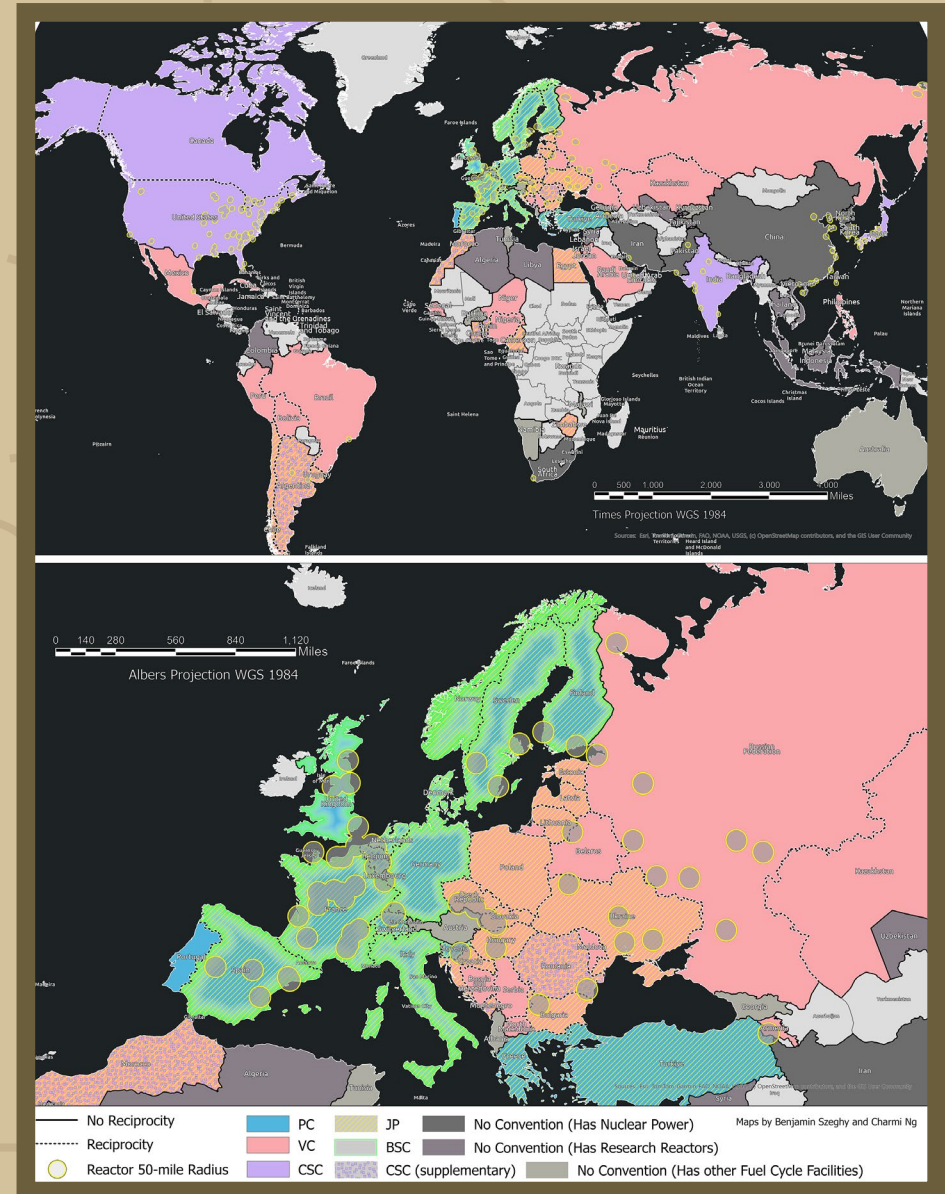# Hi, my name is:

Benjamin Szeghy

- I make thoughtful, informative, and innovative maps based on rigorous data techniques.
- I am passionate about pushing the boundaries of mapping
- I edit videos and compose motion graphics
- I am a trained filmmaker, with experience doing production management and directing for indie sets

Conventions and Evacuation zones

Nuclear energy development has been a longtime passion of mine, and I was overjoyed to get the opportunity to work on a project with the Department of Nuclear Engineering SALT lab. I served as a co-author and primary geospatial scientist on the manuscript *The 71,000-Kilometer Gap: How Nuclear Liability Shapes Global Nuclear Energy and Its Supply Chain Development*, currently under consideration by Nature Communications.

This map aims to untangle the complexities of the overlapping international nuclear liability conventions using a mix of solid and hashed symbologies. It also depicts evacuation zones and symbolizes countries that are involved in nuclear activities without participating in a liability convention.
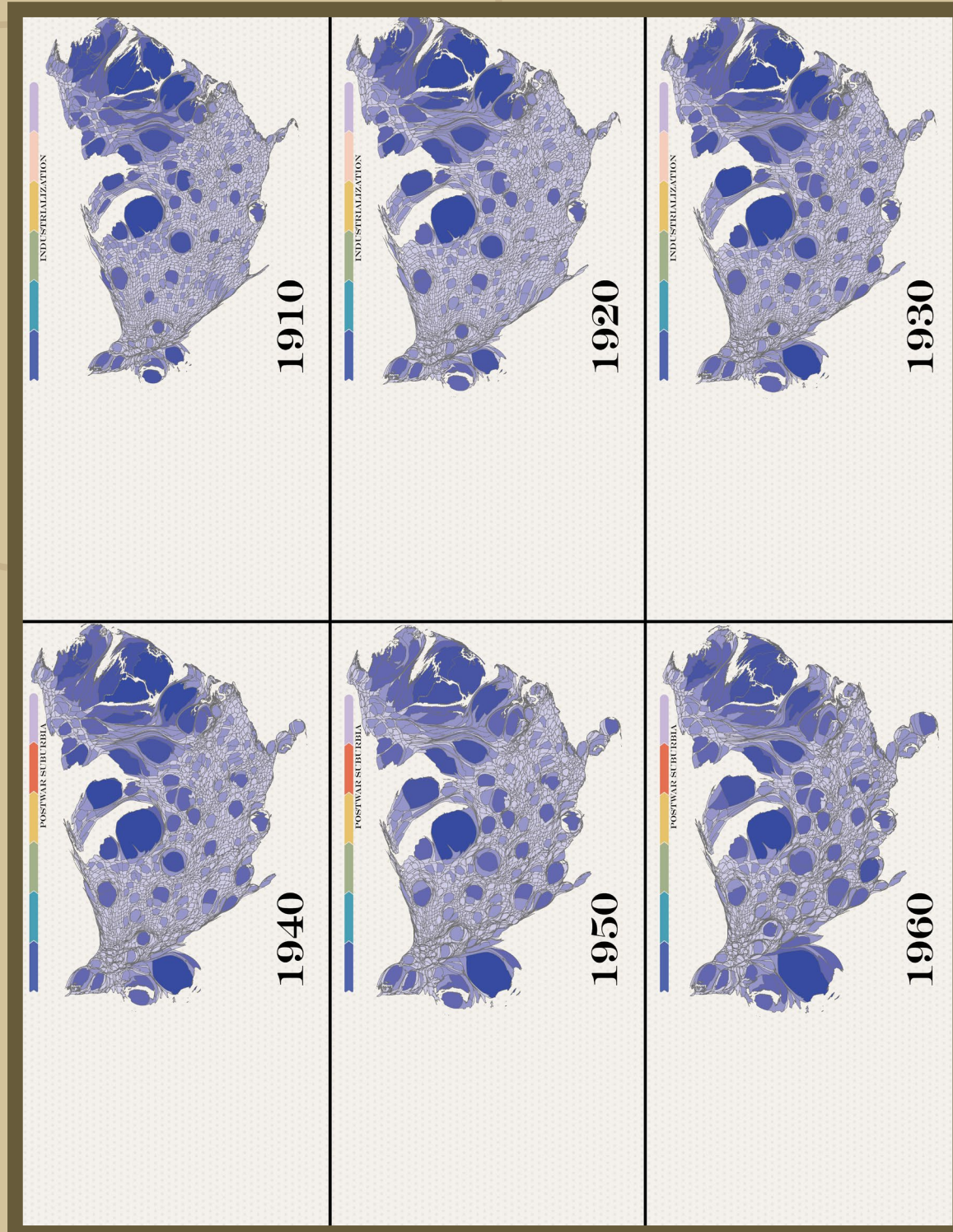
This is most significant cartographic challenge I have tackled: the convoluted and under-compatible nature of these conventions perplex even experts in nuclear law. I think my struggles with putting this symbology together are by themselves a perfect metaphor for the thesis this paper attempts to prove.

Legend:
- No Reciprocity
- Reciprocity
- Reactor 50-mile Radius
- PC
- VC
- CSC
- JP
- BSC
- CSC (supplementary)
- No Convention (Has Nuclear Power)
- No Convention (Has Research Reactors)
- No Convention (Has other Fuel Cycle Facilities)

Times Projection WGS 1984
Albers Projection WGS 1984

Maps by Benjamin Szeghy and Charmi Ng

American Population Flow: a Cartogram Flipbook

I made this for a class project, and envisioned it as both an exploration of novel methods of cartography, as well as an opportunity to try out the new Generate Contiguous Cartogram tool in ArcGIS Pro.
I generated population cartograms for every census year in US history programatically using model builder, then exported them to Illustrator for annotation and layout.
It is 27 frames total, including a front and back cover, and prints with assembly instructions for cutting it out and stapling to turn it into a working flipbook.
It challenges the classic US census population mean point map by representing spatial population changes over time using an animation rather than a traditional time series symbology. It allows the viewer to perceive the interactions between micro- and macro- scale population motion.
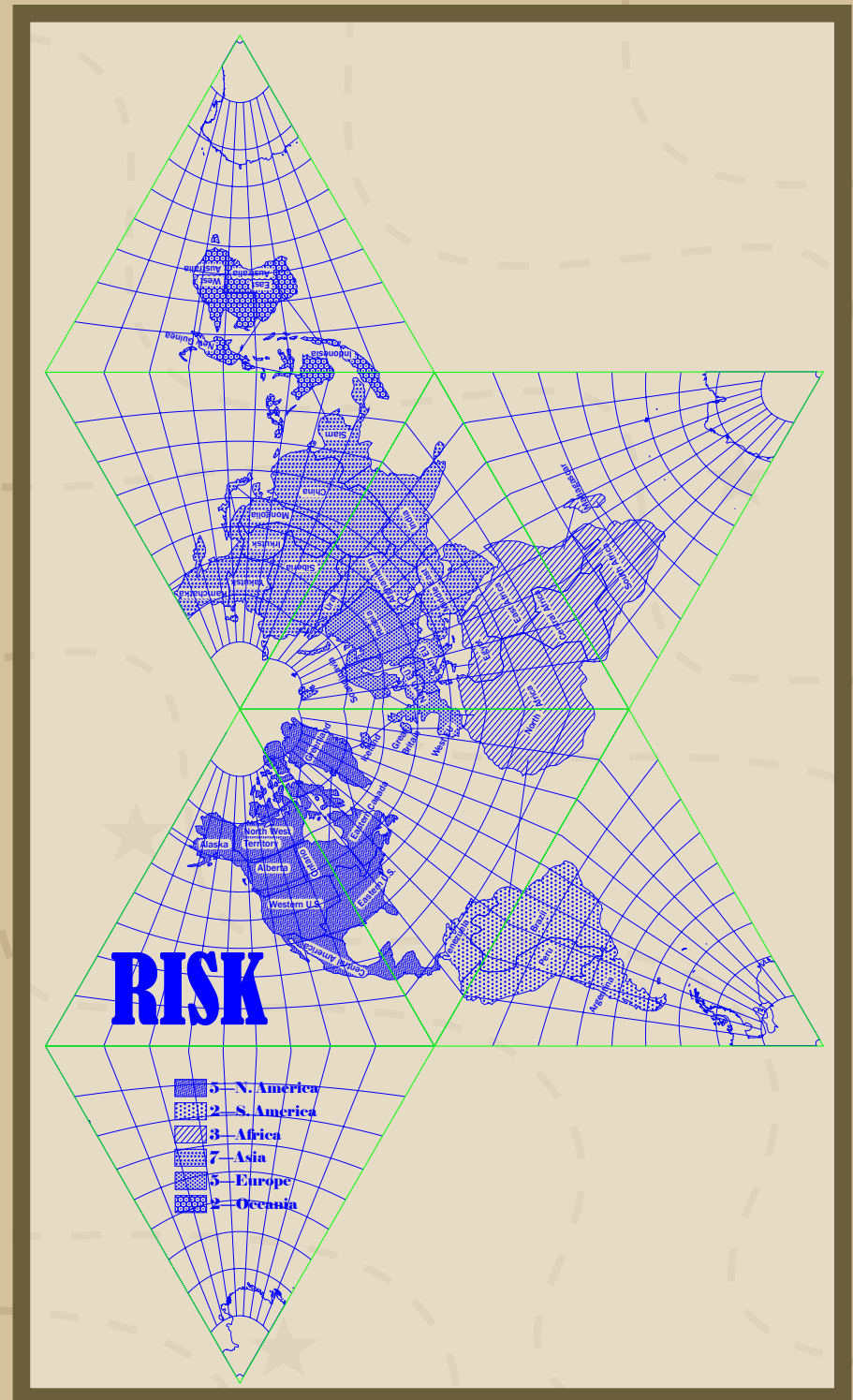
RISK Butterfly

This started as a hobby project: to make a version of the RISK board game using the Waterman Butterfly projection to lasercut into sheet steel. It has since turned into an ongoing personal experiment related to more tangible mediums for maps.

I created the original map basemap in ArcGIS Pro, reprojected it to the polyhedral butterfly using d3-geo, and created the hatch symbology by hand in Illustrator.

The main challenge of this project was to make a hatch fill symbology that was distinguishable in monochrome, as fiber laser cutters cannot vary rastering intensity for metal.

This is an ongoing project, and the final form will use magnetic game pieces to allow play both flat or folded.

RISK

5 — N. America	
2 — S. America	
3 — Africa	
7 — Asia	
5 — Europe	
2 — Oceania	

Wells Fargo Home Mortgage

As an assistant editor on a small post-production team for a campaign of television and social media commercials promoting Wells Fargo's Home Mortgage products, I was primarily responsible for technical tasks related media organization. However, I was a given a larger creative role on the 30 second TV spot linked below by getting tasked with cutting the assembly edit.
The goal of the campaign was to highlight the wide diversity of the company's target demographic: a home mortgage for everyone.
I injected my signature style, using an upbeat pace to create dynamism and continuous engagement.

[Full Video Linked Here]

Ends and Means

As the co-producer and unit production manager for award winning Santa Monica College Film Program capstone project Ends and Means, I oversaw logistics to keep the project flowing on schedule and under budget. My most important role here was leading the location scouting process, and liaising with property owners and permitting agencies.

The film has not yet been publicly released, but you can track it progress on IMDB!