# The Broader Solution for Commercial Underwriting from AIR and Verisk Analytics

Managing Catastrophe Risk in Commercial Underwriting Webinar Series
Peter Bingenheimer, Vice President



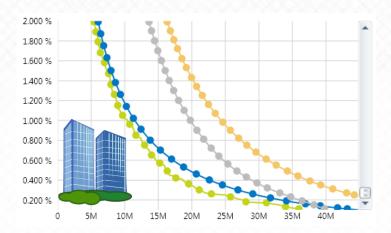
### Webinar Series Agenda



June 2	Own the Risk in Commercial Underwriting in Touchstone
June 23	Using Touchstone for Accumulation  Management and Advanced Geospatial Analysis
July 14	The Broader Solution Set for Commercial Underwriting from AIR and Verisk Analytics



### AIR's Models and Software Are Widely Accepted for Commercial and E&S Underwriting



Enhanced Modeling Capabilities for Commercial Risks



**Access to Verisk Analytics Assets** 



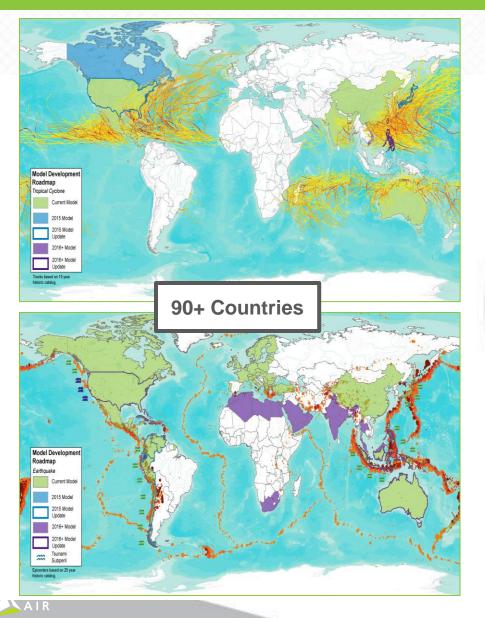
Touchstone® AIR's Comprehensive Risk Management Platform



# Suitability of AIR's Models for Modeling Commercial Risks



### AIR Delivers the Most Robust Models for Risks of All Types Across the Globe







2006 & 2007

U.S. Hurricane

Storm surge

Commercial

vulnerability

Business interruption

### 2007 <u>Terrorism</u> Commercial vulnerability



2009 U.S. Earthquake

- Latest hazard maps
  - Vulnerability

enhancements

 Intro of Industrial Facilities model

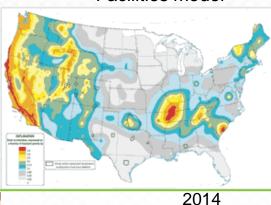


#### 2008 U.S. Hurricane

 GOM hurricane initial model release

#### Severe Thunderstorm

 Commercial vulnerability





2010 U.S. Hurricane

Commercial

Intro of industrial

vulnerability

facilities model

2011
<u>Terrorism</u>
• Commercial vulnerability



Severe
Thunderstorm

• Vulnerability
enhancements
U.S. Flood Model
• Initial model



2012
<u>U.S. Hurricane</u>
• Intro of builder's

risk
U.S. Earthquake

Intro of builder's risk

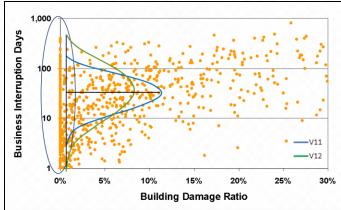


2015
<u>U.S. Hurricane</u>
Storm surge update

### Recent Enhancements to Commercial Lines Modeling for U.S. Hurricane Are Informed by Extensive Claims Data

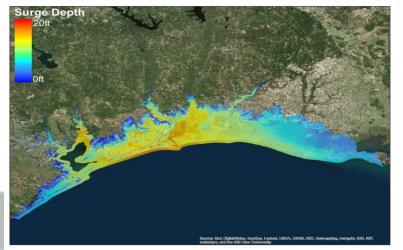
#### Significant enhancements to commercial vulnerability in 2010







### Significant enhancements to storm surge module in 2015

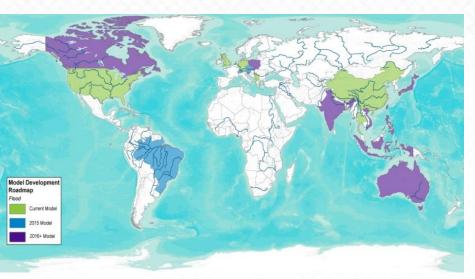






### Our Growing Support for Commercial Lines Extends Far Outside North America

### Focus on water perils globally





Expanded support for specialized risks



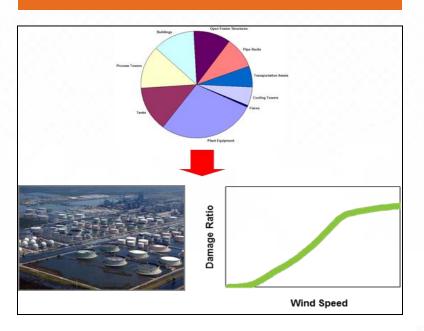


### AIR's Catastrophe Risk Engineering Practice Extends Our Capabilities in Commercial Modeling

Catastrophe Risk Engineering consulting practice offers supplemental services that can help you reduce uncertainty for individual risks and get the best estimate of risk

Expertise developed through these services are being leveraged to enhance AIR's off-the-shelf models

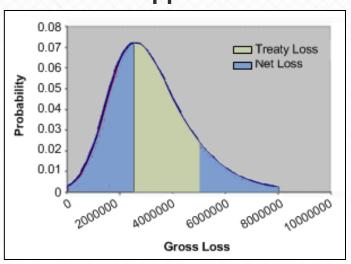






### AIR's Financial Module Offers Superior Handling of Uncertainty and Supports a Broad Range of Terms

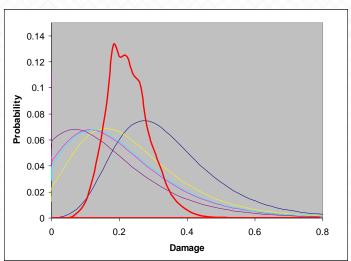
#### Probabilistic application of terms



#### **Back allocation**



#### **Numerical convolution**



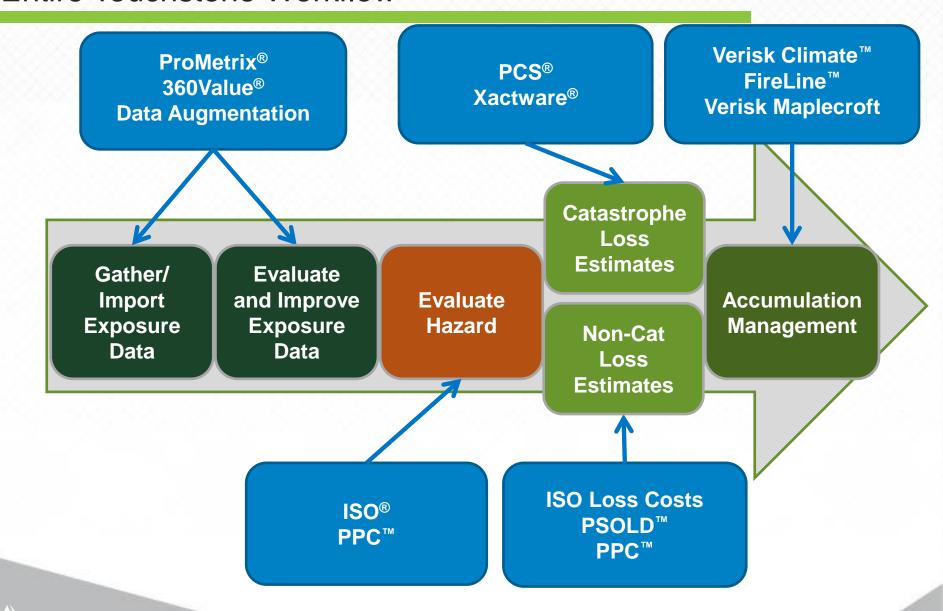
#### **Breadth of supported terms**

Section 1	
USD 75,000,000	per occurrence and in the annual aggregate in respect of Flood and Earth Movement separately
Excess of	
USD 25,000,000	per occurrence and in the annual aggregate in respect of Flood and Earth Movement separately

# Benefits and Additional Capabilities Enabled by Verisk



### Verisk Assets Enhance Capabilities Across the Entire Touchstone Workflow



### Evaluating Exposure Data Is a Critical in Risk Assessment



Occupancy: Unknown

Construction: ISO Fire Class 4

Year Built: Unknown

**Number of Stories:** Unknown



**Occupancy:** Temporary Lodging

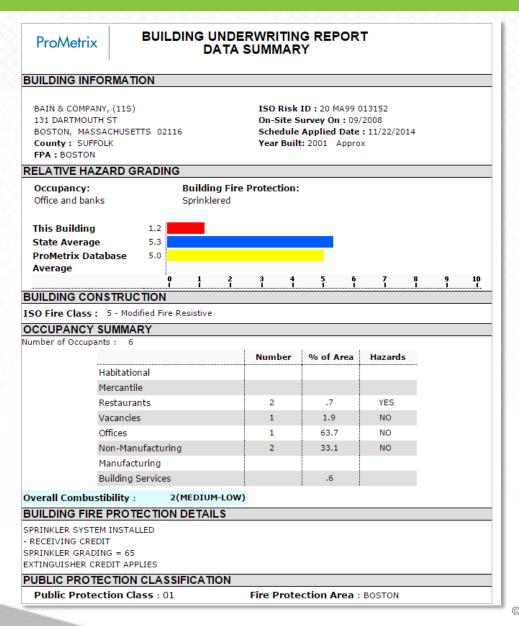
**Construction:** Reinforced Concrete

Year Built: 1991

**Number of Stories: 3** 

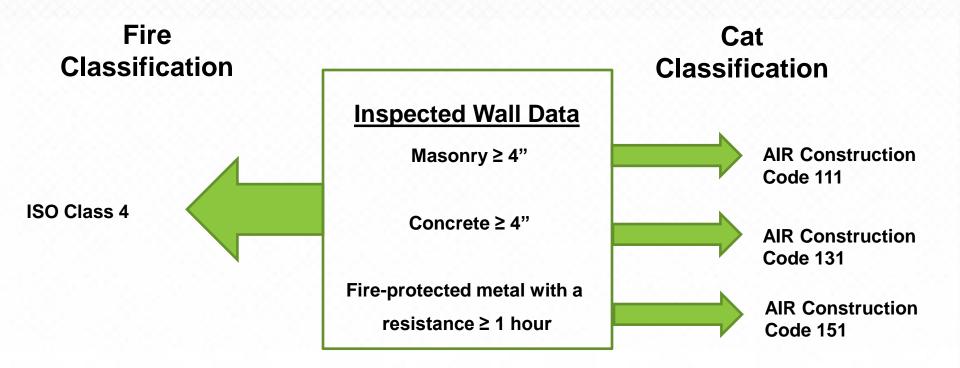


### Improve Your Data with Site-Verified Information to Build Confidence in Your Modeling Results





### AIR Adds Insight to ProMetrix Data Available in Touchstone's Data Quality Analytics Module



### Are You Modeling Adequate Building Replacement Values?

360Value

New Valuation

Risk Reports Search Collaboration User Info Help

Click for help on this form

Address - Use - Structure - Structural Options - Features Results

#### Commercial

Valuation Reports

View Print

English

English & Spanish English & French

Email

Enalish

English & Spanish English & French

Download PDF

Attachments

Risk Reports

Edit Policy

Calculate ACV

CAT Risk Assessment

RMI XMLs

Debug Info

Regenerate Report

#### RESULTS FOR AB6ID6U.1

#### OWNER INFORMATION

AIR Name: 131 DARTMOUTH ST Street:

City, State ZIP: **BOSTON, MA 02116** 

Country:

Seismic Zone: 2A Date Entered: 11/13/2014 Date Calculated: 03/31/2015

Created By: Owner:

Dennis Costello (dcostello) Dennis Costello (dcostello)

#### PROPERTY INFORMATION

AIR Name:

Street: 131 DARTMOUTH ST City, State ZIP: **BOSTON, MA 02116** 

USA

USA Country:

#### ESTIMATED REPLACEMENT COST

Calculated Value:

License Agreement

Pricing Research for 02116

Provide feedback on this value

\$95.733.326.18

The replacement cost amount(s) above represents the estimated cost for a contractor/repair company to rebuild the structure(s) described herein in the referenced geographic market in accordance with current building codes following a total loss. This information is provided on the condition and understanding that it represents only an estimate and that the provider is not responsible for good faith errors. The replacement cost amount(s) includes pricing for labor, materials and contractor's overhead and profit: it does not include costs for excavation or land value.

Bldg #:

(Replacement cost includes all applicable permits, fees, overhead, profit, and sales tax)

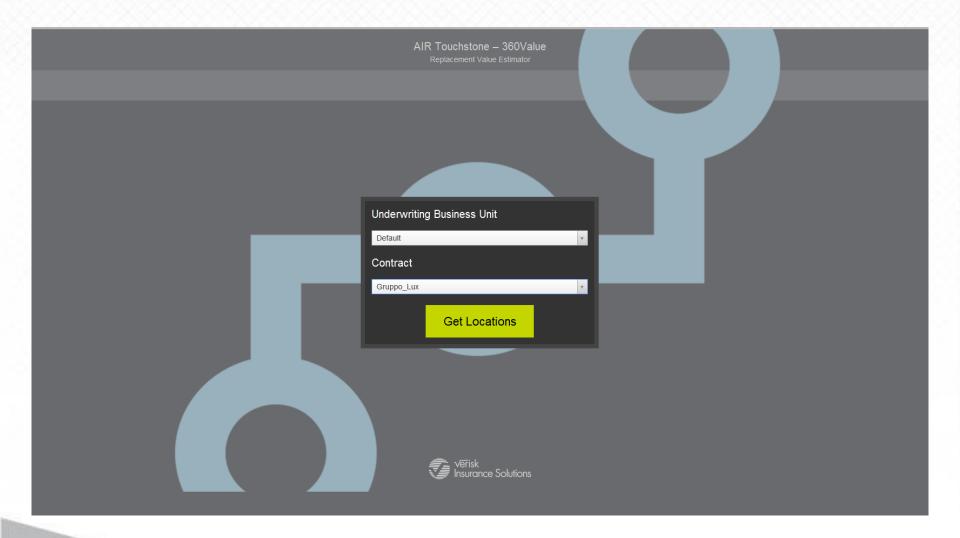
Adjust Value

Edit

Finish

Copy Valuation

### Touchstone Can Be Seamlessly Updated With 360Value Replacement Values





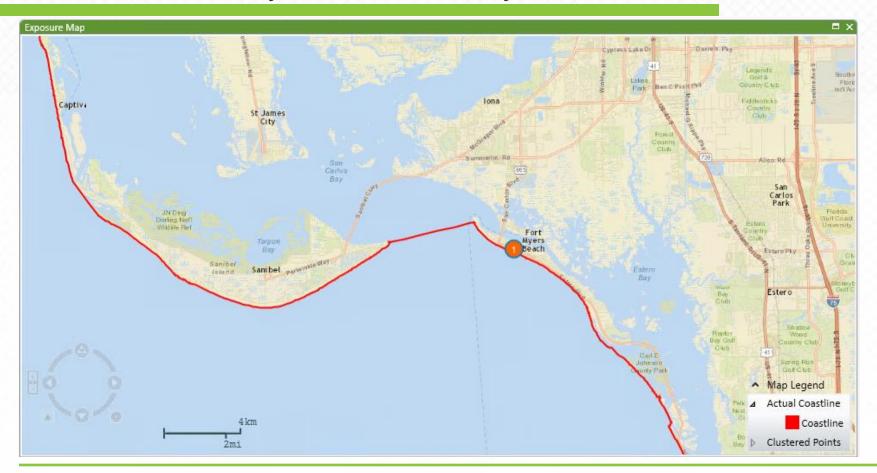
### Touchstone Can Be Seamlessly Updated With 360Value Replacement Values

Home			Replacer	hstone – 36 ment Value Esti essing 20/	mator				
Address	Construction	Occupancy	Year Built	Stories	Area (SqFt)	Building Rep. Val.	360 Building Rep. Val.	Replace?	
42200 ALBRAE ST CA,FREMONT 94538	Wood frame	Temporary lodging	2000	4	75924	\$8,893,811	\$8,038,552.45 \$106		
1020 S FIGUEROA ST CA,LOS ANGELES 90015	Reinforced concrete	Temporary lodging	1964	10	143954	\$20,151,200	\$22,608,182.1 \$157	Ø	
433 W PICO BLVD CA,LOS ANGELES 90015	Masonry	Temporary lodging	1914	4	73625	\$9,307,326	<u>\$7,206,524.99</u> <b>\$98</b>		
1100 EL CAMINO REAL CA,MILLBRAE 94030	Reinforced concrete	Temporary lodging	1950	3	23616	\$4,843,135	\$3,993,615.06 \$169		
2066 BIRD ST CA,OROVILLE 95965	Reinforced masonry	Temporary lodging	1929	0	56211	\$6,426,259	\$5,971,340.82 \$106		
2550 ERRINGER RD CA,SIMI VALLEY 93065	Wood frame	Temporary lodging	1985	3	58000	\$6,118,157	\$5,335,610.53 \$92		
8822 CYNTHIA ST CA,WEST HOLLYWOOD 90069	Wood frame	Temporary lodging	1979	4	68715	\$5,901,123	\$6,373,672.41 <b>\$9</b> 3	V	





### Verisk Offers a Variety of Hazard Analytics



ISO Distance to Coast

Future additions of PPC, FireLine



#### Touchstone Provides a Full View of Risk





**Non-Cat Risk** 

#### **Cat Risk**



**Tropical Cyclone** (Hurricane, Typhoon)



Severe Thunderstorm (Tornado, Hail, Straight-Line Wind)



Extratropical Cyclone (Winter Storm)



Earthquake



**Flood** 



**Terrorism** 

### **TOUCHSTONE®**



Understanding Risk



Fire



**Vandalism** 



Lightning

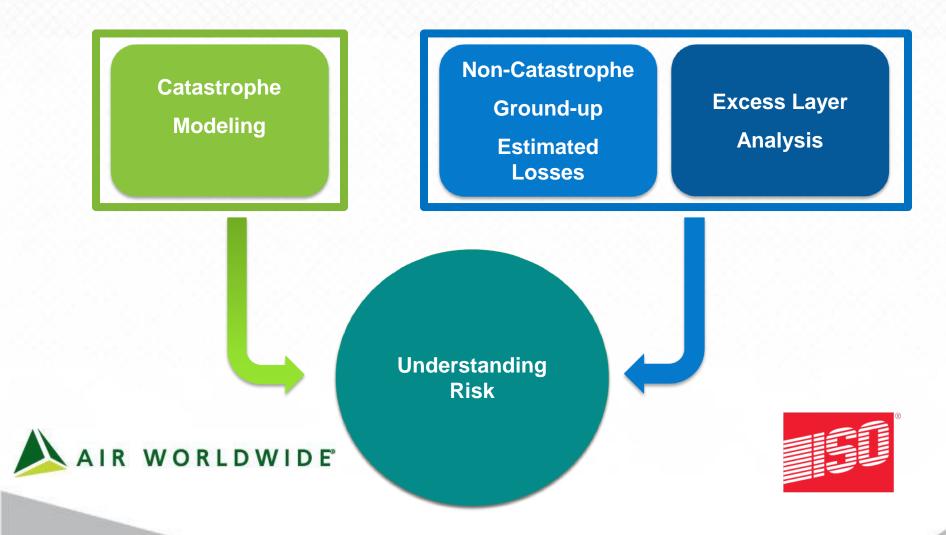


**Explosion** 



**Sprinkler Leakage** 

### Touchstone Offers Ground-Up and Excess Layer Non-Catastrophe Loss Analytics



### Availability of Non-Cat Analysis Capabilities in Touchstone Offer Significant Workflow Efficiencies

#### **Touchstone Workflow**

Import Exposure Data Evaluate/ Improve Exposure Data

Determine Cat Ground-up Loss

Apply Coverage Terms Loss
Estimates for
Specified
Coverage

#### **Non-Cat Workflow**

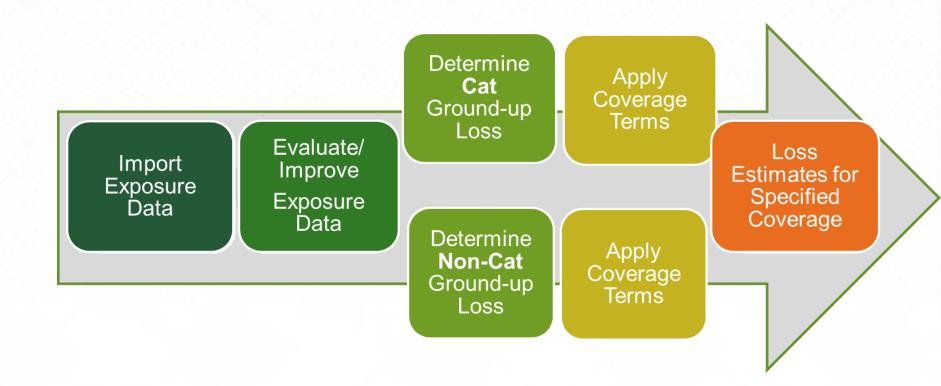
Import Exposure Data Evaluate/ Improve Exposure Data

Determine
Non-Cat
Ground-up
Loss

Apply Coverage Terms Loss
Estimates for
Specified
Coverage

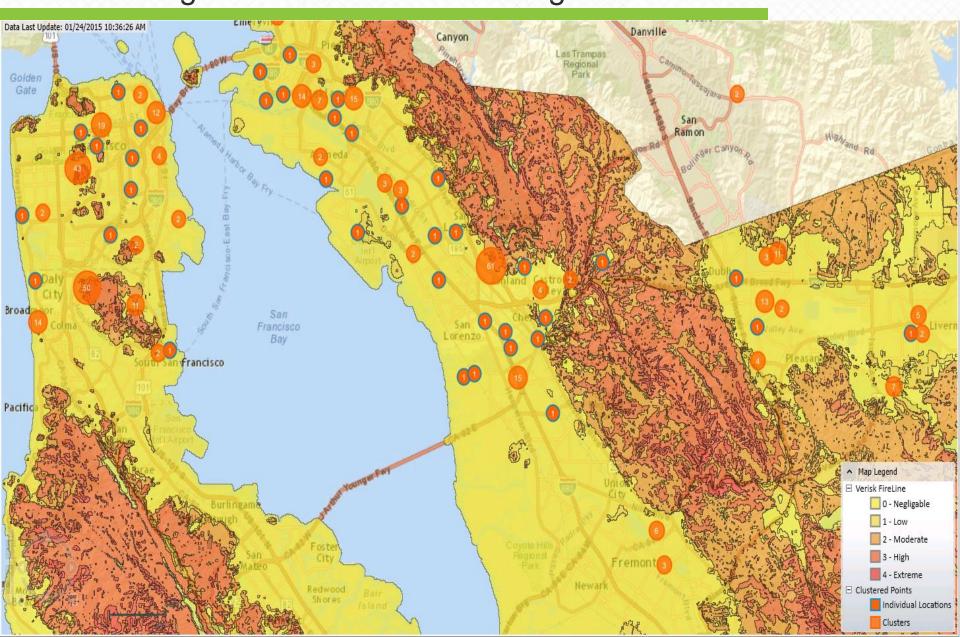
### Availability of Non-Cat Analysis Capabilities in Touchstone Offer Significant Workflow Efficiencies

#### **Touchstone Workflow**

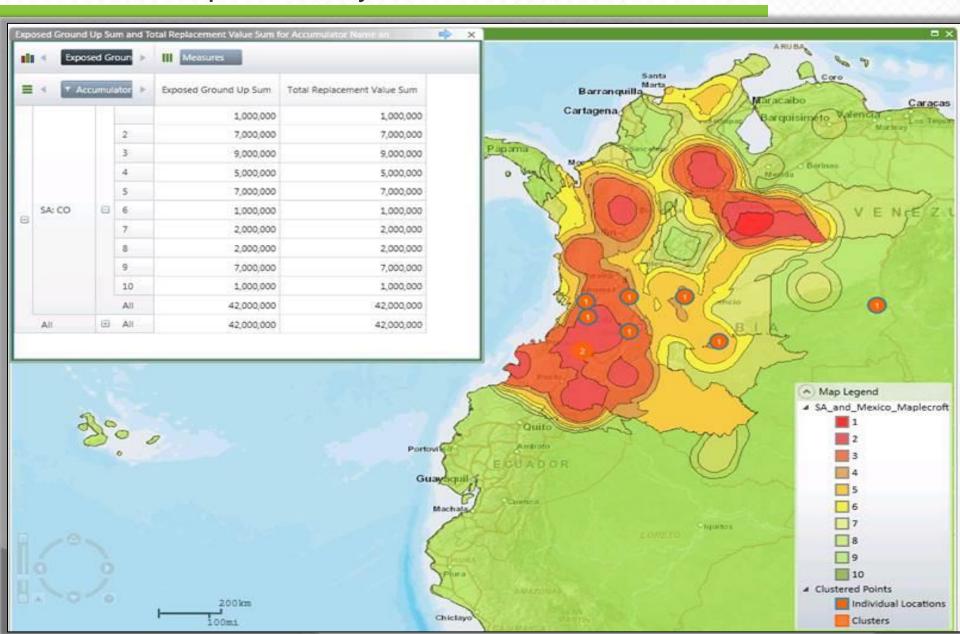




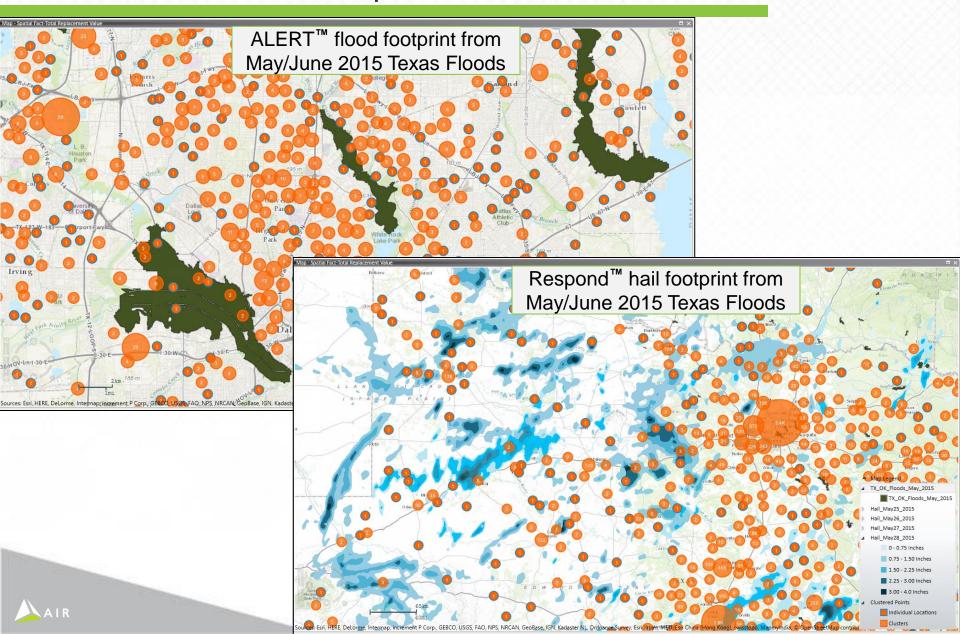
### FireLine Layers Can Be Used in Touchstone For Underwriting and Accumulation Management



### ... As Can Maplecroft Layers



### ALERT and Respond Layers Can Be Used in Touchstone to Assess Exposure in Real Time



### Leveraging Verisk Data







360Value













### Case Study – IFG Successfully Implements the Underwriting Mode in Touchstone

#### **CASE STUDY**

### IFG Companies Successfully Implements the Underwriting Mode in Touchstone

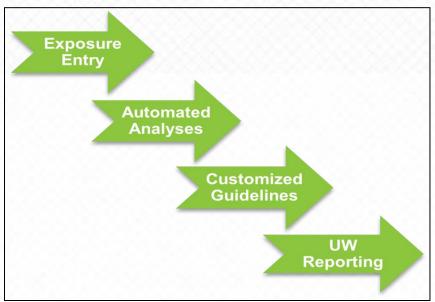
To expand its business with a new commercial property line, IFG Companies (IFG) chose Touchstone as the foundation for its commercial underwriting workflow. With a comprehensive analytics solution provided by both AIR and Verisk, IFG now has the capabilities needed to execute its strategic growth plans.



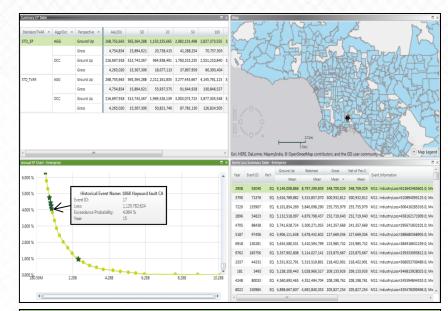
# Touchstone for Underwriting and Portfolio Management



### Touchstone Offers Streamlined Account Underwriting and Portfolio Management Capabilities in a Single, State-of-the-Art Platform

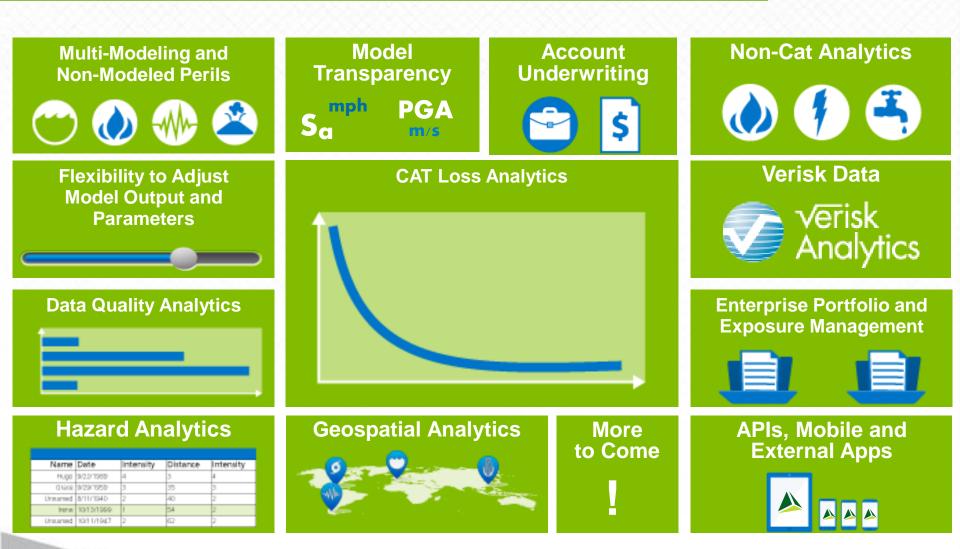








### AIR Has a Proven Track Record of Execution in Delivering a Growing Suite of Analytics in Touchstone...



### ...and a Clear Product Roadmap that Responds to Market Needs

**Account Underwriting, 360 Value Integration** 

**Mapping and Analytics** 

**Loss Blending** 

**AIR Cloud** 



**Deterministic Models** 

Actian (MPP)

Verisk/ISO Data and Analytics

**Enterprise Portfolio and Exposure Management** 

#### Touchstone Has Been Widely Adopted by the Market

120+ companies across the industry have implemented Touchstone

## TOUCHSTONE

