



A proposal for a privately-funded transportation infrastructure for

Sudan and Khartoum

**9,238 km network with
174,739 pods and 18,664 stops**
(80% of 49.2M population within 3 min. of a stop)

Creates 1.4M jobs and adds \$51.7B to GDP.
Includes 500 km of high-speed podway (242 km/h)
2,216.3 MW solar & wind power (enough for 48.3M residents)
GHG reduction of 1.4M tonnes CO₂e per year (3.4M cars)

**High capacity • Convenient • No land use • Sustainable • Resilient • Nonstop
24/7 • No waiting • High speed • Equitable • Affordable • Accessible**

We propose to fund, build and operate a podway that provides safe, fast, sustainable, resilient, and equitable transport for people and freight. The podway generates local renewable energy, provides wireless broadband, and provides circular infrastructure for a circular economy.

Please watch this overview at transitx.com/video

Convenient and High Capacity

Pods provide the benefits of cars — a private, comfortable trip anytime and anywhere. Pods travel non-stop at 72 kph (45 mph) on metro podways and 242 kph (150 mph) on high-speed podways — delivering fast door-to-door trips. Pod stops are conveniently placed on every block and parking lot. Two pod lifts fit within one car parking space. Handicap-accessible roll-on pods are always available.

Six-pod trains with one-second headway can carry over 21,600 pods per hour — similar in capacity to a 40 lane highway. A pod stop with two lifts has a capacity of 720 vehicle boardings/loadings per hour.

A podway increases access to jobs, education, food, healthcare, tourist destinations, businesses and farms. Faster commutes increase personal time and productivity.

Environment & Footprint

Podways can fit anywhere because there is no dedicated footprint — pods travel alongside roadways or highways without interfering with vehicular traffic. Our infrastructure is 100% electric and creates walkable cities. Podways are quiet, produce no emissions, and have no water runoff. Temperatures are reduced from more green space.

Podways are resilient and operate during floods, pandemics, earthquakes, dust/snow/ice storms, high winds, blackouts, and heat waves. Damaged infrastructure can be repaired within 24 hours. If needed, podways can be easily relocated.

Health & Safety

Podways are fully automated and eliminate crashes. This project is projected to eliminate 45,178 road-related injuries and 452 deaths annually. Podways help prevent the spread of diseases, improve the quality of air and water, eliminate stressful driving, improve access to healthcare, and encourage walking and biking.

Podways authenticate passengers and provide protected and private pods without crowds or queues. Podways reduce crime and poverty. Podways can provide temporary housing for the homeless or during emergencies.

Proven Technology and Lowest Risk

A pilot podway was installed near Boston, Massachusetts in 2021. The project's turnkey contracts are with large and reputable firms that are bonded and fully insured. Capgemini is the product engineering firm that has built and operated fully automated transit systems and high-speed trains. Automated small-vehicle transport (PRT) has been safely operating for decades at Heathrow Airport, Morgantown in USA, and Masdar City, UAE. Podway projects are lower risk than any other alternative.

Financials & Economics

The project cost is \$26.8B (\$7.2K per customer, \$2.9M per km) and expected 11,141,924 trips per day (38% mode share) after 4 years. The financials make the project attractive for our financial partners. No government funding, subsidies, guarantees or special tax incentives are necessary. The system's low cost and multiple revenue streams makes it profitable.

Fares are based on distance and set by a formula to assure that trips on podways are affordable and equitable — similar to fares on public transit and much less than a taxi. 75% of fares are capped based on the Fair Fare Formula. Rate of 17 SDG per km (US\$0.03/km) for a shared pod. A typical 18 km trip is 301 SDG (US\$0.51)

Rights-of-way owners receive a 5% share of revenues which is expected to be 253.2 billion SDG (US\$421.3M) per year.

Societal Impact

Podways have significantly less visual impact than roadways, bridges, vehicles, and parking areas. Utility lines are hidden within the podway. A podway replaces many trips via cars or trucks which reduces the wear and tear on roads and bridges.

Podways eliminate most dangers and fears from public transit and motor vehicles, including traffic stops, robberies, assaults, and road-rage. International border crossings can be safer and faster.

Jobs and Schedule

The project will create over 629,750 local construction and manufacturing jobs, directly employ more than 574,750 workers and create at least 24,795,570 jobs from secondary effects. We use local firms and workers where possible. Transportation workers who get displaced are given higher priority in hiring. Transit X is committed to building factories in regions of the first podway projects.

Construction typically lasts 12 to 18 months and does not significantly disrupt neighborhoods, businesses, or existing travel.

Energy & Utilities

The project will generate 2,216.32 MW in solar and wind capacity to power equivalent of 48,316,146 households. 8,682.55 MW of battery storage help power and backup the local grid.

Utility lines are protected inside the podway to improve resiliency. A podway supports a distributed grid that can provide direct DC connections to businesses and homes served by the podway. Wireless broadband services are provided by a fiber backbone and 5G antennas on the podway. The podway can also distribute water and provide public toilet pods on-demand.

Freight Transport

Freight — including pallets, parcels, liquids, and bulk — is delivered directly to businesses and residences without the use of trucks. Total trip time via podway is 5-6 times faster than trucks, and 3-4 times faster than trains with no delays from congestion or weather. Delivery times can be guaranteed to the minute. A podway can carry over 21,000 metric tons per hour — similar to the capacity of 1,000 tractor-trailers per hour. Pods travel non-stop and are physically inaccessible which reduces theft and improves



security. Pods can be tracked and monitored in real-time and provide chain of custody guarantees. Pods and podways easily integrate with existing roadways, railways, seaports, airports, loading docks, forklifts, pallets, carts, and warehouses. See [Intermodal Podway](#)

Most tariffs are determined by a formula that assures equitable and predictable rates that are much lower than shipments by truck. 75% of freight tariffs are capped using a formula based on weight, volume, distance, timing, and other factors.

High Speed Podway

High Speed Podways are built alongside highways for non-stop, on-demand, 242 km/h (150 mph) transport of people and goods — without disruption or modifying overpasses. Pods transition from high-speed podways to local podways for providing fast, non-stop, door-to-door trips. See [High Speed Podway](#)

Circular Infrastructure and Podway City

Podway City is a model for circular, humanitarian infrastructure for any terrain or climate. Provides both high density and more than 70% green/open space. Podways directly service most buildings. Industrial areas are powered by renewable energy and farms provide food and energy. Podways reduce infrastructure costs and improve delivery of food, water, electricity, data, security, health care, postal service, digital identity, waste management, and education. See [Podway City](#)

Feasibility Study

Our 110+ page feasibility study answers many questions about the project, the company, the system, and detailed analysis of capacity, parking, road safety, pedestrian safety, accessibility, sustainability, fares, renewable energy & storage, construction, aesthetics, operations, economic development, quality of service, security, station footprint, equity, carbon footprint, transit integration, resiliency, reliability, and rights-of-way. The feasibility study is available by emailing hello@transitx.com

Additional Information

Webpage with proposals: transitx.com/GGW

2-minute overview: transitx.com/video

11-minute presentation: transitx.com/present

Overview of MOU: transitx.com/MOU

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Sudan and Khartoum
Solar Podway Project Feasibility Study

For lenders and equity investors to conduct due diligence and analyze business, financial, and technical feasibility of a podway project.

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