



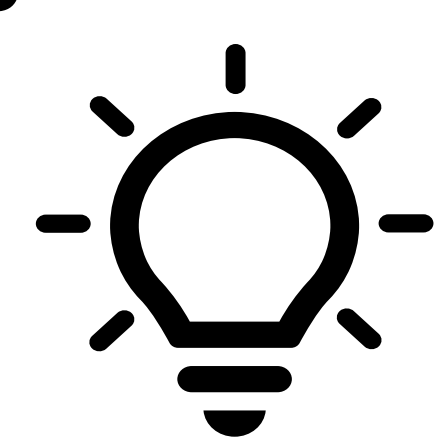
Problem

Current uranium fuel cycle reactors have disadvantages that transitioning towards modern designs can eliminate.

Project Goals



Positive Mindset



Educate about New Technology



Advocate for Implementation

Methods

Initial Research

Negative public opinion as a result of nuclear disasters



Modern Technologies

Many conflicts and safety hazards are solved through modern nuclear technologies



Present Evidence

Sway public opinion using research and evidence

Sources

Benefits of small modular reactors (SMRs). (n.d.). Energy.gov. <https://www.energy.gov/ne/benefits-small-modular-reactors-smrs>
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 Hargraves, R., & Moir, R. (2010). Liquid Fluoride Thorium Reactors. *American Scientist*, 98(4), 304-. <https://doi.org/10.1511/2010.85.304>

Acknowledgments

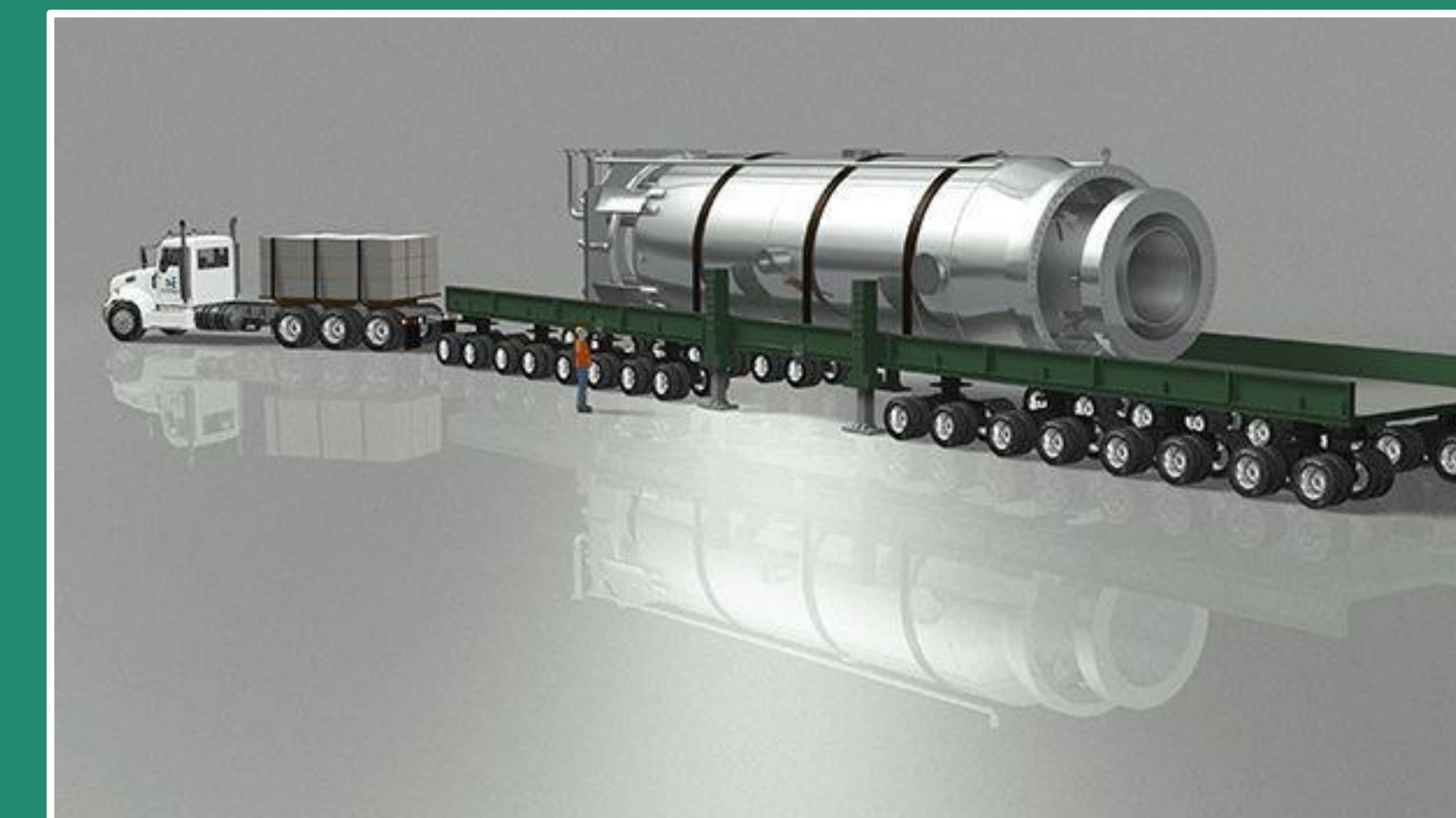
Professor David C. Medich & Dr. Margarita Tzivaki

New Nuclear Technology

Small Modular Reactors

Small modular reactors (SMRs) are significantly more convenient as they are:

- Easier to build
- Cost effective
- Safer and more flexible
- Can work with other clean energy sources



Gen IV Reactors

Generation IV reactors improve on previous reactor designs as they have:

- Improved efficiency
- Automatic safety systems
- 6 different reactor types
- Cost effectiveness



Thorium Reactors

Thorium eliminates most of uranium's greatest problems.

- Abundant and easy to harvest
- Waste decays faster
- Doesn't produce plutonium, a key ingredient for nuclear bombs
- Natural properties improve safety

