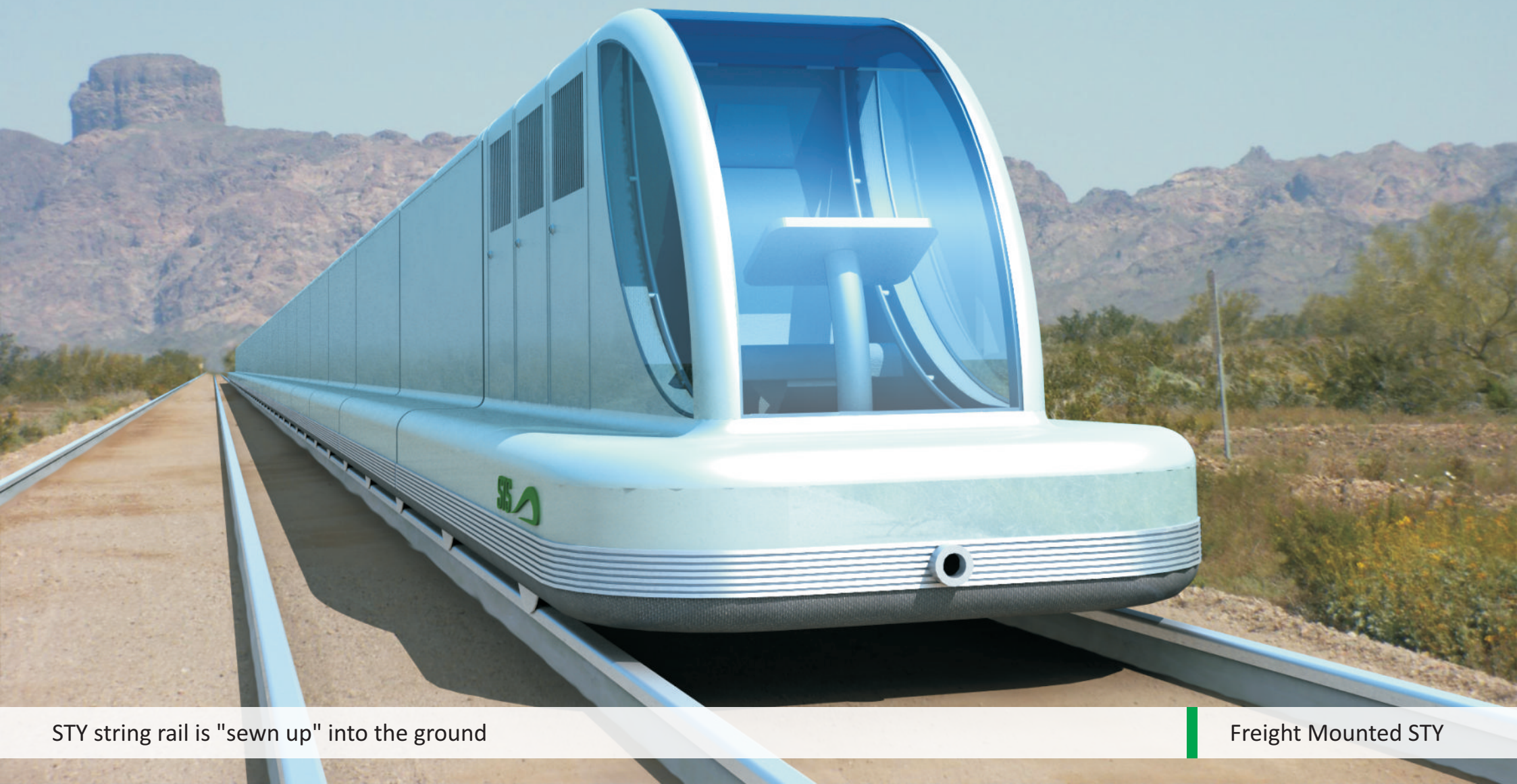




# Freight Mounted STY



STY string rail is "sewn up" into the ground

Freight Mounted STY

Rolling stock is a rail car (unicar) with the capacity from 0.1 to 100 tons, or special train (length from a several tens of meters to several kilometers) and capacity from 10 to 1000 tons and more



STY string rail is installed on supports

Freight Mounted STY

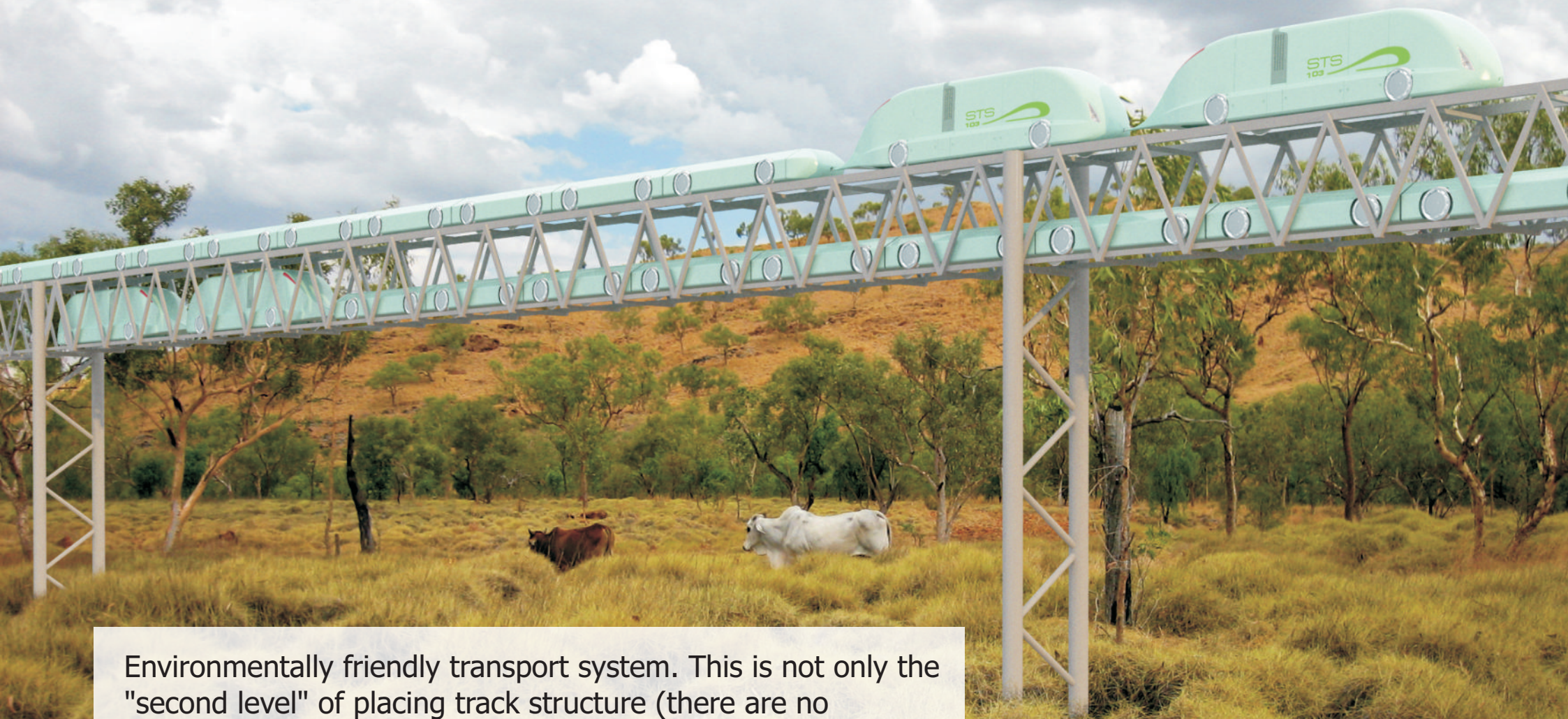


Transportation system is weatherproof and resistant to natural disasters - earthquake, flood, tsunami, hurricane winds, fog, dust and sand storms, ice and glaciers, snow drifts, low and high temperatures (+/- 60 °C)



Eco-friendly double-track freight route

Freight Mounted STY



Environmentally friendly transport system. This is not only the "second level" of placing track structure (there are no embankments, excavation, bridges, overpasses, etc.), but also — low energy consumption and resource requirements both during construction and during operation of the transport system

Cost-effective transport distance — from 1 to 10 000 kilometers. Scope — transportation of bulk cargo (ore, coal, construction materials, etc.), liquid cargo (crude oil and petroleum products, natural high-quality drinking water, etc.), general cargo (wood and wood products, steel products, containers, etc.) and special cargo



Transportation costs — up to 2 times lower than for the railroad

Freight Mounted STY



Freight routes STY does not destroy natural ecosystems and established biogeocenoses

Freight Mounted STY





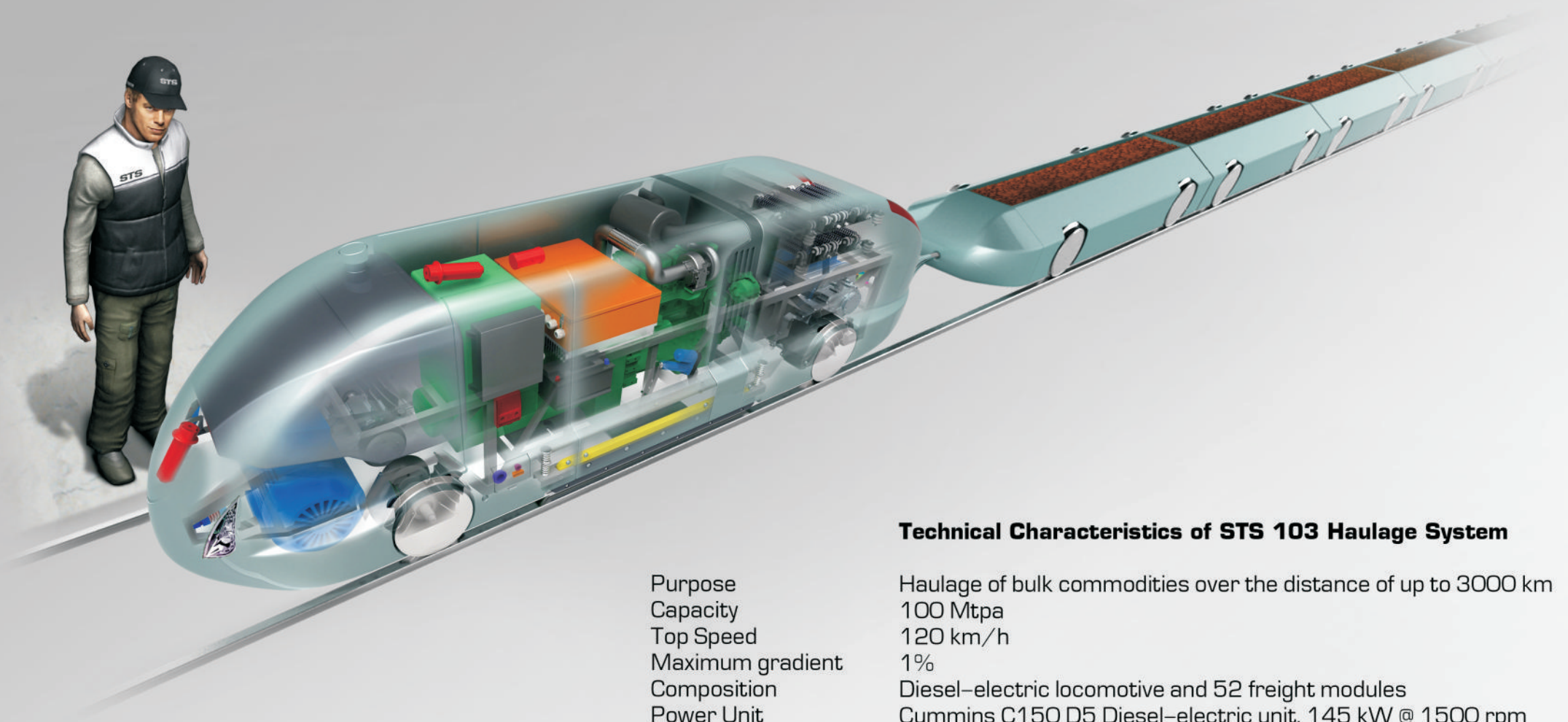
# STS 103

## Smooth Integration Into Existing Infrastructure

Loading terminal is situated at an onsite stockpiles' location & is loaded via conventional conveyor

Unloading is facilitated in integration with existing material handling infrastructure

Compact size of STS 103 and innovative solutions enable loading/unloading to take place in transit at a speed of up to 8 t/s



### Technical Characteristics of STS 103 Haulage System

Purpose	Haulage of bulk commodities over the distance of up to 3000 km
Capacity	100 Mtpa
Top Speed	120 km/h
Maximum gradient	1%
Composition	Diesel-electric locomotive and 52 freight modules
Power Unit	Cummins C150 D5 Diesel-electric unit. 145 kW @ 1500 rpm
Weight	Dead weight 159 t, maximum payload 125 t
Dimensions (HxWxL)	1230 mm x 1100 mm x 163900 mm
Fuel Consumption	25 litres per 100 km or (0.2 litres per 100 t/km)
Haulage Cost	AUD \$0.011 cents per t•km (assuming 100 Mtpa over 500 km)