

Advisory Committee on Risk Sharing Mechanisms (ACRSM)

Initial Report of the Committee

May 11, 2020

ACRSM Executive Summary

ACRSM Background

- ❖ Formation & Purpose: Established by Terrorism Risk Insurance Program Reauthorization Act of 2015 to provide advice and recommendations to FIO regarding creation and development of non-governmental, private market risk-sharing mechanisms to protect against losses arising from acts of terrorism

- ❖ Membership: directors, officers, or other employees of insurers, reinsurers, or capital market participants that are participating / desire to participate in the non-governmental risk-sharing mechanisms described above. Current members:
 - Mike Sapnar, TransRe (Chair)
 - Kean Driscoll, AIG
 - John Lupica, Chubb
 - Emil Metropoulos, Guy Carpenter
 - Wendy Peters, Willis Towers Watson
 - John Seo, Fermat Capital
 - Keith Wolfe, Swiss Re
 - Keith Bell, Travelers

ACRSM Activities

❖ Committee Efforts:

- 9 meetings held from February 2016 through February 2020
- Members heard presentations from various sources, including ACRSM members, trade associations, insurance companies, risk modeling companies, academics, U.S. government agencies, and the UK's Pool Re.
- Division of further investigative efforts, with each member participating in a subcommittee addressing a different issue area

ACRSM Findings

❖ Major Findings of the Subcommittees To-Date:

- With TRIP in place, terrorism coverage is available and generally affordable
- As long as insurers are required to offer terrorism coverage, the industry needs a cap on liabilities for losses arising from terrorism events in order to properly price the risk and provide coverage
- There has been and will continue to be a major transference of conventional terrorism coverage from the government to the private sector, but this transference may not be as large for complicated risks presenting significant aggregation exposure, such as cyber and NCBR
- Questions and uncertainty remain about the certification process and timing
- The use of alternative carrier mechanisms, such as captive insurers, can create unbalanced benefits from TRIP as well as issues post-loss
- The Mandatory Recoupment and the growing IMARA can lead to unintended results
- Cyber coverage needs to be studied.
- Total available limits, both public and private, for NCBR coverage remain an issue

Recommendations for Further Study

As part of an upcoming TRIA Effectiveness Study, Treasury / FIO should consider studying the following issues:

❖ Short-Term:

- Cyber: Evaluate the evolving cyber market in the context of the Program, including the issues set forth on slide 22 of this report.
- NCBR: Explore (i) whether a change of the cap, IMARA, and deductibles for NCBR are appropriate; (ii) if not, how to address growing uninsured NCBR risk above the \$100B cap; and (iii) consideration and analysis of NCBR fire following laws and exclusion/inclusion statistics
- Certification Process: Explore ways to resolve uncertainty over the certification process, including:
 - clarification regarding the extent to which cyber incidents that occur outside the U.S. with damage outside the U.S., but with impacts both inside and outside the U.S., are covered and the related certification process;
 - requiring the Secretary to commence a review upon receipt of a written petition by a TRIP participant that can demonstrate at least \$5 million in losses or in industry aggregate losses; and
 - considering shortening certain timelines and increasing the requirement to provide public notices, including: (i) shortening the 30-day notification period for Treasury to notify the public it has commenced a review; (ii) requiring the Secretary to provide public updates of the status of review; and (iii) shortening the 60-day period in which the Secretary must announce an extension of a review.

❖ Long-Term:

- IMARA: Given recent addition of IMARA to the program construct, FIO should look at its impact on the program of indexing IMARA.
- Recoupment: What is the appropriate recoupment? Should there be a mechanism to prevent the government from recouping more than it paid for a terrorist attack?
- Alternative Carrier Mechanisms: Examine ways to limit the incentives to use alternative carrier mechanisms that shift virtually all of their terrorism risk to other policyholders and insurers, including calculating deductibles and co-shares from a number other than Direct Earned Premium for certain types of insurers. Consider the fact that the existing program could expose the unfairness of the program post single parent loss, particularly the issue of recoupment and how much is allocated to the industry vs. the alternative carrier mechanism.
- Risk Transfer: Explore ways for U.S. Treasury to facilitate risk transfer to global risk markets, including the effect pre-funding mechanisms might have on the program and the existing insurance market.
- Non-Profits Availability & Affordability: Consider expanding the study called for under the 2019 Reauthorization Act

Appendix

The following pages provide further detail about each of the areas of concern identified and investigated by the ACRSM

TRIP Was Originally Designed With 2 Goals in Mind

❖ Goal #1—TRIP, as originally designed, provided a framework for market stability to facilitate underwriting of terrorism insurance risk following the terrorist attacks of 9/11/2001

- The most effective feature of the program in this regard was the \$100B program cap
 - Defined the maximum loss
 - Allowed for pricing of risk and underwriting
- Another key feature was the sharing of the maximum \$100B loss spread among:
 - The Federal Government (Federal Backstop) in the Discretionary Recoupment Layer
 - The Insurance Industry in the Insurer Deductible and Copay Layers
 - The Commercial Policyholder Community in the Mandatory Recoupment Layer

❖ Goal #2—Continue to provide a framework for economic and insurance industry stability after a major terrorist attack

Ways TRIP May No Longer Be As Effective in Meeting Goal #1

- ❖ Goal #1— Provide a framework for market stability to facilitate underwriting of terrorism insurance risk, allowing for pricing of risk
 - ACRSM is tasked with recommending non-governmental, private market risk-sharing mechanisms to protect against losses arising from acts of terrorism
 - Alternative Carrier Mechanisms:
 - Post-event forced-risk-transfer to all other policyholders may not be what was meant by increasing “non-governmental private-market risk transfer”
 - This reduces the incentive for insurers to provide coverage at risk-based prices
 - Potential for moral hazard in that companies can use alternative carrier mechanisms to drastically reduce their “skin in the game” which may also reduce incentives to mitigate risk
 - Risk may be shifted from large global corporations with the financial wherewithal to cover their losses to all other commercial P&C policyholders
 - Modifying how TRIP works with respect to certain types of insurers may encourage those using such entities to seek non-governmental insurance industry solutions, and insurers and brokers to work with those companies to find ways to meet their needs.

Ways TRIP May No Longer Be As Effective in Meeting Goal #2

- ❖ Goal #2—Continue to provide a framework for economic and insurance industry stability after a major terrorist attack
 - Changes made over time during previous reauthorizations have significantly shifted risk away from the Federal Backstop
 - Risk is being transferred principally back to the Commercial Policyholder Community and to the Insurance Industry
 - With the clean reauthorization of existing law, this risk shifting accelerates and will continue to erode the viability of the program

How TRIP Responds to a 9/11/2001 Scenario (Then, Now, and in the Future)

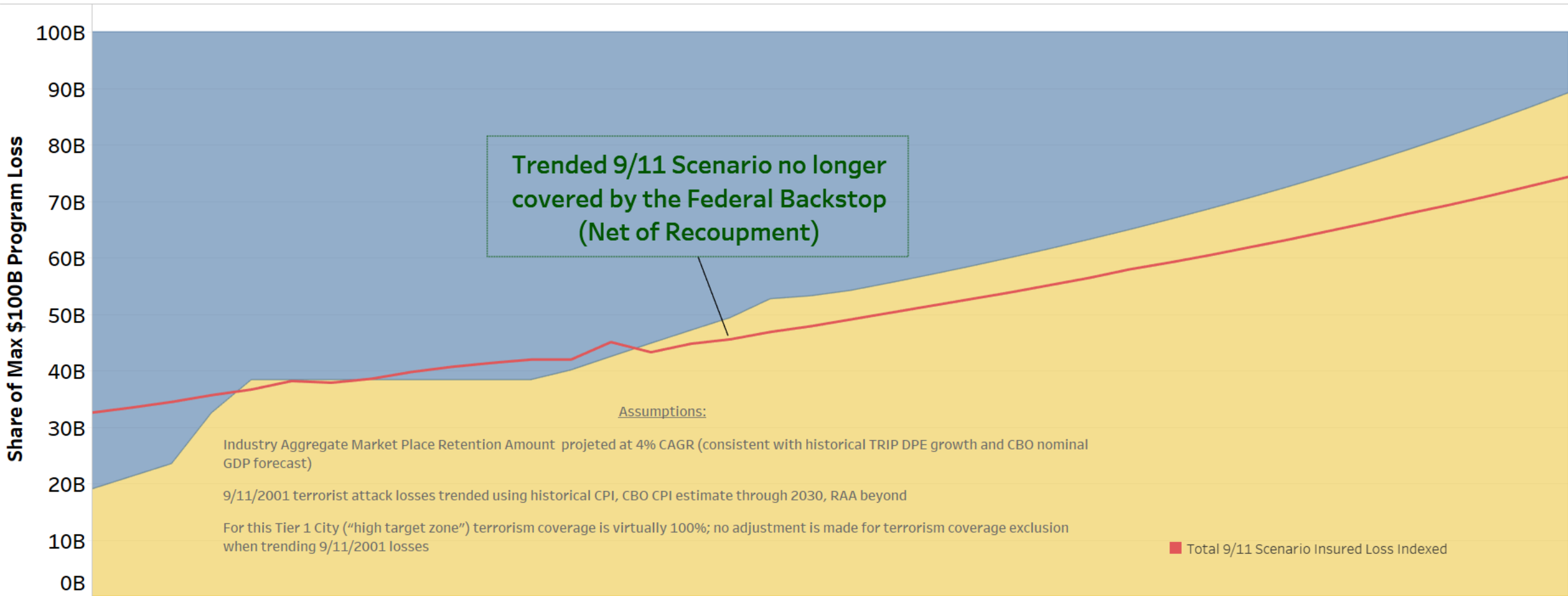
- Originally, TRIP could have substantially handled three 9/11/2001 attacks largely within the Federal Backstop
- As of 2019, after recoupment, the Federal Backstop does not address even one 9/11/2001 attack, which may have been intended as it was contemplated that there would be risk-shifting to the private sector over time
- Going forward (under clean reauthorization), at some point in the future Treasury is projected to actually make billions of dollars in profit under a repeat 9/11/2001 scenario; this may be an artifact of the Congressional Budget Scoring model, but nevertheless should at the very least be acknowledged and an attempt made to address the issue.



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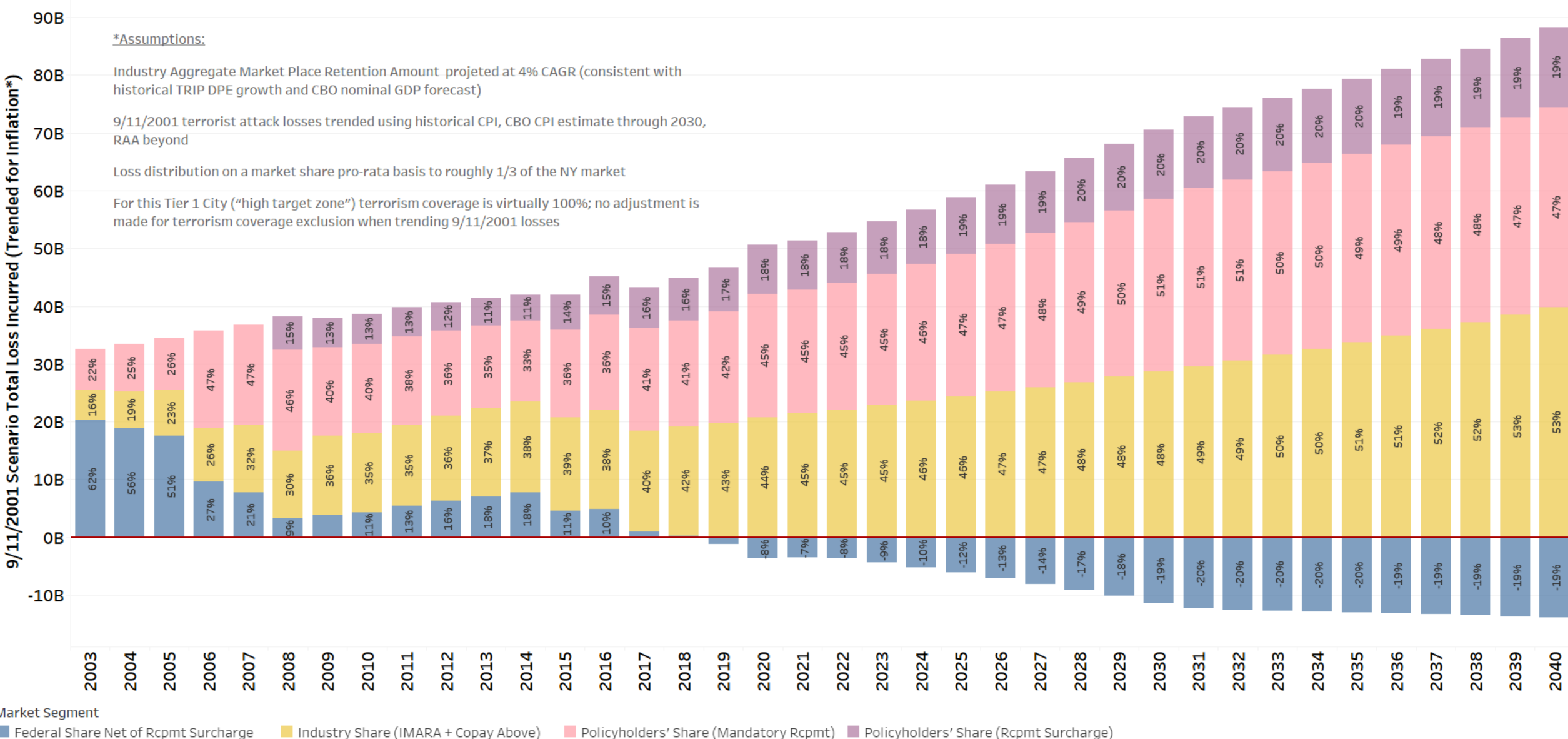
Terrorism Risk Insurance Program Projected Under Clean Reauthorization of Current Law

Market Segment
■ Federal Backstop
■ Industry Share (IMARA + Copay Above)



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040
Industry Share (IMARA + Copay Above)	19%	21%	24%	33%	38%	38%	38%	38%	38%	38%	38%	38%	40%	42%	45%	47%	49%	53%	53%	54%	56%	57%	58%	60%	62%	63%	65%	67%	69%	71%	73%	75%	77%	79%	82%	84%	87%	89%
Federal Backstop	81%	79%	77%	68%	62%	62%	62%	62%	62%	62%	62%	62%	60%	58%	55%	53%	51%	47%	47%	46%	44%	43%	42%	40%	38%	37%	35%	33%	31%	29%	27%	25%	23%	21%	18%	16%	13%	11%

9/11/2001 Attack Scenario Losses by Market Segment Projected Under Clean Reauthorization of Existing Law



The Current Program Expires 12/31/2027

- TRIP was extended through 12/31/2027 with the passage of the Omnibus Fiscal Spending Bill on 12/20/2019, which included a clean reauthorization of the existing program
- TRIP is critically important in providing market stability and without it, a functioning insurance market for terrorism risk would not exist
- Certain issues and program features should be studied in the future
- Any recommended changes or solutions resulting from the studies can be made in any future reauthorization of the program

Program Cap

- Key feature of TRIA that enables insurers to underwrite and price risks that have the potential for extreme levels of catastrophic loss
- From initial passage in 2002 to present, \$100 billion of total industry insured losses for all acts of terrorism within a single calendar year
- Not indexed, so cap has become increasingly relevant
- Future Concern: As IMARA increases and cap remains, more risk placed on industry and policyholders. With 140% mandatory recoupment surcharge, more risk placed on policyholders
- Recommendation:
 - FIO should conduct a study on potential implications of a change in the cap, including whether: (i) there should be a separate cap for NCBR and/or cyber risks; (ii) investigation into what levels of protection make TRIA most effective (i.e., “working” layer vs. extreme tail risk layers); (iii) how changing or indexing the cap would affect large companies with concentrated risks; and, (iv) how changes to the cap would affect insurance company ratings.

IMARA

- Previously, IMARA was a fixed amount that increased incrementally, starting at \$10 billion in 2002 and increasing to \$37.5 billion in 2019
- Beginning in 2020, the IMARA is “the sum of insurer deductibles for all insurers participating in the Program for the prior 3 calendar years”
- Future Concern: With 4% annual premium growth,¹ the IMARA will be over \$58 billion in 2030.
 - All of this would be subject to 140% recoupment
 - Could lead to an increasing number of scenarios in which the government profits from a large-scale terrorist attack.
- Recommendation: With the goals of TRIA in mind, FIO should conduct a study on the appropriate IMARA and whether other aspects of the program should be indexed if IMARA continues to be indexed, including whether the IMARA should be dynamic so that after a certified event the IMARA resets to a lower level

¹ 4% is the P&C Compound Annual Growth Rate from 2011-2018 and is also the Congressional Budget Office’s nominal GDP forecast

Mandatory Recoupment

- Money that is used to reimburse insurers pursuant to TRIA comes from government's general revenue
- Recoupment is the post-event funding mechanism used to pass on the cost of the backstop to the P&C policyholders
- Mandatory recoupment is implemented below the IMARA by taking the lesser of the IMARA or the aggregate amount of insured losses for the calendar year, and subtracting the total amount of insured losses the backstop did not reimburse (because of the insurer deductible and insurer co-share)
- Discretionary recoupment is available above the IMARA.

Mandatory Recoupment Surcharge

- In the original legislation, there was no surcharge.
- With the 2007 renewal, a surcharge of 33% was added so that the mandatory recoupment became 133% of the amount to be recouped by Treasury.
- The 2015 renewal changed the mandatory recoupment surcharge to 140%.
- Future Concern: As the IMARA grows, there are an increasing number of scenarios in which the federal government would actually make money off of the P&C industry and policyholders from a large-scale terrorist attack.
- Recommendation: FIO should conduct a study on appropriate recoupment surcharge and ways to cap the surcharge to avoid situations in which the government profits from terrorist attacks; if FIO concludes that there is no way to avoid situations in which the government profits from certified acts of terrorism under the current CBO scoring, the study can so state, and suggest ways, if any, that Congress might fix this issue.

Unintended Program Dynamics from Alternative Carrier Mechanisms

- **Future Concern**: Even if not designed specifically to avoid the deductible, a corporation can use alternative carrier mechanisms to shift most of its terrorism risk to other policyholders in the P&C market, which would have the effect of decreasing premiums below market price, further reducing their deductibles. See illustration on the following slide.
- **Recommendation**: FIO should conduct a study examining possible ways to prevent unintended consequences through the use of alternative carrier mechanisms to access TRIA, including but not limited to:
 - **Calculating Deductibles**: use a number other than Direct Earned Premium for captive insurers that are not part of an insurance holding company system, such as, **earned revenue**: Since TRIP deductibles for insurance company are based on (i) earned premium of (ii) its affiliate group, one suggestion would be to base the deductible for a captive company on (i) earned revenue of (ii) the ultimate parent. The percentage of this number may need to be much lower than 20% (the percentage of Direct Earned Premium charged as a deductible to P&C insurers) and other adjustments may be necessary as well to arrive at a fair deductible for captive insurers.
 - **Increase Transparency**: Create a registry to be published annually on Treasury's website of insurers participating in TRIP by requiring participating insurers to register each year with Treasury and provide: (i) the name of the participating insurer; (ii) the name of the participating insurer's ultimate parent; (iii) a calculation of the participating insurer's deductible for the calendar year; (iv) the terrorism insurance limits of policies issued, in the case of a captive insurer; and (v) the name and contact information of a responsible officer for the insurer or affiliate group of insurers.

Captive vs. Traditional Insurance Example

2019 Loss: Single Captive Example		2019 Loss: Syndication of Traditional Insurers Example				
Captive			Insurer 1	Insurer 2	Insurer 3	Total Insurers
Loss Limits/Policy Limits	5,000,000,000	Loss Limits/Policy Limits	2,000,000,000	1,500,000,000	1,500,000,000	5,000,000,000
Captive's Premium at 2% ROL	100,000,000	TRIP Lines DPE Nationwide	12,500,000,000	10,000,000,000	8,000,000,000	30,000,000,000
TRIP Max Deductible	20,000,000	TRIP Max Deductible	2,500,000,000	2,000,000,000	1,600,000,000	6,100,000,000
Concentrated Loss Scenario		Concentrated Loss Scenario		Total Insurers		
Loss Amount (Total Policy Limits)	5,000,000,000	Loss Amount (Total Policy Limits)	5,000,000,000			
TRIP Applied Deductible	20,000,000	TRIP Applied Deductible	5,000,000,000			
Captive's Copay Above Deductible	996,000,000	Captive's Copay Above Deductible	-			
2019 IMARA	37,500,000,000	2019 IMARA	37,500,000,000			
Federal Share	3,984,000,000	Federal Share	-			
Federal Share Discretionary Recoupment	-	Federal Share Discretionary Recoupment	-			
Federal Share Mandatory Recoupment	3,984,000,000	Federal Share Mandatory Recoupment	-			
Recoupment Surcharge	1,593,600,000	Recoupment Surcharge	-			
Total Assessment to Policyholders	5,577,600,000	Total Assessment to Policyholders	-			
Total Insurers' Share	1,016,000,000	Total Insurers' Share	5,000,000,000			
Total Federal Backstop	-	Total Federal Backstop	-			
Total Loss Incurred	6,593,600,000	Total Loss Incurred	5,000,000,000			20

Cyber Coverage

- 2016 Treasury guidance stated:
 - Insurance lines regulated under TRIP that include cyber risks are subject to the program
 - Stand-alone cyber liability policies are also subject to the program
- Future Concern: There are certain elements of cyber risk that Treasury did not contemplate at the time regulations were promulgated:
 - As TRIA currently only covers damage within the U.S. except for some specific exceptions and cyber could impact U.S. interests in many areas outside the U.S., how would TRIP deal with unique situations in which cyber operations are conducted from remote locales and occur outside the U.S., yet still have an impact on U.S. interests (*e.g.*, NotPetya)?
 - How would delays in attribution affect certification timelines?
- Recommendation: As part of an upcoming TRIA Effectiveness Study, Treasury should review the following cyber related issues and how they impact TRIA coverage and the evolving cyber market:

Possible Areas to Study within Cyber

Treasury could study the following cyber related items and how they impact TRIA coverage and the evolving cyber market:

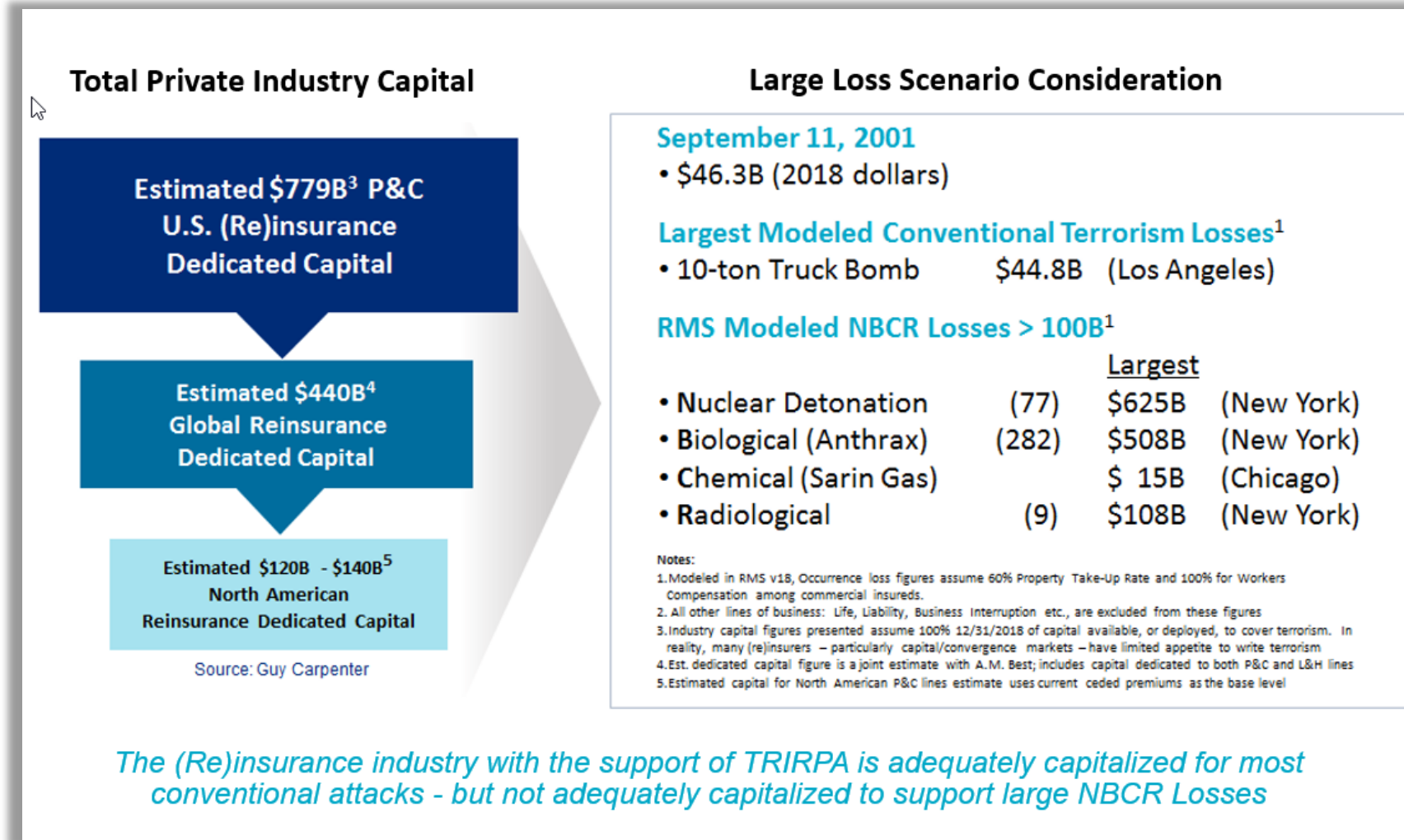
- Explore the various types of cyber operations and how they occur
- Identify the various types of economic loss associated with cyber operations
- Examine the effects and severity of cyber operations and the potential impact on certification
- Consider whether being unable to determine intent or attribution could impact certification
- Consider how certification would work for events occurring outside the U.S. that impact U.S. citizens and U.S. companies
- Review current definitions of cyber liability and insured loss to ensure intended scope of coverage
- Explore aligning definitions of terrorism across various federal agencies
- Consider the impact war exclusions have on cyber coverage under TRIA
- Review the current certification regulations to determine if adequate transparency and certainty exists
- Engage further with IFTRIP to account for potential interaction with other terrorism reinsurance pools and try to minimize any gaps

NBCR Coverage

- FIO Report Conclusions
 - There are various exclusions / limitations to coverage under many insurers' terrorism risk reinsurance, typically for exposures at particular locations and more generally for NBCR risks
 - Because many insurers exclude NBCR risks under P&C policies (except Workers Compensation), the amount of direct insurance coverage for such risks may be substantially limited
 - Regardless of the amount of direct coverage available for NBCR exposures, it is less likely to be supported by private reinsurance than conventional terrorism
 - Primary Workers Compensation policies are required by statute to provide coverage for terrorism risk, and thus the effective take-up rate for this line is 100 percent

NBCR Coverage

- Efficacy of Private Market Capital for Terrorism



NBCR Coverage

- Future Concerns:

- As time goes on, there is an increasing likelihood of an NBCR event exceeding the \$100B cap, resulting in a greater portion of such event being uninsured
- Aggregation risks presented by terrorism in conjunction with difficulty in modelling potential from NBCR exposure from both frequency and severity standpoint = limiting factor on development of private reinsurance capacity

- Recommendation:

- Explore whether a change of the cap, IMARA, and deductibles for NBCR is appropriate and, if not, how to address growing uninsured NBCR risk above the \$100B cap
- Explore and analyze NBCR fire following laws and exclusion/inclusion statistics based on TRIP Data Call to further the understanding of what portion of NBCR modelled losses may be insured and uninsured (by state)
- Include in any study other lines of business that are not currently TRIA-eligible

Lack of Prefunding Mechanism

- No upfront premium or charge means some insurers struggle with how to price terrorism risk fully and appropriately
 - Erodes ability to adequately convey pricing signal for risk
 - Negatively impacts ability to effectively communicate benefits of mitigation
- FIO/Treasury are left to administer TRIP without benefit of full risk and pricing information = difficult to assess required changes and respond appropriately after large event
- Future Concern: Acknowledging the established funding mechanism will not change in the near term, how can FIO & Treasury administer TRIP effectively and facilitate the private market's understanding of terrorism risks and mitigation benefits?
- Recommendations
 - Invest in FIO staffing, including small dedicated analyst team focused on terrorism risk modelling, with budget and scope allowing for the pursuit of modelling partnerships with private industry and foreign governments.
 - Collect from participating insurers data on exposure and mitigation efforts
 - Explore ways for U.S. Treasury to facilitate risk transfer to global risk markets, including the effect pre-funding mechanisms might have on such risk transfer.

Certification Process

- To facilitate economic recovery, a definitive determination whether an act of violence amounts to an act of terrorism is needed
- However:
 - No prescribed time period for a decision; and
 - No requirement or timeframe in which Secretary of Treasury must declare that a particular act is not an act of terrorism
- Treasury conducted study and published interim final rule in 2016:
 - “it would not be prudent to adopt . . . a timeline that includes strict deadlines”
 - Reasoning: (i) investigation could take months or even years and (ii) insurance losses may take substantial time to develop
- Future Concern: Economic and insurance market instability may resurface post-event, counter to TRIP’s Goal #2
- Recommendation: Explore resolution of certification process with FIO administratively, including clarification regarding the extent to which cyber incidents that occur outside the U.S. with damage outside the U.S., but with impacts both inside and outside the U.S., are covered and the related certification process

Availability and Affordability

- Previous studies have been mandated on availability and affordability of coverage for: “group life coverage” and NCBR (2005 extension); “specific markets” (2007 reauthorization); and small insurers, including State workers compensation carriers (2015 reauthorization).
- 2015 Reauthorization also mandated GAO study on: (i) viability and effects of assessing and collecting upfront premiums; and (ii) creating capital reserve fund (GAO-17-62)
- 2019 Reauthorization calls for study on availability and affordability of coverage for “houses of worship”
- Perhaps expand the study called for under 2019 Reauthorization to include non-profit charitable organizations organized under IRC s. 501(c)(3)