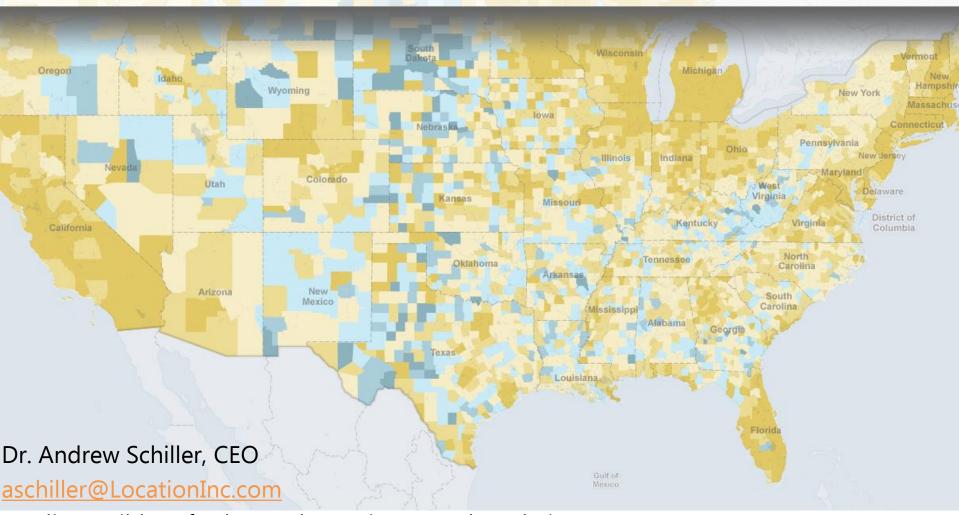
New Advances in Geospatial Property Fire Risk Modeling



Leading Builder of Advanced Location-Based Analytics Location, Inc.

October 2015

Why is Fire Important to Insurers?

- Consistently a top 2 loss type in Home and Commercial Property.
- Not the highest frequency, but highest severity
- Costs P&C industry \$B per year
- Significant room for loss ratio improvement

What Do Insurers Know Today?

- Historical Loss Experience by Policy (& Zip Code)
- Catastrophic Loss Risk (Wildfire)
- Structure (Wood vs Brick, for example)
- Credit (seen predictive of fire losses like accidental or fraud)
- Distance to Hydrant/Fire Station
- Equipment Age/Type (Electrical, Boiler, etc.)
- Code update status

What Do Insurers Know Today?

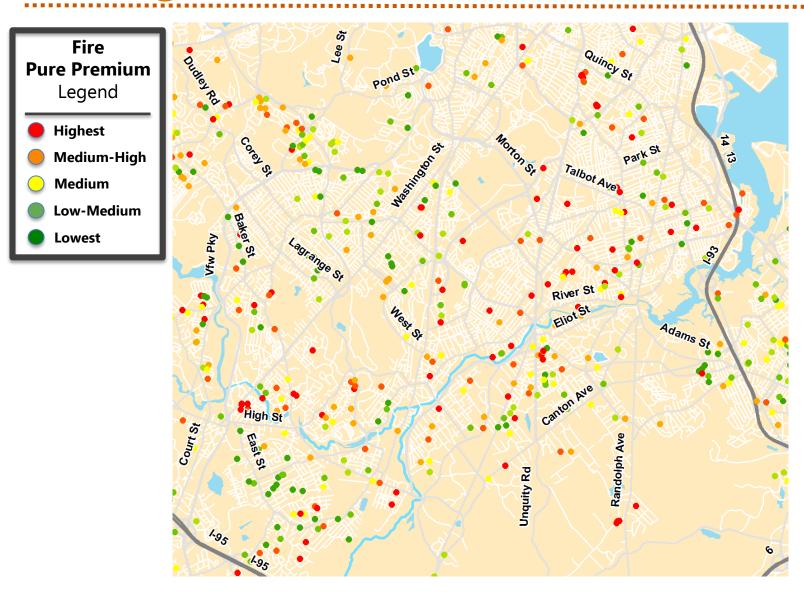
 Not a lot is known about human behavior which can reveal information about frequency and severity

 Credit is used with some value, but more about behavior can be revealed

What's New Here?

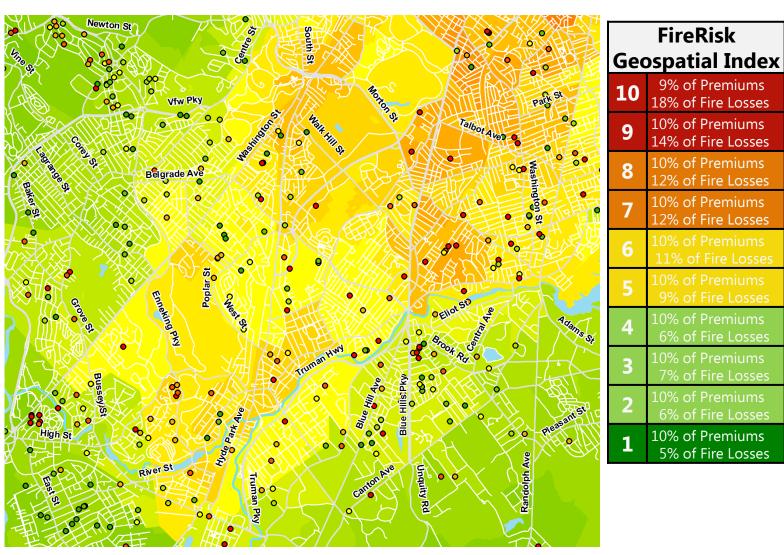
- Precise Location-based Fire Analytics
- Unique Behavioral Risk Models
 - Not Catastrophic
 - Not Equipment Failure
 - Not Building Structure
 - Not ISO Protection Class
 - Not Credit
- 18,000 Sources
- Over 11 Million Points of Risk for the U.S.
- No Redlining

Existing Carrier Fire Pure Premiums



FireRisk Layer Added (Premium Adjustments)





FireRisk

10

8

9% of Premiums

18% of Fire Losses

10% of Premiums

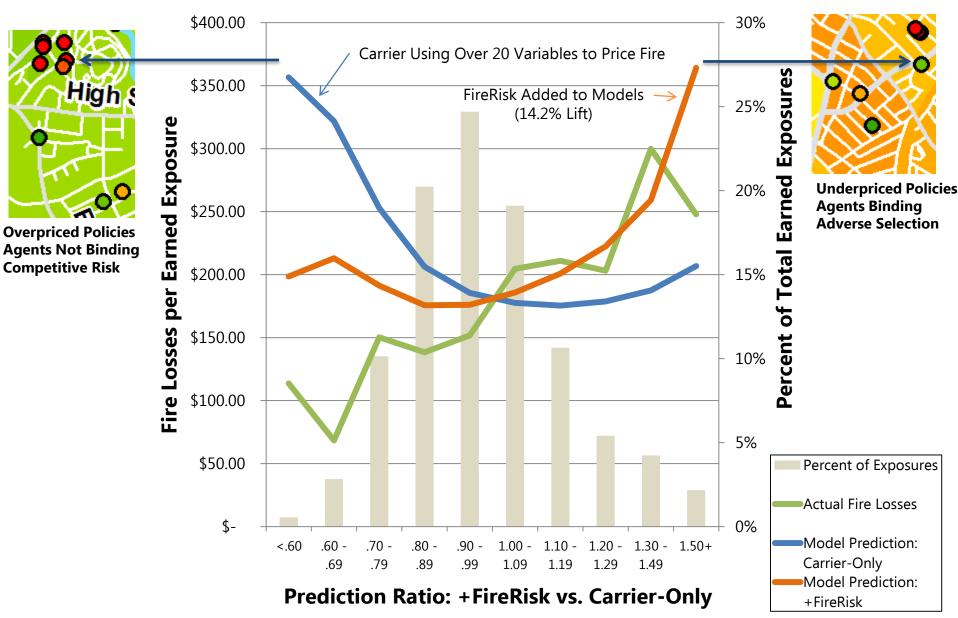
14% of Fire Losses 10% of Premiums

12% of Fire Losses

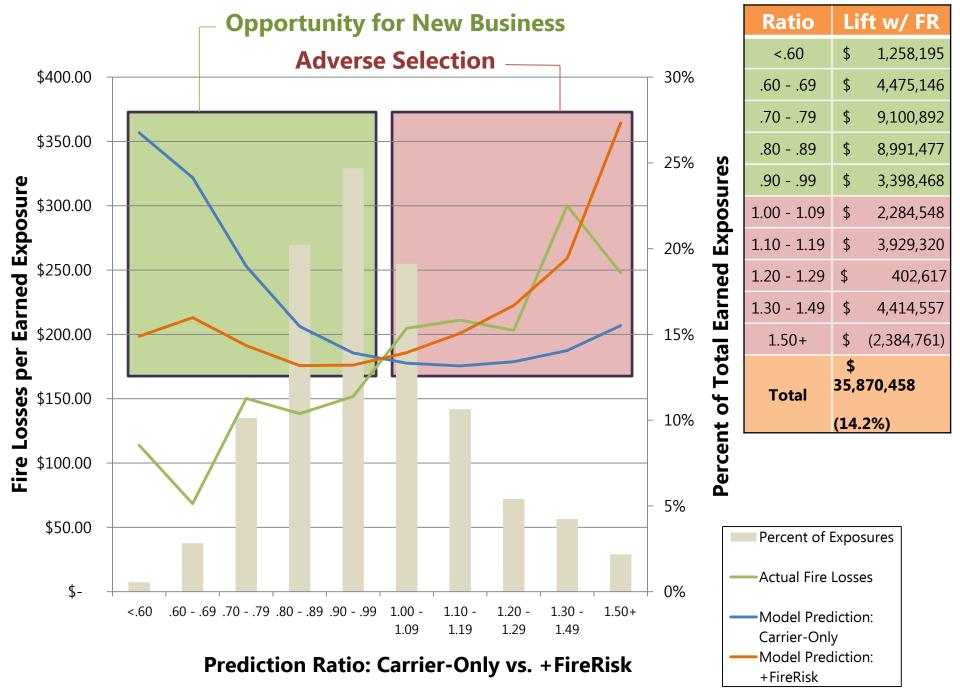
10% of Premiums 12% of Fire Losses

10% of Premiums 5% of Fire Losses

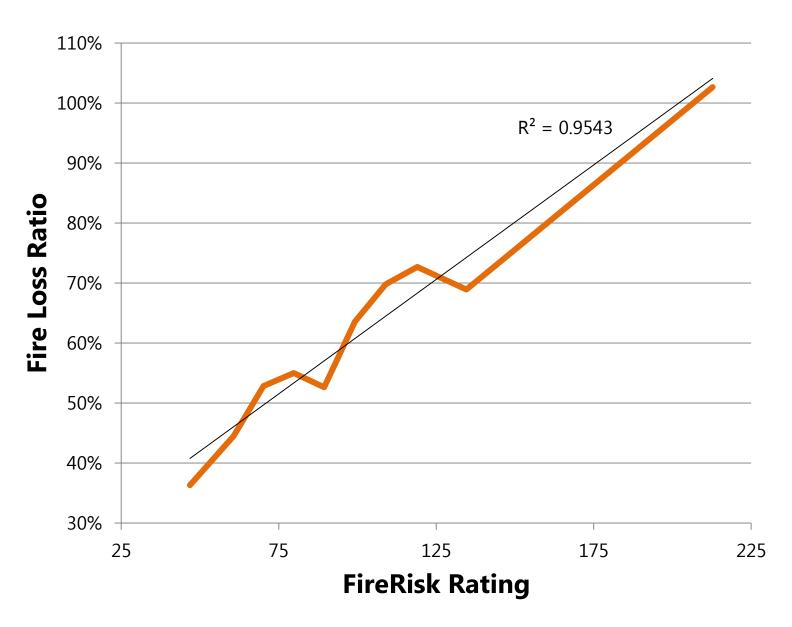
What's Behind the Maps?



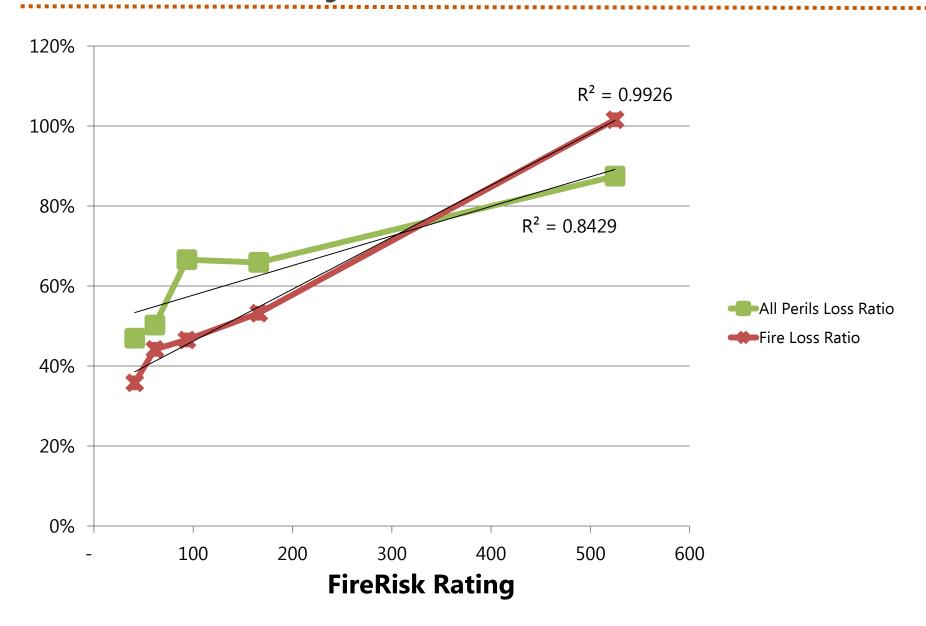
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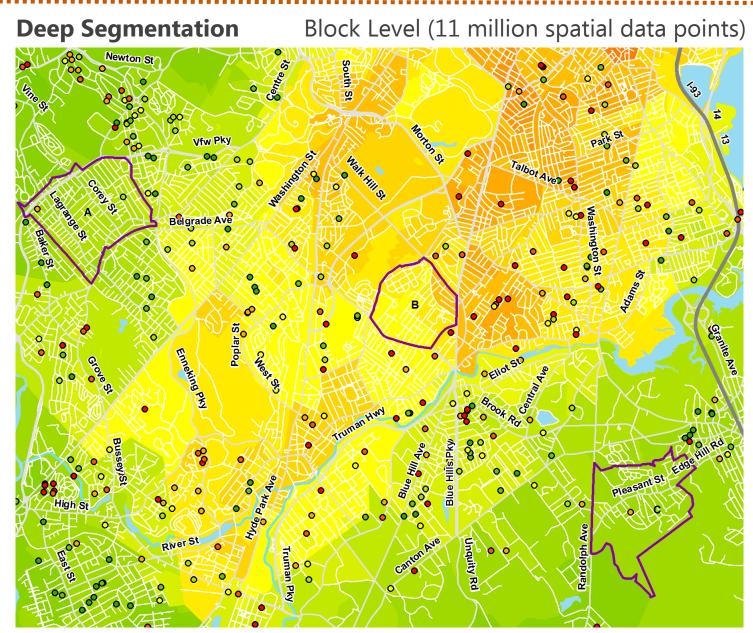
Loss Ratio Analysis – 3 Carriers – 4M Policy Years



Loss Ratio Analysis – Commercial Lines



Discovering New Pockets of Opportunity



Fire Risk

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