

High Speed Train

The High Speed Train in Egypt is revolutionizing transportation by introducing cutting-edge technology to improve travel efficiency. The high-speed train project entails the development of an advanced infrastructure for fast travel, Railway network connecting major cities in Egypt. The trains will operate at speeds of up to 230 km/h. This presentation will explore the impact and benefits of this ambitious project.

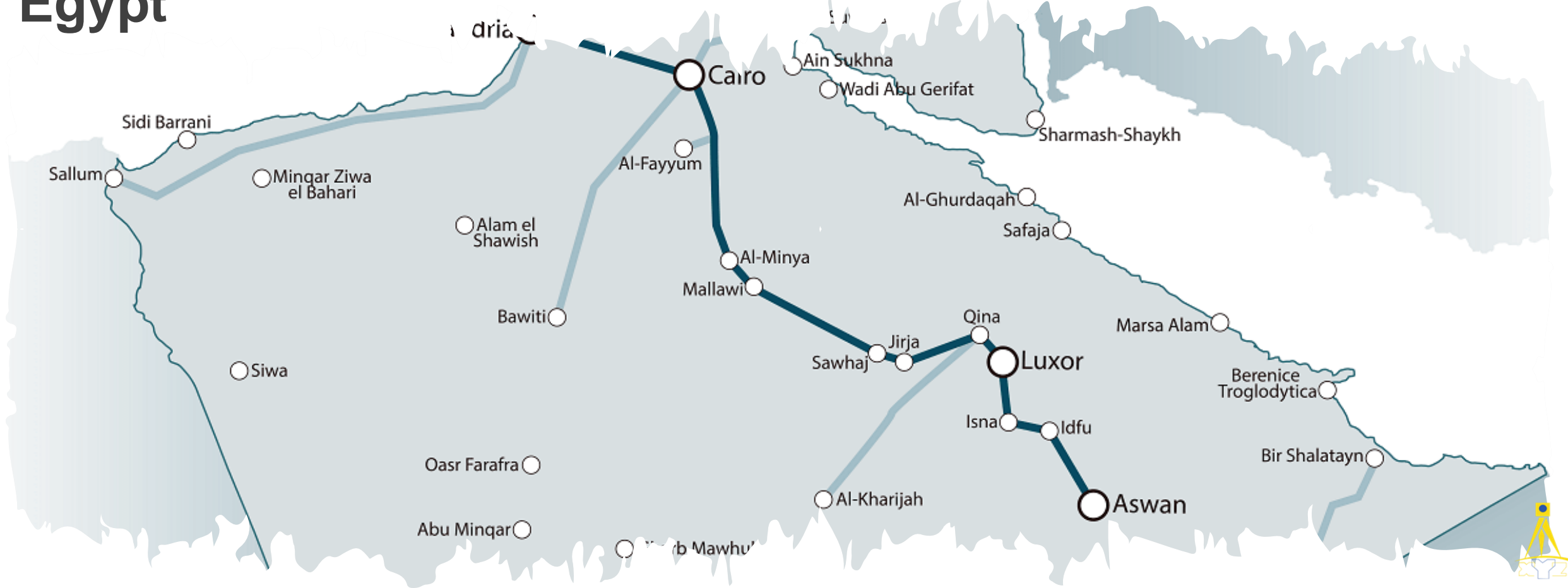


A Map Showing The Route Of The New High-Speed Electric Train Network In Egypt

Three types of electric trains are utilized on the new lines:

- high-speed electric trains for long distance .
- regional medium-speed electric trains for shorter distances.
- goods transport trains.

Upon completion of the project, Egypt will have the fifth longest high-speed electric train lines in the world , There are also new factories being established in Egypt to manufacture trains and their components locally.



The new network is divided into three lines



- **Green Line** (Ain Sokhna – Matrouh) .
- **Blue Line** (October - Abu Simbel) .
- **Red Line** (Luxor - Qena - Hurghada – Safaga) .



GREEN LINE

The Green Line contains 22 stations providing the following services:

- Regional passenger services operated by 34 passenger trains, stopping at each station, with a maximum train speed of 160 km/h .
- High-speed passenger service (Express) – operated by 15 express trains, stopping only at selected major stations, with a maximum train speed of 230 km/h .
- Goods trains: operate with 14 locomotives, do not stop at any intermediate station, and have a maximum train speed of 120 km/h , 15 bridges will be constructed along the route, crossing over land roads or existing railway tracks .
- The Green Line passes through about 220 land routes in about 465 locations. Crossing over the intersection points is done through bridges built for this purpose, It is expected to construct 124 lower waterways with various dimensions that will be determined according to the hydrological studies that will be conducted for each sector to drain rainwater under the train track.



Green Line stations

- Ain Sokhna
- Administrative capital
- Cairo
- Giza
- Ayat
- October Gardens
- 6 October
- Sphinx
- Sadat
- Wadi Natrun
- Nubaria
- Alexandria
- Burj Al Arab
- Elhamam
- Alamein
- Sidi Abdel Rahman
- The hyena
- Swan
- Ras elhekma
- Almaza
- Marsa Matrouh



BLUE LINE

Number of stations 35 (9 express + 26 regional) :

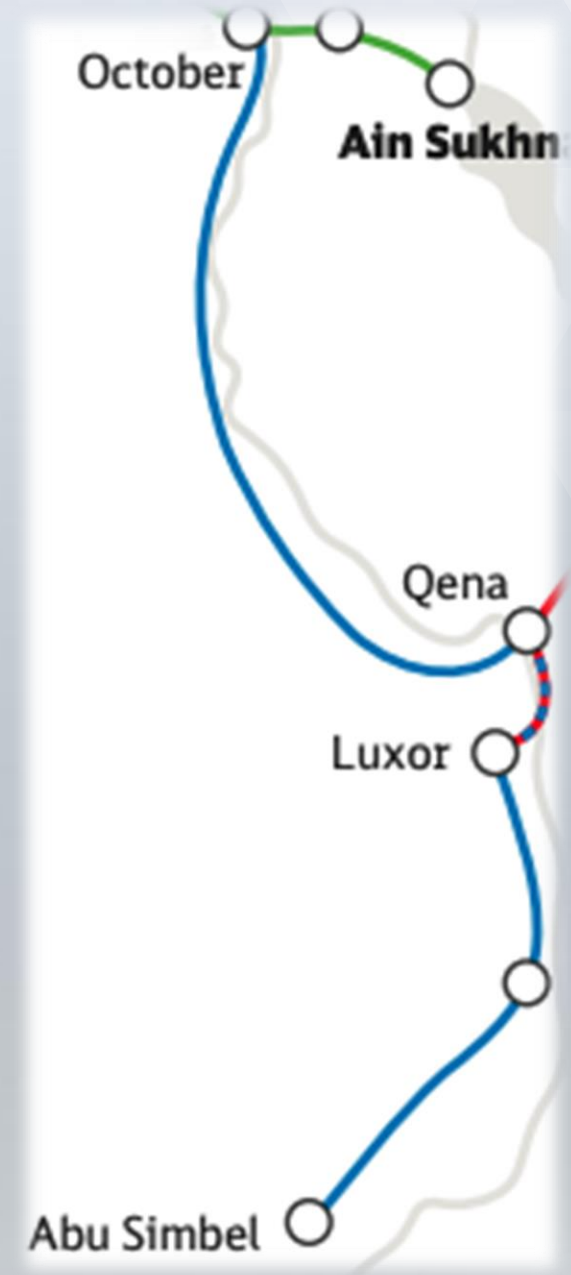
The line starts from (Fayoum/Beni Suef) station to the city of Abu Simbel, with a length of 1,100 km west of the Western Upper Egypt Desert Road. The stations will be established in areas where the Nile axes intersect.

Operating speed

- 230 km/hour for express trains with 19 trains.
- 160 km/h for regional trains with 45 trains.
- 120 km/h for goods with 19 tractors.

Blue Line stations

- | | | | |
|---------------------|---------------------|-----------------|--------------|
| ▪ Fayoum/ Beni Suef | ▪ Manfalut | ▪ Qena | ▪ Toshka |
| ▪ Fashion | ▪ Asyut | ▪ Qus | ▪ Medicom |
| ▪ The enemy | ▪ Abu Tej | ▪ Luxor | ▪ Abu Simbel |
| ▪ Bani Mazar | ▪ The spoils | ▪ Arment | |
| ▪ Samalout | ▪ Tahta | ▪ Esna | |
| ▪ Minya | ▪ Sohag | ▪ The Seven | |
| ▪ Abu Qurqas | ▪ Girga | ▪ Edfu | |
| ▪ Malwa | ▪ Abydos | ▪ Kalabsha | |
| ▪ Dairut | ▪ Farshout | ▪ Draw | |
| ▪ Al-Qusia | ▪ Hammadi succeeded | ▪ New Aswan | |
| | | ▪ Aswan Airport | |



RED LINE

it intersects with the Blue Line at Qena Station, with a distance of 225 km and its number of stations is 4, in addition to Qena Station, which is located on the route of the second train line, including 3 stations for the express train and two stations for regional trains.

Red Line stations

- Qena
- East Sohag
- Hurghada
- Sahl Hasheesh
- Safaga





XYZ contribution In High Speed Train

Our company was among the pioneers in the high-speed train sector, which has given us a significant advantage over our competitors. Our early entry into this field has enabled us to establish a strong foothold and develop the necessary expertise to manufacture high-quality trains efficiently. In addition, we have conducted multiple surveys to identify the optimal path for the new lines proposed by the designers.

**we are committed to
maintaining this position by
continuing to provide high-
quality products and services
to our customers.**



- **Surveying was done more than once for the paths proposed by the designer. It's worth noting that the designer's proposed paths were subjected to multiple rounds of surveying, went into selecting the optimal route for interconnecting the cities and ports, this speaks to the importance of precision and accuracy in construction, and it's reassuring to know that the team took extra care to ensure that everything was measured and marked correctly.**
- **Surveying a grid of the natural land, taking out topographic and cadastral drawings of the path, and sending them to the designer consultant until the proposal is accepted by the general consultant and the ministry of transportation, which is the owner of the project.**
- **we supervise the surveying works for backfilling and excavation for implementing the proposal, receiving the natural land from the implementing companies, and surveying supervision of all these companies.**
- **control points have been monitored and that receipt records have been prepared for all conducting companies, that there's a system in place to re-monitor the control points through XYZ in case of any problems arise.**
- **Creating a new unified coordinate system for the project under supervision of professor doctor (Head of the Department of Surveying and Geodesy, faculty of Engineering), which ensures the continuity of the path and the connection of the drawings to each. This approach will also make it easier for designers to use programs such as Google Earth and observe the development of the work on satellite images**



Our Equipment & Brands



3D Laser Scanner



Echo Sounder



Global Positioning System



Total Station



Digital Level

Trimble

Leica

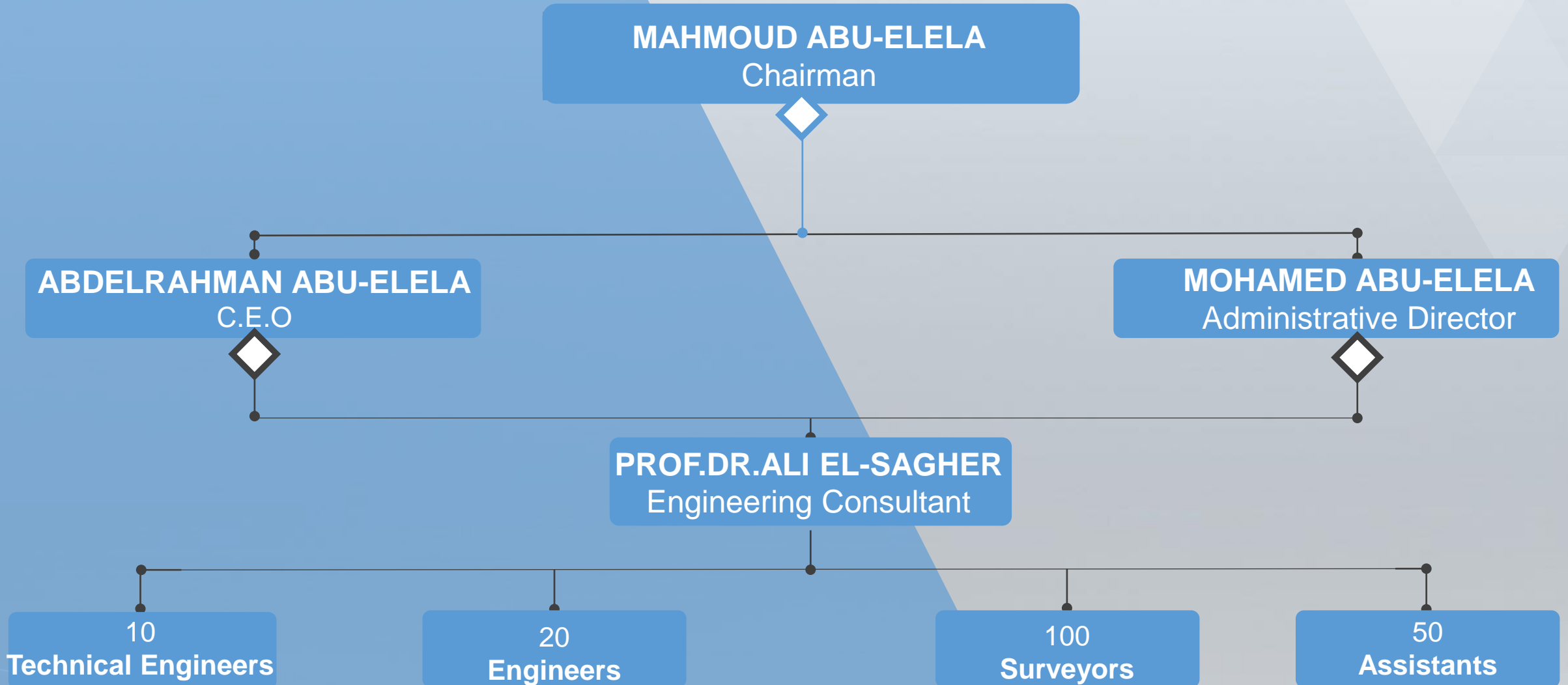
Sokkia

Topcon

Nikon



Organization Chart



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