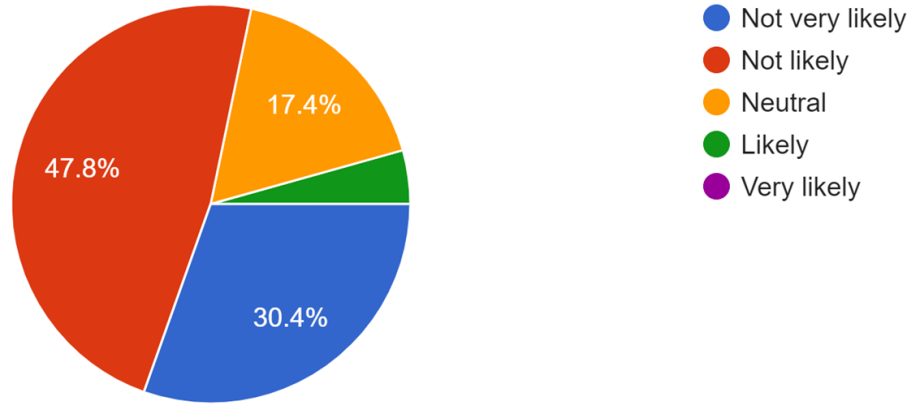


The Future of Nuclear Weapons, Statecraft, and Deterrence After Ukraine

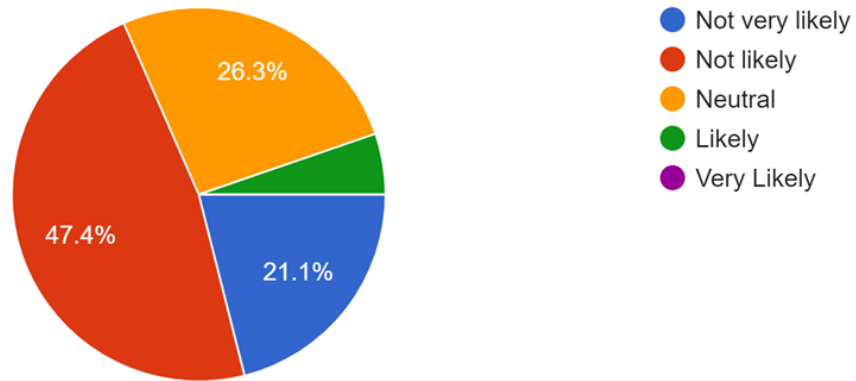
Thomas J. Shattuck
Perry World House
University of Pennsylvania

How likely is it that Vladimir Putin will use/launch a tactical nuclear weapon inside of Ukraine?

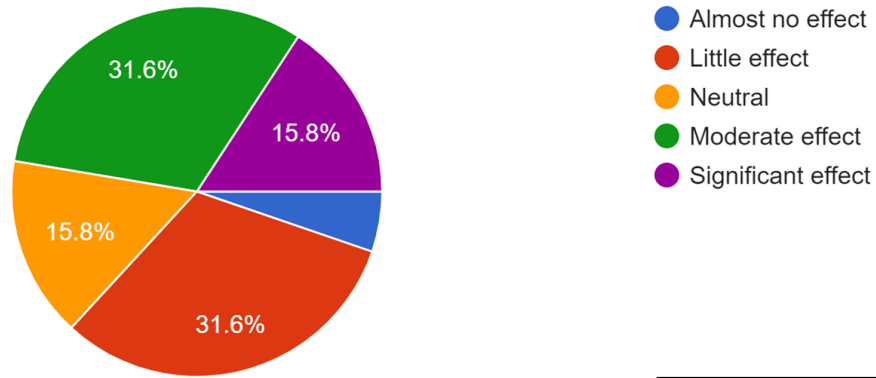


April 2023 (top) vs. September 2023 (bottom)

How likely is it that Vladimir Putin will use/launch a tactical nuclear weapon inside of Ukraine?

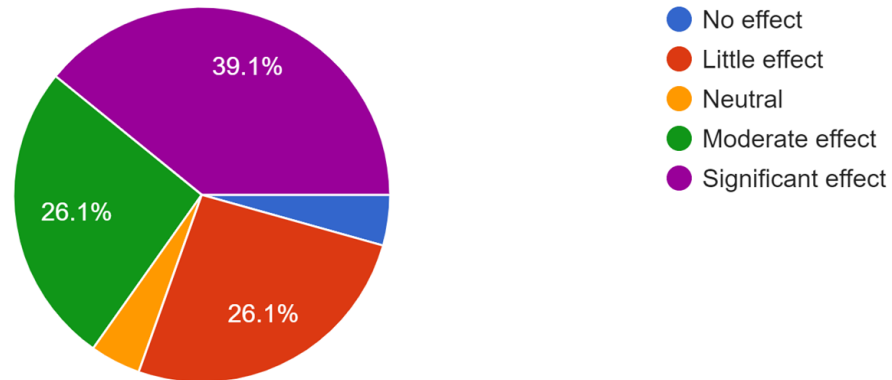


What effect has Vladimir Putin's threats to use a tactical nuclear weapon inside of Ukraine changed the dynamic of the conflict?

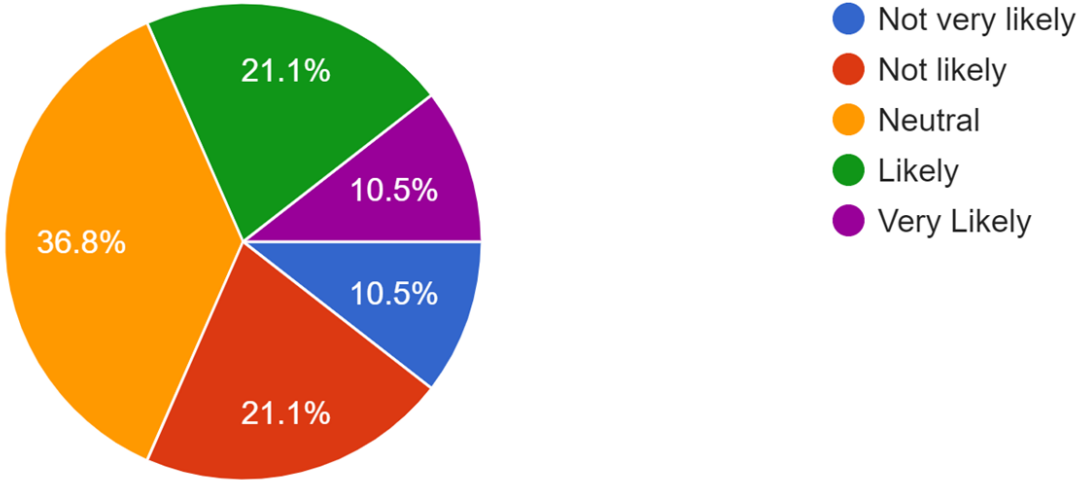


April 2023 (top) vs. September 2023 (bottom)

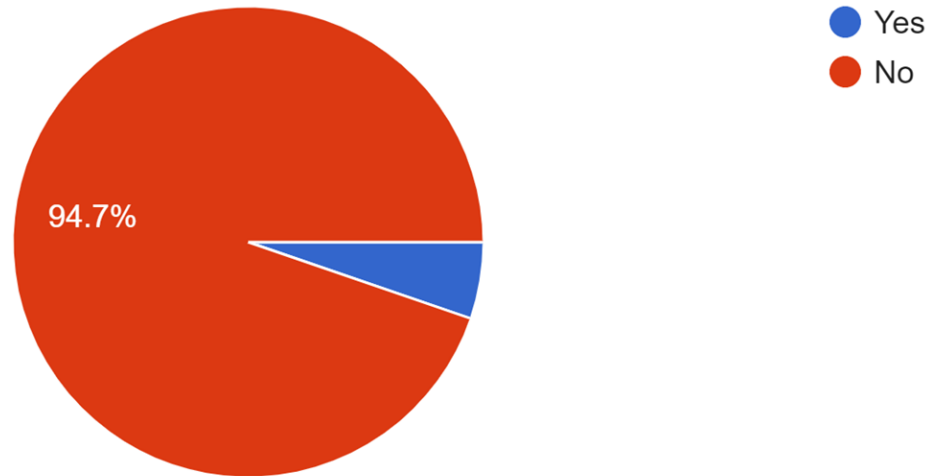
What effect has Vladimir Putin's threats to use a tactical nuclear weapon inside of Ukraine changed the dynamic of the conflict?



How likely is it that Iran will develop a nuclear weapon within the next five years?

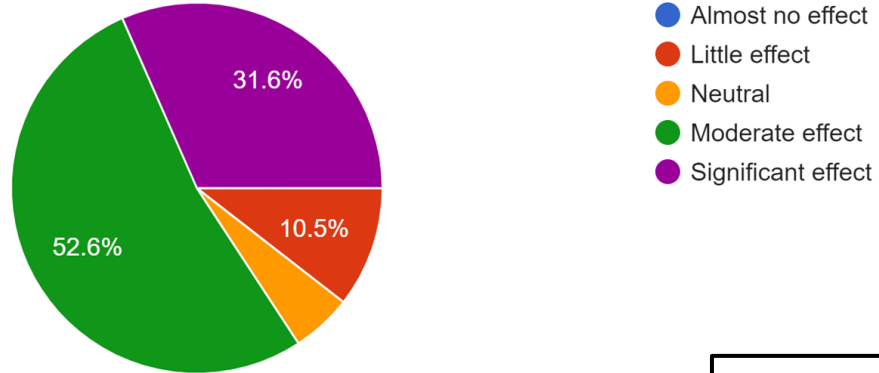


Will the attempt to bring back the JCPOA be successful?



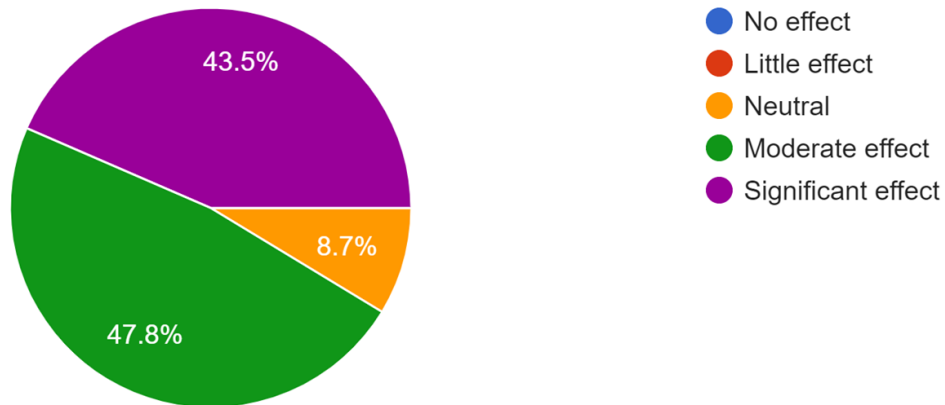
April 2023: Countries rated most likely to develop their own nuclear weapon in the next five years: Iran and South Korea

What effect has North Korea's nuclear weapons development program had on regional countries' desire to go nuclear or to arrange for a nuclear-sharing agreement?

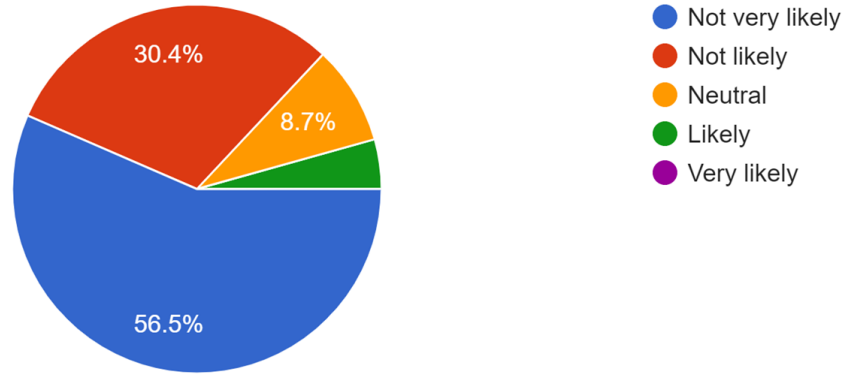


April 2023 (top) vs. September 2023 (bottom)

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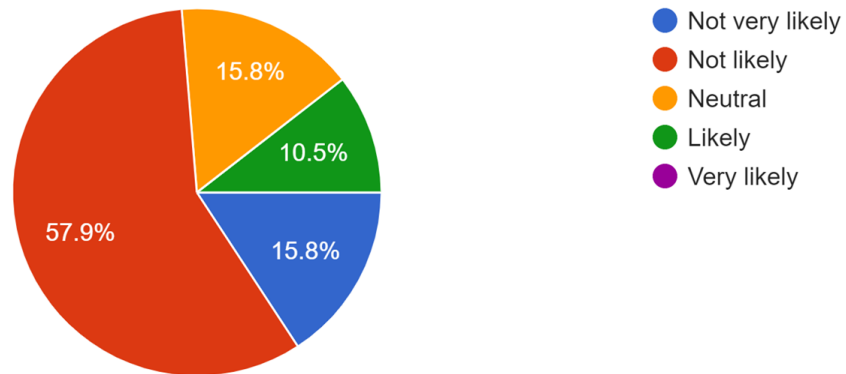


How likely is Russia to "unsuspend" its New START participation before the end of 2023?

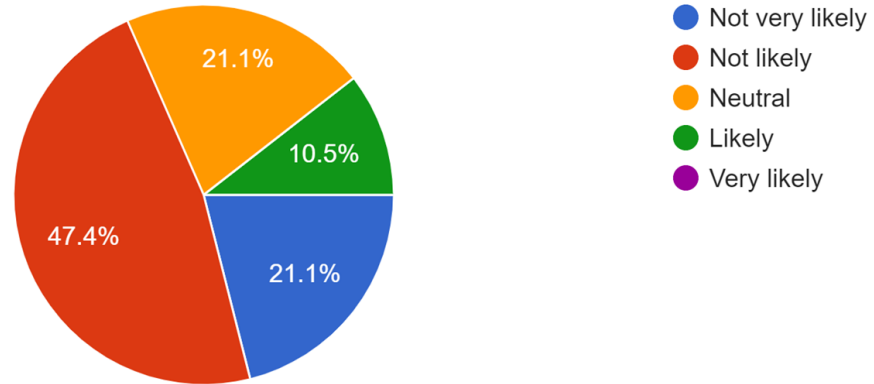


April 2023 (top) vs. September 2023 (bottom)

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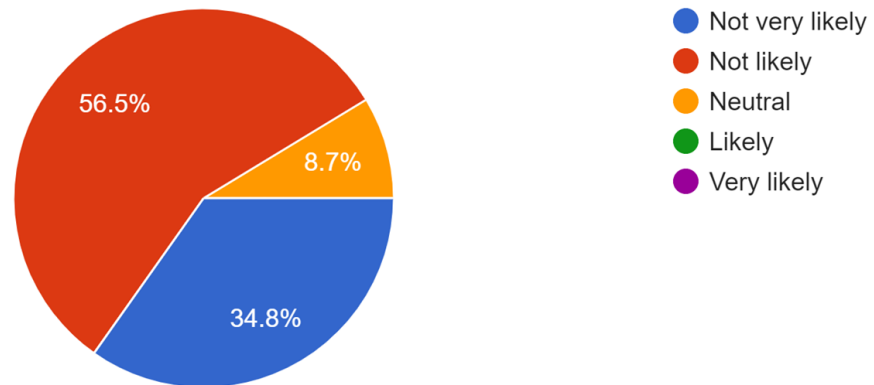


How likely is that China will participate in nuclear arms reduction negotiations with the United States in the next five years?



April 2023 (top) vs. September 2023 (bottom)

How likely is China to participate in nuclear arms reduction negotiations with the United States in the next five years?



Key Takeaways

- ▶ Better analysis of nuclear threats required
- ▶ Clarification of the role of nuclear deterrence needed
- ▶ Increase prospects/pressure for non-proliferation and disarmament
- ▶ US-China crisis management tools lacking
- ▶ De-link conventional vs. nuclear responses
- ▶ Lack of education on nuclear issues and non-proliferation in key countries troubling