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Modern model and attribute governance going beyond the regulatory burden

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Introducing:

- Chuck Robida Experian
- Robert Stone Experian

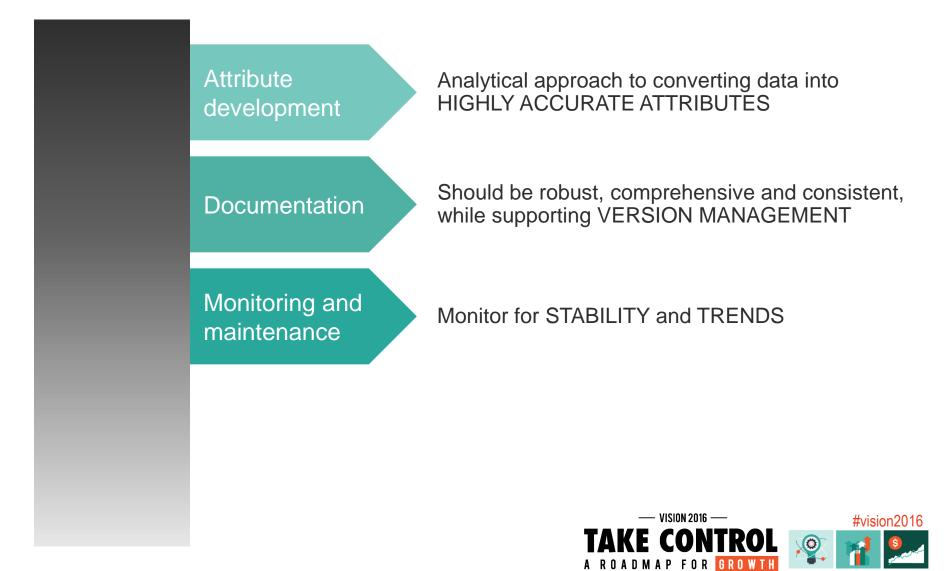


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Attribute governance

Best practices in attribute development and management

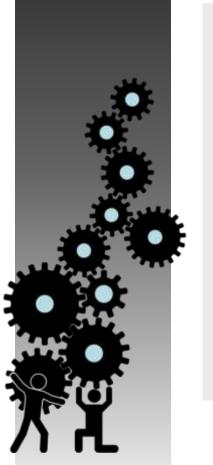




Attribute development

Considerations for creating attributes

Attributes created to provide the highest level of detail and accuracy of credit data



Establish approach and methodology

- Extensive review of credit data, industry trends and challenges
- Building blocks or self contain code by attribute
- Initial values, type, length
- Missing and default values
- Writing specifications
- Auditing

Tri-bureau leveling

Distribution reports for each attribute upon data availability

Bureau technical reviews

 Evaluate if bureau changes need to be incorporated into new and existing attributes



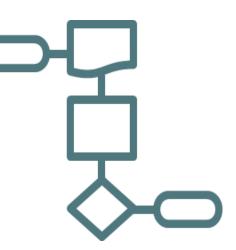


Create conventions and standards

- Meaningful filter and attributes naming conventions
- Complete and accurate description of the attribute behavior
- Consistency across industries
- Reference to source data
- Rules for version control and change management
- Document general conventions (i.e., truncating vs. rounding, counting months, starting with zero or one)

Other document considerations

Tri-bureau – identify attributes where leveling is weak due to bureau differences









Monitor distribution of attributes on a regular basis

Determine appropriate periodic review: monthly, quarterly, bi-annual or annually



Evaluate period-to-period changes

Measure change Set thresholds for review



As time progresses, shifts and seasonality become more noticeable

May warrant redevelopment





There is a need to create new attributes aligned with industry trends or modify existing attributes to ensure continued integrity

- New data elements available
 - Loan modifications
- Attributes with significant reporting variations that warrants redevelopment
- Bureau changes
- Data providers changes reporting
- Consumer behavior changes
- Compliance changes or requirements
 - Exclusion of medical debt
 - Regulatory changes regarding fair lending





GOVERNANCE

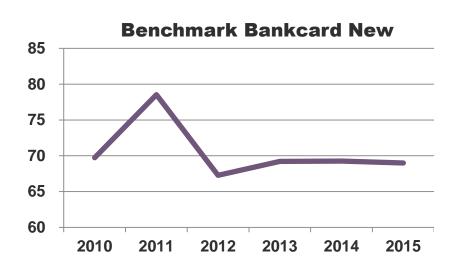
66 The Ultimate Answer to Life, The Universe and Everything is...42!

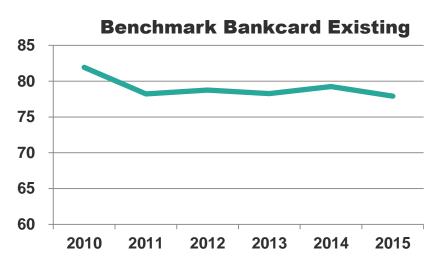
Douglas Adams
The Hitchhiker's
Guide to the Galaxy

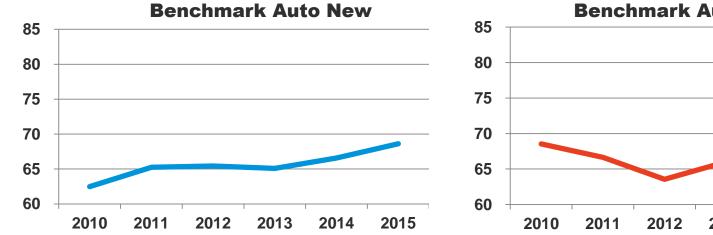
TAKE CONTROL

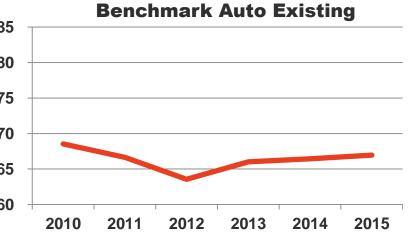
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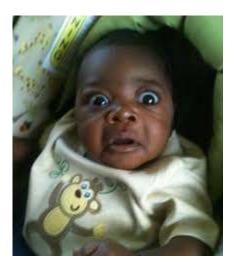


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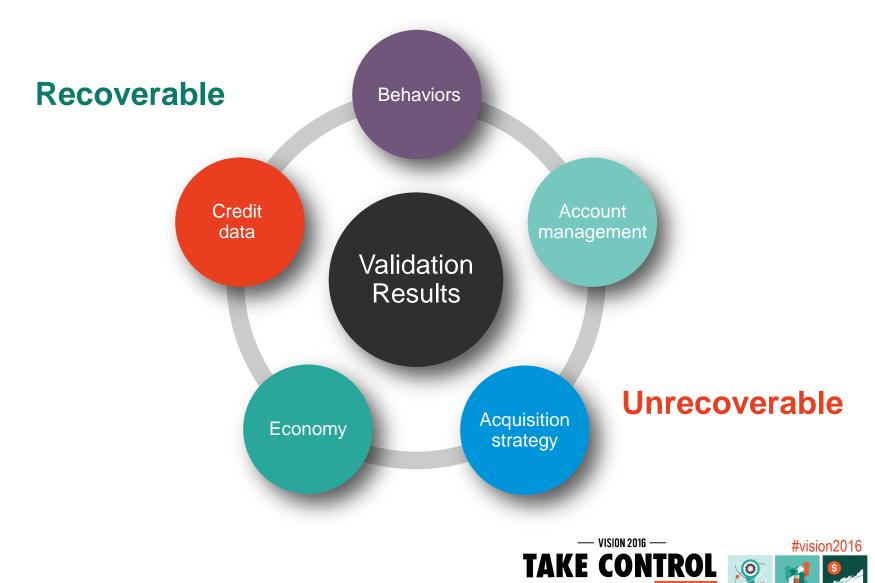






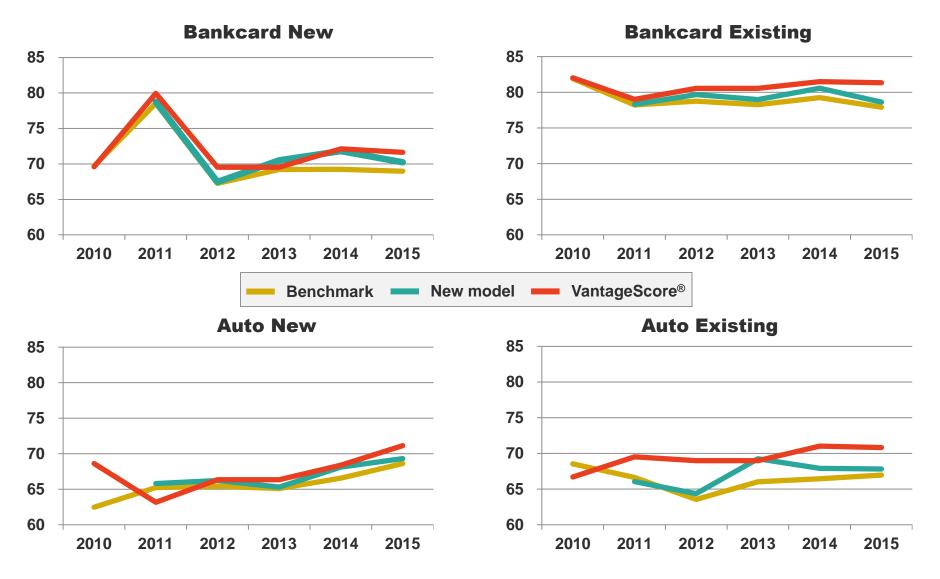






A ROADMAP FOR GROWTH





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Many hidden truths are often unobserved, not invisible.

Matthew A. Petti
Alpha to Omega:
Journey to the
End of Time

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Experian	IMPACT
New special comment: CP-Forbearance	New attribute
New sub-segment: Actual payment	New Experian only attribute
New sub-segment: 84-month grid	Future existing variable enhancements
Trans Union	IMPACT
New remarks codes LNA-Line no longer available, SCD- Credit line suspended due to collateral depreciation	Improve accuracy of existing attribute
New remarks code LMD-Loan modified under federal government program	Future attribute
New remarks code FOR-Forbearance	Future attribute*
Equifax	IMPACT
New narrative code KS-Line suspended due to collateral depreciation	Improve accuracy of existing attribute
New narrative code KV-Loan modified	Future attribute*
New narrative code KW-Forbearance	Future attribute*
Date reported, date opened added DD	Under evaluation



April 13, 2015 175,000 Ohio tax liens suppressed! tax liens inaccessible! Bankruptcy unaffected

March 31, 2016 13,000,000 collections deleted! Reporter non-compliant Nine million consumers affected

December 11, 2015 Reporter deletes 2,500,000 retail accounts! Primarily Chapter 7 & 13 bankruptcies sold to another party

April 11, 2015 50,000 student loans deleted! 12,000,000 consumers affected Most loans transferred status

January 22, 2015

436,000 Mississippi

January 6, 2016 Reporter deletes 10,500,000 credit cards Charge-off sold to other lenders

June 27, 2015 Issuer begins to delete 2,500,000 credit cards Closed, transferred and charge-offs included

December 14, 2014 Lender deletes 700,000 auto loans; 130,000 repositions!

June 17, 2015

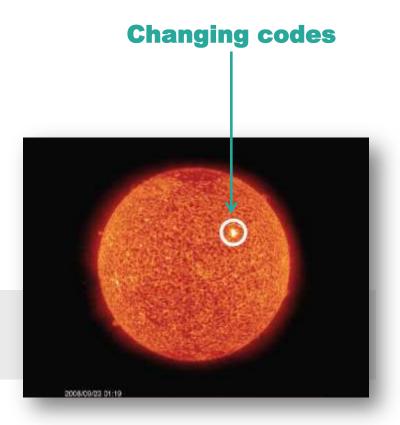
Lender changes 8,000,000 KOBs from bankcard to retail!



Model performance and attribute governance

Upgrade attributes to the latest definitions

- Credit databases
 - Boring on the outside
 - Torrents on the inside
- Attributes updated to accurately, consistently assess behaviors
- New information leads to new attributes
- Models relatively robust year-over-year
 - Many confounding factors





What is expected of institution for **compliance?**

Policies

All financial institutions that use models in their decisioning processes **must** ensure that their internal policies and procedures are consistent with the guidance outlined by the OCC regulations

Validation requirements

The OCC requires that financial institutions perform ongoing model validations at least once a year, include an independent review, and produce proper model documentation

Assessment of model risk

Banks need to mitigate the potential risks arising from the reliance on models that may be improperly validated or tested

Managing model risk

Models risk can be considerably reduced through rigorous model validation procedures





Comprehensive review

of your...

- Current policies and procedures
- Risk exposures and business activities
- The complexity and extent of its model use

Gap Analysis Report that clearly demonstrates...

 Actual vs. intended model performance

 Identifies discrepancies between current actions and regulatory requirements

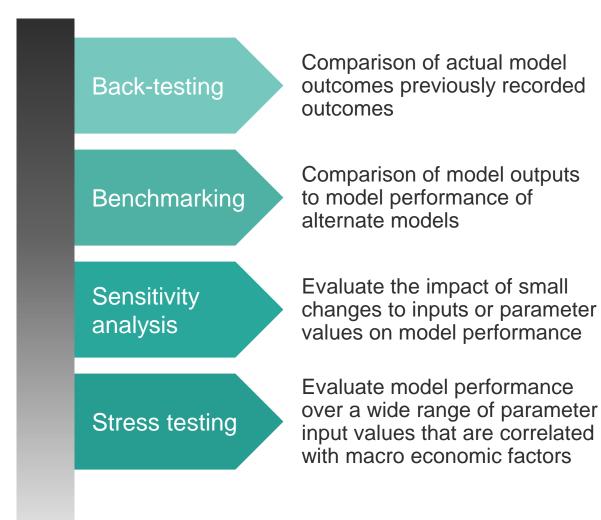
Action plan

or "blueprint report" that includes...

- Prioritized actions for bridging the gaps
- Examples include: model documentation and specifications; implementation standards and protocols; consistency of model assumptions with utilizations; value and usage of monitoring reports







Model validation



Model governance protocol includes four specific analyses which should be executed on both generic and custom built consumer credit risk models



You need a team of experienced modelers and analytical consultants with a vast background and significant experience in developing and validating custom and generic risk and loss forecasting



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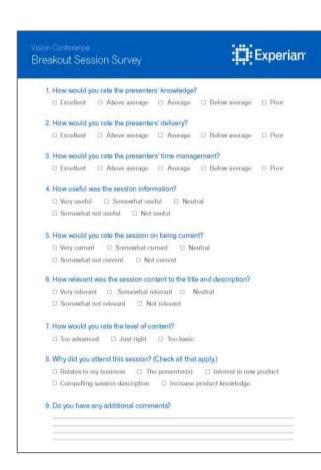
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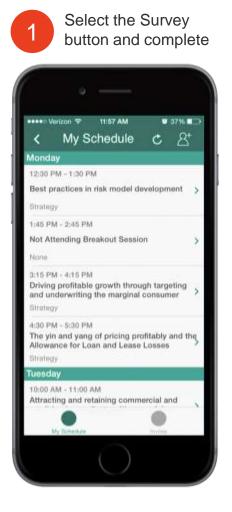


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