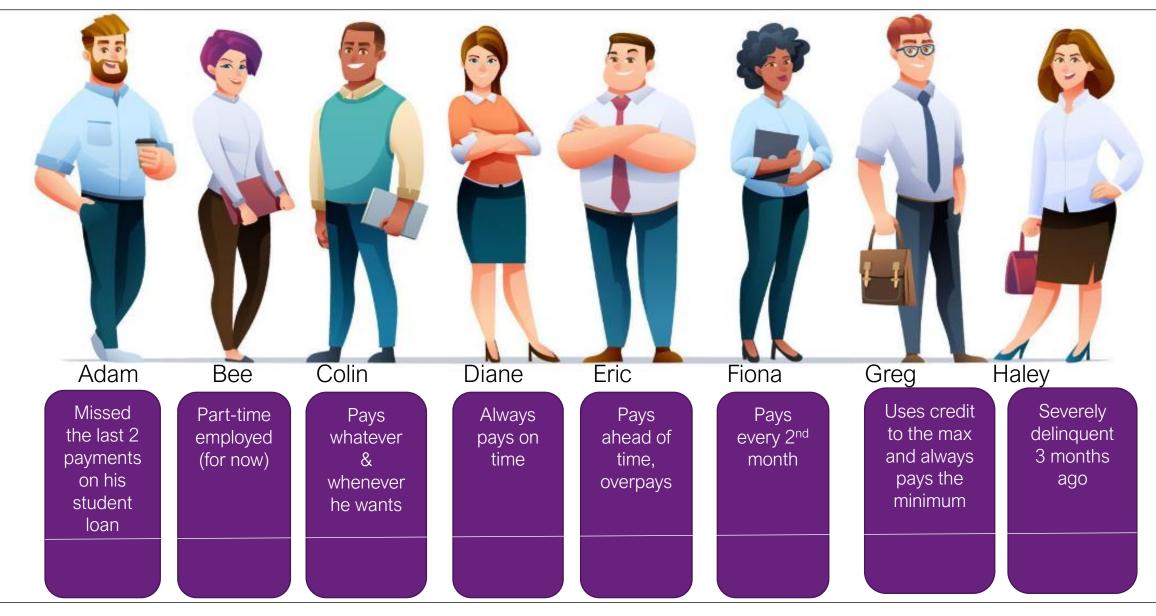




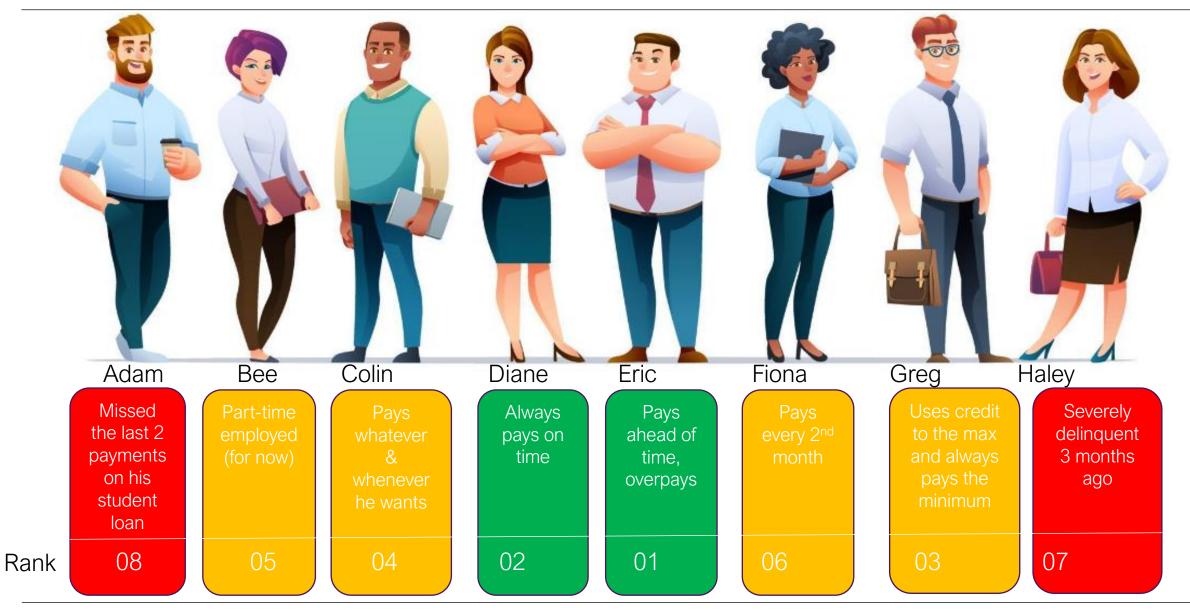


We need some data, right?









Why Data-based credit decisions?





- Objective, Independent & Consistent
- Accurate data enables
 - Decision automation
 - Scorecard developments
 - Random selections for strategy testing
 - Forecasting and KPI tracking
- Accurate data is a confidence builder

"Without data, you're just another person with ar opinion."

"In God we trust; all others bring data."

— W. Edwards Deming



Data Quality



"Data is the new oil. It's valuable, but if unrefined it cannot really be used. It has to be transformed into gas, and then it can drive real value "

— Clive Humby

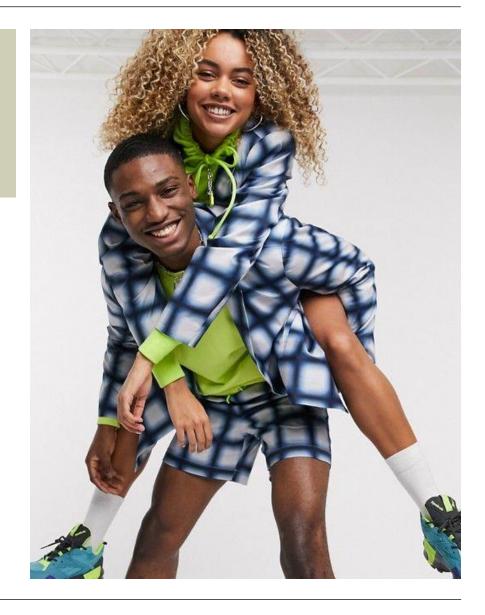
Data Accuracy



Data Relevance

- Trusted source
- Consistent
- Timeous
- Comprehensive

- Pertinent
- Valuable
- Insightful
- Decision navigator





Data Source example: Why do we get 25 customers?

PL System
20 Accounts
20 Customers

CC System20 Accounts15 Customers

Merged Data 40 Accounts 25 Customers



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Cust	Acct	# Accts
А	PL 123	1
А	CC 123	2
А	CC 456	3



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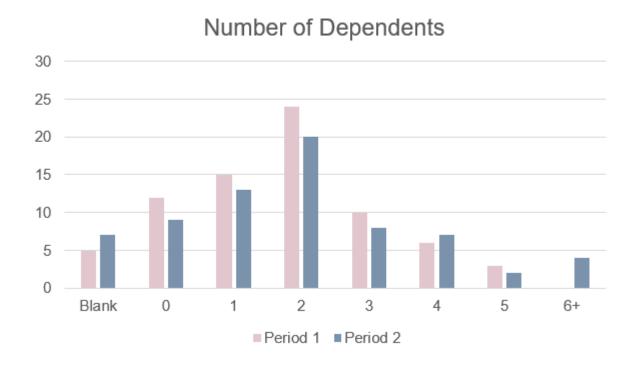
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Tips:

- Single source is best, auditable
- Know the uniqueness of record types & layers e.g.
 - Customer level
 - Product level
 - Account level
 - Card level
- Understand related business rules i.e. multiproduct holdings
- Document & creatively explain ©

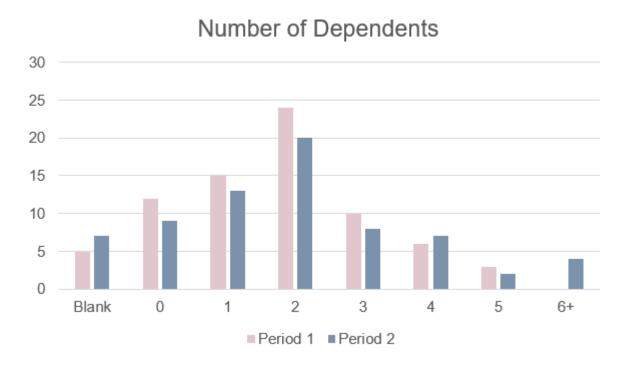


Data consistency example: Are we happy with Period 2's distribution?





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Well, we have to check a few things:

- What is "Blank"?
- Do Blanks = zero?
- Is the 6+ correct?

Tips:

- Fully understand operational processes especially where data is captured or amended
- Understand Categorical vs Continuous variables
 - Classing of outliers & strays
- Regularly check distributions of key decision and business metrics
- Understand missing and defaulted values
- Know seasonality and business cycles

Data Relevance: Is your existing data relevant?





- E.g. Home Tel / Work Tel ➤ Cellular ➤ Pre-Post paid ➤ Location services, Usage patterns ➤ what's next?
- Track key variables over time, including credit scores
- If you don't have the right data for informed decision-making... create it! Combine:
 - Commercial and credit risk understanding
 - Business process experience
 - Data analytics expertise
- Consolidate Financial, Risk, Consumer & Behavioural information to understand acceptable risk-return thresholds
- Optimise and model scenarios, targeting a given goal variable
 - Track the results
- Consider Champion-Challenger approach, i.e. run different tests under the same external circumstances





Conceptually

- Create representative test groups that are statistically random
- Decide the policy you want to test, different from your current policy
 - Either a different action or a different selection
- Set the KPI
- Decide the test appetite i.e. size, timing, duration and scale
- Deploy & track results

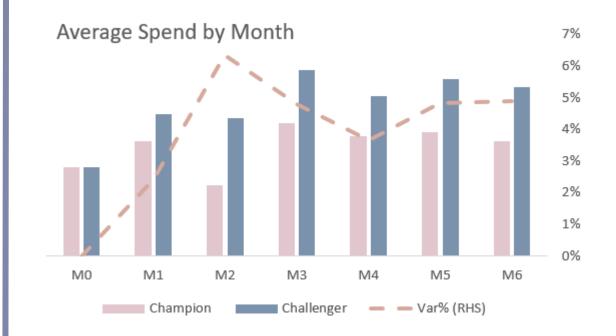


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Example: Increasing Customer Spend

Champion - Normal customer spend, no incentive offer Challenger - Spend incentive offered



Result

A spend incentive will provide a circa 5% uplift in spend

Data Relevance: Is your existing data relevant?





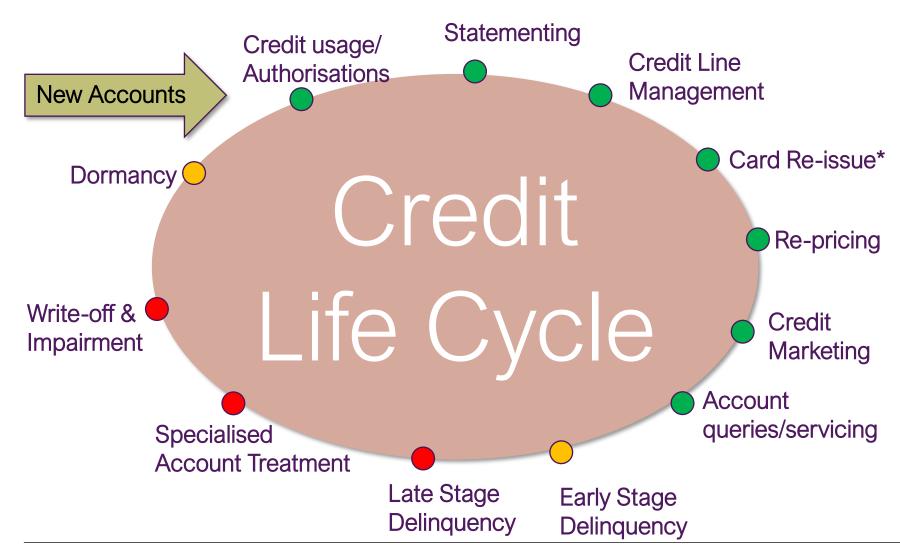
- Bureau data especially Payment profile data is generally stable to model expected credit performance
- Alternate / Unconventional data not a silver bullet & must be proven
- The right data enables better and more comprehensive business & customer understanding, which enables better strategic insights
- Understand whether the data is static/ dynamic or forward/ backward looking
- Review KPI's & targets, but stay true to the cause ©

"If you interrogate the data enough, it will confess."

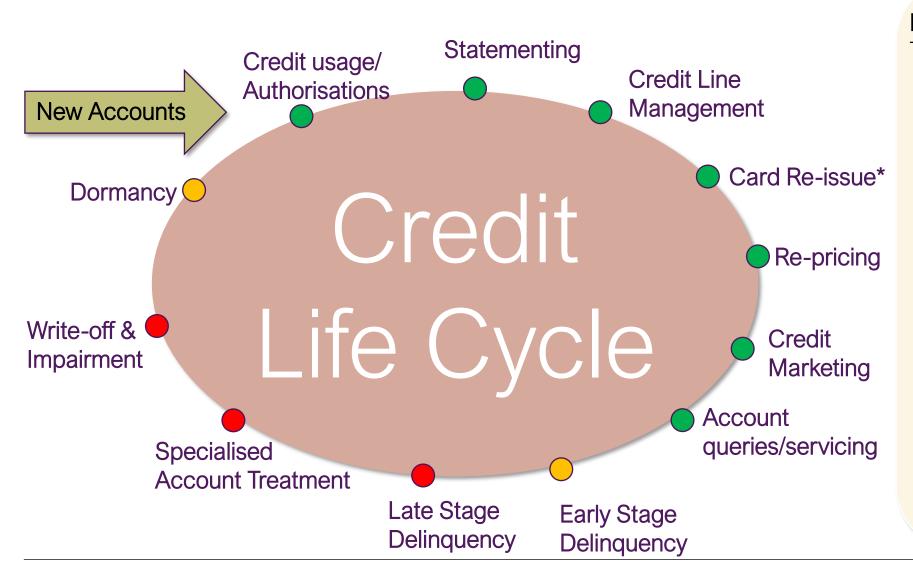
— Anonymous











Data is used throughout the CLC Typically Descriptive and Predictive

- Policy rule sets
- Segmentation trees
- Credit Scores consistent & independent
- Trigger events
- Impairment calculations PD, LGD, ECL, etc.
- Operational efficiency
- Governance checks & audits

Computations & decisions can be automated

Closing Remarks

- Top Quality Data = Top Quality Decisions
- Ensure data remains accurate & relevant
- Typically the best strategies combine bestof-breed business practice & dataevidenced ones
- Stay cognisant of changing conditions & data opportunities created therefrom





Thank You

The nexus between Quality Data, Credit Decisioning & Risk Management

Sharief Allie



