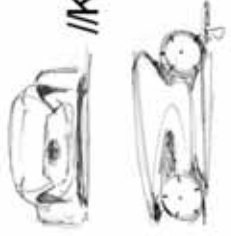
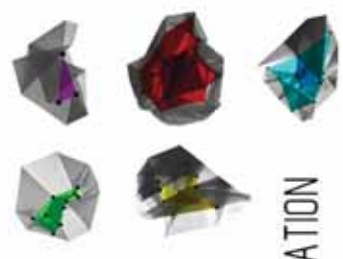


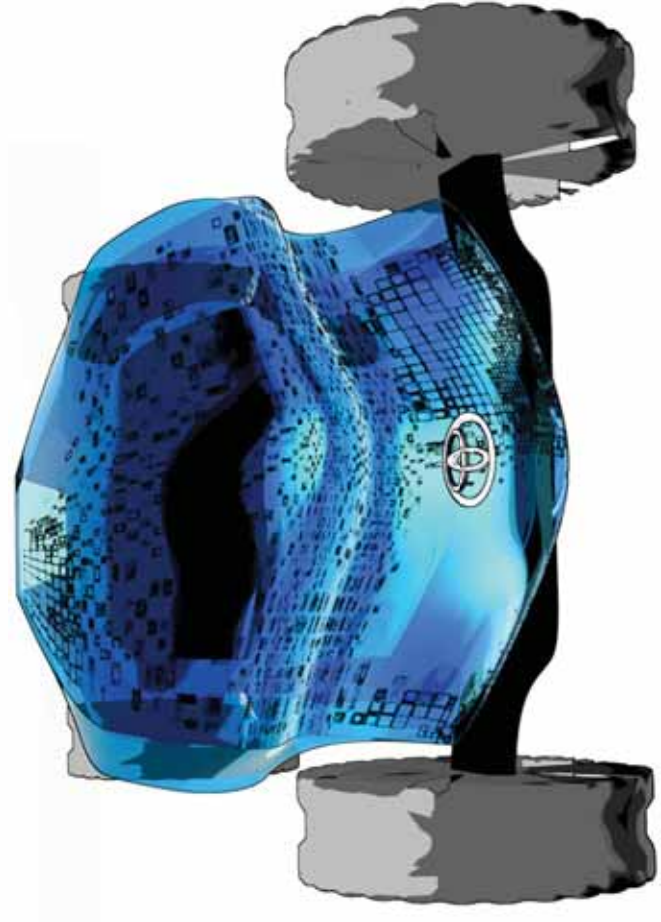
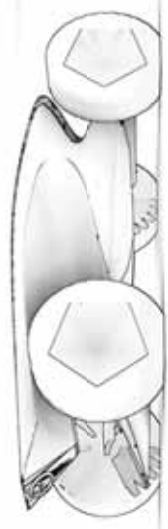
//KEY SKETCH



INSPIRATION

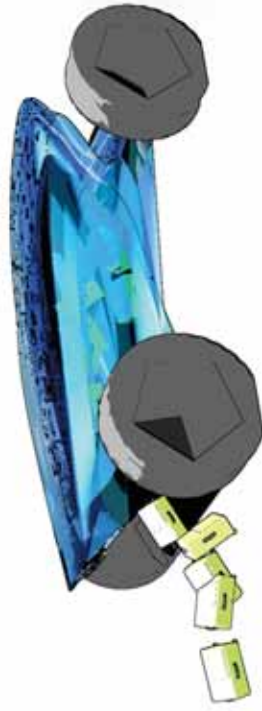


Toyota NPS is an airport ground support vehicle. It will replace much equipment used in nowadays airports. Primarily it is a baggage carrier and a ramp replacement. Also could be used as a supplementary catering truck for selected aircrafts. Shape of a body can flex depending on a required to carry load. Still exterior design of a vehicle remains simple and yet elegant



//AUTONOMOUS AIRPORT GROUND SUPPORT VEHICLE

Algae bio plants provide power to the vehicle. As carbon dioxide provides algae a growth it requires later it is transmitted into electricity that powers the vehicle

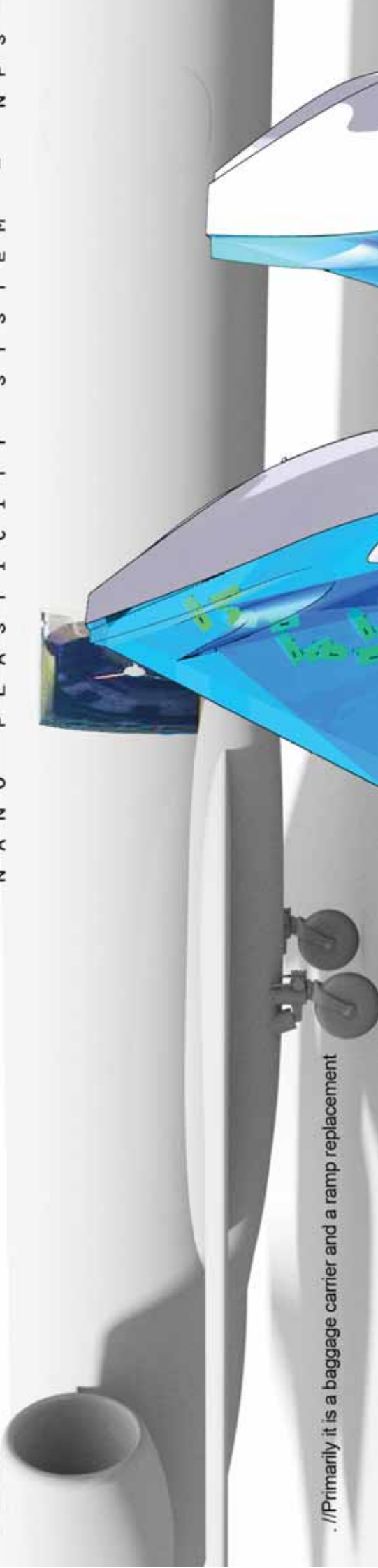


NPS uses a ground breaking non sticky Nano gel system, which is capable of transporting goods such as luggage, catering carts and etc. Secret lies in a gels memory structure it provides ability to induce items, store them and elevate to a higher ground as required. This method of delivery will provide a safe way of transporting goods, easily maintaining desired temperature and humidity. Triple layer architecture of this gel will allow to sort items in order to protect them, providing different climate conditions

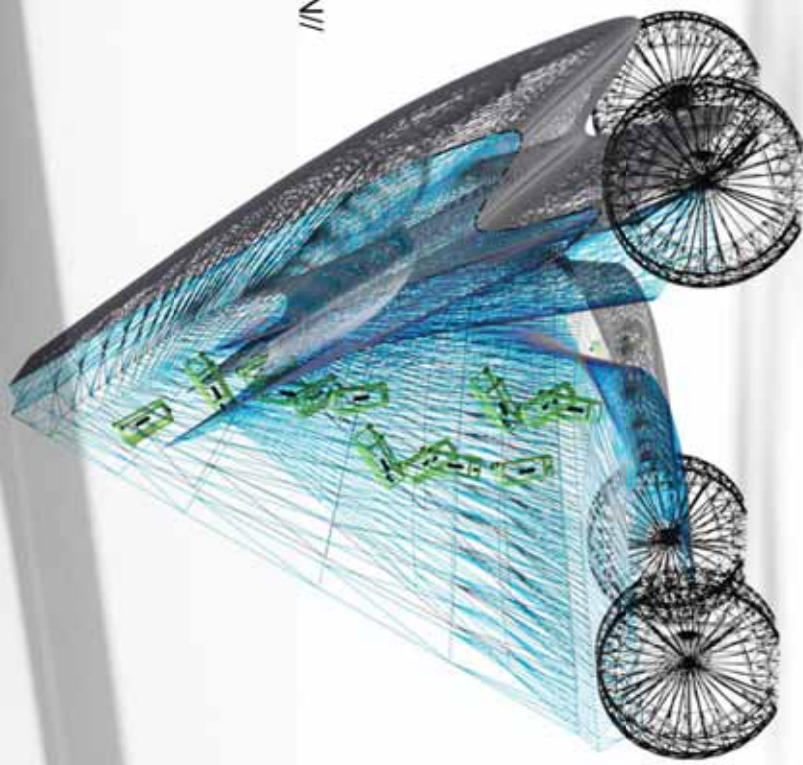




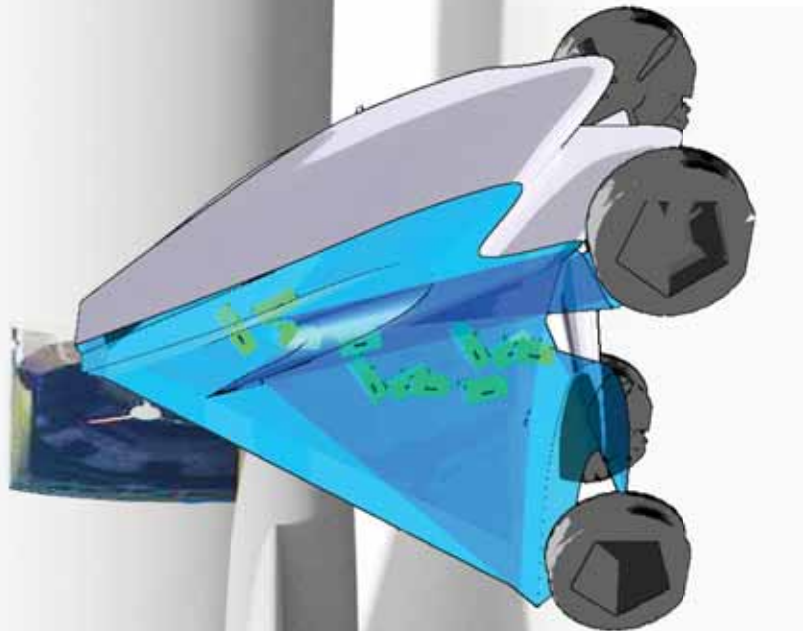
TOYOTA



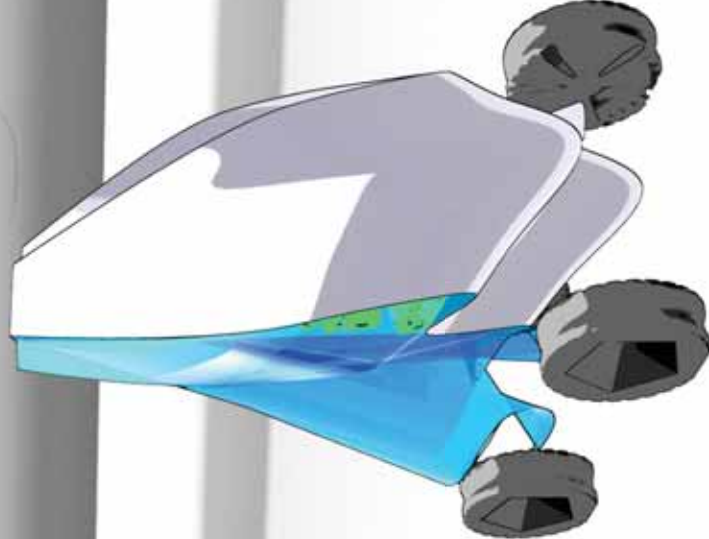
//Primarily it is a baggage carrier and a ramp replacement



//FLEX UP



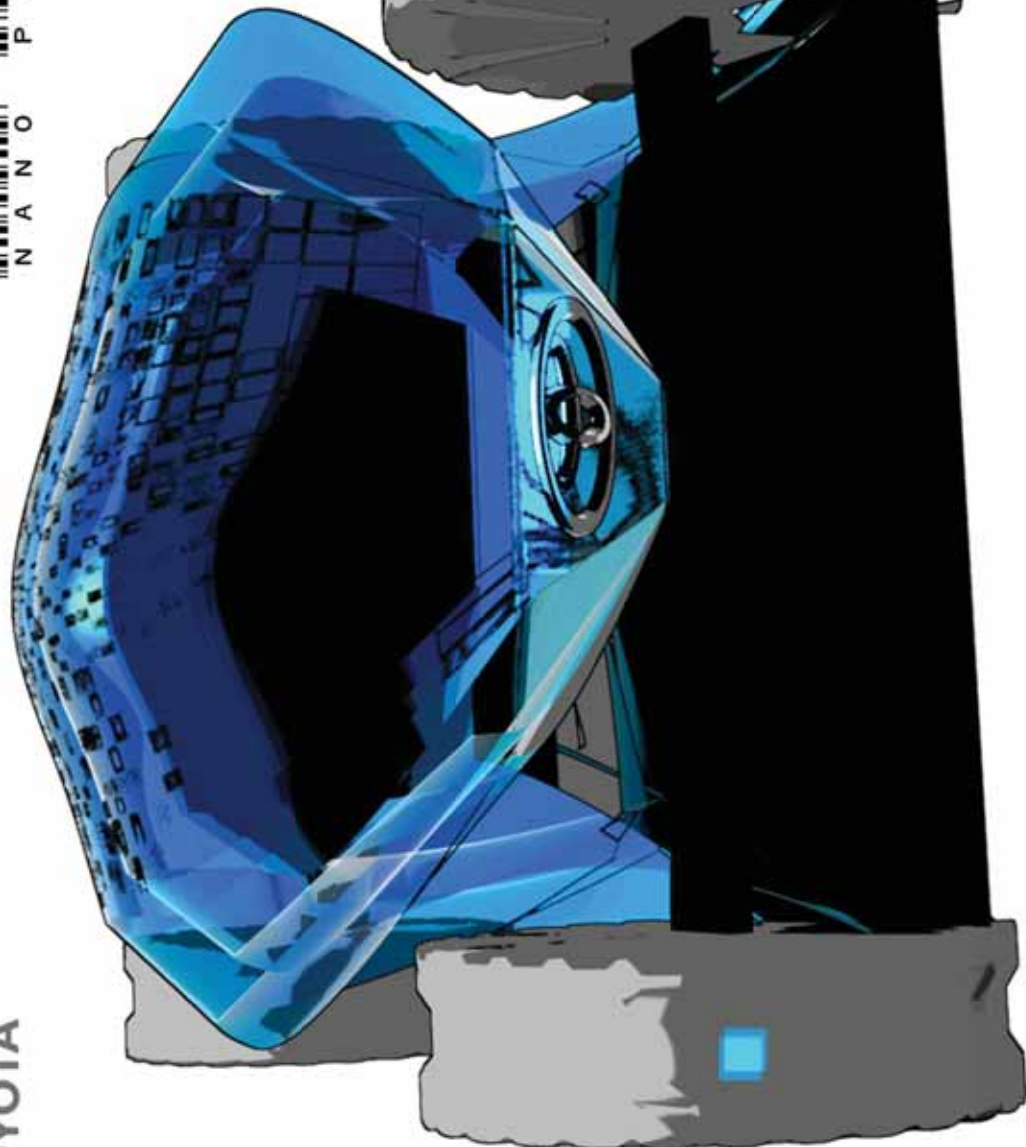
//NANO GEL



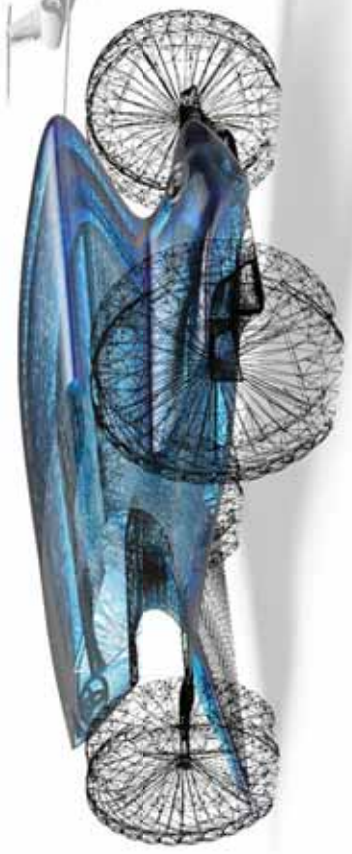
FLEX UP - function allows easy baggage and goods delivery directly to aircrafts bay, eliminating a need for auxiliary equipment. As a NPS body is formed out of three layers, the outer one serves as a shell, middle layer is a contracting - memory material which allows the body to go up and down in order to reach required height. Inner layer made of nano gel imitates osmosis and delivers items to required elevation



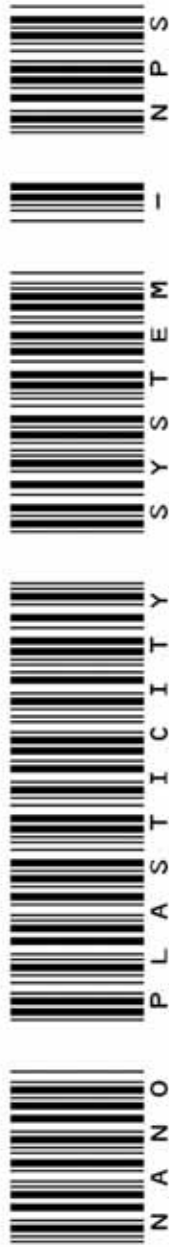
N A N O P L A S T I C I T Y S Y S T E M - N P S



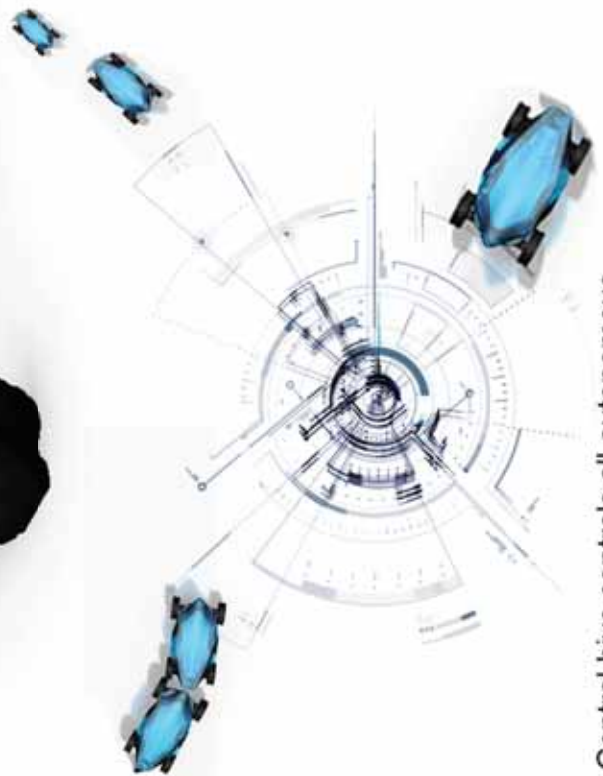
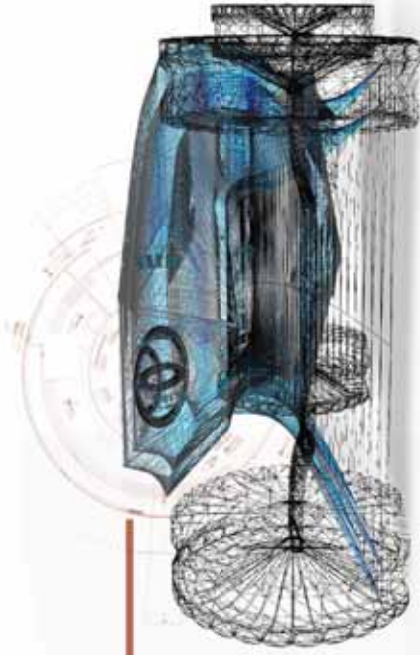
- //Artificial intelligence bio computer
- //Nano gel for transporting goods
- //Triple layer system - Micro climate and safety
- //Rugged wheels for all weather conditions
- //Surrounding sensors
- //Algae power plants built into wheel hubs



//Big wheels and wide track create a powerful stance.  
Allows the vehicle to operate under extreme conditions:  
snow, blizzard, elevated water situations.



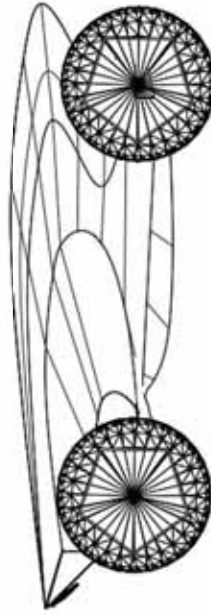
Since NPS is completely autonomous it will be able to form vehicle trains to provide more efficient delivery. Artificial intelligence computer will allow NPS to form experience over time and provide even better service as it progresses.



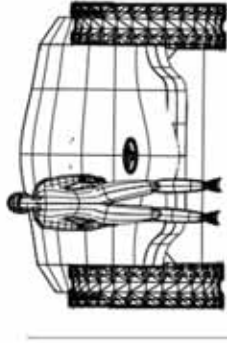
Central hive controls all autonomous units and calculates optimized routes



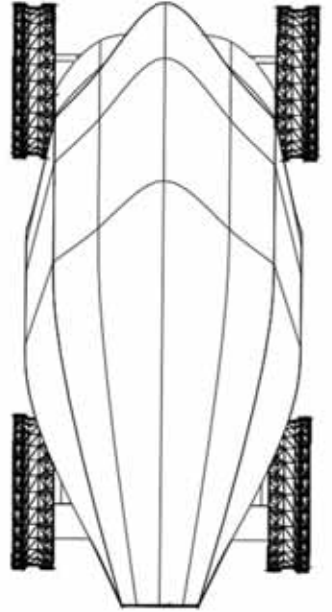
1380 MM



4500 MM



2280 MM



Title	Toyota NPS
Name	TOMAS JANKAUSKAS
Company	
Date	02/Jan/2014
Drawing Number	
Drawing Scale	1:42.28
Notes	
Units	Centimetres
File Name	toyota model.wire

*Tomas Jankauskas*  
2013