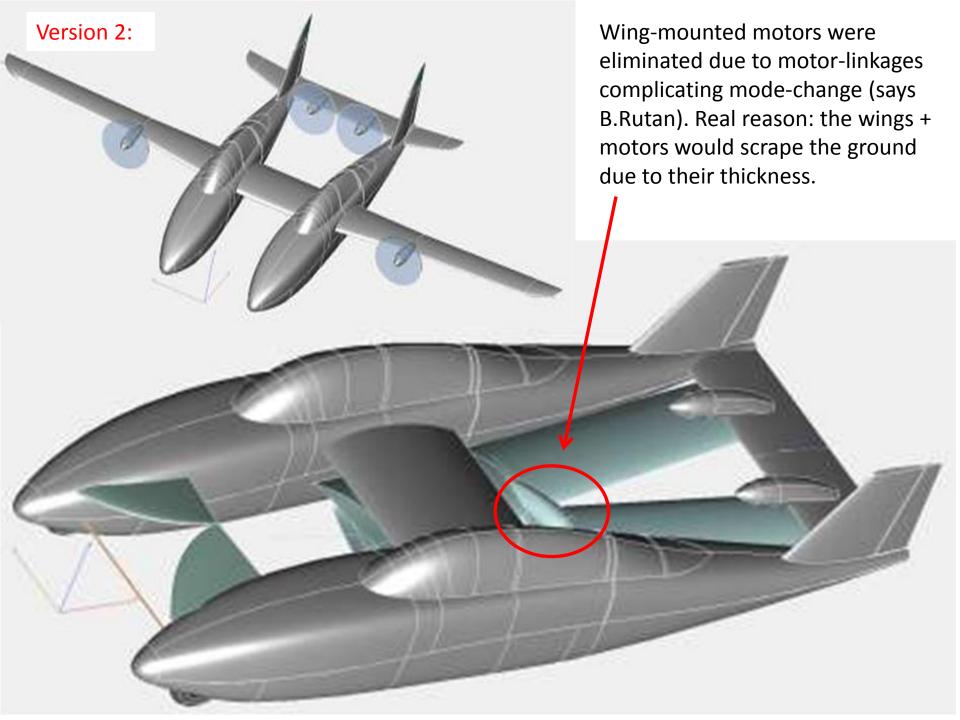
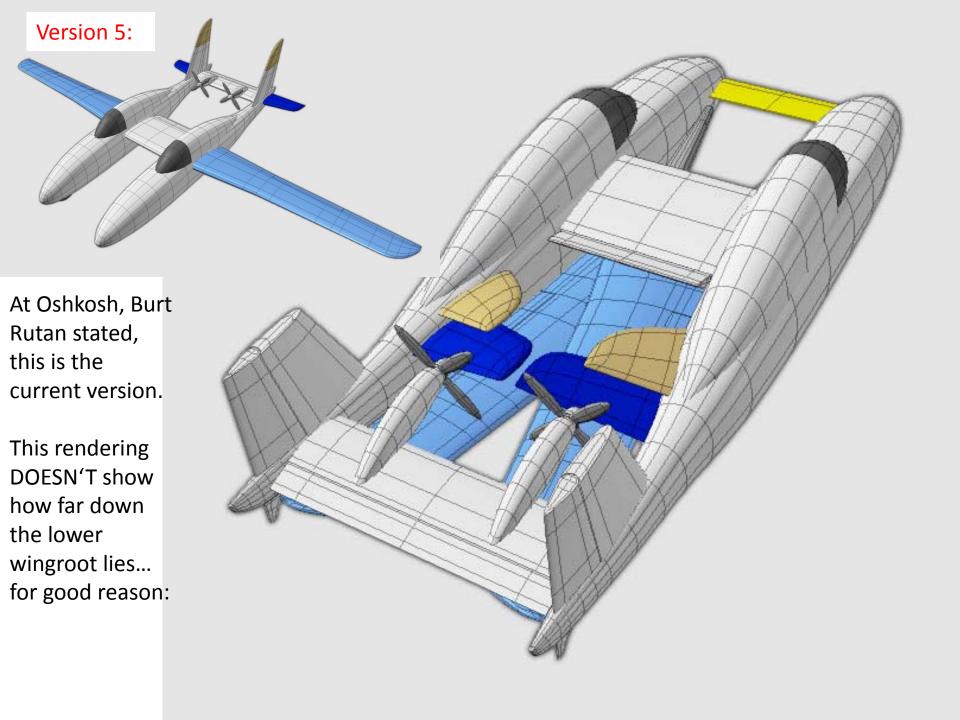
5 BiPod versions presented so far:	interchangeable canard/tail fins	No canard, both modes	Large canard road only	Small canard, both modes	» ·
1 tail-motor, 2 wing-motors					Wing motors abandoned due to "linkage" (real reason: they don't fit in storage pos.
2 tail-motors, 2 wing-motors					Wing motors abandc real reason: they do
2 tail-motors, no wing-motor					urrent odel
No motors					







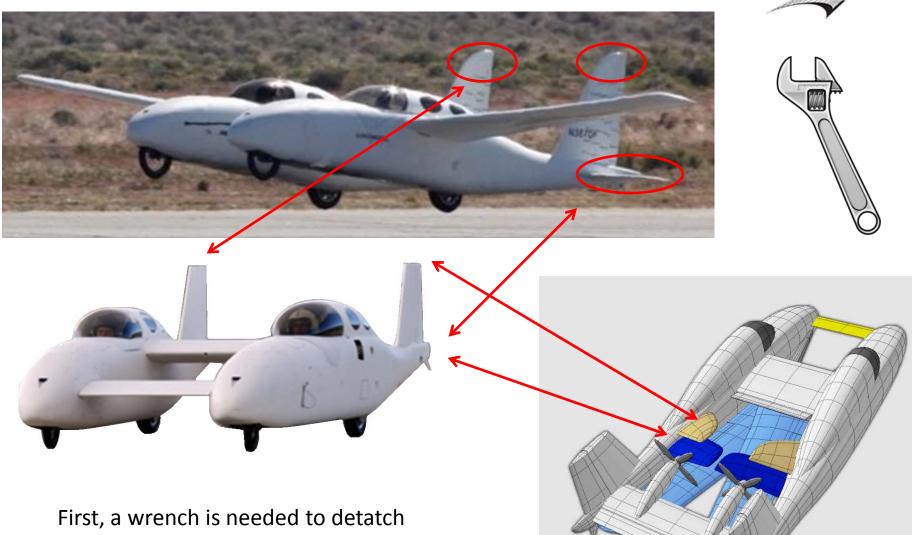




Analysis:

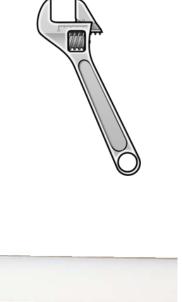
1). Mode-Conversion

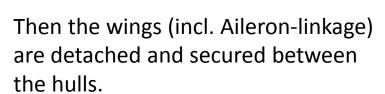




first, a wrench is needed to detatch four empennage surfaces, then reattach them on the inner rear fuselage.







Burt Rutan says, this all takes just 10 minutes.

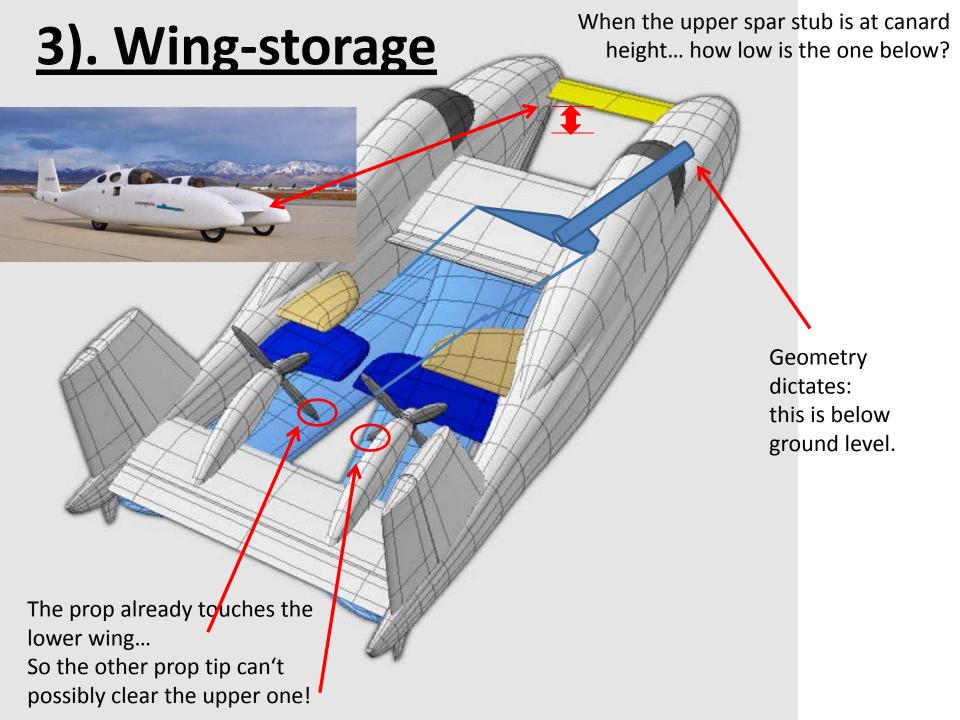
2). Cabin & Entry

Getting into the vehicle is via climb-in since there are no doors.

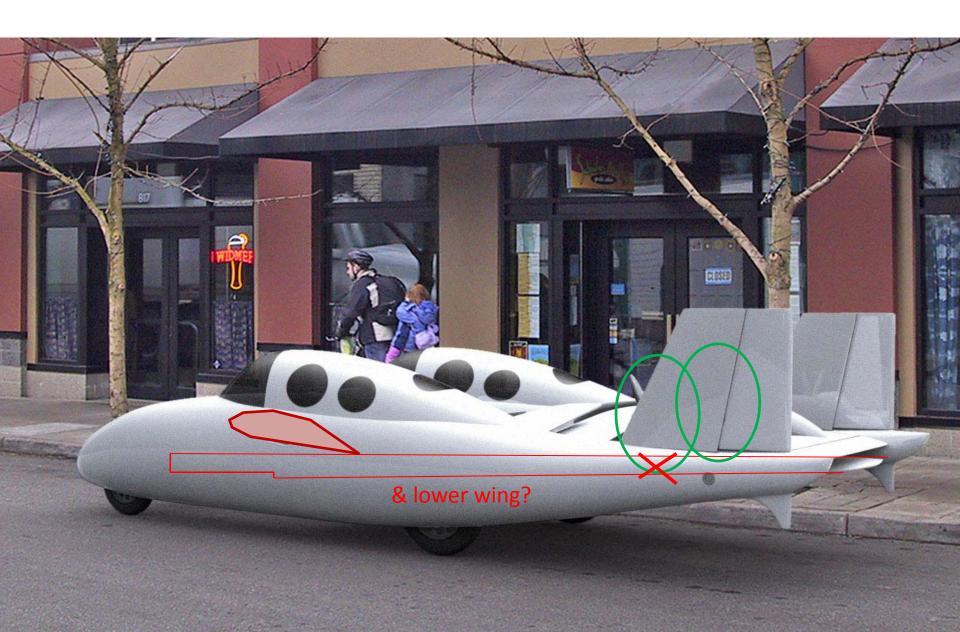


...and you need to switch to another cockpit after mode-change to continue your journey.

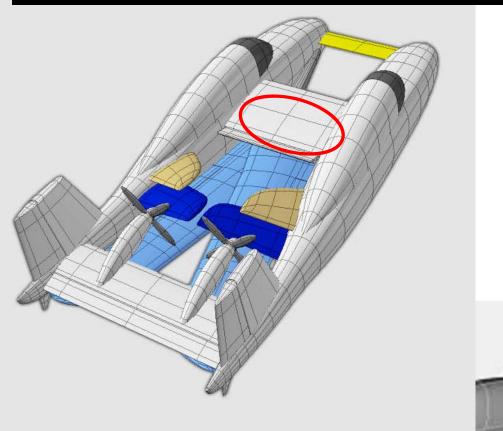




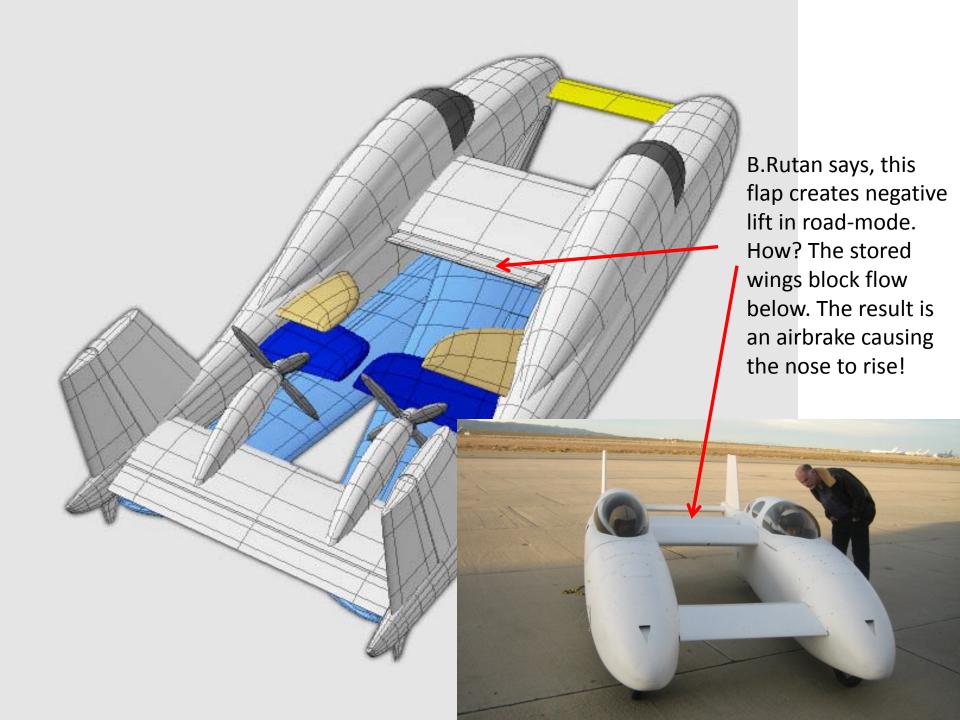
This is the closest thing to a side-view available. Superimposed are a). upper stored wing, b). Prop arcs.

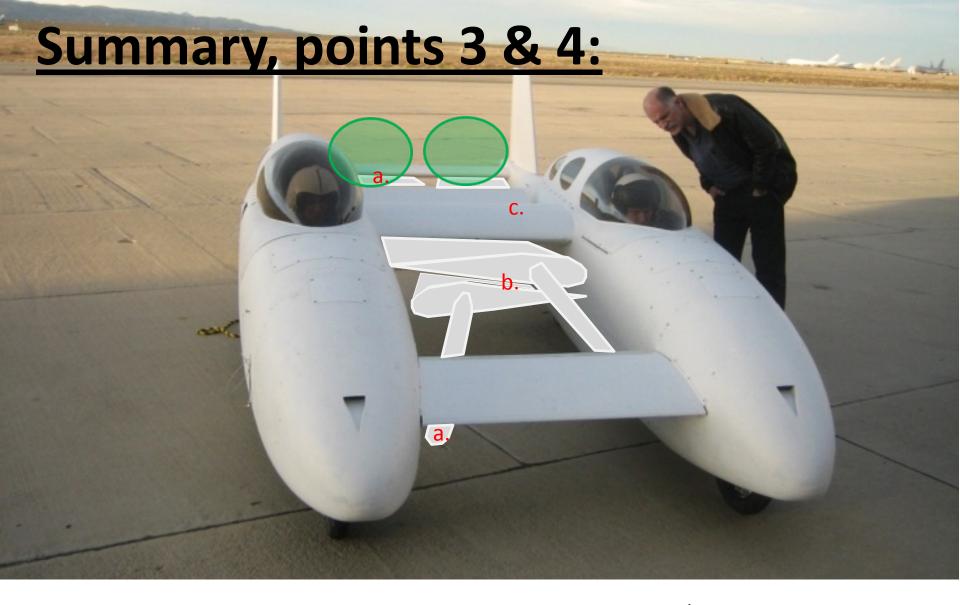


4). Road-Mode Aerodynamics

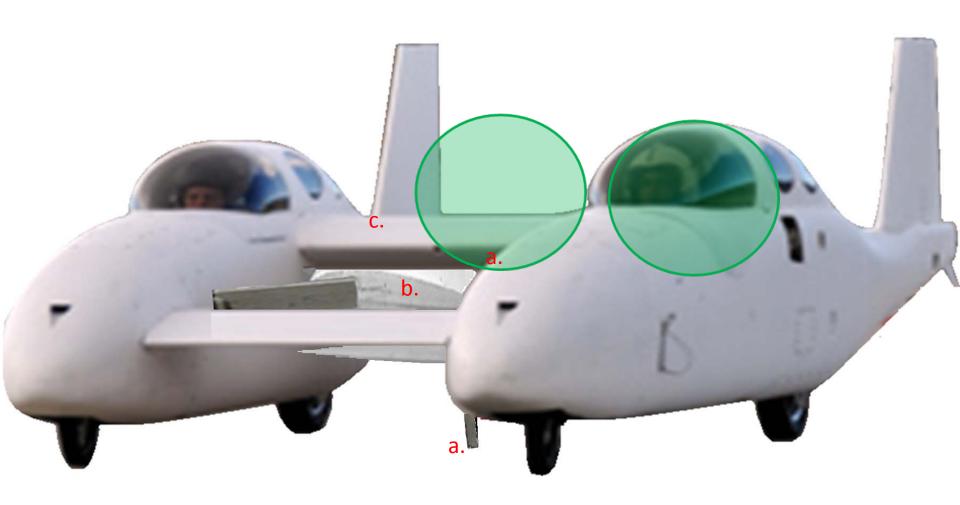


The wing roots face flat into the airflow in road-mode. Road aerodynamics suffer as a result.

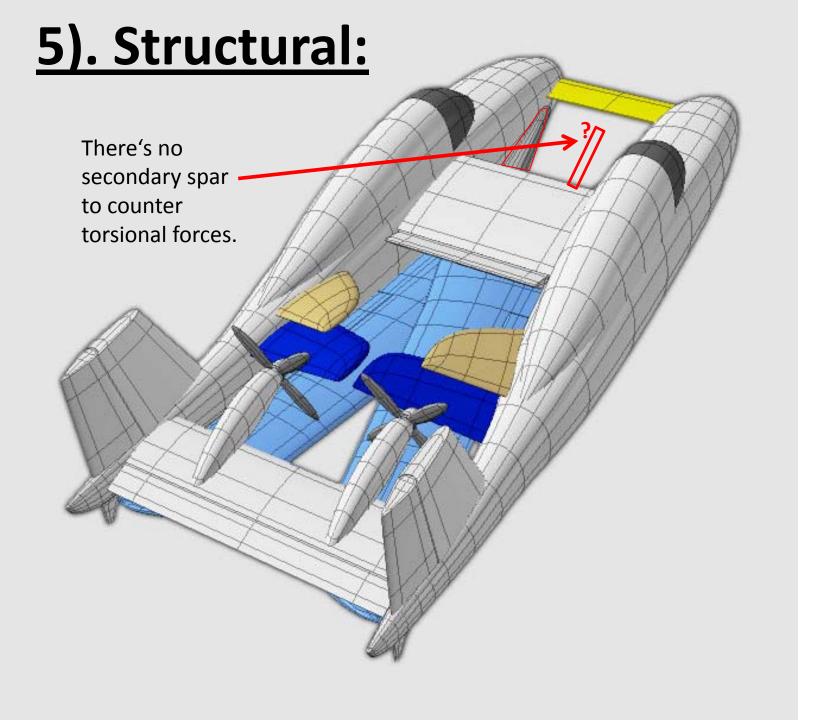




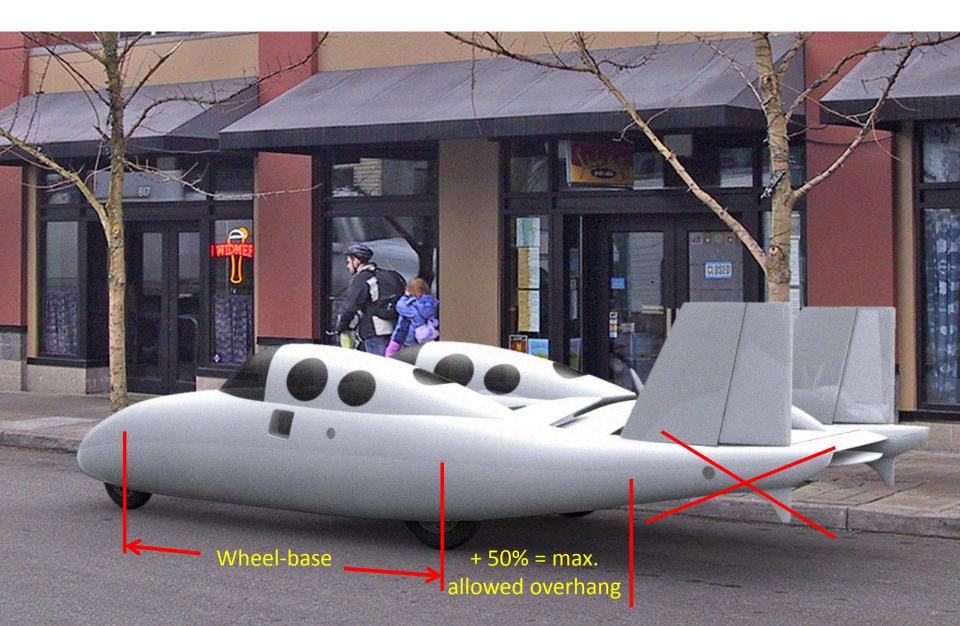
- a. Fore and aft: stored wings would cut into prop arc/ground.
- b. Frontal wind resistance would be significant.
- c. The central flap could not create negative lift.



- a. Fore and aft: stored wings would cut into prop arc/ground.
- b. Frontal wind resistance would be significant.
- c. The central flap could not create negative lift.



6). Not roadworthy



7). Rotation blockage



8). Small tires, rounded section



Small-diameter tires limit road-speed. Round-section tires reduce road-grip for cornering/braking.



[Conforms only to max. trunk-road dimensions for big-rigs = max. 8.5ft./2.6m.]

10). Too slippery

Burt Rutan claims 197mp/h cruise but an LSA certification where max. is 130mp/h. Slippery profiles with laminar flow wings add performance, but eliminate many hobby-flyers.



Comparisons





CARPLANE®











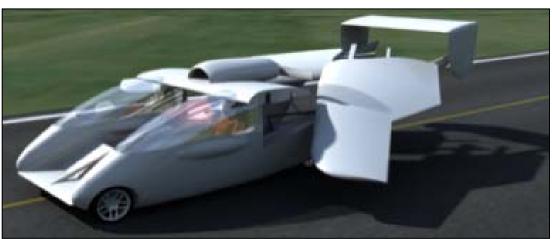
















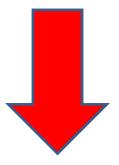


Originality



ng proing up

speed using the pattery-powered driving wheels. "The next step would be to de-



"unique!"

"The most significant technical accomplishment is the new configuration-unique for a roadable airplane, in that the flight mode has an efficient aerodynamic configuration, low spanliminary flight characteristics were assessed during a short series of tests over recent months. Scaled test pilot Mike Alsbury says inadequate power from the current batteries and electric drive



wheels. "The next step would be to de-

not so unique after all!"

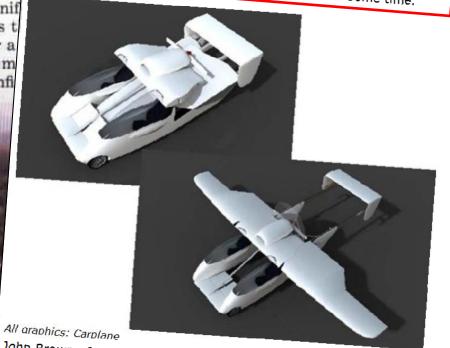
ng the ng proing up speed using the pattery-powered driving

complishment is t tion-unique for a in that the flight m aerodynamic confi

"The most signif



The twin-fuselage design of Burt Rutan's BiPod flying car is not as unique as we thought. It seems Germany-based Carplane has been working on a twin-hulled roadable aircraft for some time.



John Brown of Carplane says the design was patented in 2008 and, in addition to the twin hulls, includes a mechanism to extend and stow the wings automatically without having to exit the vehicle to remove or replace the wings. Swapping modes takes

