

## CURIO SOLUTIONS

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# THE SECOND NUCLEAR ERA

With a holistic vision, Curio sees a world where nuclear technology serves a key role in ushering the next industrial revolution, ensuring better outcomes for the global economy with the U.S. at its helm

### Recycle nuclear waste

- U.S. has produced some 85,000 metric tons of used nuclear fuel
- Policy failure on Yucca Mountain has saddled taxpayers with \$1B/yr liability.
- Plutonium accumulated in this "waste" represents energy equivalent to 1% of natural gas reserves (as of 2016).
- Dealing with nuclear waste ranks as top concern among citizens who oppose nuclear power.

### Deliver a cancer therapy that works

- Alpha-emitting radioisotope conjugated to cancer-seeking antibody.
- Selectively destroys cancer cells.
- Limited trials show incredible results for various cancers, including advanced stages.
- Potential for revenue in the billions, proceeds can develop thorium cycle reactors.

### Build alternate fuel cycle reactors

- Closed fuel cycles with near 100% fuel utilization.
- No enrichment and inherently proliferation hardened.
- Consumes plutonium and other transuranic waste, produces none.
- Only fission product "waste" with molten-salt reactor.
- Plutonium = ~1.5% global nat. gas reserves; Thorium = ~3X uranium.