

CIVIL INFRASTRUCTURE ENGINEERING CIE



CREDIT HOUR PROGRAM
CAIRO UNIVERSITY



What Is CIE?

Roads and Highways



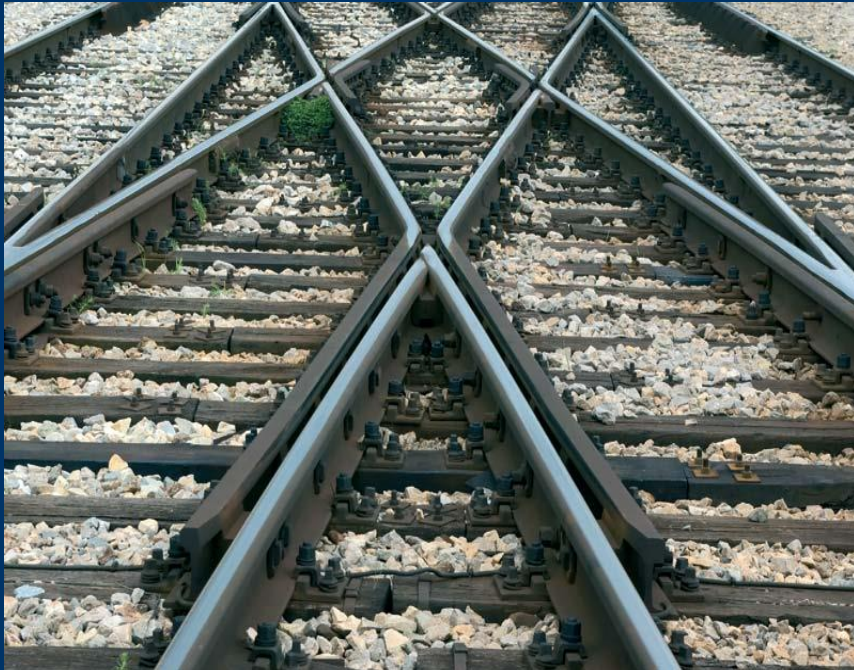
What Is CIE?

Airports



What Is CIE?

Railways & Metro



What Is CIE?

Water distribution networks, and sanitary sewers



What Is CIE?

Pump Stations and Elevated Tanks



What Is CIE?

Water and Wastewater Treatment Plants



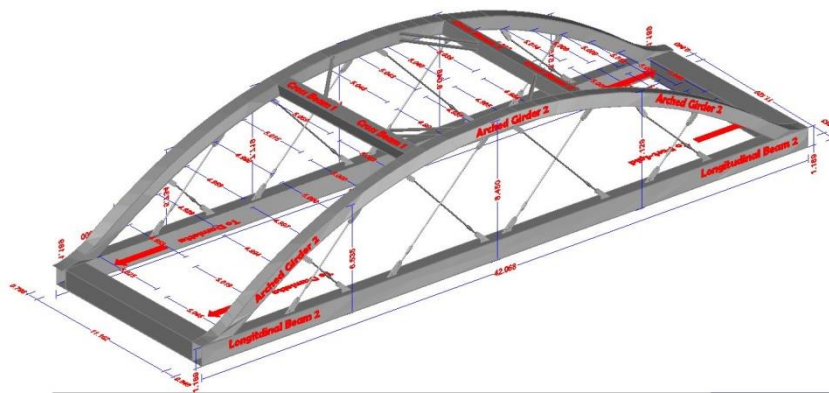
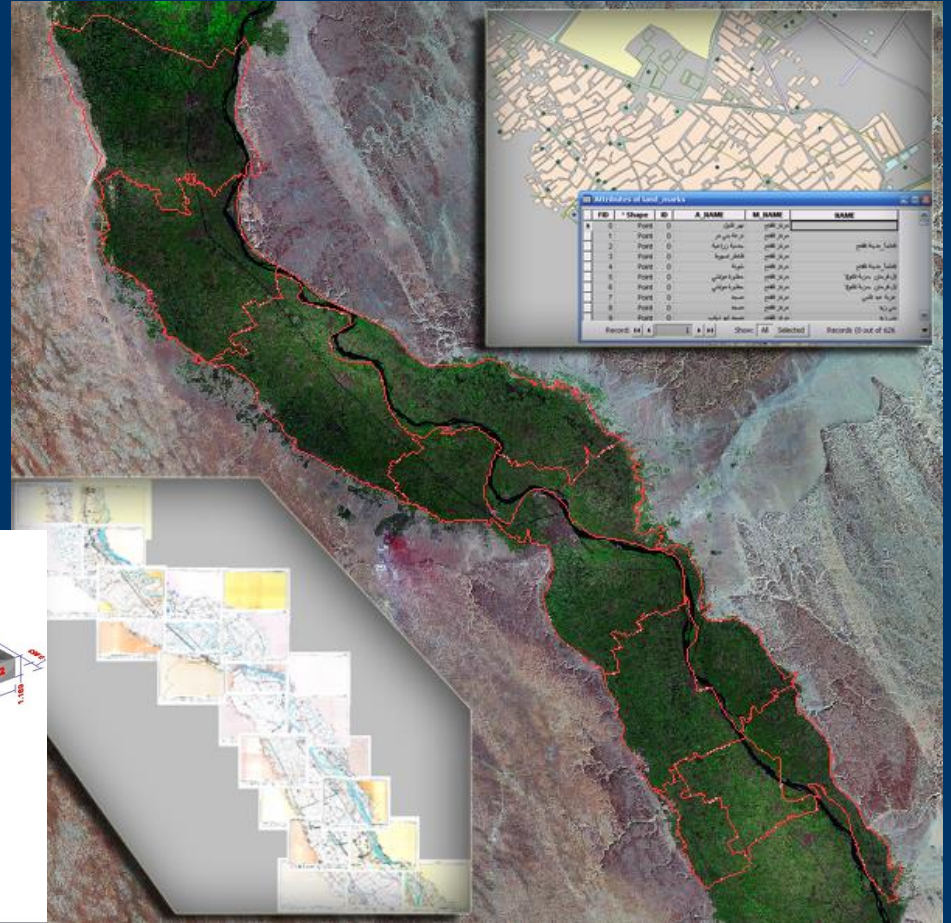
What Is CIE?

Foundations and Tunnels



What Is CIE?

Mapping & Setting out of Constructions





ABOVE

CIVIL INFRASTRUCTURE



ON



UNDER

City Cross Section





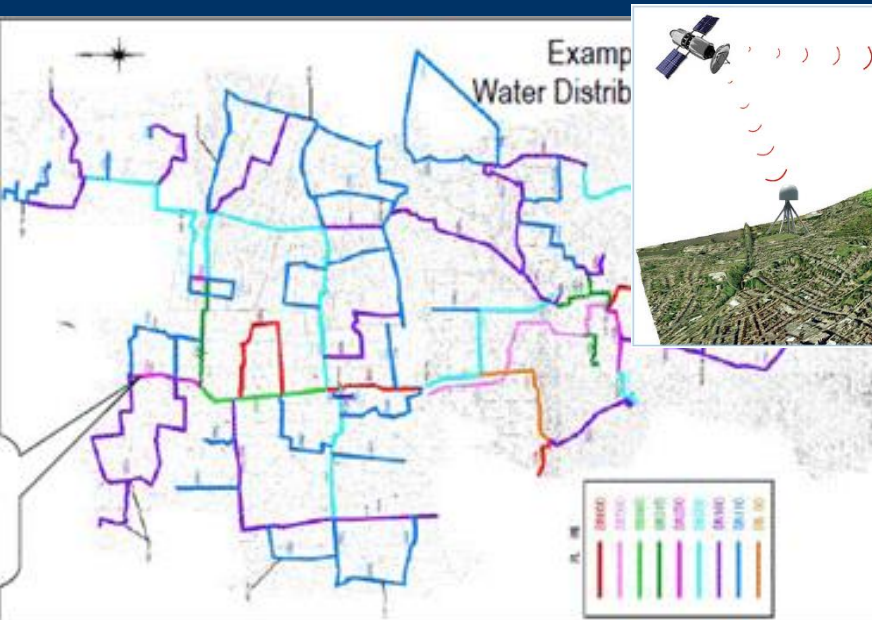
**Civil Infrastructure
Bringing Life to Cities**



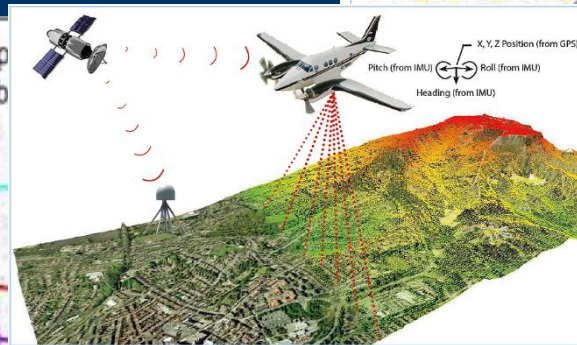
What Does a CIE Engineer Do?

Plan

Mapping



Water Distribution Network Plan



Transportation Master Plan

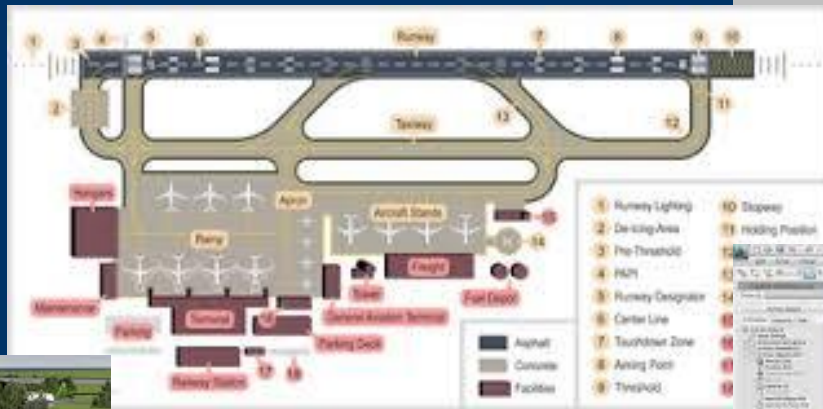


What Does a CIE Engineer Do?

Design



Traffic Operations



Airports

Railways

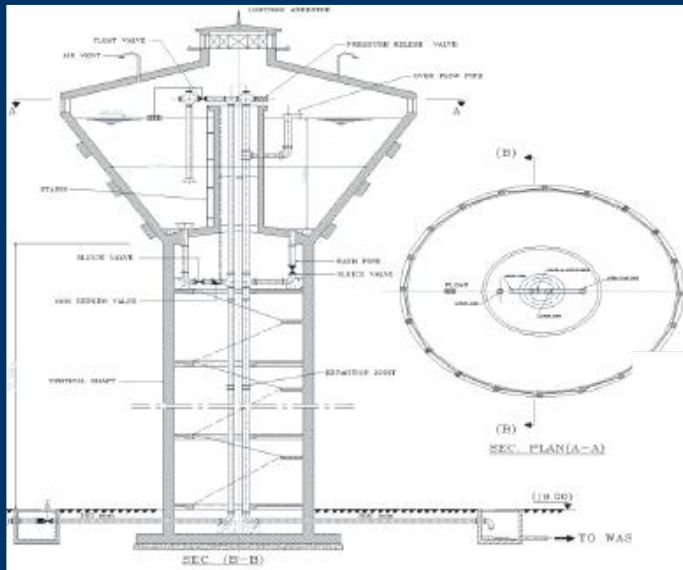


Highways

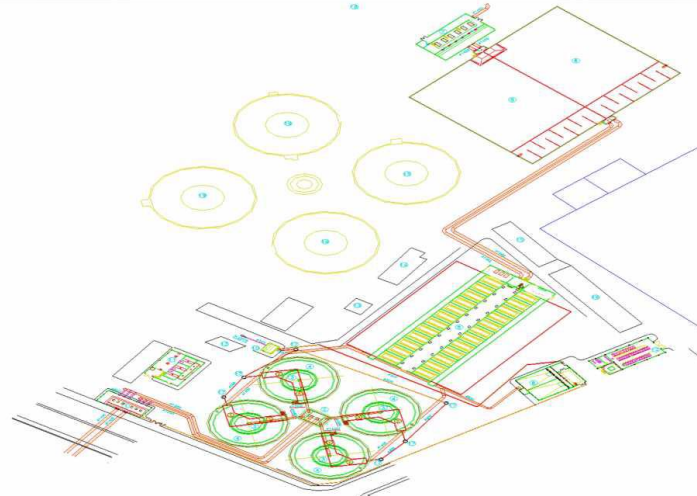
What Does a CIE Engineer Do?

Design

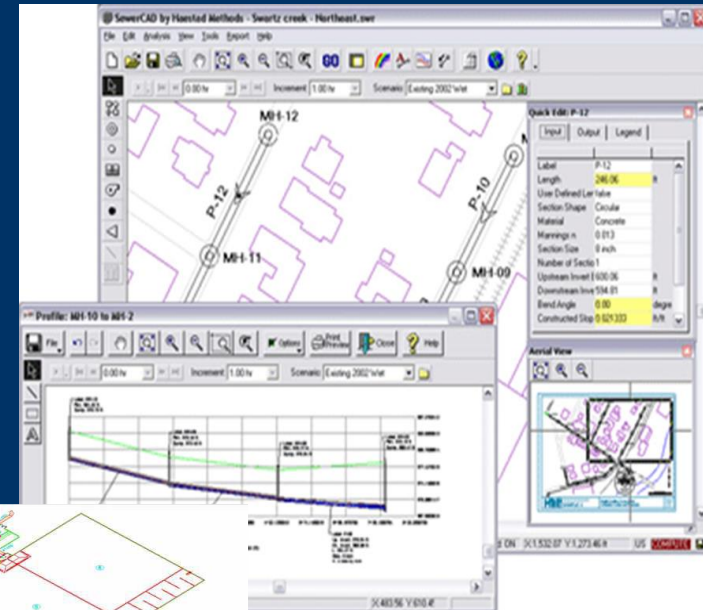
Tanks and Reservoirs



Treatment Plants



Sewer Networks



What Does a CIE Engineer Do?

Design

Retaining Walls



Soil Investigations



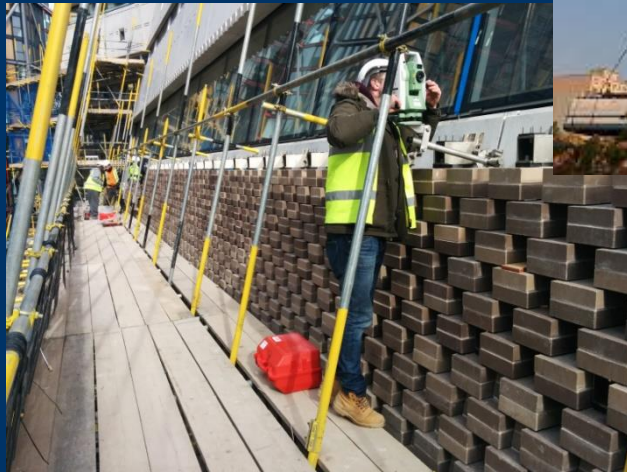
Tunnels



Deep Foundations

What Does a CIE Engineer Do?

Construct



Construction Site Setting



Piles



pipelines



Highways

What Does a CIE Engineer Do?

Operate and Maintain



Traveler Info



Pavement Rehabilitation



Control Center

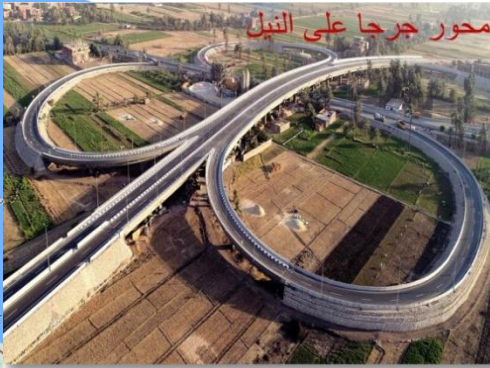
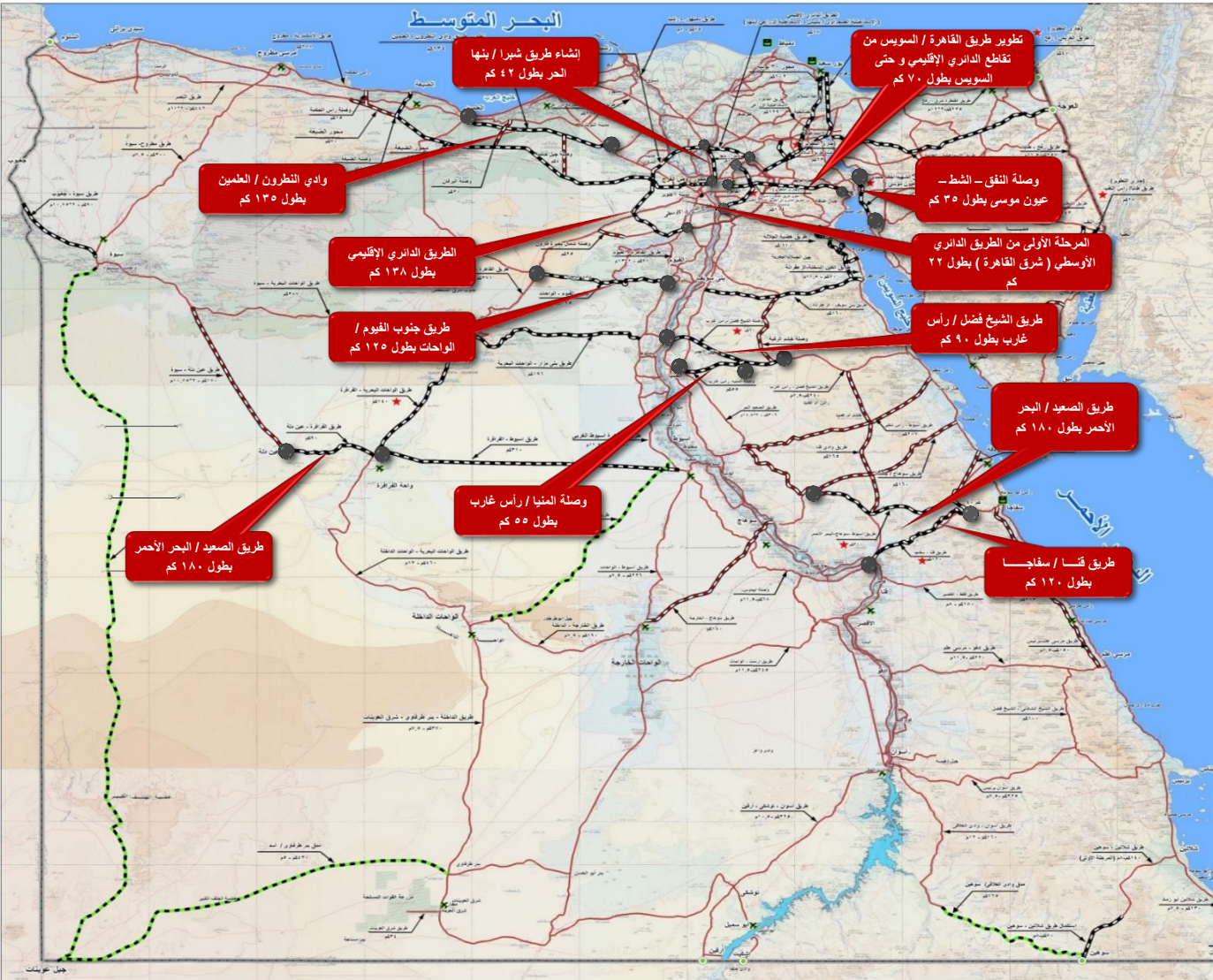


Pipeline Repair



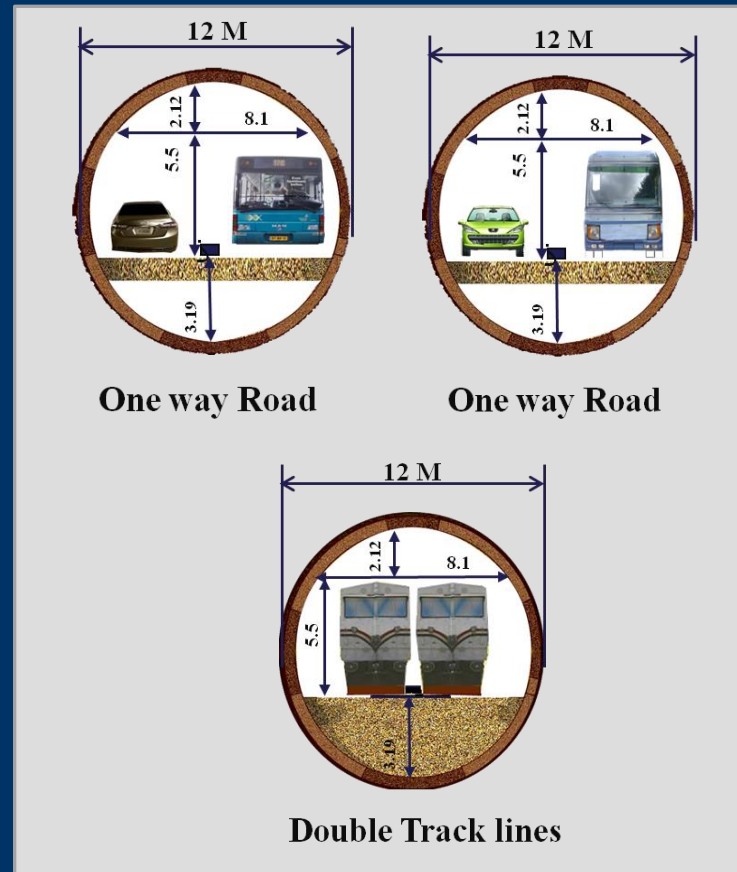
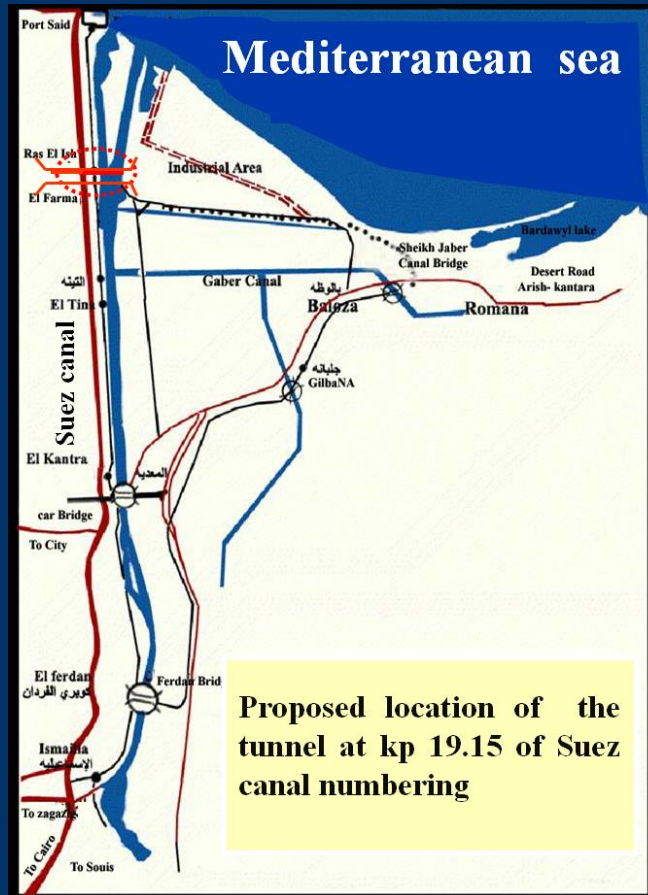
Which Mega Projects Rely on CIE Engineers?

National Highways Project



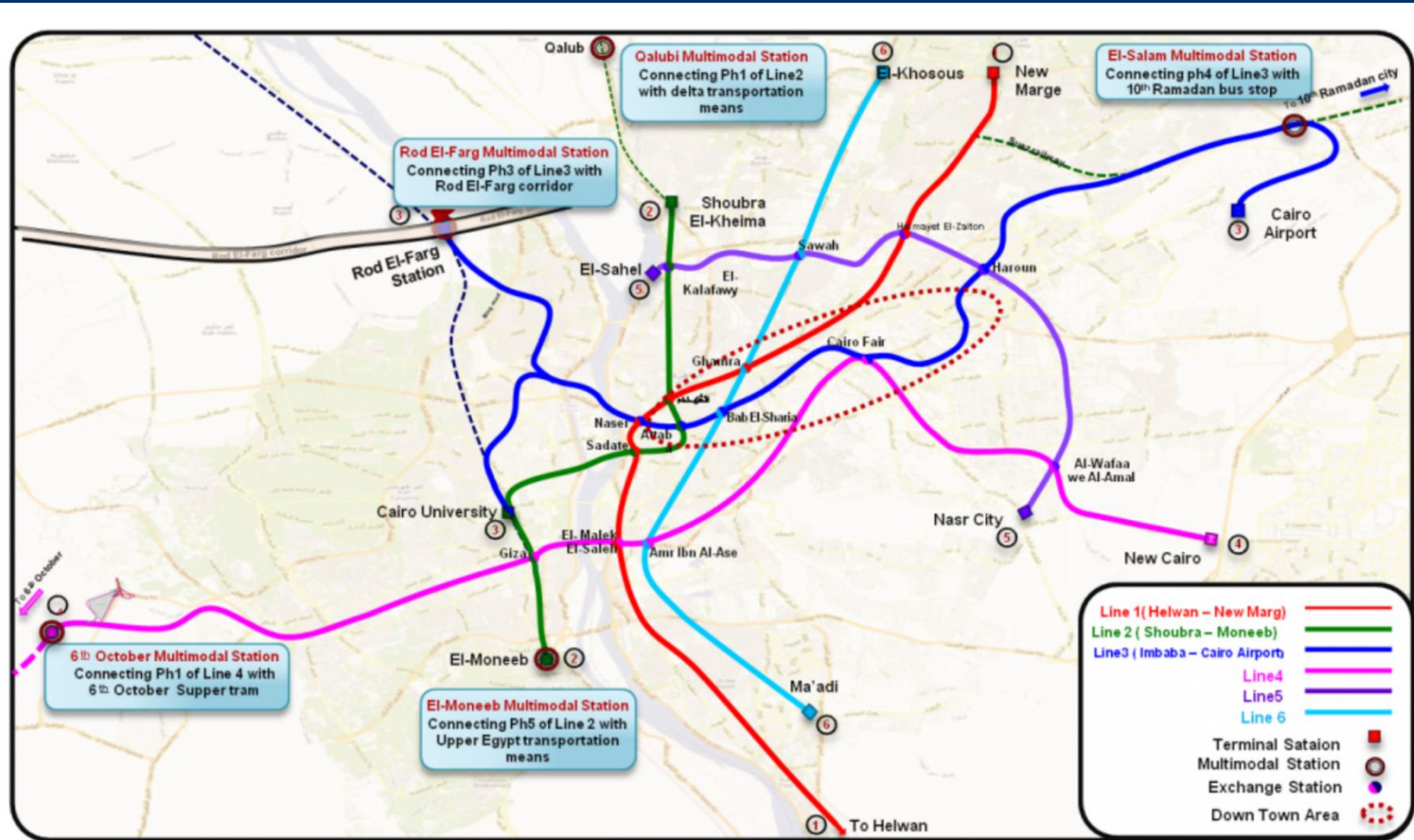
Which Mega Projects Rely on CIE Engineers?

Southern Port Said road & railway tunnels under Seuz canal



Which Mega Projects Rely on CIE Engineers?

Metro Lines 3 (then 4 & 5)

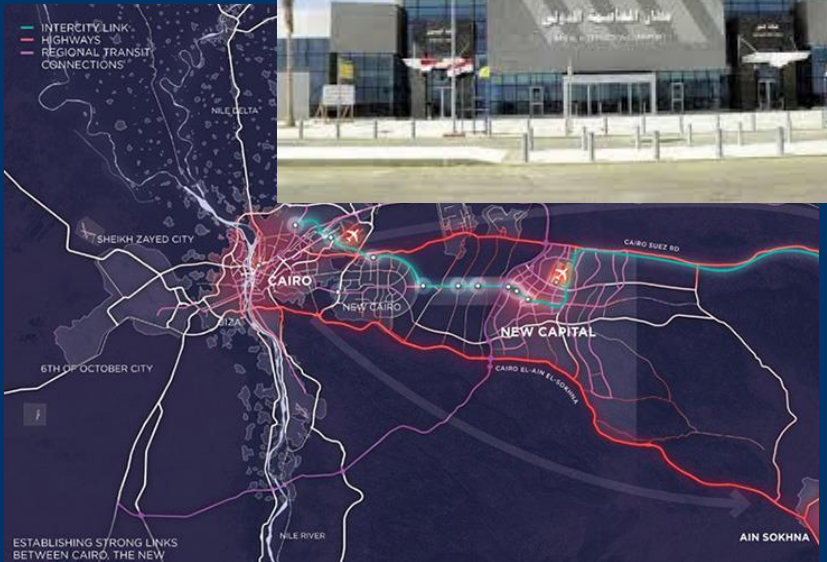
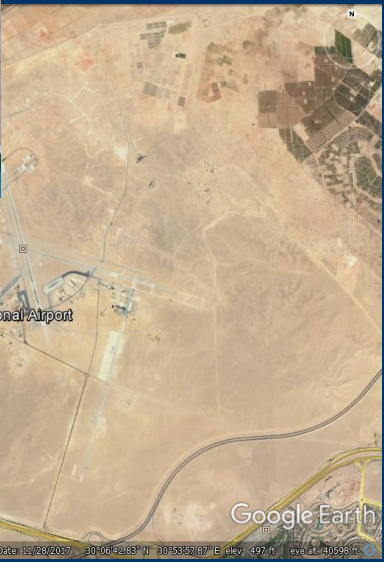


NAT's master plan for metro projects in Cairo by 2050 – Source: NAT website



Which Mega Projects Rely on CIE Engineers?

New International Airports



Which Mega Projects Rely on CIE Engineers?

Water & Wastewater Works – The New Capital



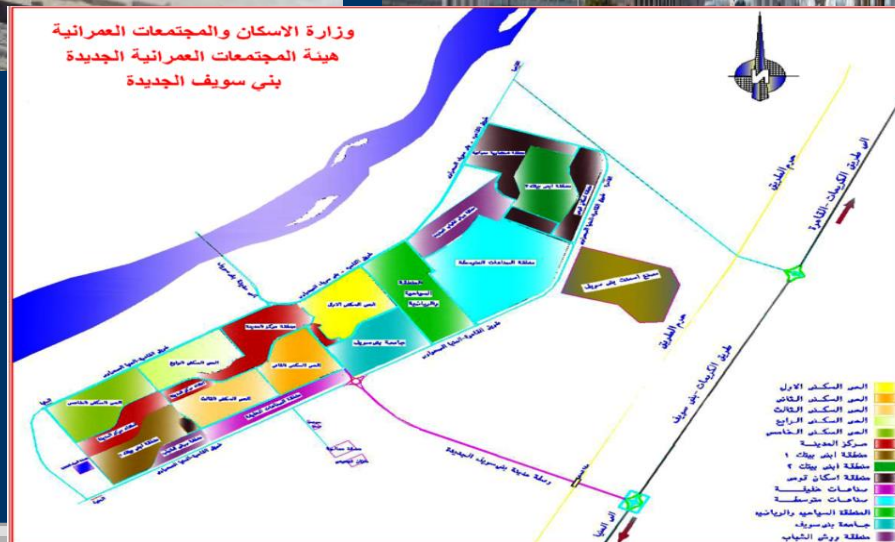
Which Mega Projects Rely on CIE Engineers? Water & Wastewater Works – Desalination Plants

- *El Sokhna*
- *El Galala*
- *East Port Said*
- *Al Alamein El Gedida*



Which Mega Projects Rely on CIE Engineers?

New Cities - Al Alamein, Beni Sueif,..etc



CIE Engineer makes people's life easier



What will a CIE Student Study?



Water and Wastewater



Transportation

SUPPORT

Geomatics



Geotechnical



Where would a CIE Graduate Work?

- National/International Civil Engineering **Consulting Firms**
- National/International Civil **Construction Companies**
- National/International **Developers**
- Government** Agencies
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