

A guide · The $500 trillion PPP infrastructure opportunity

Launch a PPP program for Rail Companies in Jordan

WHAT THIS GUIDE IS FOR

Your company launches a PPP program to build, equip and run freight and passenger rail lines, rail links to Aqaba's port, rolling stock and maintenance depots as public-private partnerships (PPPs), starting with Jordan's $86 billion and Aqaba's $46 billion of projects.

PREPARED FOR
Rail Companies in Jordan

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CONTENTS

Inside this guide

01	Introduction	3
02	The guide	5
03	Jordan’s $86 billion and Aqaba’s $46 billion	6
04	Jordan’s $86 billion, sector by sector	7
05	Artificial intelligence	8
06	Robotics	9
07	Tokenization	10
08	Small PPPs in parallel	11
09	PPP research labs	12
10	Unsolicited proposals	13
11	Why rail companies	14
12	How the program could work	15
13	About Jordan PPP	16
14	Next steps	17

INTRODUCTION

A century of infrastructure reaches the end of its useful life

Most of the roads, bridges, power plants, water networks, ports and airports the world runs on were built in the last hundred years, and much of that stock is wearing out at the same time.

The infrastructure of the twentieth century was designed, poured and left to age. It carried the growth of every modern economy, and it was built for a world with fewer people, far less data and a different climate. Pipes leak, grids strain under new demand, and assets designed for one purpose are asked to carry several. Replacing them is the largest building program in human history, and it has already begun.

Rebuilding and running the world's infrastructure will take about $500 trillion over the next fifty years. It is the largest investment humanity will make in that time. Public-private partnerships (PPPs) will carry a large share of it, because governments cannot fund, build and run the rebuild alone, and the private sector cannot do it without them.

How the $500 trillion adds up

	$300T	to build the physical assets: roads, rail, ports, grids, water, cities, schools and hospitals
+	$150T	to operate and maintain them across the life of each concession
+	$50T	for the sensors, compute and robotics that will sit inside them, the share of the rebuild that venture capital can fund
=	$500T	**in total to rebuild and run the world's infrastructure over the next fifty years**

INTRODUCTION

The next hundred years will build Earth's largest computer

For thousands of years the method has stayed the same: design it, pour it, forget it, and repair it when it fails. The next generation of infrastructure will carry a software layer specified alongside the concrete. Assets will monitor their own condition, predict their own failures and schedule their own maintenance, and fleets of machines will raise them with very few human hands involved.

The larger change is the connection between assets. When a port knows what the rail line is carrying before it arrives, a water utility prices its pumping energy against the grid in real time, and every contract and drawing on every project sits in one connected record, the built world starts to behave as one system. Joined across borders, the world's roads, grids, ports, water networks, data centers and satellites become one globally connected, superintelligent computer.

Future infrastructure will be self-building, self-monitoring and self-healing. A road that senses its own cracks can schedule its own repair and use the savings to fund the next stretch. A water network that finds its own leaks can put the recovered water into meters on the next street. Each asset leaves behind the money, the data and the proof for the asset that follows it, so each new project starts further ahead than the last.

The point where the built world starts improving itself faster than anyone can direct it is the infrastructure singularity. Three technologies bring it closer: artificial intelligence designs and runs the assets, robotics builds and maintains them, and tokenization finances them and opens their ownership to everyone. Each of the three changes how track, trains and freight are planned, maintained and paid for, and rail companies carry the heaviest loads an economy moves.

Railways have long been built by the state and run by a single operator, with track, trains and stations held in one public block. The railways of the next fifty years will be financed in parts, with track, rolling stock, depots and services each held under long contracts by the companies best able to run them. This guide invites rail companies in Jordan to launch a PPP program, starting with the projects at home.

THE GUIDE

Put the $500 trillion PPP infrastructure opportunity on track

Your company opens a dedicated PPP rail program, a team and a set of offers that bid for track, rolling stock, depot and train operating contracts and run them with AI and robotics, starting with Jordan's $86 billion of projects and the $46 billion anchored in Aqaba.

01 **A PPP rail team.** A dedicated team that knows how PPPs are prepared, procured and financed follows every freight, passenger and port rail project in the pipeline from the first market sounding, and it joins consortiums while sponsors are still choosing their builder and operator.

02 **Track and signaling.** New lines, sidings, signaling and the long-term maintenance of track can be delivered as design, build, finance and maintain contracts, in which the company earns availability payments for keeping each section open at its rated speed and axle load.

03 **Rolling stock and depots.** Locomotives, wagons, passenger trains and the depots that service them can be financed as one package and leased to the operator for their working life, paid per train available each day and backed by a maintenance plan the company runs.

04 **Freight to the port.** Mines, industrial zones and dry ports need trains that load at the site and unload at Aqaba. The company can run those services under haulage contracts paid per tonne carried, and join port rail consortiums as their operating partner.

05 **Small-scale PPPs and direct proposals.** Jordan's PPP Regulation No. 9 of 2024 defines small-scale PPPs below $14.1 million, which can be bundled into one feasibility report and one tender, and PPP Law No. 19 of 2023 accepts direct private proposals under Article 15. Your company can propose a rail siding, a wagon workshop or a container loading yard and bundle similar sites into one tender.

JORDAN AND AQABA

An $86 billion pipeline to start with

Jordan has 243 PPP and infrastructure projects in development, worth about $86 billion, of which $46 billion is anchored in Aqaba. Many of them, from mines and industry to ports and cities, need bulk cargo and people moved over long distances at low cost, which is the work rail does best.

$86 billion
of PPP and infrastructure projects in development across Jordan

$46 billion
anchored in Aqaba, Jordan's only port and its gateway to the Red Sea

SECTOR	PROJECTS	VALUE	WHAT THE PROJECTS WILL BUY
Energy	33	$28.3 billion	Grid and demand forecasting, solar and storage analytics, robotic panel cleaning, predictive maintenance
Tourism	40	$13.8 billion	Visitor flow and demand forecasting, resort and heritage-site operations, booking and payment rails
Urban development	17	$13.8 billion	Digital twins of new districts, digital permitting, modular construction, district operations
Transport	33	$11.7 billion	Traffic and fleet AI, tolling and payments, inspection drones for roads and rail
Industry	31	$8.1 billion	Factory automation, quality verification, industrial sensors and energy management
Water	29	$7.6 billion	Leak detection, pressure management, smart metering, pipe-inspection robots
Mining	15	$1.2 billion	Autonomous drilling and haulage, drone surveying, ore sorting
Health	12	$1.0 billion	Hospital operations AI, patient flow, equipment monitoring
Agriculture	10	$310 million	Precision irrigation, farm robotics, crop and soil monitoring
Environment	15	$270 million	Waste-sorting robotics, emissions monitoring, circular materials
Digital	6	$270 million	Data centers, connectivity, sovereign compute
Education	2	$20 million	School and training campus PPPs, digital learning, building operations and energy retrofits

A Jordanian rail company that runs one line or depot at home can carry the same model to the regional rail links now being planned. Aqaba concentrates ports and terminals, logistics, rail to the port, industry, energy, water and tourism inside the Aqaba Special Economic Zone, which makes it a single place to test port automation, logistics software, desalination and energy technology on assets that connect Jordan to the world.

SECTOR GUIDES

Jordan's $86 billion, sector by sector

Jordan is investing in and advancing 23 sectors at once, and together their projects make up the $86 billion. A sector guide for each lists every project in it, its link to the infrastructure singularity and the ways a partner can take part.

The sectors closest to rail companies

Transport	UAE-Jordan Railway Co. (Etihad Rail JV) formalised for the US$2.3bn, 360 km network. 32 projects, $8.1bn of forward investment. www.JordanPPP.com/sectors/transport
Mining and Minerals	Line will carry about 13 Mt/yr of JPMC phosphate from Shidiya to Aqaba. 29 projects, $1.2bn of forward investment. www.JordanPPP.com/sectors/mining
Ports and Logistics	Project includes mineral loading and unloading terminals at Aqaba, Ghor Al Safi and Shidiya. 23 projects, $3.6bn of forward investment. www.JordanPPP.com/sectors/logistics
Fertilizers and Chemicals	Second route links Arab Potash at Ghor Al Safi to Aqaba for potash exports. 14 projects, $6.5bn of forward investment. www.JordanPPP.com/sectors/chemicals
Tourism	Jordan Hejaz Railway runs tourist trains from Amman to Mafraq, Umm Jimal and Wadi Rum. 56 projects, $13.8bn of forward investment. www.JordanPPP.com/sectors/tourism

All 23 sector guides

Oil, Gas and Power	$15.1bn	Wastewater and Reuse	$946m
Tourism	$13.8bn	Nuclear Energy	$835m
Urban Development	$12.8bn	Agriculture and Food	$400m
Green Hydrogen	$10.6bn	Solar Power	$326m
Transport	$8.1bn	Digital and AI	$243m
Water	$6.7bn	Circular Economy	$189m
Fertilizers and Chemicals	$6.5bn	Wind Power	$186m
Ports and Logistics	$3.6bn	Pharmaceuticals	$128m
Manufacturing	$2.4bn	Creative Industries	$47m
Storage and Grids	$1.4bn	Defense	$10m
Mining and Minerals	$1.2bn	Education and Skills	$7m
Health	$986m		

Every sector guide can be read and downloaded at www.JordanPPP.com/sectors.

ARTIFICIAL INTELLIGENCE

AI designs, structures and runs it

A PPP takes about seven years from concept to financial close and costs roughly 10% of capex to structure. Almost all of that work is documents and models, which is the work AI does well.

What changes

When the cost of intelligence approaches zero, the cost of preparing a project falls with it. Feasibility studies, options appraisals, cost plans, risk matrices, financial models and tender documents can be produced and tested in days, and contracts can be drafted and stress-tested in hours. PPP projects will soon appoint an AI technical advisor alongside the human ones. Once an asset is running, the same intelligence operates it: a digital twin models the asset in real time, sensors report wear and faults early, and maintenance follows the data.

Jordan arrives late to PPP software, and that is an advantage. With few legacy systems to migrate off, AI-native tools can be built from the ground up, and the reasoning behind each decision can be captured inside the transactions being structured today.

What it means for rail companies

AI lets a rail company run its line on data. Models forecast tonnage from mines and ports, plan train paths and crew rosters and set the size of the wagon fleet. In service they read sensors on track and trains to predict wear in wheels, rails and switches before a fault stops traffic, so a line keeps its availability and the payments that depend on it.

What will be built

Project preparation	Software that turns feasibility studies, cost plans and tender documents into a repeatable process, so the years spent before tender shrink to months.
Procurement	Tools that let ministries compare bids on whole-life cost and deliverability.
Cost estimation	A national benchmark database that prices every project against real Jordanian rates.
Contract intelligence	Assistants that read, compare and answer questions on every contract, drawing and instruction on a project in plain language.
Asset monitoring	Sensors and digital twins that tell an operator what will fail before it fails.
Permits and approvals	Digital workflows that replace the paper trail across ministries, municipalities and utilities.

ROBOTICS

Robots build it and keep it running

Most of the $500 trillion of infrastructure due over the next fifty years will be built by machines, and people will design, train and supervise those machines.

What changes

Autonomous software combined with autonomous machines produces autonomous infrastructure. Tunneling machines, construction robots, drones and modular factories already raise structures with far fewer people on site. The machines then stay with the asset: drones inspect bridges and power lines, robots travel inside pipes to find leaks, and cleaning robots keep solar fields at full output.

Robotics also changes who can compete. A small company with the right machines can build what once needed a thousand-person contractor, and it can prove its method on a pilot before anyone asks for a track record, which opens PPP work to new companies for the first time.

What it means for rail companies

Robotics changes how a railway is inspected and maintained. Drones and track recording vehicles survey rails, bridges and embankments, wayside sensors check every passing wheel and brake, and automated machines tamp ballast and grind rail overnight. A small maintenance team can then keep a long desert line open around the clock.

What will be built

Water networks	Robots and acoustic sensors that find leaks inside the network, in a country that still loses about 41% of its water to leaks, theft and faulty meters.
Construction	Modular methods, on-site automation and quality verification suited to Jordan's labor market.
Inspection	Drones and crawlers that survey roads, bridges, rail, power lines and pipelines and report defects automatically.
Energy	Robotic cleaning and maintenance for solar fields, and retrofit technology for public buildings, street lighting and water pumping.
Mining	Autonomous drilling, haulage and drone surveying for phosphate, potash and new mineral projects.
Ports and logistics	Automated handling, yard robotics and drone delivery for Aqaba's terminals and Jordan's dry ports and border crossings.

TOKENIZATION

Tokenization finances it and opens its ownership

A PPP absorbs capital over four years and releases it over thirty. Today's investors expect to enter and exit easily, and tokenization gives them that option.

What changes

A concession is a long-dated, contracted, inflation-linked cash flow, the kind of asset a token represents well and an ordinary investor has rarely been able to hold directly. Tokenization lets a small pilot be funded by a few hundred investors, with returns paid automatically from the asset's own revenue and no lender between them.

The rails already exist in the region. ADGM regulates tokenized securities, the Dubai Land Department records tokenized title deeds on its own register, and Jordan adopted a national Blockchain Technology Policy in December 2024. Tokenized concession revenues are still rare, so the first tokenized PPP in Jordan is open to whoever builds it.

PPP companies will be tokenized before PPP projects, because a developer already gathers projects, risks and revenues into one entity. People will own the builders first, then the portfolios, then the projects, and at the end of that sequence sits a stock exchange for the physical world.

What it means for rail companies

A railway earns from every tonne and passenger it carries for decades, and its wagons and locomotives can be leased like any other long-life asset. A rail company can offer tokenized stakes in the rolling stock and depots it finances, pay holders from lease and haulage payments as they arrive and publish tonnage and availability data, so investors follow the line as it performs.

What will be built

Issuance	Compliant token issuance for PPP companies, infrastructure funds and small pilots.
Investor onboarding	Identity checks, suitability and custody built for Jordanian and regional investors.
Revenue distribution	Smart contracts that pay holders from tolls, tariffs and availability payments as the money arrives.
Registries	Shared records of contracts, milestones and asset performance that every party can trust.
Secondary markets	Venues where holders can buy and sell stakes in operating infrastructure.
Citizen participation	Tools for citizens to propose projects, vote them up and invest small amounts in what gets built.

SMALL PPPS IN PARALLEL

A thousand small PPPs teach more than one large one

The World Bank counted 315 private infrastructure projects reaching financial close across all low- and middle-income countries in 2024, only a few per country. No country can learn quickly at that pace, and each lesson arrives years after the technology behind it has moved on.

Each of those projects is too large, too slow and too expensive to try anything new on, and every approval, guarantee and stakeholder on a $1 billion project pulls it toward the way things were done before. Small projects are where a new idea can afford to be wrong, because the downside is small, the learning cycle is fast and the bureaucracy is thin.

Run them in parallel

Software has already moved from building one idea at a time to building ten at once, and infrastructure can follow. Picture 100 small schools built within six months, each delivered through its own PPP and each testing a slightly different legal structure, financing model, construction method and operating approach. Performance data arrives quickly, the models that work are copied, the weak ones are retired early and policy improves with every round, so a thousand small projects teach a country tens of thousands of lessons where one large project teaches a few.

$10M	spent preparing a single $100 million PPP, enough to build 100 pilots at $100,000 each
780	small PPPs a year in Jordan at $100,000 each, from 1% of the budgets of its 40 contracting authorities, about $78 million, in a country that closes only a handful of PPPs a year today
97,500	small PPPs a year if every country ran 500 at $100,000 each, for $9.75 billion, less than the price of one metro line

The PPP singularity

The PPP singularity is the point at which it becomes cheaper to build the pilot than to conduct the study. One feasibility study can make a project look feasible, another can make it look unfeasible, and the decision still comes down to judgment, while a pilot settles the argument with evidence. Governments that work this way become portfolio managers of experimentation: they set the objectives and the guardrails, standardize contracts that can adapt, collect the data and publish every pilot, every cost and every failure on one public website.

PPP RESEARCH LABS

Pilots need somewhere to live

PPP innovation needs the public and private sectors working together, so each lab is built the way a PPP is built: the public sector spearheads it and the private sector designs, finances, builds and operates it.

One lab per sector	Water, power, transport, aviation, health, education, agriculture, digital, tourism and urban development each get a lab inside the ministry or authority that runs the sector.
A one-line brief	Run ten small PPP projects a year at up to $100,000 each, testing new technologies, new PPP frameworks, new construction methods and new financing structures.
A PPP itself	The ministry tenders the lab, and private companies bid to design, finance, build and operate it with their own capital, effort and technology.
Funding	About $1 million a year per lab, found by moving 1% of an authority's budget away from inefficient spending. Ten labs can run a hundred experiments a year on a modest budget.
Open results	Every result is published as it happens, including the failures: what worked, what failed and what the contract should have said. The lessons go straight into the large PPPs already running and the ones still to come.
Room to explore	Labs carry no fixed deliverables, because predetermined outputs defeat the purpose of research, and they are judged on engineering results.

Who builds and who funds

Small projects open PPPs to founders and small companies. On a large concession a bid costs 3% to 5% of capex, prequalification asks for a decade of comparable projects and performance bonds run to tens of millions. AI cuts the bid cost, robotics cuts the crew a project needs and tokenization lets a few hundred investors fund a pilot, so a small PPP moves at the speed of the founders running it. Venture capital funds the technology, infrastructure funds finance the assets, and a $10 billion fund raised by both, deploying $2 billion in its first year, could back 20,000 small PPPs, about 100 in every country.

What it means for rail companies

A rail siding, a loading yard or a wagon workshop is small enough to tender as a small PPP and close enough to the main line to matter. A rail company can run lab pilots on sensors, inspection drones and maintenance robots at those sites, measure the time and cost they save and carry the methods that work onto the main line.

UNSOLICITED PROPOSALS

Jordanian law accepts unsolicited PPP proposals

Any private company can take its own PPP idea to government. Article 15 of PPP Law No. 19 of 2023 lets a proposer submit a direct proposal to the Ministry of Investment or a public authority, and PPP Regulation No. 9 of 2024 sets out how it is assessed.

How a direct proposal works

Conditions	The proposal offers an innovative solution for a public service, is prepared on the proposer's own initiative, gives value for money, fits government programs, covers the government's obligations from project revenues and discloses any conflict of interest.
Contents	The scope, the proposer and its experience, a pre-feasibility study with the innovation and intellectual property behind it, the fiscal implications and any support or guarantees sought, and the cost of preparing the study.
Review	A public authority or municipality that receives a proposal refers it to the Ministry, which has 60 days to take it up for study or return it unopened, and can charge a study fee of at least $7,050.
Registry	A qualifying proposal is listed as a PPP project in the national registry of public investment projects, and one that falls short is rejected.
Tender	If the project goes to tender, the proposer can match the best offer, and if another bidder wins, the winner repays the proposer's direct study costs.
Small projects	Projects with a capital cost below $14.1 million are small-scale PPPs, and similar ones can be bundled into one feasibility report and one tender under simpler procedures.

Limitless ideas

This is the Swiss Challenge approach: the proposer brings the idea, the market competes on it and the proposer keeps the right to match the best offer. Many of the projects in Jordan's $86 billion pipeline are still early enough for a partner to shape the deal or bring its own idea, and a direct proposal can be as large as a mini city built and operated under one contract or as small as a $100,000 pilot. The PPP research labs can be proposed the same way, and every company with an idea for a public service becomes a possible project sponsor.

What it means for rail companies

A rail company knows where cargo stays on the road because no siding reaches it and where trains wait for a depot or a loading point. A direct proposal lets it turn that knowledge into a siding, yard or workshop of its own design, and keep the right to match the best offer if the project goes to tender.

WHY RAIL COMPANIES

Rail companies carry the heavy loads every economy depends on

Jordan began building its freight railway to Aqaba in 1972 to carry phosphate from the southern mines, and in 2024 it signed agreements for a new 360 kilometer line linking the port to the mining areas of Shidiya and Ghor Al Safi. Railways of that size need builders, maintainers and operators for decades.

Where rail companies fit in a PPP

Track	New lines, sidings, signaling and long-term track maintenance paid through availability payments.
Rolling stock	Locomotives, wagons and passenger trains financed, leased and maintained for their working life.
Freight	Haulage of phosphate, potash, containers and fuel from mines, industrial zones and dry ports to Aqaba.
Passengers	Commuter and intercity services between Jordan's cities, paid through fares or availability payments.
Depots	Workshops, yards and loading terminals that keep trains moving and cargo flowing onto the network.

Jordan's rail plans are moving

Jordan's first railway to Aqaba reached a total length of 292 kilometers after a branch to the Wadi Al Abyad mines opened in 1982. The new 360 kilometer line to Shidiya and Ghor Al Safi is planned to carry up to 16 million tonnes a year, with its foundation stone laid in October 2026 and financial close expected in early 2027. The Minister of Transport has described it as the base for a future national rail network.

Why a program, and why now

A rail line is built once and then maintained, equipped and operated for generations. The contracts for its track, trains, depots and feeder lines are being shaped now, and a program lets your company bring sidings, depots and loading terminals to government as its own proposals and join rail consortiums before their operating roles are filled.

THE PROGRAM

How the program could work

The program can sit inside the engineering and operations teams, with a PPP lead at its center and the company's rail engineers, workshops and safety record behind it.

PPP team	A small team of rail engineering, operations, finance and legal people that covers every rail PPP in Jordan's pipeline from the first market sounding.
Track	Track, signaling and maintenance contracts priced on availability, speed and axle load over the life of each line.
Rolling stock	Locomotive, wagon and passenger train packages financed and leased with a full maintenance plan.
Freight services	Haulage contracts from mines, industrial zones and dry ports to Aqaba, paid per tonne carried.
Direct proposals	Rail projects brought to government under Article 15, including small-scale PPPs below $14.1 million.
Technology	Train planning, condition monitoring, drone inspection and automated maintenance deployed as standard on every line.
Partners	Standing agreements with contractors, train builders, mining and port companies, banks and infrastructure funds that complete each consortium.

What the company gains

The company gains contracts that run as long as the track and trains it maintains, revenue tied to the tonnes and passengers it carries and a stake in the rolling stock it finances. Each line it keeps open builds a record that lenders and contracting authorities trust, which qualifies the company for the regional links that follow.

It also gains a position in how the region will move bulk cargo. The first rail company in Jordan to run a line with live condition data and predictive maintenance, and to share its performance with investors, will set the standard that later rail contracts are measured against.

ABOUT

Jordan PPP

Accelerate Jordan
Accelerate the infrastructure singularity
Accelerate the Jordan PPP singularity

AMMAN, JORDAN WWW.JORDANPPP.COM

Jordan PPP helps every kind of organization in Jordan launch a public-private partnership (PPP) program of its own. It publishes 96 guides, one for each kind of organization, from the Royal Hashemite Court and Parliament to banks, contractors, universities, humanitarian organizations, companies in twenty-one sectors and organizations in twelve governorates.

Its vision is the infrastructure singularity, when roads, grids, ports and water networks become one globally connected, superintelligent computer, built by robotics, run by artificial intelligence and financed by tokenization. Rebuilding and running the world's infrastructure will take about $500 trillion over the next fifty years.

Its method starts small: a PPP program for every organization, small PPPs run in parallel, a research lab in each sector and direct proposals under Article 15 of PPP Law No. 19 of 2023, starting with Jordan's $86 billion and Aqaba's $46 billion of projects.

JORDAN PPP

What Jordan PPP offers

The guides

One for every organization

96 guides, each with the case, the program and six first steps.

www.jordanppp.com/guides →

The summary

All guides in one document

Every guide, its organization and its ask, in one place.

www.jordanppp.com/summary →

Futureproofing

AI, robotics, tokenization

What the three technologies change for every organization.

www.jordanppp.com/futureproofing →

The opportunity

$500 trillion

The $500 trillion PPP infrastructure opportunity, from the crisis to the exchanges.

www.jordanppp.com/opportunity →

NEXT STEPS

How a rail company can start

Any rail company in Jordan can take this guide forward. The first steps use the engineers, workshops and operating record the company already has.

Mandate	Board approval for a PPP rail program, with its services, the equity it can commit and its first-year goals.
Team	A named program lead, with engineering, operations, finance and legal people drawn from the company's existing teams.
Pipeline	A map of Jordan's $86 billion of projects by sector and stage, and early meetings with the contracting authorities and shippers behind each rail line and port link.
Assets	The track, rolling stock, depot and maintenance capabilities the company will bring to its first bids, with availability priced for whole-life contracts.
Partners	Contractors, train builders, mining and port companies, lenders and technology companies to complete each consortium.
Pilot	A first siding, wagon workshop or loading yard as a small-scale PPP or direct proposal, taken from idea to submission.

Jordan has a new railway to its port under way, plans for a national network and a law that lets a company propose its own projects. A PPP program puts your company on the lines, trains and depots of the superintelligent infrastructure future from the day the first train runs.

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