Rv2035 Escape Into Nature

In an increasingly urban future punctuated by congestion, severe weather events, and the occasional pandemic, natural experiences will become ever more necessary - to connect, reflect, grow, and heal.

Some will seek a more resilient and empowering lifestyle, unshackled from skyrocketing costs of living and the aging infrastructures that rely on fossil fuels. A mobile lifestyle will become more desirable and commonplace, for short-term escapes or for years at a time. These "Nomads" will require mastery of their resources and more efficient modes of travel, moving in and out of communities as their needs evolve.

This project proposes a design for a near-future towable trailer that loves nature back. Model #2035 is a closed-loop RV that harvests all of its own water and energy, deploying them in an interactive and conservative fashion. Designed from the ground up for a leasing model, it's composed of recyclable materials and serviceable components that dramatically improves the vehicle's useful life and re-manufacturability. It targets a younger, more urban customer than the traditional RV industry, providing an accessible outdoor retreat and escape from high-consumption behaviors. It has been designed for rapid setup / takedown, resource stewardship, and low environmental impact.

In this storyboard, I invite you to join these Nomads on one of their journeys with Model #2035.





Model #2035

Aerodynamic form minimally impacts on the road performance and range for electric vehicles TRAVEL Picked up from various waystations on the fringes of urban centers, the lightweight Mo. #2035 can be Easy to handle with ultra-tight turning radius hitched to almost any vehicle.





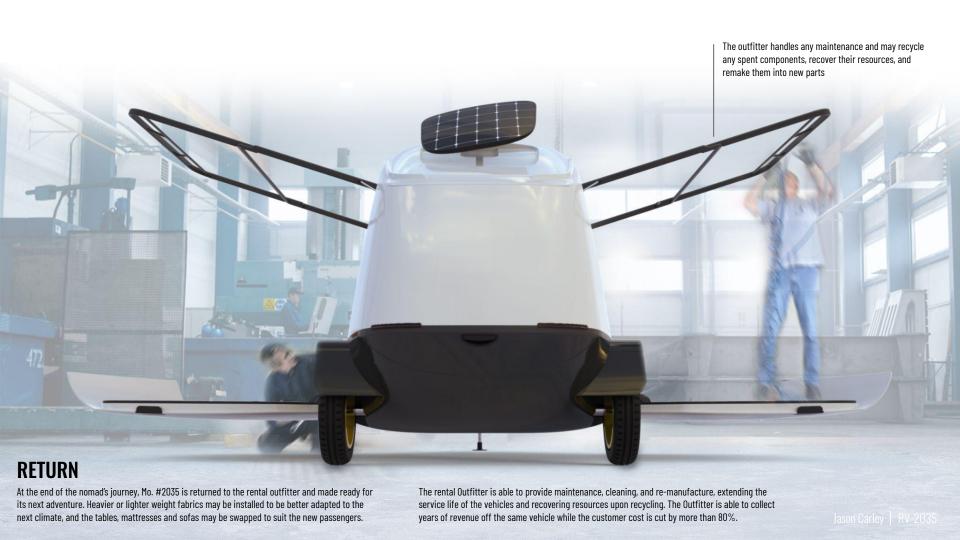


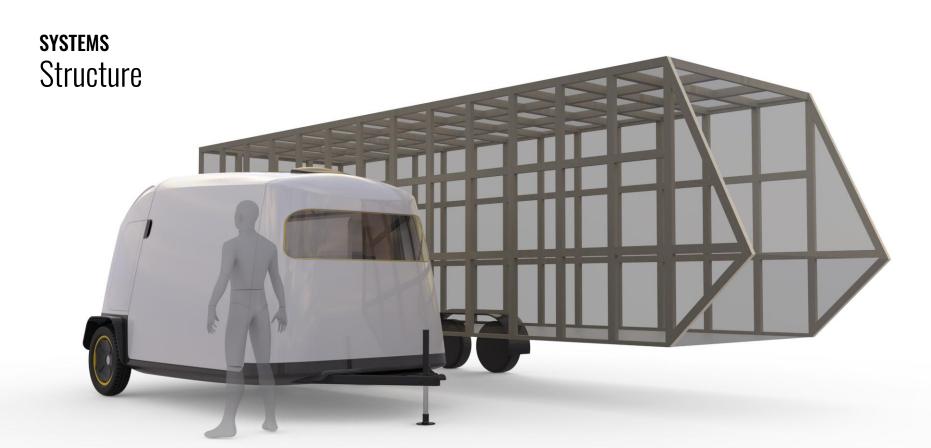












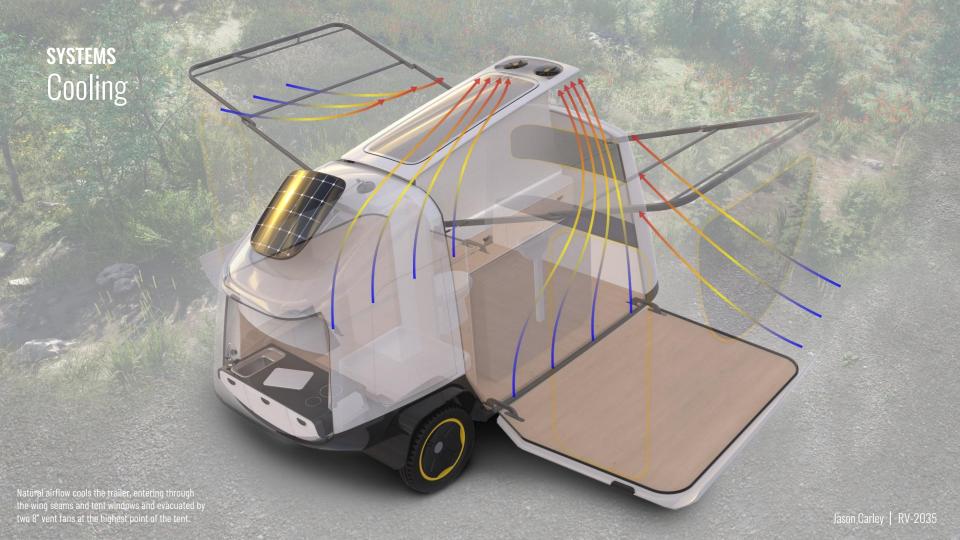
The outer structure of the trailer is made from lightweight carbon fiber, a durable material whose cost and recyclability is improving with emerging research. This displaces heavier materials, like lumber and aluminum, which must travel thousands of miles to the factory after being harvested. Currently, RV's are made to order, so there is no standing inventory. With this model, an Outfitter

will have excess inventory to accommodate events (festivals, weddings) and coordinate rallies (habitat cleanups, charity hikes). They can even be used as temporary dwellings for people that lose their homes to coastal flooding or wildfires, or for housing first responders or volunteers for natural or manmade disasters.











Rv 2035 Research and Appendices

RESEARCHInitial Questions

1.

Living Small and Simply

What benefits does small scale living provide? Can traveling in an RV teach people about sustainable values?

2

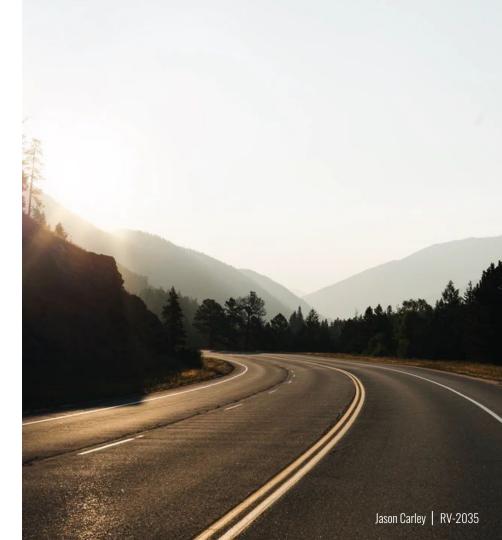
Mobility

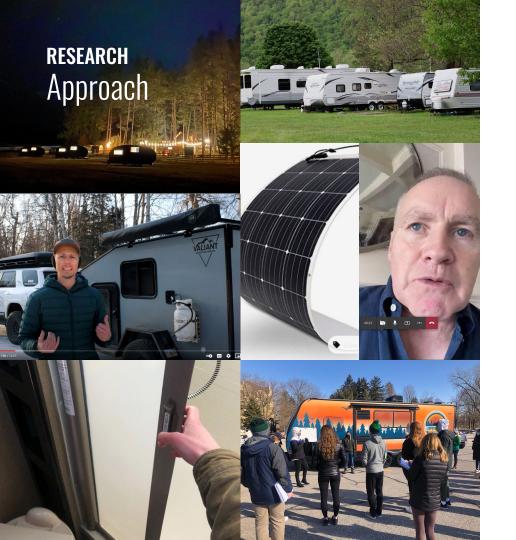
What benefits do travel, mobility, or a nomadic lifestyle provide?

3.

Nature

How does a nature trip / outdoor vacation transform the way we feel? How long do these effects last?





Secondary

- Literature Reviews of RV Industry trends
- Online media from campers / builders / influencers
- Manufacturer and Industry benchmarking

Primary

- RV Walkthroughs
- Interviews with RV Industry Professionals
- Concept reviews with campers / RV'ers

Design

- Sketch exploration of architectures and off-grid features





FUTURES

U.S. Trend Forecasting

What will we encounter in

Transportation and **Architecture**

in 10-15 years?

Global pressures raise likelihood of carbon regulations Energy efficiency and fuel regulation brought into spotlight Deeper political divides increase local/state protections (i.e. CA, TX) Aging infrastructures (highway, stormwater, healthcare)

Remote work migration Political/Regulatory **Future** State Increasing wealth gap in income and savings Shift towards "shared" service models as cost of ownership rises Rise of "Experiences" in travel

Population growth centralized in urban cores Reduction of urban indoor and outdoor living footprints Limited local access to nature leads to rise in nature travel / retreats Migration to coasts for weather, cheap housing On average, people are holding onto vehicles and homes longer than a decade ago

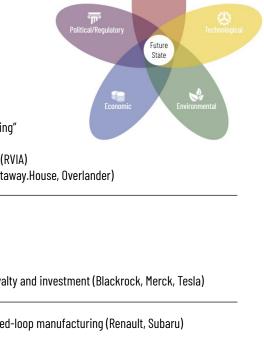
> Improving battery energy densities Expansion of electric infrastructure Lightweight composites becoming cost effective Chemical recycling methods developed for composites Advances of sensor and automation technology

Rising GHG levels brings emphasis to fuel regulation, energy efficiency Increased frequency of severe storm events affects building codes / insurance Deforestation and Land-Use-Changes for housing and commercial expansions Coastal vulnerability to flooding, storm surge, and sea level rise High consumption of natural / embodied resources among affluent communities

Renewable energy competitiveness drives down demand for fossil fuels Supply chain insecurity due to global interconnectedness (COVID, Suez, China) Transparency in ESG metrics to bolster customer loyalty, garner investment Rising resource costs due to scarcity, global competition

FUTURES

Trend Impact to RV Landscape





Digital Nomad

Experiences > Assets

Rise of the remote workplace, "road-schooling"

Rethink "home"-"ownership"

Retirees visiting families, bucket-list items (RVIA)

Urban dwellers seeking natural retreats (Getaway.House, Overlander)



Shift to Renewables

Fleet Electrification

Solar ubiquity and cost competitiveness

Disruptions to dated infrastructure

Increasing likelihood of carbon regulation

Power of ESG values to garner customer loyalty and investment (Blackrock, Merck, Tesla)



Circularity

Post-Consumer resource recovery and closed-loop manufacturing (Renault, Subaru)

Sharing economy (Outdoorsy, RVshare)

Responsible sourcing

Inclusive and Accessible Use Models

Membership and Margin as KPI

Outdoor and Camping Lodging Options









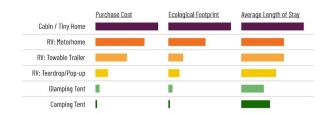


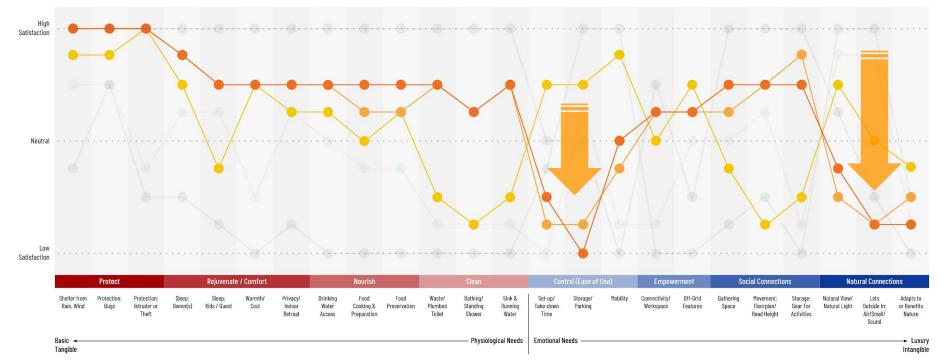


	<u>Purchase Cost</u>	Ecological Footprint*	Average Length of Stay
Cabin / Tiny Home	150K+	180K lbs	5.6 days
RV: Motorhome	100K+	26K lbs (6-8mpg)	3.7 days
RV: Towable Trailer	50K-100K	4K lbs (7mpg loss)	3.7 days
RV: Teardrop/Pop-up	20K	1.2K lbs (3mpg loss)	???
Glamping Tent	1K-3K	200 lbs	2.15 days
Camping Tent	\$60-\$400	5lbs	2.5 days

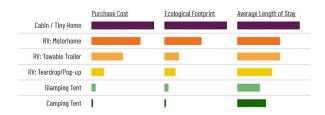
*Further research needed

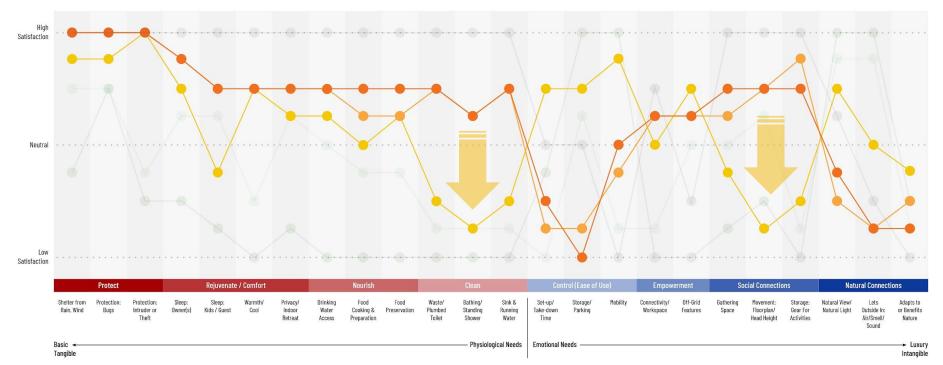
Large RV's more cumbersome, lack natural harmony



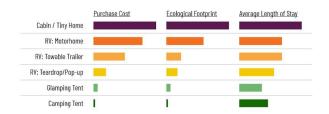


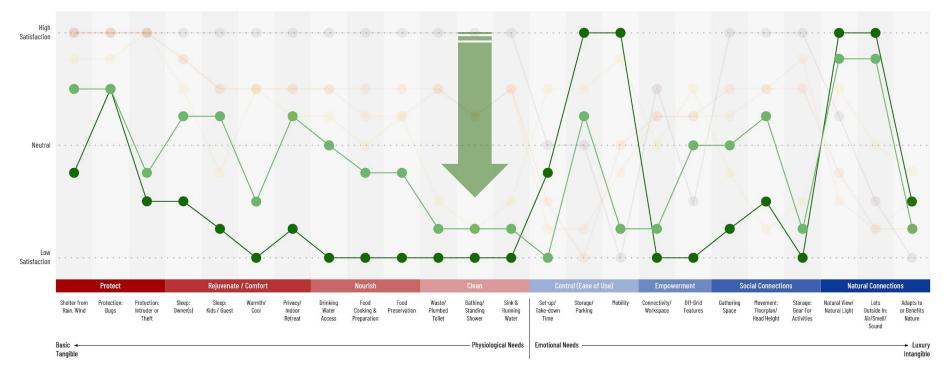
Teardrops lack hygiene and social amenities





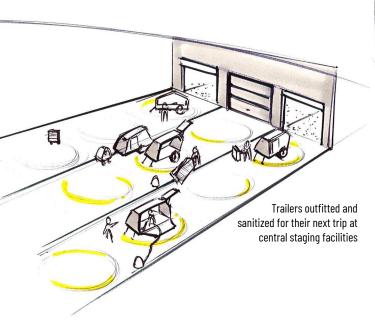
Tents lack infrastructure to satisfy basic needs

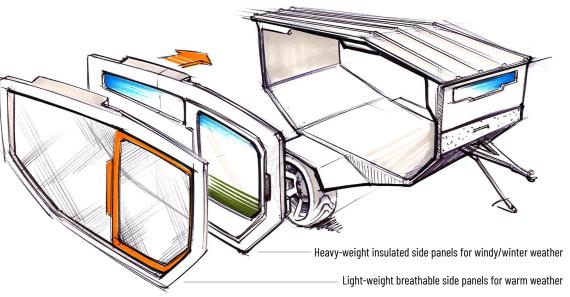






Service Model Rental Outfitter





Alternative business models unlock opportunities

Design from the ground-up for a circular leasing model and attract with targeted excursions

