Comments of the Center for Economic Justice

To the NAIC Artificial Intelligence Working Group

June 28, 2020

The Center for Economic Justice offers the following comments on the June 3, 2020 version of the NAIC Principles on Artificial Intelligence and on subsequent comments by APCIA, Lemonade and North Dakota.

**CEJ Comments on June 3, 2020 Version**

CEJ suggests a sentence to indicate that the principles should guide AI actors, particularly in the absence of specific legal requirements.

There are several paragraphs that reference adherence to or following law and regulation. We hope it is a given, that AI actors comply with the law and legal requirements, generally. It is unclear why such compliance needs to be mentioned.

The problem with references to such compliance is that they suggest that such compliance is all that is required – as long as you comply with the letter of the law, you are okay. This is a problem because the law – particularly, in insurance – is far behind the issues raised by AI practices. The purpose of the AI principles should be more than telling AI actors to comply with the law. The purpose of the principles should be to set out a set of expectations for the behavior of AI practitioners in the absence of legal requirements that address the issues at hand. Consequently, we suggest the deletion of references to applicable laws and regulations in the body of the principles and add the following the “Calls on” paragraph to add a second Calls On paragraph:

**CALLS ON** all AI actors to not simply seek to comply with legal requirements but to act according to these principles in the absence of specific legal requirements and to go beyond mere compliance when such actions would better meet these principles.
CEJ supports the proposed part b of Fair and Ethical.

In particular, we support the proposal for part b of the Fair and Ethical section with the minor edit shown.

AI actors should proactively engage in responsible stewardship of trustworthy AI in pursuit of beneficial outcomes for consumers and to avoid proxy discrimination against protected classes. AI systems should not be designed to harm or deceive people and should be implemented in a manner that avoids harmful or unintended consequences.

These two sentences capture a number of key concepts, including proactive engagement by actors, including proactive engagement to avoid proxy discrimination and harmful, unintended consequences. We address the critical importance of this section in the attached “CEJ Call to Insurers and Insurance Regulators to Address Systemic Racism in Insurance.”

We suggest replacing the “or” between harmful and unintended in the last sentence with a comma. Alternatively, ”or” could be replaced with “and.” The purpose of this section is to state the need for proactive engagement to avoid harm. While some unintended consequences may be harmful to consumers, it is not a given that all unintended consequences are harmful.

CEJ suggests the addition of “and other providers of AI algorithms and products” to the first sentence.

RECOMMENDS that insurance companies and all persons or entities facilitating the business of insurance that play an active role in the AI system lifecycle, including third parties such as rating and advisory organizations and other providers of AI algorithms and products (hereafter referred to as “AI actors”) adhere to these fundamental principles.

The era of big data analytics and AI in insurance has been marked by the rapid growth in new organizations – not licensed as advisory or rating organizations – who provided third party algorithms and other AI products to insurers. Reference to such providers is vitally important to indicate the scope of the application of the principles.

CEJ suggests deletion of the last sentence of part a of Accountable

This last sentence reads, “However, absent negligence in the creation, implementation or monitoring of an AI system the remedy of an impact that violates existing regulation should be correction of said impact.” This is contrary to current regulatory practice and common sense. Consider an algorithm that assess an applicant’s risk and calculates the premium.
Suppose that algorithm has a flaw that systemically overcharges by, say 10%. The remedy under current legal requirements would be fixing the algorithm and refunding the overcharges to consumers. The proposed sentence would, however, eliminate any consumer restitution for harm suffered. It consumers have suffered demonstrable harm – and calculable economic damage – as a result of faulty algorithm, there is no logic to denying restitution to the consumer simply because the insurer or algorithm provider wasn’t “negligent.”

CEJ suggests deletion of the last sentence of part a of Compliant

This last sentence reads, “Any decision by an AI actor that utilizes an AI system in its creation shall not be held in violation of existing regulation, if that same decision would have been rendered without the use of an AI system.” This sentence sets up an impossible test. The purpose of AI is to replace existing decision-making models. In some cases, that replacement is simply automating a manual process. But, in most cases, that replacement is with an entirely new approach to the sale, pricing, or claims settlement. What does it mean – and how would an insurer or regulator determine – if the result of a flawed telematics pricing algorithm would have been the same as if no telematics algorithm had been used? There is simply no way to compare.

CEJ suggests revision of the Transparent section to avoid duplication and inconsistencies.

The current version of the Transparent section repeats many of the same ideas in both parts a and b. For example, the concepts in the last sentence of a are largely repeated in part b. Further, the sentence that AI actors “must have the ability to protect confidentiality of proprietary algorithms” is both out of place and overbroad. It is out of place in section on transparency and it is overbroad in that it may conflict with accountability to consumers. We suggest the following edits (followed by a clean presentation). While we do not object to protection for trade secrets of AI vendors and insurers, we do object to the original wording which would pre-empt state public information laws – laws which were crafted to balance the interests of those claiming exemption from public disclosure with the rights of the people to know about their government and its actions.

a.——For the purpose of improving the public’s confidence in AI, AI actors should commit to transparency and responsible disclosures regarding AI systems to relevant stakeholders, particularly to the people whose outcome is affected by the algorithm, including consumers. AI actors must have the ability to protect confidentiality of proprietary algorithms and adherence to individual state law and regulations in all states where AI is deployed. These Disclosures about the content and use of AI should be proactive and disclosures include revealing the kind of data being used, the purpose of the data in the AI system and the expected outcomes for affected people, consequences for all stakeholders. People who are affected by the AI-driven decisions and who are responsible for ensuring these AI practices are fair and legally compliant
b.a. Consistent with applicable laws and regulations, stakeholders (which includes regulators and consumers) should have a way to inquire about, review and seek recourse for AI-driven insurance decisions. This information should be, easy-to-understand and describe the factors that lead to the prediction, recommendation or decision. This information may be presented differently and should be appropriate for applicable stakeholders.

[Clean] Transparent

For the purpose of improving the public’s confidence in AI, AI actors should commit to transparency and responsible disclosures regarding AI systems to relevant stakeholders, particularly to the people whose outcome is affected by the algorithm. Disclosures about the content and use of AI should be proactive and include the kind of data being used, the purpose of the data in the AI system and the expected outcomes for affected people. People who are affected by the AI-driven decisions and people who are responsible for ensuring these AI practices are fair and legally compliant should have a way to inquire about, review and seek recourse for AI-driven insurance decisions. This information should be, easy-to-understand and describe the factors that lead to the prediction, recommendation or decision. This information may be presented differently and should be appropriate for applicable stakeholders.

We strongly object to the North Dakota Suggested Edits for Fair and Ethical

We respectfully and strongly oppose this proposal and urge adoption of the June 3, 2020 version of this section. The North Dakota proposal adds the concept of proxy variables with a statement that avoiding proxy discrimination does not preclude using proxy variables for legitimate and acceptable business purposes. The proposed – the new second part of the sentence – undermines the first part of the sentence by somehow equating the use of proxy variables with proxy discrimination. This is technically wrong and confusing. Proxy discrimination is not about using proxy variables – it is about factors that have the effect of discriminating on the basis of protected classes. Proxy variables are something else – they are variables used in the development of a statistical model to control for known biases or to substitute for known relationships when the direct variable is not available. These concepts are explained more fully in the CEJ Call, attached.
CEJ opposes the APCIA suggested edits

In contrast to CEJ’s first comment, above, that the principles should guide AI actors in the absence of clear legal requirements, APCIA seeks to turn the principles on their head by declaring that legal compliance is the ceiling. While no one is suggesting that the AI principles represent new legal requirements for AI actors, the fact the description of desired action by AI actors are called principles indicates that the legal requirements are a floor and that the principles should guide the AI actors when there is no or no clear legal requirement.

We further object to the proposed by APCIA about how the principles should be used. This paragraph usurps the actual principles by demarcating a number of undefined and difficult to interpret parameters about risk and impact to the consumer and nature and pace of change in the use of AI. This paragraph adds nothing to the usefulness of the principles for guiding the work of the NAIC. Quite the opposite. The paragraph introduces a host of new concepts and criteria that offer the opportunity for a stakeholder to bog down NAIC deliberations.

CEJ opposes the Lemonade suggested edits

Lemonade has proposed a rewrite of section b of Fair and Ethical. We strongly oppose this proposal because it eliminates reference to proxy discrimination and wrongly equates fairness with actuarial justification. The entire premise behind explicit recognition of proxy discrimination as a tool to identify and address systemic racism in insurance is that an actuarial analysis fails to consider, let alone address, such systemic racism and proxy discrimination.
The Center for Economic Justice’s Call to Insurers and Insurance Regulators

To Address Societal Systemic Bias and Inherent Racism in Insurance
By Explicit Recognition of Disparate Impact as Unfair Discrimination in Insurance

Submitted to the National Association of Insurance Commissioners’
Big Data Working Group
Artificial Intelligence Working Group
Market Regulation and Consumer Affairs Committee
Casualty Actuarial and Statistical Task Force
Accelerated Underwriting Working Group

June 18, 2020

Action, Not Just Words, Needed

The murder of George Floyd has led to widespread corporate recognition of and opposition to systemic bias and inherent racism in America. Corporate CEOs have spoken out, including major insurer CEOs.

“In the coming days, I encourage each of us to step outside of our comfort zones, seek to understand, engage in productive conversations and hold ourselves accountable for being part of the solution. We must forever stamp out racism and discrimination.” Those are the words of Kirt Walker, Chief Executive Officer of Nationwide.

Floyd’s death in Minneapolis is the latest example of “a broken society, fueled by a variety of factors but all connected by inherent bias and systemic racism. Society must take action on multiple levels and in new ways. It also requires people of privilege—white people—to stand up for and stand with our communities like we never have before,” Those are the words of Jack Salzwedel, the CEO of American Family.
Perhaps this will be a turning point in insurer and regulatory practices, but insurers have consistently opposed proposals to address systemic bias and inherent racism in insurance. This opposition has come in two general themes – opposition to any responsibility by insurers or regulators to identify and minimize disparate impact in insurance and opposition to any form of regulatory data collection to allow regulators and the public to assess market outcomes and thereby hold insurers accountable for their practices.

While insurers have been constant in opposing any responsibility to address systemic bias and inherent racism – in contrast to the recent public statements of insurer CEOs – most state insurance regulators believe they have the authority to stop proxy discrimination against protected classes. This belief, however, has never manifested itself, in regulatory standards, models laws or consistent approaches across states.

If insurers and insurance regulators truly want to address systemic bias and inherent racism in insurance, two long-overdue actions are needed.

1. Explicit recognition of disparate impact as unfair discrimination against protected classes in insurance coupled with responsibility for insurers and insurance regulators to identify such disparate impact and take steps to minimize this proxy discrimination within the overall regulatory framework of cost-based pricing.

2. Development of regulatory data collection and analysis infrastructure and capabilities for insurance regulators and the public to meaningfully monitor market outcomes for all consumers, to identify discriminatory outcomes and trace disparate impact to the causes.

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1 Disparate impact refers to practices that have the same effect as disparate treatment or intentional discrimination against protected classes. Protected classes refer to those consumer characteristics which may not be the basis for discrimination and include, in most states, race, religion and national origin. Disparate impact is also known as disparate effect or proxy discrimination – discrimination against the protected class through a proxy for the protected class characteristic. Disparate impact as unfair discrimination has long been recognized under federal employment and housing laws. In 2015, the U.S. Supreme Court affirmed disparate impact as unfair discrimination under the Fair Housing Act which covers a variety of housing-related issues, including insurance, with Justice Kennedy writing, “Recognition of disparate-impact liability under the FHA plays an important role in uncovering discriminatory intent: it permits plaintiffs to counteract unconscious prejudices and disguised animus that escape easy classification as disparate treatment.”
The mechanisms to accomplish these actions are straightforward.

1. Development of, and implementation by the states, through the National Association of Insurance Commissioners (NAIC) of a model law addressing algorithmic bias including recognition of disparate impact as unfair discrimination against protected classes in insurance with guidance and safe harbors for insurers to identify and minimize disparate impact in marketing, pricing, claims settlement and anti-fraud efforts.

2. Development of, and implementation by the states, through the NAIC, of a market regulation data collection and analysis infrastructure to timely and meaningfully monitor consumer insurance outcomes – similar in scope and capability to what state insurance regulators and the NAIC currently have for monitoring the financial condition of insurers.

In the absence of the necessary actions by insurers and the states, Congress and federal agencies will eventually address these problems through civil rights legislation and enforcement.

In An Era of Big Data Analytics and Insurers’ Rapidly Growing Use of Third-Party Data and Complex Algorithms, the Potential For Algorithmic Bias and Proxy Discrimination Has Grown Dramatically.

The potential for big data, artificial intelligence, machine learning – implemented through rapid deployment of complex algorithms – has increased the potential for intentional or unintentional proxy discrimination through algorithmic bias. This potential is well recognized. Barocas and Selbst state the issue succinctly:

Advocates of algorithmic techniques like data mining argue that they eliminate human biases from the decision-making process. But an algorithm is only as good as the data it works with. Data mining can inherit the prejudices of prior decision-makers or reflect the widespread biases that persist in society at large. Often, the “patterns” it discovers are simply preexisting societal patterns of inequality and exclusion. Unthinking reliance on data mining can deny members of vulnerable groups full participation in society.

Most data sets of personal consumer information as well data sets of the built environment reflect historical discrimination against protected classes. For example, TransUnion has an insurance score used for pricing based on criminal violations filed with the courts – not just convictions, but all criminal filings regardless of the eventual outcome. TransUnion’s marketing materials state:

2 https://content.naic.org/index_about.htm
“TransUnion recently evaluated the predictive power of court record violation data (including criminal and traffic violations)

“Also, as court records are created when the initial citation is issued, they provide insight into violations beyond those that ultimately end up on the MVR—such as violation dismissals, violation downgrades, and pre-adjudicated or open tickets.”

It did not take the recent murders of Black Americans by police to recognize that this “criminal history score” will reflect historic discrimination in policing against Black Americans and perpetuate that discrimination in insurance. Consider policing records in Ferguson, Missouri.

**US DOJ Investigation of the Ferguson Police Department**

Ferguson’s approach to law enforcement both reflects and reinforces racial bias, including stereotyping. The harms of Ferguson’s police and court practices are borne disproportionately by African Americans, and there is evidence that this is due in part to intentional discrimination on the basis of race.

Ferguson’s law enforcement practices overwhelmingly impact African Americans. Data collected by the Ferguson Police Department from 2012 to 2014 shows that African Americans account for 85% of vehicle stops, 90% of citations, and 93% of arrests made by FPD officers, despite comprising only 67% of Ferguson’s population.

FPD appears to bring certain offenses almost exclusively against African Americans. For example, from 2011 to 2013, African Americans accounted for 95% of Manner of Walking in Roadway charges, and 94% of all Failure to Comply charges.

Our investigation indicates that this disproportionate burden on African Americans cannot be explained by any difference in the rate at which people of different races violate the law. Rather, our investigation has revealed that these disparities occur, at least in part, because of unlawful bias against and stereotypes about African Americans.

One of the oft-cited benefits of big data analytics in insurance is greater personalization—the ability of insurers to develop products and pricing tailored to individual needs and characteristics. But the other side of personalization is exclusion. Insurers’ use of algorithmic techniques called price optimization, claim optimization and customer lifetime value are examples of the flip side of big data personalization—differential treatment of groups of consumers that reflect and perpetuate inherent bias and systemic racism.
The TransUnion Criminal History Score is just one example – egregious and obvious – of algorithms that reflect and perpetuate historic discrimination against protected classes in insurance – algorithms that reinforce inherent bias and systemic discrimination. Others include:

- Employment categories and education levels for marketing, underwriting and pricing
- Price Optimization and Customer Lifetime Value Algorithms used for marketing, underwriting, pricing and claims settlement
- Facial analytics used in life insurance underwriting
- Household composition used for underwriting and pricing
- Credit scores for marketing, underwriting, pricing, claims settlement and anti-fraud efforts
- Fraud detection models based on biased learning data

Many of these practices have shown to discriminate unfairly against protected classes, generally, and Black Americans, specifically. A number of cities – as well as Google and IBM – have stopped using facial recognition technology because of the biases against Black Americans. After the New York Department of Financial Services developed a regulation permitting the use of employment and education characteristics in auto insurance pricing only if the insurer could demonstrate the practice did not unfairly discriminate against protected classes, insurers’ use of the “risk” characteristics disappeared.

The Consumer Federation of America has produced a number of extraordinary studies of discriminatory market outcomes resulting from rating factors that reflect systemic racism. Insurance industry trade associations have dismissed the CFA’s discriminatory findings with the claim that insurers engage in cost-based, race-neutral practices – while refusing to both provide the data to back up these claims and refusing to recognize that systemic racism will show up as disparate impact.

If insurers and insurance regulators are serious about addressing inherent bias and systemic racism in insurance, then action is needed. Fortunately, the insurance industry has the precise skill set needed to identify and minimize disparate impact and insurance regulators have the resources to develop the necessary guidance and infrastructure.

**Disparate Impact Analysis is Straightforward and Particularly Suited to Insurance.**

The mechanics of a disparate impact analysis in insurance are straightforward and use well-accepted statistical and actuarial methods. Any algorithm – whether for pricing, anti-fraud, claims settlement, lifetime customer value, price optimization or other – takes the basic form of an equation in which certain variables or factors – the explanatory factors – seek to explain or predict a particular outcome.

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Consider the following general model.

\[ b_0 + b_1X_1 + b_2X_2 + b_3X_3 + e = y \]

Say that \( X_1, X_2 + X_3 \) are explanatory variables used to predict \( y \) – the frequency of an auto claim, for example.

Let’s assume that all three \( X \)s are statistically significant predictors of the likelihood of a claim and the \( b \) values associate with each \( X \) are how much each \( X \) contributes to the explanation of claim.

\( b_0 \) is the “intercept” – a base amount and \( e \) is the error term – the portion of the explanation of the claim not provided by the independent variables.

When the algorithm or model is developed, the modeler will typically data mine some database of personal consumer information, built environment or natural environment for characteristics that are correlated with the desired outcome. These variables are combined into a model, but a variable that might be predictive on its own can lose its predictive capability when combined with other variables because the variables might be correlated with one another. In that event, the variable serving as the proxy for the other variable loses its individual explanatory power. In our example, above, if, say, \( X_1 + X_2 \) are highly correlated, when the two variables are used in the same algorithm, one of the variables will lose its predictive power.

From a statistical and actuarial perspective, a disparate impact analysis does two things. First, it examines the amount of correlation between explanatory variables or factors and protected class characteristics to determine if any of the explanatory variables have significant correlation with, and thereby serve as proxies – in whole or in part – for protected class characteristics.

The second function of a disparate impact analysis is to remove the correlation between the explanatory variables and protected class characteristics with the result that the remaining explanatory power of the explanatory variables is the independent contribution – independent of correlation to protected class characteristics – of the explanatory variables relationship to the outcome.

Consider the following example. Suppose an explanatory factor was perfectly correlated with being a Black American. In statistical terms, this means a perfect or 100% correlation and the explanatory factor is a perfect proxy for being African-American. Assume that when used in an algorithm, this perfect proxy for being a Black American shows us as predictive of some outcome variable. Assume variable \( X_1 \) in our simple model above is the perfect proxy characteristic and further assume that the proxy variable shows a correlation to / is predictive of the outcome variable. Given our assumption that variable \( X_1 \) is a perfect proxy for being Black American, then the results of the model would be identical whether we used the proxy variable or used Black American explicitly. If the proxy variable is used, this would not be intentional discrimination – defined as explicit use of a protected class characteristic – even though it has
precisely the same effect. While most regulators believe they have the authority and obligation to stop the use of such proxies for protected class characteristics, the insurance industry view, as espoused by the American Property Casualty Insurance Association, is that even in this extreme case, there is no unfair discrimination against a protected class.

When the data are run through the model, variable $X_1$ shows some correlation to the outcome variable and is, therefore, “predictive.” But, what it is really doing is simply standing in for being Black American and indirectly discriminating on the basis of race. This proxy factor is, in fact, simply reflecting and perpetuating discrimination against Black Americans.

One approach to disparate impact analysis – among many which generally try to remove the correlation between predictive variables and protected class characteristics – is to include a control explanatory variable for being Black American in the algorithm. Let’s know add a new variable to algorithm – a specific variable for being Black American.

$$b_0 + b_1X_1 + b_2X_2 + b_3X_3 + b_4R_1 + e = y$$

In statistical and actuarial terms, this is known as adding a control variable. The purpose of the control variable is to remove known correlations and biases in the other explanatory variables in order to better assess the independent and unique explanatory power of these other explanatory variables. For example, in personal auto pricing models, an insurer developing a national pricing model will utilize a control variable for State to remove the effects of correlations with other explanatory variables of State-specific characteristics, such as different minimum liability limits, different tort and no-fault systems and different population distributions by age or other factors, among other things. In our example, our control variable $R_1$ is being Black American.

Now, when the data are run through the model, explanatory variable $X_1$ – the perfect proxy for being Black American – shows no explanatory power and the control variable now shows the explanatory power that explanatory variable $X_1$ had in the original model. This is statistical evidence that explanatory variable $X_1$ was discriminating on the basis of race.

Let’s consider two other examples – one in which there is a 50% correlation between variable $X_1$ and being Black American and a second in which there is a 0% correlation. In the 50% correlation, the variable $X_1$ may still show up as predictive of the outcome, but that predictive power will be different than from our first model without the control variable for being Black American. $X_1$‘s new contribution to explaining or predicting the outcome will now be its contribution independent of any correlation to being Black American. Consequently, disparate impact is recognized and minimized. Again, this is a common statistical and actuarial technique.\(^5\)

\(^5\) For example, the technique is explained in the chapter, “Credit Scoring and the Fair Lending Issue of Disparate Impact, “ in Credit Scoring for Risk Managers, Elizabeth May, editor, 2004.
In our third example there is 0% correlation between the variables $X_1$ and $R_1$. In this situation, the predictive power of $X_1$ remains the same as in the original model because there is no disparate impact.

As noted above, disparate impact analysis is particularly suited to insurance because the actuarial justification required for insurance risk classifications is a statistical test – is the characteristic correlated with risk of loss? The same statistical test can be used to evaluate and minimize disparate impact. Stated differently – if a particular correlation and statistical significance is used to justify, say, insurance credit scoring, those same standards of correlation and statistical significance are reasonable evidence of disparate impact and unfair discrimination on the basis of prohibited factors.

In addition, the ability of insurers to identify and minimize disparate impact can be easily built into the development of pricing, marketing or claim settlement models by including consideration of prohibited characteristics as control variables in the development of the model and then omitting these prohibited characteristics when the model is deployed. Again, this is one of many ways to remove the correlations between explanatory variables in algorithms and the protected class characteristics that result in reflection of and perpetuation of historic discrimination or disparate impact.

Recognition by regulators and insurers of disparate impact as unfair discrimination in insurance against protected classes and requirements to identify and

- Minimizes Disparate Impact – Stop the Cycle of Perpetuating Historical Discrimination.
- Promotes Availability and Affordability for Underserved Groups
- Improves Cost-Based Insurance Pricing Models
- Improve Price Signals to Insureds for Loss Mitigation Investments
- Help Identify Biases in Data and Modelers / Improve Data Insights
- Improve Consumer Confidence of Fair Treatment by Insurers

What NAIC Committees and Working Groups Should Be Doing

The NAIC has spread work streams related to Big Data Analytics over a number of groups. With the exception of the Artificial Intelligence Working Group, none of these groups’ work efforts address systemic bias in insurance.
The NAIC Artificial Intelligence (AI) Working Group is developing insurance-specific principles for the governance and use of AI in insurance. While there are a number of consumer protection issues associated with insurers’ use of AI (or Big Data Analytics, generally), such as protection of personal data and transparency and accountability to consumers and regulators, the most important consumer protection is establishing a responsibility for insurers and regulators to identify and minimize algorithmic bias and proxy discrimination. Recognition of disparate impact and responsibility of insurers and regulators to minimize such systemic bias must be a core AI insurance principle.

The NAIC Big Data Working Group is examining big data analytics issues across a variety of insurance operations and lines of business. The two actions called for by CEJ regarding disparate impact and data collection should be at the core of all the working group’s inquiries and activities. The Big Data Working Group should be developing the model law or revisions to existing model laws regarding explicit recognition of disparate impact, guidelines for identify and minimizing proxy discrimination and safe harbors for insurers.

The NAIC Market Regulation and Consumer Affairs Committee is the parent committee for a number of working groups related to insurance market regulation, including data collection for market regulation, market surveillance, market conduct examinations and antifraud efforts. The Committee should be a contributor to the development of model laws regarding disparate impact, but must take the lead on market regulation data collection – both to identify the types of data and algorithms used by insurers and what these data are used for and to re-engineer market regulation data collection to match the granularity and frequency of financial regulation data collection.

The NAIC Casualty Actuarial and Statistical Task Force deals generally with actuarial issues in property casualty lines of insurance. The Task Force is currently developing a white paper to provide best practices for regulatory review of complex pricing models used by insurers to justify rates. The current draft does not incorporate identification and minimization of systemic bias or disparate impact, but simply lists it as another consideration. Insurance rate standards include rates not being excessive, not being inadequate and not being unfairly discriminatory.

The use of complex predictive models for pricing by insurers is focused on risk segmentation and the development of risk classifications and rating factors. Traditional actuarial techniques – not complex predictive models – are generally used for overall rate level indications – the metric for assessing whether rates are excessive or inadequate. The overwhelming reason
for close scrutiny of complex predictive models by regulators is to assess whether the risk
classifications are fair or unfairly discriminatory. It is an understatement to say that the current
draft white paper has a massive whole because of the failure to address proxy discrimination and
disparate impact. Guidance to insurance regulators for regulatory review of complex insurance
predictive models should prioritize the identifications and minimization of systemic bias and
disparate impact.

**Accelerated Underwriting Working Group**

The NAIC Accelerated Underwriting Working Group continues the NAIC’s multi-year
examination of life insurers’ use of Big Data analytics and predictive models in place of
traditional actuarial practices for underwriting and pricing life insurance. While the predictive
models now used by life insurers have the same function as those used in auto, home and other
property casualty lines of insurance – namely, using non-traditional data and an algorithm to
predict claims (or other outcomes of value to the insurer). While there are requirements for
property casualty insurers to file these predictive models for regulatory review for some purposes
– justifying rates – and special laws and provisions governing property casualty insurers’ use of
consumer credit information, there are no similar regulatory requirements for life insurers. The
time is long overdue for this working group to develop the model laws for regulatory guidance
and consumer protections to ensure consumer protections in the face of life insurers’ growing use
of non-traditional, non-insurance data and complex algorithms. And the core of such models
laws and regulatory guidance must be identification and minimization of disparate impact and
systemic racism.

**Conclusion**

Recent events have highlighted a long-standing gaps in insurer and insurance regulatory
practices – the failure to monitor consumer market outcomes for discriminatory impacts against
protected classes and the failure to incorporate identification and minimization of proxy
discrimination in insurers’ development of predictive models for all aspects of their operations
and regulators’ review of these algorithms. The tools are available to address these problems –
analysis of disparate impact and improved data collection. CEJ calls on insurers and regulators
to match their statements of outrage over systemic racism with the actions needed to identify and
minimize such unfair discrimination in insurance.