



Co creating the future: cooperation plan with Saudi Arabian Railways (SAR)

Supporting Saudi Arabia's 2030 Vision and Building a World Class Railway Network

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PART 01

The Opportunity: The Railway Revolution under Saudi Vision 2030

Why build a world-class railway network in
Saudi Arabia?



Project Background and Objectives

01 Driven by National Strategy: "Vision 2030" & NTLs

Core Objective

To transform Saudi Arabia into a global logistics hub connecting Asia, Europe, and Africa, establishing regional hub status.

Strategic Pillar (NTLS)

The National Transport and Logistics Strategy (NTLS) is a key pillar of the Vision, aiming to comprehensively enhance overall logistics efficiency and significantly increase the proportion of railways in the freight transport system.

Key Quantitative Indicators

Reduce logistics costs as a share of GDP and significantly enhance the market share of rail freight in overall cargo transport.

02 Project Objectives: Building a Modern Railway Network

Short-Term Goal • Deep Participation & Construction

Actively participate in the construction of new and existing railway lines, provide high-level engineering construction services, and enhance the overall hardware facility level of Saudi railways.

Medium-Term Goal • Operation & Management Output

In-depth participation in the full life cycle management of major railway projects with "EPC+O&M" mode, exporting mature and advanced operation and maintenance management experience to Saudi Arabia.

Long-Term Goal • Industrial Deep Rooting

Establish railway-related manufacturing bases and technology R&D centers locally, promote localization production, and drive the development of local industrial chains and talent cultivation.

Market demand analysis: huge construction demand



Market size

The logistics market size in Saudi Arabia has reached \$27.1 billion by 2025 and is expected to further grow to \$37.8 billion by 2031, demonstrating strong growth potential and market space.



Infrastructure investment

The Saudi government has made a clear commitment to invest \$133 billion specifically for infrastructure construction in the transportation sector, providing solid financial support for the upgrading of the railway network.



Network expansion

An ambitious expansion plan has been formulated, aiming to significantly expand the national railway operation network from the existing 6000 kilometers to over 8000 kilometers and comprehensively enhance the level of interconnectivity.



Core driver

With national landmark projects such as the "Saudi Continental Bridge" and "Gulf Railway" as key drivers, Saudi Arabia is comprehensively reshaping its regional transportation pattern and logistics hub status.



Opportunities for Chinese Enterprises

China has a competitive advantage in the entire industry chain covering survey and design, engineering construction, equipment manufacturing, and operation and maintenance. With mature technology and rich experience, it is an ideal partner for Saudi Arabia to achieve railway modernization.



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PART 02

**The Partner: Saudi Arabian
Railways (SAR)**

Who is the ideal partner for
cooperation?

SAR: The Core Platform for National Logistics and Regional Connectivity



01 Strategic positioning and core mission



National attributes

Fully owned by the Saudi Public Investment Fund (PIF), it is the core strategic platform of the national logistics system.



Core mission

Undertake key tasks such as national railway network construction, port intermodal transportation, industrial transportation, and pilgrimage transportation.



Strategic value

Connect the national economic lifeline and ensure that the strategic direction is highly aligned with Saudi Arabia's national development goals.



02 Network and Business System

Railway network

Having key routes such as the North South Railway, the East West Railway, and the Haramain High Speed Railway, building a transportation backbone covering the whole country.

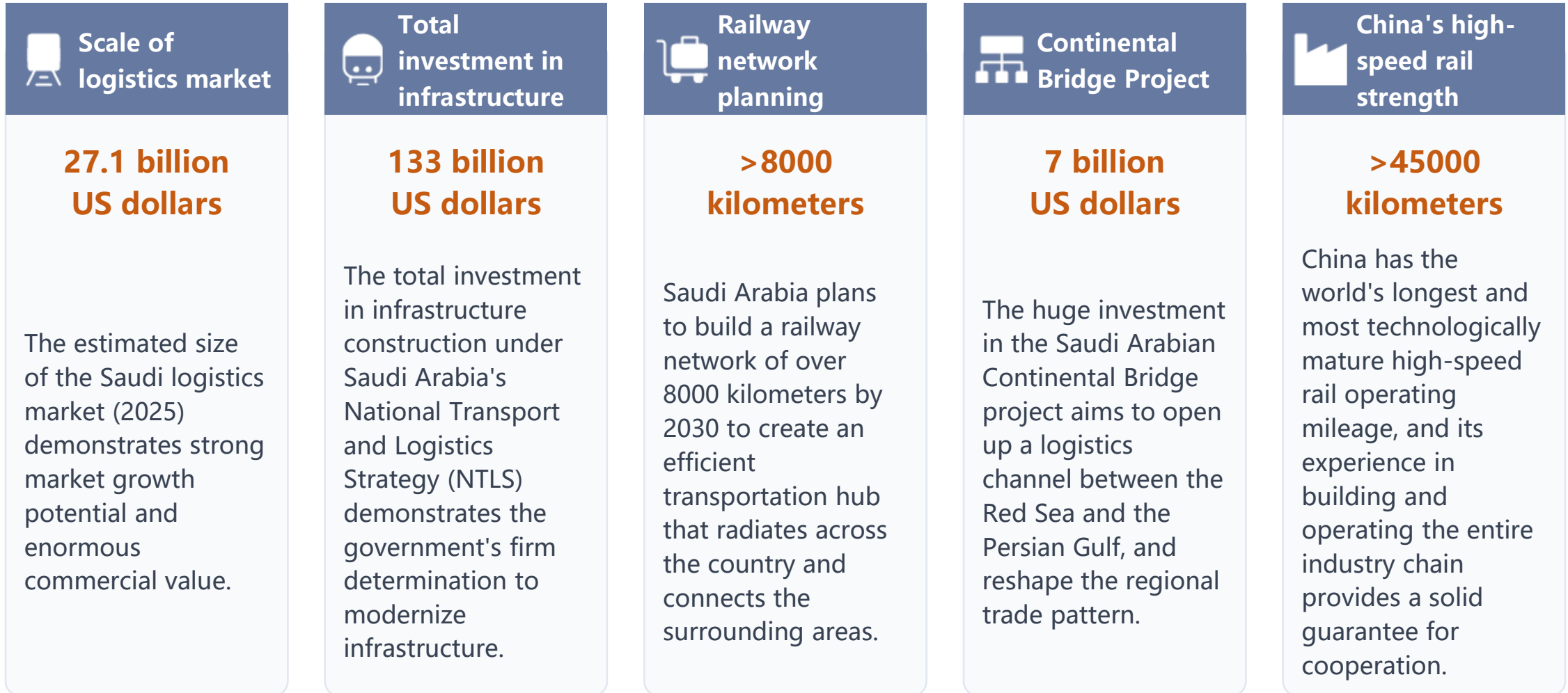
Freight system

Efficiently undertake the tasks of mineral resource transportation and port multimodal transport, and strongly support the country's industrialization process.

Passenger transportation system

Providing high-quality intercity railway services and shouldering the sacred mission of pilgrimage transportation, with significant social and religious significance.

Core data summary



Modernization and Open Attitude of SAR



Digital transformation

Collaborate with international giants to promote the construction of smart railways using 5G technology, actively explore AI intelligent scheduling and full process automation operation models, and enhance the overall efficiency of the railway system.



Localization Strategy

The official launch of the "ASASAT" localization development plan aims to build and improve the local railway industry chain ecosystem, encourage and support international partners to carry out technology transfer, talent cultivation, and industrial investment in the local area.



International cooperation

Always maintaining a positive attitude and seeking international advanced technology and mature experience, it has created broad cooperation and development space for Chinese enterprises in multiple fields such as high-speed rail construction, core signal system research and development, and smart logistics hub construction.



Open posture

SAR is embracing the digital wave and globalization trend with a more confident and inclusive attitude, committed to creating a transparent, fair, and efficient business environment, and creating solid and favorable conditions for Chinese and foreign enterprises to carry out deep technological and commercial cooperation.



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PART 03

**Our Strength: The Global
Leading Advantages of
China's Railway Industry**

What can we offer?

Global leading high-speed rail technology and construction capabilities



01 Global leading high-speed rail technology and experience



Technological maturity: a complete and extensive system

Having the longest operating network in the world (over 45000 kilometers), with a complete technical system and stable and reliable performance.



Successful case: Benchmark demonstration of Yawan high-speed railway

The successful operation of Southeast Asia's first high-speed railway fully demonstrates the reliability and comprehensive superiority of China's high-speed railway system.



Cost Advantage: High Cost Effective Solution

Relying on a complete industrial chain and huge market economies of scale, we can provide highly competitive integrated solutions for construction, maintenance, and operation.



02 强大的工程建设与项目管理



EPC general contracting capability

Having strong integrated general contracting capabilities in design, procurement, construction, and commissioning, capable of controlling project quality and progress throughout the entire lifecycle.



Local Experience in Saudi Arabia

Successfully constructed the Mecca Light Rail and Mecca High Speed Railway, accumulating rich construction experience in special natural environments such as high temperatures and frequent sandstorms.

Advanced intelligence and complete industrial chain

01 Advanced intelligent and digital solutions

Intelligent scheduling system

We have a world leading railway intelligent dispatch and command system, which greatly improves transportation efficiency through intelligent means and ensures safe and efficient train operation.

Smart operation and maintenance system

Integrating IoT, big data, and AI analysis technologies to achieve predictive maintenance of infrastructure and vehicles, effectively reducing long-term operational and maintenance costs.

Autonomous Driving Technology (FAO)

Key technological breakthroughs have been made in the field of fully automated train operation, providing mature solutions at the GoA4 level.

02 Complete industrial chain support and localization potential

Core advantages of the entire industry chain

Covering the complete chain from basic raw materials, components, core equipment manufacturing to system integration, it has the powerful ability to provide a "one-stop" overall solution for projects.

Deep localization manufacturing cooperation

Actively responding to Saudi Arabia's "ASASAT" localization strategy, willing to work with local partners to establish a modern manufacturing base and introduce core equipment manufacturing capabilities into Saudi Arabia.

Joint R&D and Talent Empowerment

Build a joint research and development center and talent training center to transform technical experience into Saudi Arabia's local research and development capabilities and professional talent reserves.

PART 04

The Win-Win Blueprint: China-Saudi Railway Cooperation Project Proposals

Which projects should we co-develop?



Collaboration Plan: Focus on Four Major Directions



Deepening Cooperation on Saudi Continental Bridge Project

Deepening from Engineering Construction (EPC) to Operations and Maintenance (O&M), providing advanced operational management experience and intelligent scheduling systems to maximize project value.



Joint Development of GCC Gulf Railway Project

Based on China's mature railway construction experience, we will jointly develop the GCC railway Saudi section and provide comprehensive services from early planning and design to later engineering construction.



Smart Railway and Digital Solutions

Provide a comprehensive package of smart railway solutions, including AI intelligent scheduling, intelligent operation and maintenance platform, 5G+railway applications, etc., to fully support the digital transformation of Saudi railways.



Localized industry cooperation

Actively respond to Saudi Arabia's "ASASAT" plan, establish joint ventures with local enterprises, and build a localized industrial cluster that integrates railway equipment manufacturing bases, professional talent training centers, and joint research and development centers to achieve long-term win-win results.



Advantages of full chain integration

Give full play to the advantages of the integrated industry chain of China Railway's "investment, construction, and operation", effectively eliminate cooperation barriers, achieve deep integration of resources, and ultimately achieve the optimal cost and maximum benefit throughout the project lifecycle.

Feasibility and necessity analysis

01 Feasibility analysis

■ Technical Feasibility

China's railway technology is mature and rich in experience, fully capable of meeting Saudi Arabia's high-standard requirements for railway construction and operation.

■ Economic Feasibility

The Saudi government's investment plan is clear, project funding is guaranteed, and the cooperation has good investment returns, which can promote the economic development of both sides.

02 必要性分析

■ For Saudi Arabia: A Key Measure for Strategic Transformation

Introducing Chinese technology, management and industrial chains is a key measure to realize Vision 2030, build a global logistics hub, and promote the diversification of Saudi Arabia's economic structure.

■ For China: Enhancing International Influence

Deepening railway cooperation with Saudi Arabia helps China's high-end equipment and technical standards "go global", enhances its influence in the global transportation field, and promotes the common development of the two countries.



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PART 05

Cooperation Models: Flexible International Railway Cooperation Schemes

How do we cooperate?

Cooperation mode and investment method



01 Establish a Project Company (SPV)

Saudi partner:

As the initiator and coordinator of the project, responsible for communication and coordination with the Saudi government and project owners.

Chinese enterprise consortium:

composed of Chinese design, construction, technology, equipment and other enterprises, serving as the main implementing body of the project.

International partners (optional):

Introduce internationally renowned technology companies or operators to jointly participate in the project.



02 Flexible and diverse ways of cooperation

EPC (Design Procurement Construction):

Suitable for projects with mature technology and clear scope, the consortium is responsible for the entire construction and delivery process.

EPC+F (including financing):

Suitable for projects where the owner is short of funds or wishes to optimize cash flow, the Chinese side will solve the financing needs and be responsible for construction.

PPP/BOT model:

suitable for large-scale public infrastructure projects, where the government and private sector establish long-term cooperation to achieve risk and benefit sharing.

Collaboration Process: The Full Cycle Path from Blueprint to Reality



Project objectives and contract signing (12 months)

Clarify project objectives, participate in Saudi Railways' project objectives, complete contract negotiations and signing.



Survey, Design, and Land Acquisition (18 months)

Complete detailed engineering survey and design work, while carrying out land acquisition and demolition work along the project route.



Engineering construction (48 months)

Comprehensively carry out civil engineering projects such as roadbeds, bridges, tunnels, etc., complete track laying, installation of electrification systems, and construction of communication signal systems.



System debugging and trial operation (12 months)

Complete dynamic debugging and system integration testing of the train to ensure safe operation, and conduct trial runs according to the plan.



Business operation (ongoing operation)

The project has officially opened for operation, providing high-quality railway transportation services to Saudi Arabia and entering a long-term operation and maintenance phase.

Potential partners



CHINA RAILWAY

China State Railway Group Co., Ltd.

Headquarters: Beijing, China



CREC

China Railway Engineering Group

Headquarters: Beijing, China



CRCC

China Railway Construction Co., Ltd.

Headquarters: Beijing, China



CRRC

CRRC GROUP

Headquarters: Beijing, China

Contacts

ANTEX INVESTMENT GROUP

Chairman : Mr. Qian Anhua

Email : qah@antexgroup.cn

<https://www.antexgroup.cn/>

<https://www.antex-eth.com/>

Business Agent :

Makfish Group

Dr Mohammed Abdu: +971547496250

Mr Mustafa Oumer: +966532160121

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Thank You

Joining hands to build a world-class railway network in Saudi Arabia