

SIEMENS



#MOVINGEGYPT

A modern rail system  
that will **transform the  
everyday**

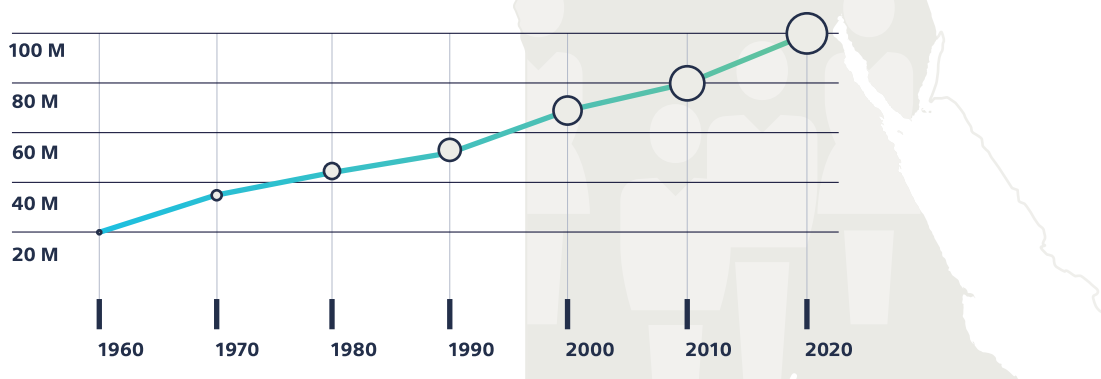
# Egypt's first high-speed rail network: **building on a rich heritage**

## Egypt today

Egypt's Vision 2030 aims to transform the country into one of the top 30 countries in the world, with a strategic focus on economic, social and environmental factors. By 2030, the Egyptian economy will be a balanced, knowledge-based, competitive and diversified market economy characterized by a stable macroeconomic environment and the capability to achieve sustainable growth.

As a basis for Vision 2030, the Arab Republic of Egypt can rely on its rich heritage, cultural landmarks, comprehensive land resources and young population. The goal is to invest in the ingenuity of the country and its inhabitants to achieve sustainable development and improve Egyptians' quality of life.

Egyptian Population (1960–2020)

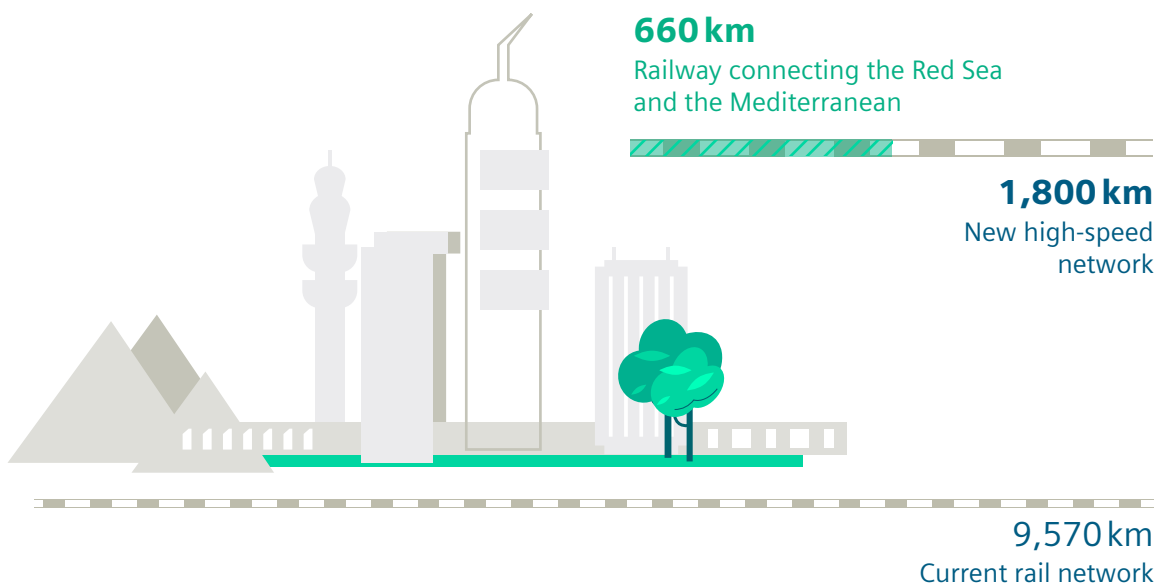


Source: wordometers.info

With the median population in its mid-twenties, Egypt is actively looking for opportunities to support its growing nation. To achieve this goal, Egypt is investing in its first high-speed and electrified main rail network, which will safely connect people and transport goods across the country.

## Increasing demand for a growing nation

The oldest in Middle East and Africa and the second worldwide, the current Egyptian railway network is 9,570 km long and carries about 500 million passengers and 6 million tonnes of freight annually. Egypt is looking to invest in a new system that can keep pace with its growing population and vision for economic growth. In Cairo alone, the annual economic cost of congestion is about 4% of its gross domestic product. To meet increasing demand – both in and between cities – the nation is investing in a new state-of-the-art, high-speed and electrified main rail line network.



The Egyptian government plans to build a reliable and sustainable 1,800 km long transportation system. One that will provide efficient, safe and affordable transportation for people and goods across the country and, at the same time, reconfirm Egypt as a regional leader in rail transportation.

## The future high-speed network in Egypt: Connecting people and goods, land and sea

The new extensive network will provide efficient, reliable, and safe transportation for people (both high-speed and regional) as well as goods. The Egypt project is set to transform everyday lives through state-of-the-art technology. The more than 1,800 km project will connect Egypt's key economic and development hotspots. The project will consist of three mainline sections: the Ain Sokhna – Marsa Matrouh line, the Greater Cairo (6<sup>th</sup> October City) – Aswan line along the Nile River, and the Luxor – Hurghada – Safaga line that will bring passengers and goods to world heritage archeological and cultural sites, as well as to holiday destinations near the Red Sea and the Nile.

The first part of the major network will be a 660 km line connecting the port cities of Ain Sokhna on the Red Sea to Alexandria and Marsa Matrouh on the Mediterranean.



Map of Egypt with an overview of the future high-speed network

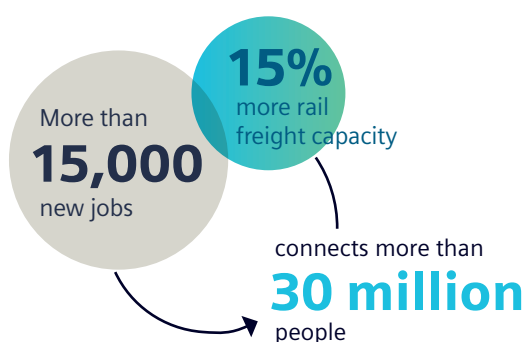
# Egypt and Siemens Mobility: Transforming the everyday

## Investing in the future

The initial milestone to design, install, and commission a high-speed rail system is not only an investment in transport, but in people. By providing state-of-the-art high-speed and regional trains, locomotives, rail infrastructure, system integration, and related services, Siemens Mobility and Egypt will transform the everyday lives of Egyptians and visitors alike.

### The new rail system of about 660 km will generate enormous opportunities for Egypt, such as:

- Access to safe, clean and affordable transportation for more than 30 million people per year
- Reliable cargo transport of up to 1.3 bn tkm per year, 15% more capacity for freight rail transport
- Faster delivery of goods thanks to creating of a link from the Red Sea to the Mediterranean
- Reducing traffic fatalities due to a modal shift of passengers to rail transport; new rail system will comply with highest safety requirements, and will be extensively tested to ensure the safety of passengers and staff
- More than 15,000 new jobs will be created by the consortium (Siemens Mobility, Orascom Construction, The Arab Contractors) during construction and to maintain trains and infrastructure, additionally about 3800 indirect/ induced jobs will be created locally
- Enhanced local skill development and qualifications
- Economic boost (only the effects from the consortium's scope adds \$1 bn gross value to Egyptian GDP) and increased quality of life for the people in Egypt



## New rail, new benefits

- Saves passengers time and eases congestion by linking Cairo to the surrounding newly developed and developing urban communities.
- Cuts carbon emissions, while reducing overall air pollution, which improves the quality of life.
- Connects sea and dry ports which increases capacity for freight transport.



With new **train connection**:

**about 2 hours**

By car:

**about 4 hours**



Ain Sokhna



Alexandria

## **The Ain Sokhna – Alexandria – Marsa Matrouh line: 660 km of opportunity**

Connecting the Mediterranean and Red Sea, the rail line links Greater Cairo with the new administrative capital and saves passengers up to 50% on travel time. The track connects sea and dry ports and increases the capacity to transport freight on rail. Additionally, it includes an attractive, electrified commuter system for Greater Cairo, and cuts carbon and reduces air emissions by more than 70%.



We are honored and proud to become Egypt's partner in constructing a state-of-the-art rail system that will transform the everyday travel for millions of Egyptian people.

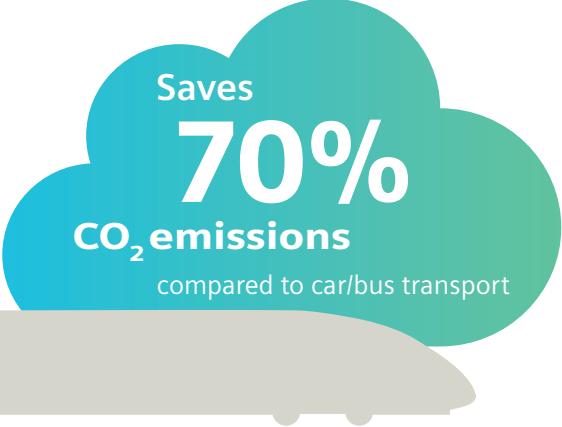
Our world class trains will provide a first-rate passenger experience, and combined with our digital leadership in rail infrastructure, we will deliver a safe, reliable and efficient transportation system.

In addition to benefiting passenger travel, the first fully electric mainline rail network in Egypt will create thousands of local jobs and open up huge possibilities for freight transport.

**Michael Peter,**  
CEO of Siemens Mobility

# Innovation on (and off) the tracks

Siemens Mobility will deliver Velaro high-speed trains, Desiro HC train sets, and Vectron locomotives. A safe and reliable signaling system based on the latest computer-based interlocking technology will be installed. This system is based on European standards and will comply with highest safety requirements. In addition, the power supply system will deliver efficient and continuous energy.



Saves  
**70%**  
CO<sub>2</sub> emissions  
compared to car/bus transport

Our reliable rolling stock ensures an outstanding passenger experience, especially in terms of safety and efficient cargo space. Next generation signaling helps make the rail system safe and, at the same time, provides data to create value over the entire lifecycle. Our solutions for rail electrification increase the reliability and durability of the rail system, and digital services ensure up to 100% system availability, optimized maintenance, and support efficient operation planning. The foundation for this is Railigent, our open ecosystem for best-in-class rail applications, that makes intelligent use of rail data to create added value. With a modern train depot as well as workshop equipment, we ensure vehicle fleets are serviced quickly and impeccably. Other features include an easy-to-use smart automatic fare collection and industry-leading system integration to design one seamless system.



**Published by**  
**Siemens Mobility GmbH 2021**

Siemens Mobility GmbH  
Otto-Hahn-Ring 6  
81739 München, Germany

[contact.mobility@siemens.com](mailto:contact.mobility@siemens.com)

Article no.: MOTP-B10012-00-7600

The information given in this document only contains general descriptions and/or performance features, which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract. Desiro®, Vectron® and Velaro® as well as Railigent® are registered trademarks of Siemens AG. Any unauthorized use is prohibited. All other designations in this document may represent trademarks whose use by third parties for their own purposes may violate the proprietary rights of the owner.