

# Non-traditional (Re)insurance



A world of changing capital - don't worry - be happy

October 20, 2014

# Agenda

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3. Capacity Overview
4. History of Non-Traditional Reinsurance
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  - b) Industry Loss Warranties
  - c) Sidecars
  - d) Collateralized Reinsurance
5. Where Are We Now....Where Are We Headed?
6. What Does this Mean...
7. Q&A

In the Headlines...

## In the Headlines...

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- “Alternative Capital could take 50% of cat reinsurance market”
- “Alternative Risk Captures 20% of catastrophe reinsurance market”
- “Berkshire, Nephila et al take on MTA cat risk”
- “Alternative reinsurance capital up 18% to \$59B in first-half 2014”
- “Pine River now working with Allied World on reinsurance venture”
- “Nephila receives \$50mn IBM investment”
- “Ace and BlackRock considering new venture”

Who are These Guys?

# Who are These Guys?

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- Nephila
- Pillar
- Aeolus
- Catco
- Twelve Capital
- Secquaero Advisors
- Securas
- Watford Re

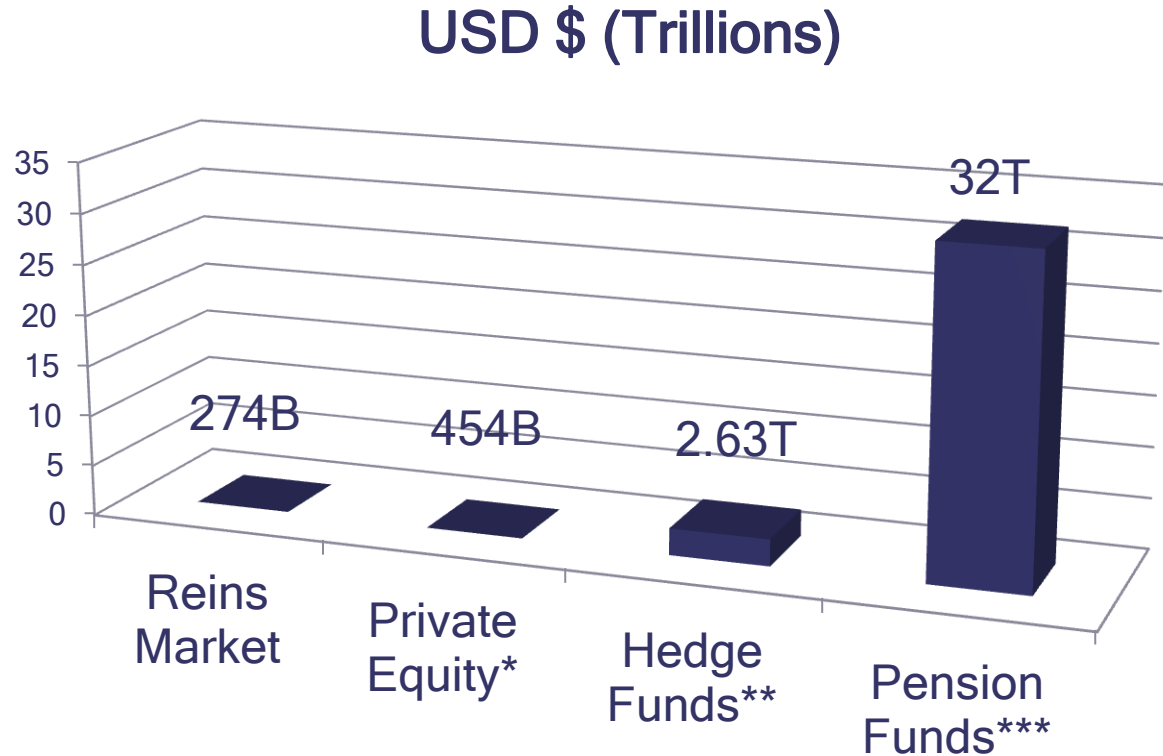
All of the above, and **many** more, have two things in common:

1. They are actively **soliciting traditional** reinsurance from intermediaries; and
2. They are **managing third party capital** on behalf of outside investors

# Capacity Overview

# Capacity Overview

## Macro View of Capacity...



\* Preqin (report Q2.2014)

\*\* Hedge Fund Research, Inc. (report 1.21.14)

\*\*\* Towers Watson (report 2.5.14)



# Capacity Overview

## Occurrence Catastrophe Capacity

Estimated Occurrence Limits in Market:  
(non-traditional market  $\approx$  15% of total capacity)

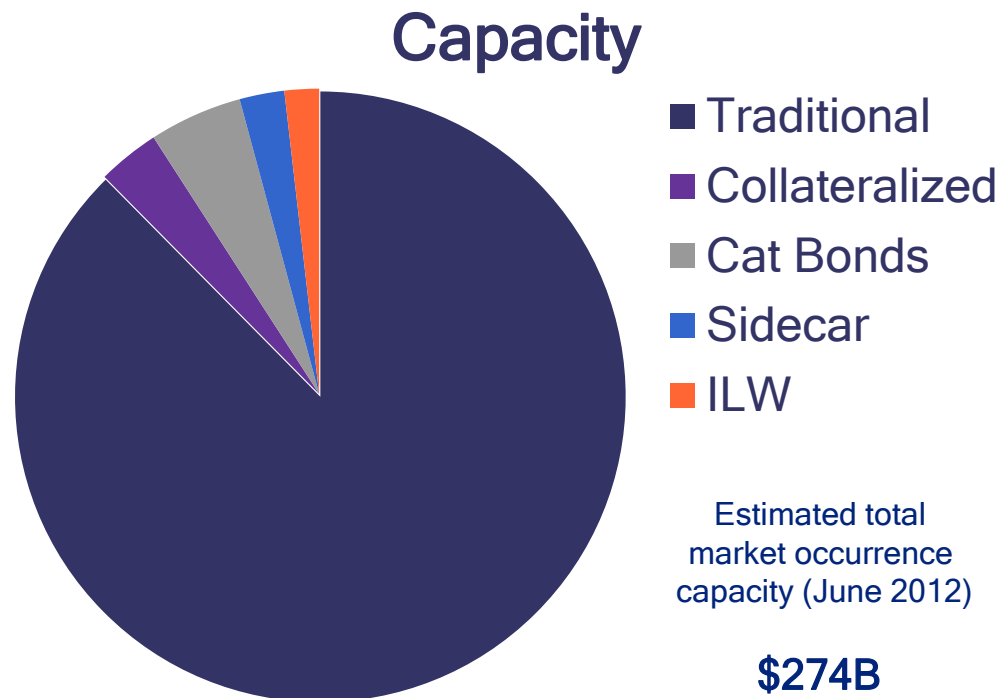
Traditional Reinsurance  $\rightarrow$  \$240B

Collateralized Reinsurance  $\rightarrow$  \$9B

Catastrophe Bond  $\rightarrow$  \$13.5B

Sidecar  $\rightarrow$  \$6.5B

Industry Loss Warranty  $\rightarrow$  \$5B



# History of Non-Traditional Reinsurance

- a) Catastrophe Bonds
- b) Industry Loss Warranty
- c) Sidecars
- d) Collateralized Reinsurance

# History of Non-Traditional Reinsurance

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## What Does it Mean?

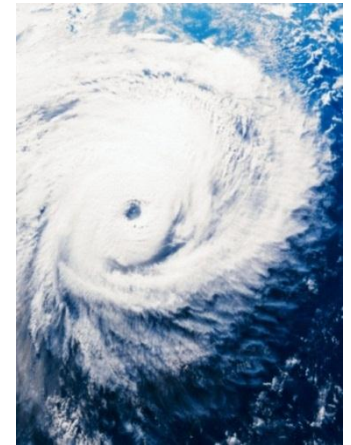
1. Capacity provided through **managed capital**;
2. Risk assumed by **non-equity** (“unrated”) balance sheet

# History of Non-Traditional Reinsurance

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## How Did We Get Here? **1990's**

1. A squeeze on capacity and rising rates from loss events:
  - 1992 Hurricane Andrew - total insured loss \$15.5B (adjusted loss \$46.7B)
  - 1992 Hurricane Iniki - total insured loss \$1.6B (adjusted loss \$2.9B)
  - 1992 Northridge earthquake - total insured loss \$12.5B (adjusted loss \$20.0B)
2. 11 insurance companies insolvent
3. The advent and acceptance of cat modeling, analytics/actuaries and computers
4. Floor on cat pricing developed



# History of Non-Traditional Reinsurance


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## Products Introduced as a Result... **1990's**

1. Catastrophe Bonds
2. Industry Loss Warranties (“ILWs”)

# Catastrophe Bonds

Cat bond is a **debt security** used for high-severity/low-frequency risk

- **Insurer or reinsurer** (the “sponsor”) want to transfer some/all Cat risk
  - Bond is issued by “**Special Purpose Vehicle**” (a separate legal structure established, often by the sponsor)
  - Cat bond proceeds are typically **invested** in low-risk securities (the collateral)
  - Investors: limited partners with experienced dedicated fund manager
  - Periodic **payments** are made to investors:
    - Earnings on collateral
    - Insurance premium paid
-  Variable rate interest payments = LIBOR + Margin (spread)
- Principal from collateral back to investors, if no loss
  - **Sponsor’s right to access** collateral is triggered with covered cat occurrence
  - 3 year term norm; range from 2-4

- Triggers:
- Parametric
  - Modeled loss
  - Industry Loss Index
  - Indemnity
  - Hybrid

# Industry Loss Warranty

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## Utilize Single or Double Trigger:

### Written:

- Double trigger - written by reinsurers or SPVs, as re/insurance OR
- Single trigger - written on an ISDA form, as a derivative

### Triggers:

- Industry loss
  - Measurable industry parameter - PCS/PERILS
- Indemnity feature (Ultimate Net Loss)

### Purchased:

- As gap coverage
- Full payout based on hitting both triggers

# History of Non-Traditional Reinsurance

## How Did We Get Here? 2001 - 2010 (total insured loss)

September 11, 2001 - \$18.8B (adjusted loss \$24.7B)

2004: Hurricane Charley \$7.5B (adj loss \$13.5B)  
Hurricane Ivan \$7.1B (adj loss \$10.7B)  
Hurricane Jeanne \$3.6B (adj loss \$6.4B)

Hurricane Ivan \$7.1B (adj loss \$10.7B)  
Hurricane Francis \$4.6B (adj loss \$7.6B)

2005: Hurricane Katrina \$41.1B (adj loss \$44.8B)  
Hurricane Wilma \$10.3B (adj loss \$14.7B)

Hurricane Rita \$5.6B (adj loss \$6.3B)

2008: Hurricane Ike \$12.5B (adj loss \$14.9B)

- Economic distress
- Acceleration of modeling & risk management techniques
- Rating agencies
- Modeling changes
- Mid-2006: Demand  Supply  Capacity *CRUNCH*

### Florida Market

- Mandated mitigation credit
- Ballooning Hurricane Catastrophe Fund



# History of Non-Traditional Reinsurance

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## Products Introduced as a Result...**2000's**:

**Sidecars** - mostly retros of sponsors

A Sidecar is:

- Special purpose “mini” and **temporary reinsurer** or vehicle (“SPV”)
- Formed by a **sponsor** (usually a reinsurer, who may also act as the manager) seeking to provide additional/substituted capacity
- **Pure insurance risk**, as most other responsibilities (management, operations) remain with sponsor
- To provide a **quota share of specific risks** of the sponsor
- Capitalized by **3<sup>rd</sup> party investors** - hedge funds/private equity firms
  - Equity
  - Debt
- Usually includes investment from sponsor
- Relatively easy to set up = quick response to capital needs = very cyclical
- Most active 2005-07, following very active Cat loss activity

# History of Non-Traditional Reinsurance

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## How Did We Get Here? 2010 and forward

- Federal reserve -- increased **supply \$\$\$**
- Low interest rates
- The **products** being developed made it easy - they were/are efficient/desirable
- **Buyers** have long **memories** (capacity crunch of 2006 and 2007)
- **Investors** actively seeking **higher returns**

# History of Non-Traditional Reinsurance

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## Products Introduced Post **2010**...the way forward

### Collateralized Reinsurance

Traditional reinsurance, written by an **unrated reinsurer**:

- On an UNL, occurrence or aggregate basis
- **Fully collateralized** liabilities utilizing trust agreement (governed) or LOC
- Security of collateralization and collateralization documentation should be carefully scrutinized
- Easy to understand

**Investors/sponsors** include:

- Hedge fund
- Private equity funds
- Re/insurers
- Pension funds
- Big named banks
- Any one with lots of cash

Where Are We Now...Where Are We Headed?

# Where Are We Now...Where Are We Headed?

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## Traditional Reinsurer Viewpoint

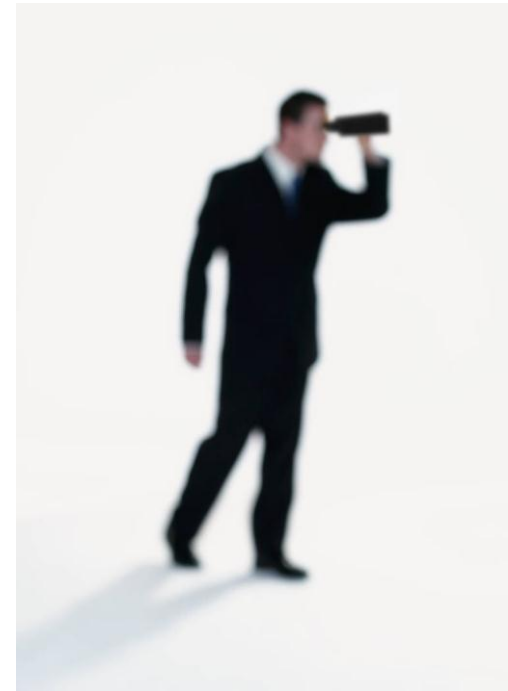
- Reinsurers are seeing the need to **evolve**
- Reinsurers can be **issuers** or **users** of ILS
- Reinsurers evolving into **asset management** role

### Utilizing their:

- Market access
- Risk - assuming expertise
- Modeling abilities

### Reinsurers are:

- Affiliating with ILS managers
- Building ILS platforms/establishing dedicated ILS units
- Entering strategic relationships/partnerships
- Raising 3<sup>rd</sup> party capital



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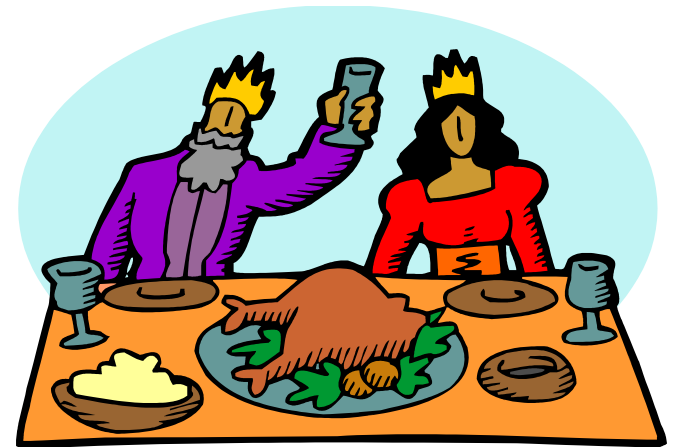
# What does this mean for the program management community?



# Opportunities Abound

## Aggregators of risk are kings and queens of the industry

- **Most valuable** in the (re)insurance food chain = **aggregators/distributers** of risk
  - **Capacity**, in all various forms, is **plentiful**
  - Non-traditional capacity is rapidly developing; trying to **get closer to original risk**
  - Increase in **mergers and acquisitions**
  - Increase in **joint ventures**
  - Good for your **clients** (i.e., the original insureds)





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# Q & A

Thank You