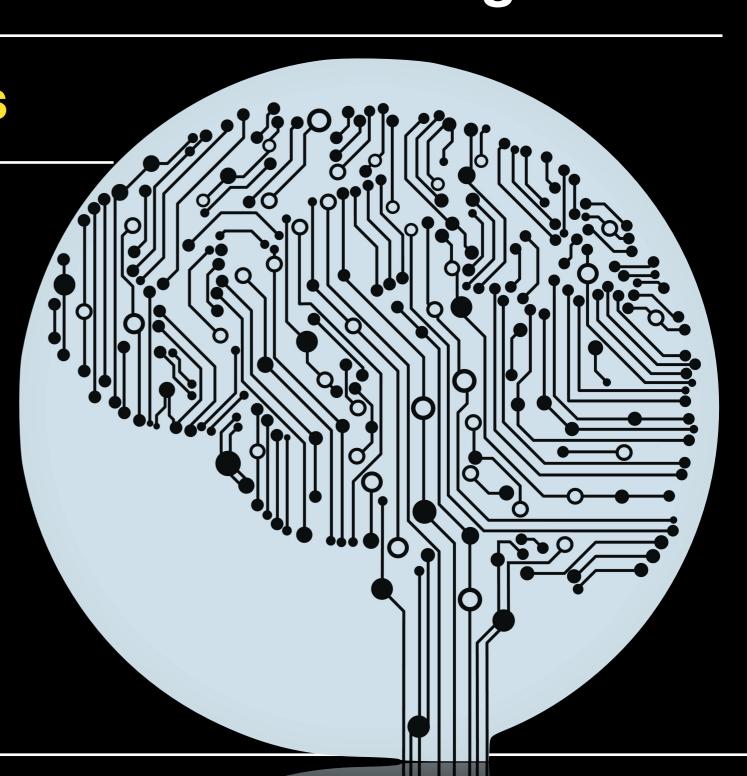
Mass Surveillance and Artificial Intelligence

New Legal Challenges

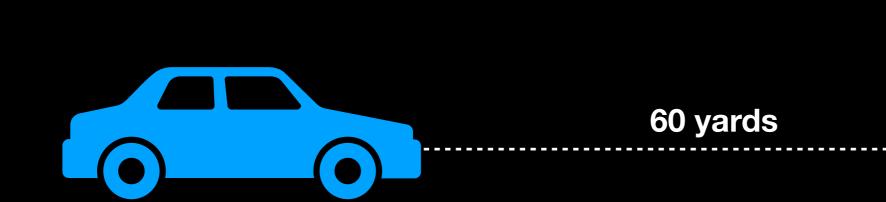
John Danaher

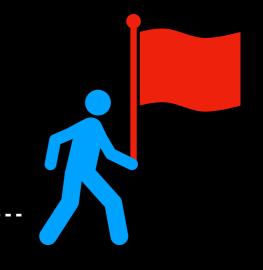
NUI Galway



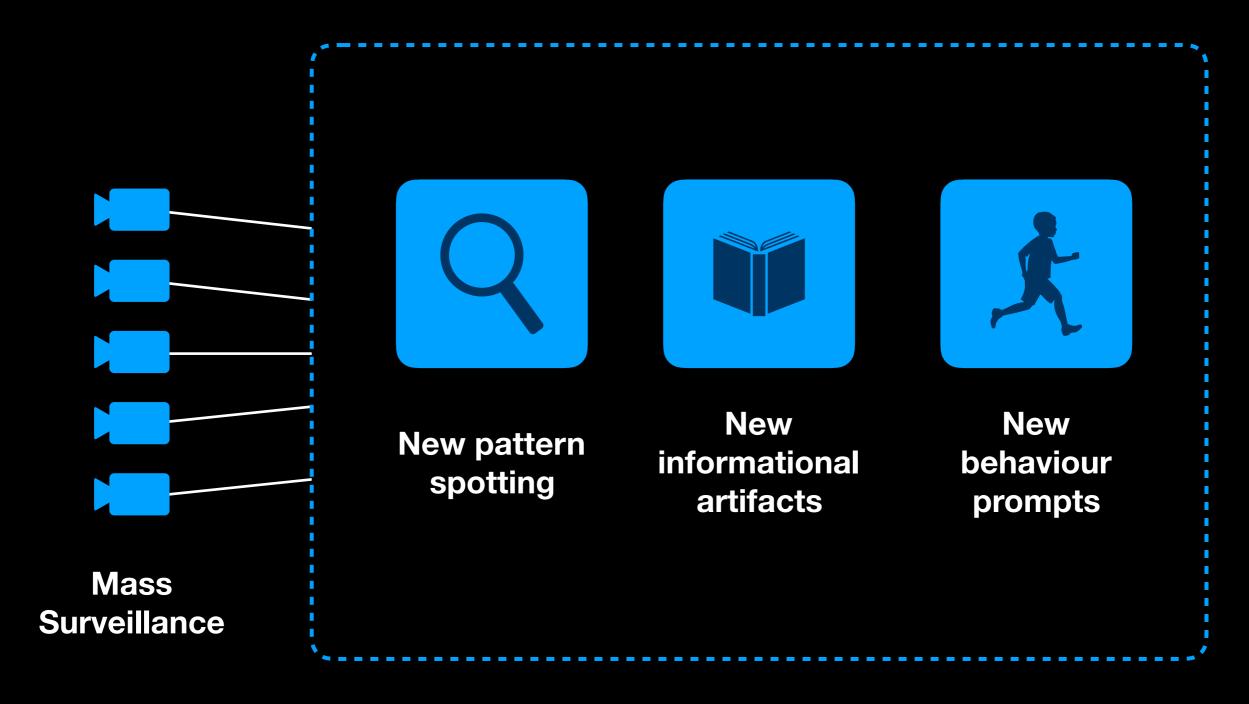
"

...while any locomotive is in motion, shall precede such locomotive on foot by not less than sixty yards, and shall carry a red flag constantly displayed, and shall warn the riders and drivers of horses of the approach of such locomotives...

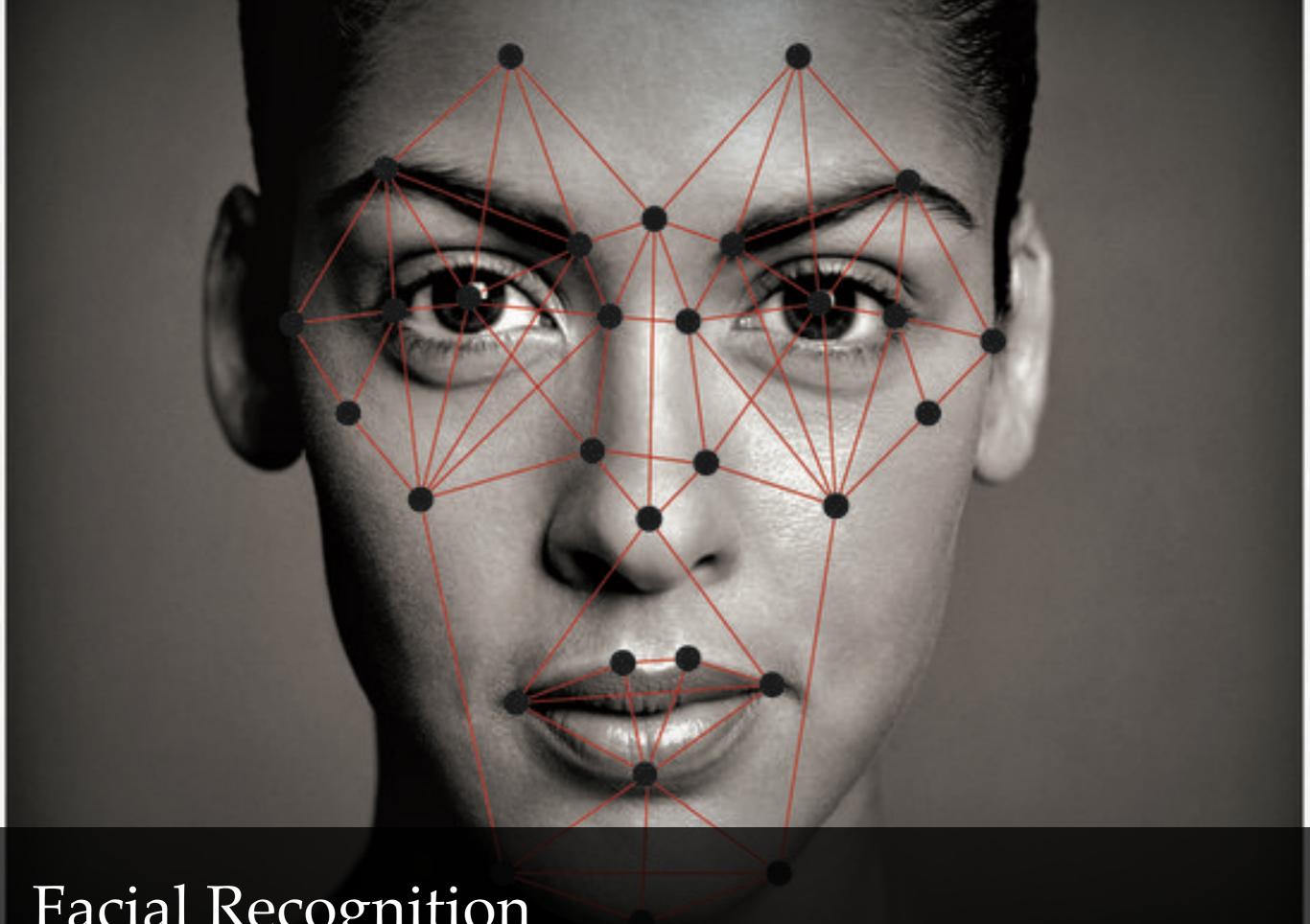




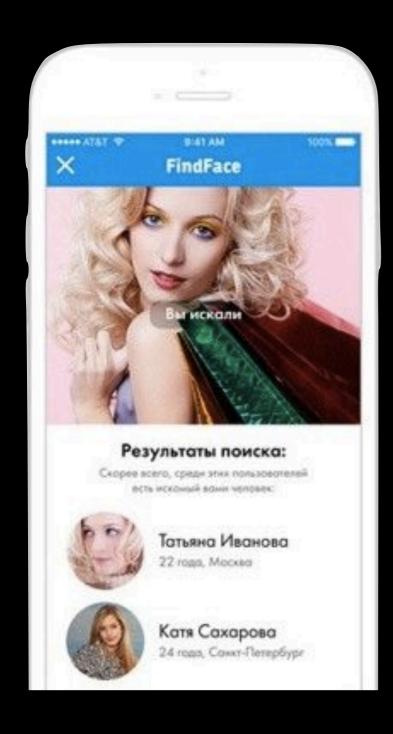
Al Systems

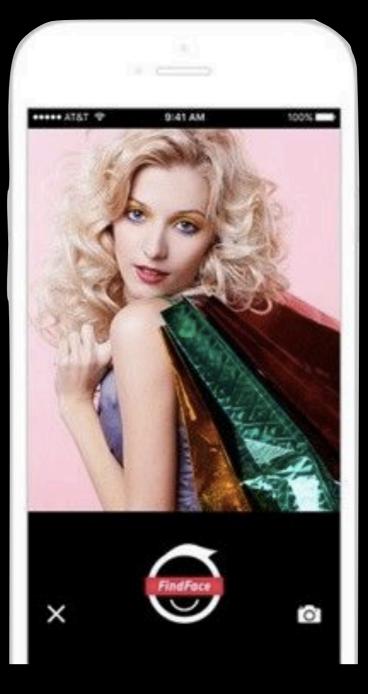


Increasing Autonomy/Automation



Facial Recognition







FindFace App





28 current members of Congress



The future of human flourishing depends upon facial recognition technology being banned before the systems become too entrenched in our lives. Otherwise, people won't know what it's like to be in public without being automatically identified, profiled, and potentially exploited.

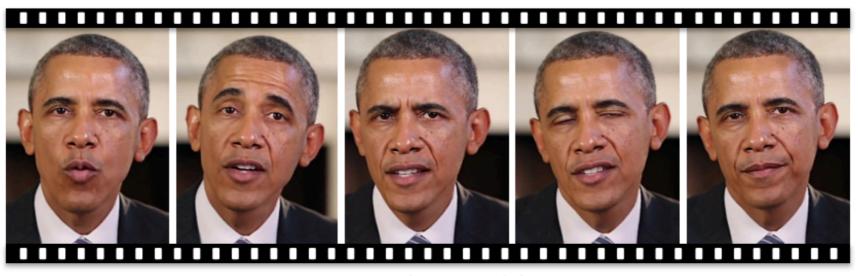
Evan Selinger and Woodrow Hartzog



Deepfake Technology

Synthesizing Obama: Learning Lip Sync from Audio

SUPASORN SUWAJANAKORN, STEVEN M. SEITZ, and IRA KEMELMACHER-SHLIZERMAN, University of Washington



Output Obama Video







Our awareness of the possibility of being recorded provides a quasiindependent check on reckless testifying, thereby strengthening the reasonability of relying on the words of others. Recordings do this in two distinctive ways: actively correcting errors in past testimony and passively regulating ongoing testimonial practices.



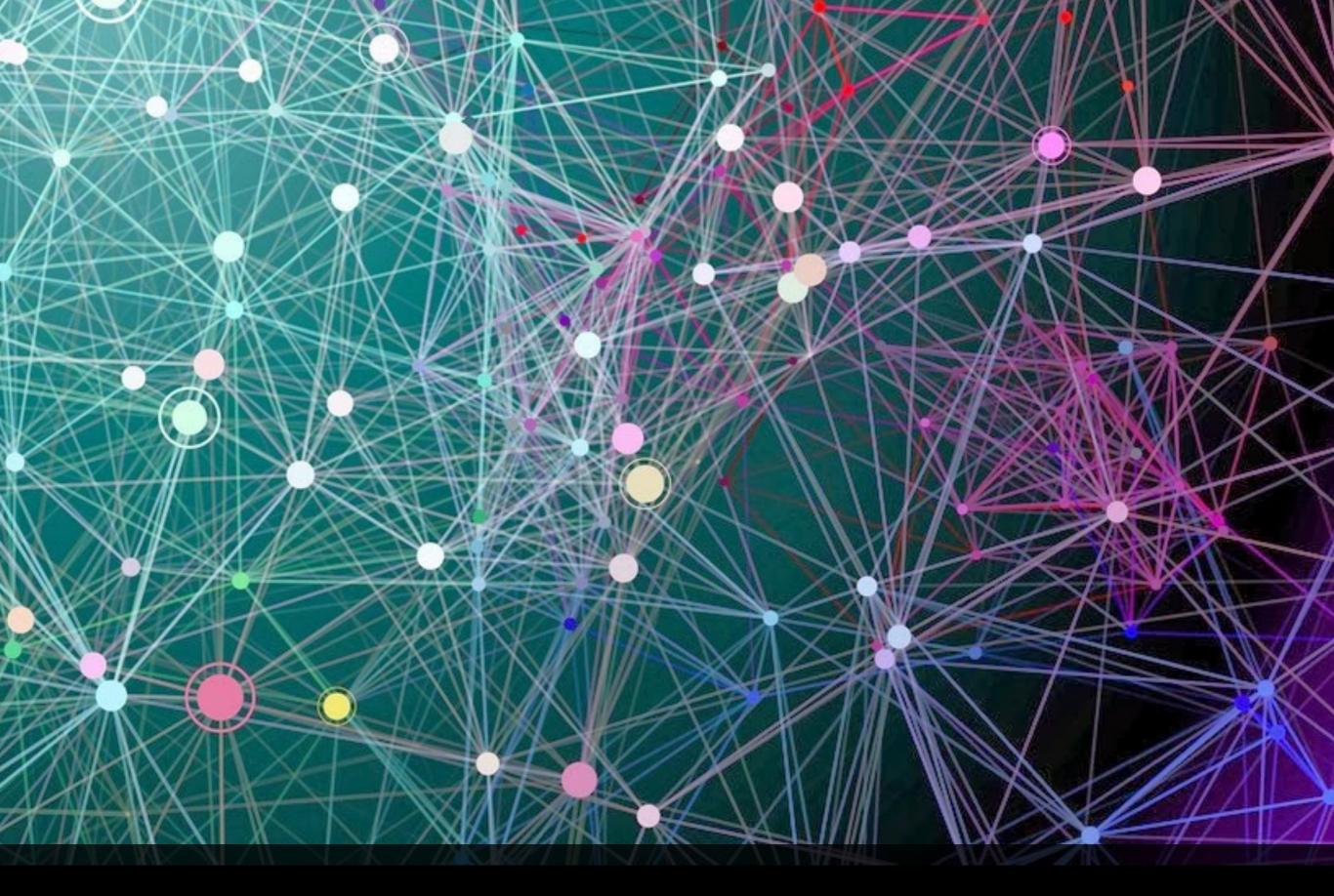
Regina Rini



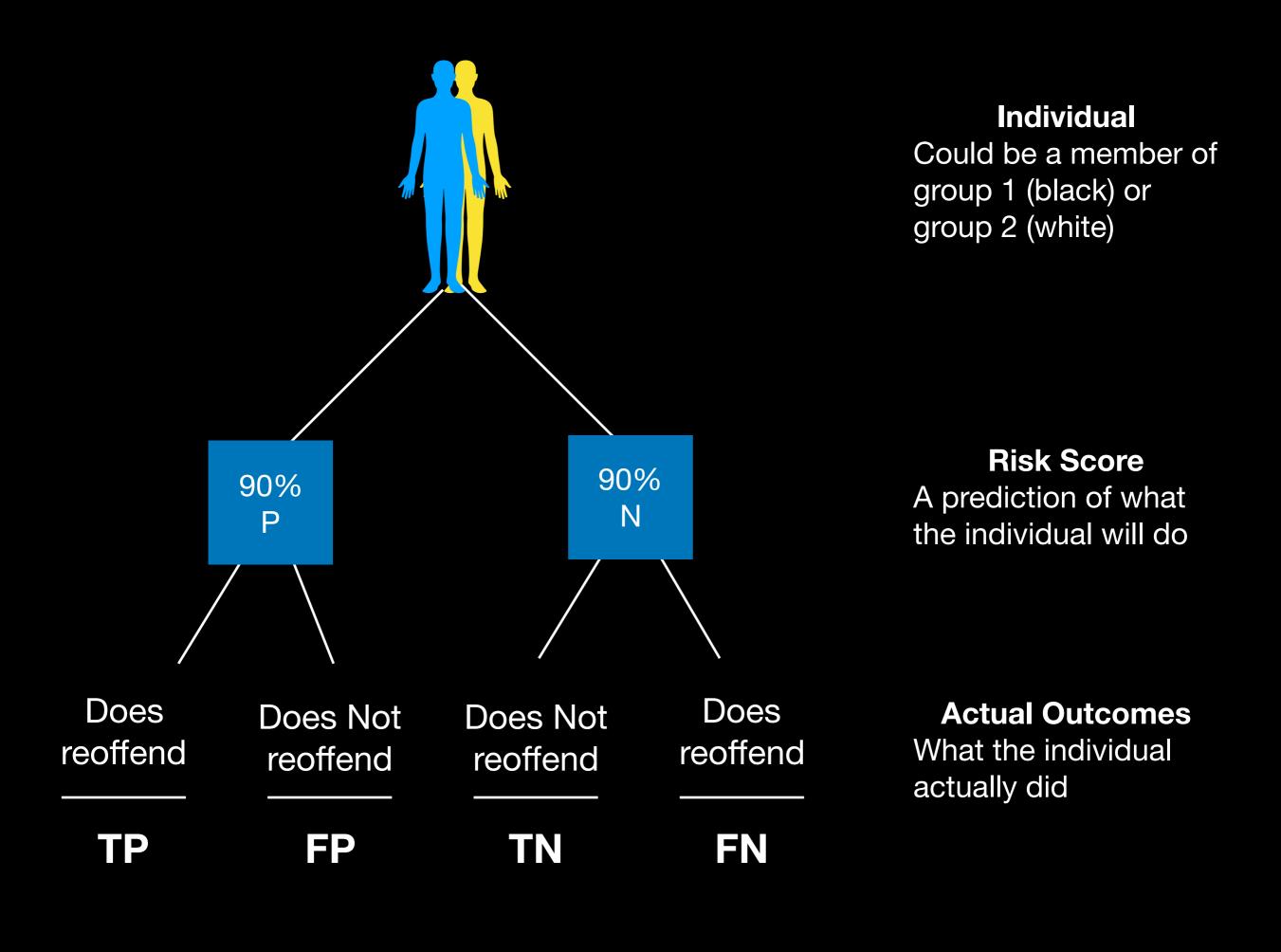
S 4.2 - "intimate image" means a visual recording of a person made by any means including a photographic, film or video recording (whether or not the image of the person has been <u>altered</u> in any way)—



Harassment, Harmful Communications and Related Offences Bill 2017



Algorithmic Risk Prediction



Black Defendants	Higher Risk	Lower Risk	Total	White Defendants	Higher Risk	Lower Risk	Total
Did Reoffend	1369	532	1901	Did Reoffend	505	461	966
Didn't Reoffend	805	990	1714	Didn't Reoffend	349	1139	1488
Total	2174	1522	3615	Total	854	1600	2454

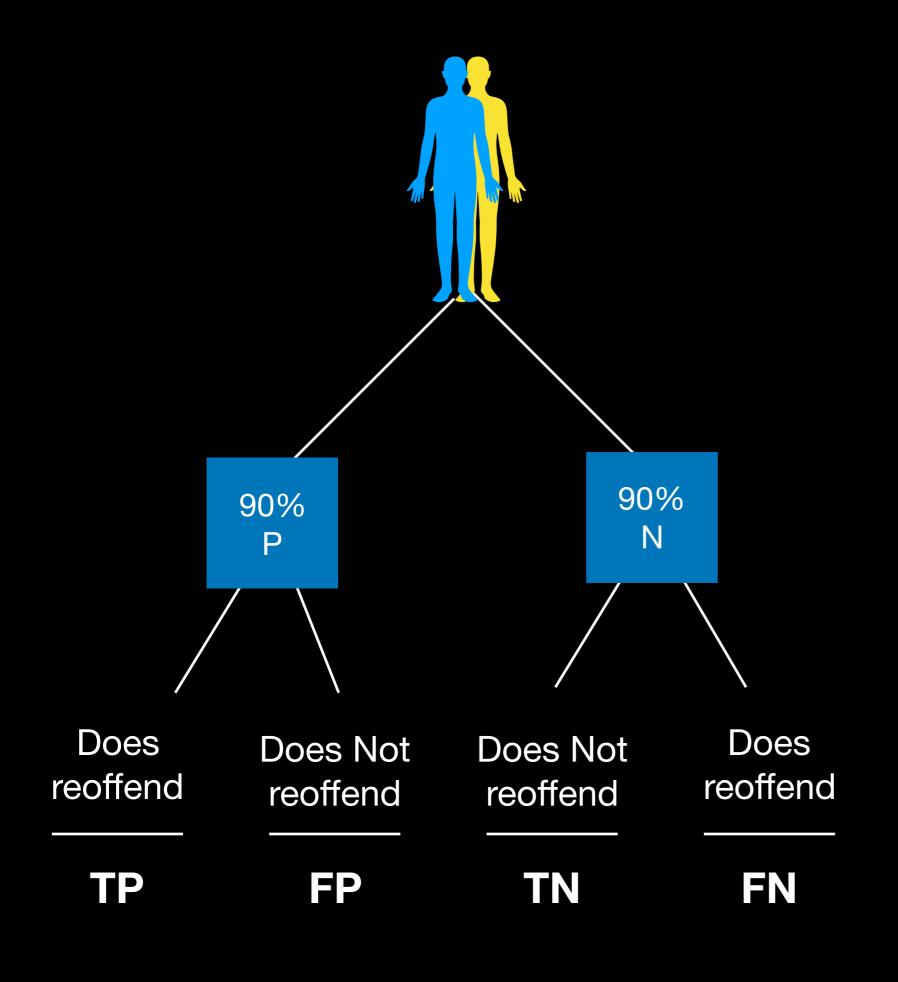
Source: Angwin et al 2016, available at https://www.propublica.org/article/machine-bias-risk-assessments-in-criminal-sentencing (this version taken from Sumpter 2018)

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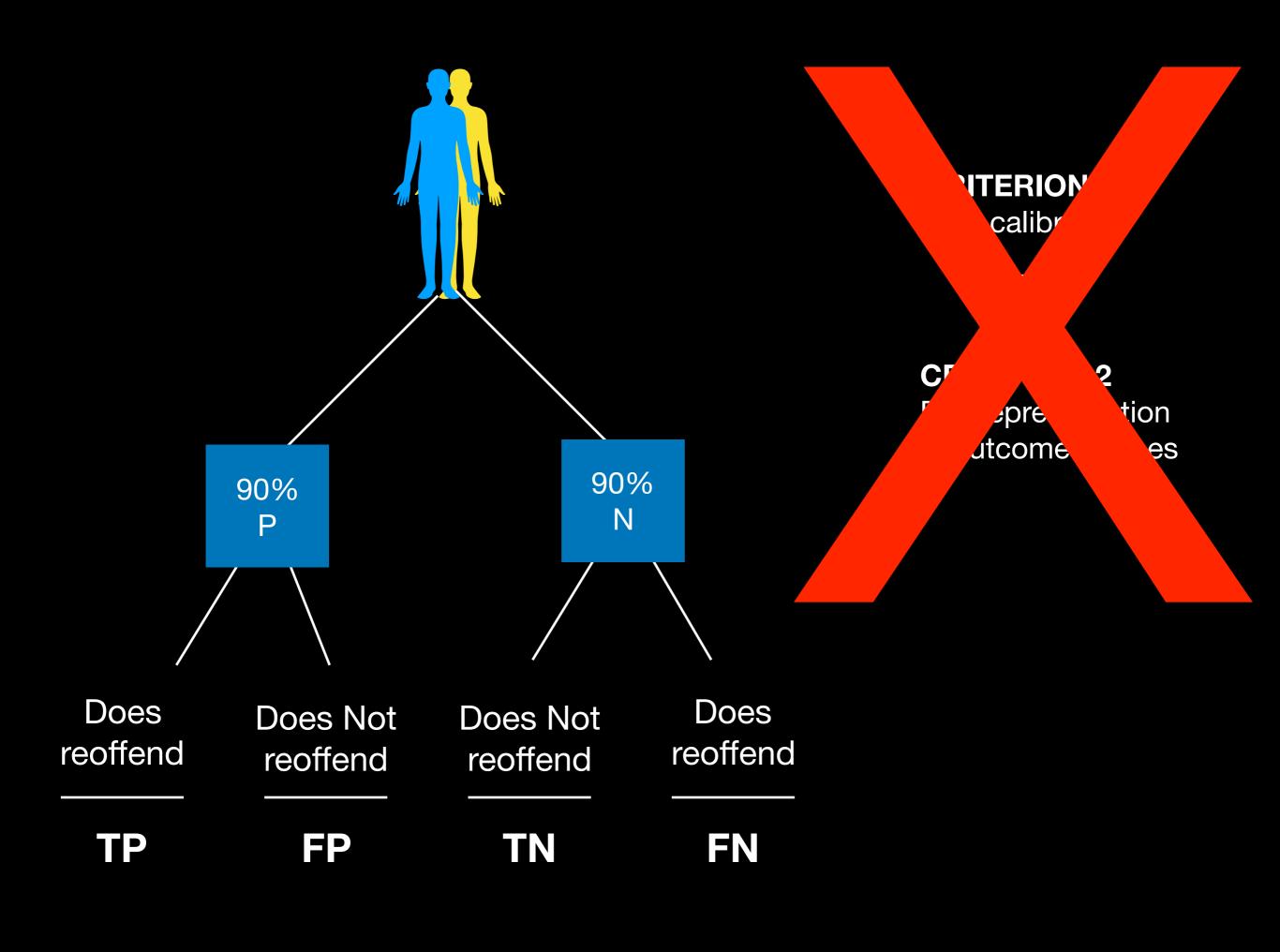


CRITERION 1Well-calibrated



CRITERION 2

Fair representation in outcome classes



Thank You

For Your Attention

John Danaher

NUI Galway

