

























































### ABOUT AIR WORLDWIDE

- Twenty five years ago AIR founded the catastrophe modeling industry
- Over the years a large number of companies have come to rely on AIR models' scientific basis and stability as part of their risk management regime
- Model output is an important part of enterprise risk management, from underwriting to ratemaking to risk transfer
- Models are subject to increasing scrutiny in the marketplace
- AIR is a member of the Verisk Insurance Solutions group at Verisk Analytics































#### AIR'S SERVICES FOR CAT BOND ISSUERS

- Detailed loss analysis by perils, LOB and geography or expert portfolio modeling review for the initial offering of new insurance-linked securities
- Documentation that "expertises" the modeling processes, assumptions, and results, including Offering Circulars and Prospectus
- Sensitivity and stress testing to satisfy the requirements of rating agencies
- Presentations, meetings and support to potential *investors* as part of a new issue's "road show"
- Follow-up analyses including post-event loss calculations (*PELCs*), exposure and trigger resets

# AIR PROVIDES INVESTORS IN INSURANCE-LINKED SECURITIES WITH A COMPLETE SOLUTION

- Cat Bond Remodeling
  - Assists investors with performing analyses using AIR aggregate software (CATRADER) and Offering Materials made available to them
  - · Modeling firm compare
- Understand your risk profile
  - Nature, structure and risk profile of individual instruments
    Portfolio probabilities of attachment, expected loss and
  - exhaustion; TVARConcentration of risk by region, peril, type of investment
  - Sensitivity analyses: loading, alternative views of the risk

## AIR PROVIDES INVESTORS IN INSURANCE-LINKED SECURITIES WITH A COMPLETE SOLUTION

- A true whole market strategy is not limited to ILS Reinsurance contracts
  - · Equity investments in insurance and reinsurance companies
- Optimize your portfolio
  - Identify growth opportunities based on permissible risk metrics Identify the best assets for growth based on your specific risk
  - profile • Identify and minimize risk concentrations through hedging
- Assess risk of actual catastrophic events in real time



LOMA RE 2013.	1 SUMMARY OF TERMS						
	Loma Re 2013-1 Ltd. Summary of Terms						
Issuer:	Loma Re Ltd.						
Ceding Insurer:	ARGO GROUP . Argonaut Insurance Company and Lloyd's Syndicate 1200						
Risk Period:	January 1, 2014 to December 31, 2017						
Scheduled Redemption Date:	January 8, 2018						
Covered Event:	Tropical Cyclone, Severe Thunderstorm and Earthquake						
Tropical Cyclone Covered Area:	30 U.S. states <sup>(4)</sup> , the District of Columbia, the Commonwealth of Puerto Rico and the U.S. Virgin Islands.						
Severe Thunderstorm Covered Area:	48 contiguous states and the District of Columbia						
Earthquake Covered Area:	U.S., District of Columbia, Puerto Rico, U.S. Virgin Islands and Canada						
Initial Franchise Deductible:	\$15 million						
Trigger:	Ultimate Net Losses for insurance business, industrry Index for reinsurnace						
Trigger Basis:	Annual Aggregate						
Reset:	Variable Reset at the option of the Ceding Insurer						
Rating:	Unrated						
(ii) Includes: AL, AR, CT, DE RI, SC, TN, TX, VT, VA ar Source: Minket sources and W	PL GA. H. S. IN KY, LA ME, MO, MA, ME, MO, NH, NJ, NY, NC, OH GK, PA. 2007 Themandran Database. CONFIDENTIAL 02014 AR WORLDWIDE 3						



	SUMMARY OF	TERMS (CON	I'D.)
	Loma Re 2013-1 Ltd. S	Summary of Terms	
	Class A	Class B	<u>Class c</u>
riginal Principal Amount:	\$32	\$75	\$65
itial Attachment Level:	\$425	\$325	\$225
itial Exhaustion Level:	\$475	\$425	\$325
isk Spread <sup>(4)</sup> :	TTM + 975bps	TTM + 1200bps	TTM + 1700bps
itial Modeled One-Year Att. Prob.:	4.13%/4.56%	6.04% / 6.84%	10.32% / 11.73%
itial Modeled One-Year Exp. Loss:	3.77% / 4.16%	5.02% / 5.62%	7.95% / 8.99%
itial Modeled One-Year Exh. Prob.:	3.43% / 3.80%	4.13% / 4.56%	6.04% / 6.84%



















Оссиралсу	Earthquake % of Total Insured Value	Severe Thunderstorm % of Total Insured Value	Tropical Cyclone % of Total Insured Value	Total
Permanent Dwelling: Single-Family	8.4%	7.6%	12.1%	28.1%
General Commercial	5.4%	4.6%	8.5%	18.5%
Unknown	4.8%	3.9%	6.5%	15.2%
Apartment / Condominium	2.5%	2.0%	3.0%	7.5%
Professional Technical & Business Services	2.0%	1.4%	1.7%	5.1%
Entertainment & Recreation	1.8%	1.3%	1.4%	4.5%
Universities, Colleges And Technical Schools	1.6%	1.0%	1.1%	3.7%
Religion & Nonorofit	0.89/	0.8%	0.6%	2.9%
General Industrial	0.5%	0.4%	0.0%	1 3%
Others	4.3%	2.8%	3.9%	11.0%
Total	33.4%	26.5%	40.1%	100.0%
Exposure Exhibits • Geocode Match Leve • Construction Type • Number of Stories • Year Built	el			













## AIR MODELING PROCESS (CONT'D)

- STEP 4: Review Offering Materials / Contracts
  - OC/OCS
  - Reset/Calculation Agent Agreement
  - Escrow Agent Agreement
- STEP 5: Initial Issuance Investor Support
  - Road Show / Investor Meetings
    Global Conference Calls
  - · Follow-up questions
- STEP 6: Post Placement Services
- Reset Report
  - Variable Reset Coupon Calculations
  - Event Reports



