

CIVIL INFRASTRUCTURE ENGINEERING CIE



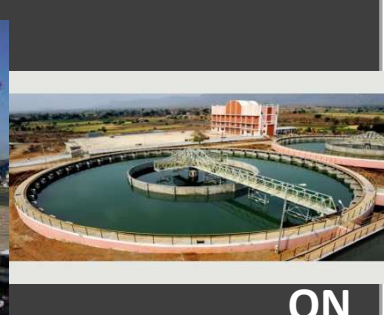
CREDIT HOUR PROGRAM
CAIRO UNIVERSITY





ABOVE

CIVIL INFRASTRUCTURE



ON



UNDER

City Cross Section

CIE is ...

Roads and Highways



CIE is ...

Airports



CIE is ...

Railways & Metro



CIE is ...

Water distribution networks, and sanitary sewers



CIE is ...

Pump Stations and Elevated Tanks



CIE is ...

Water and Wastewater Treatment Plants



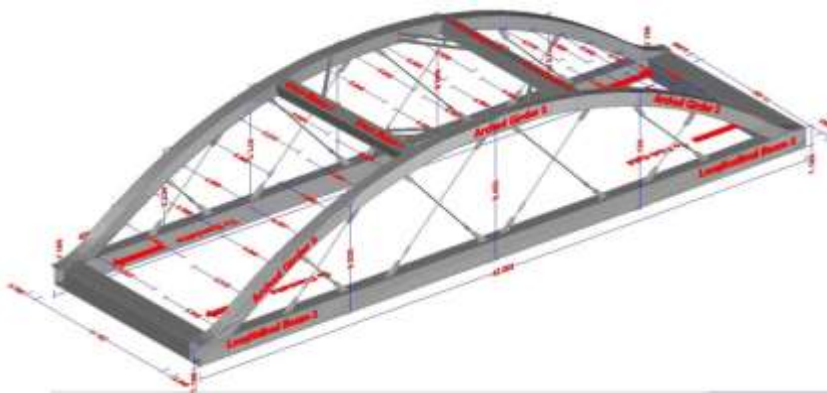
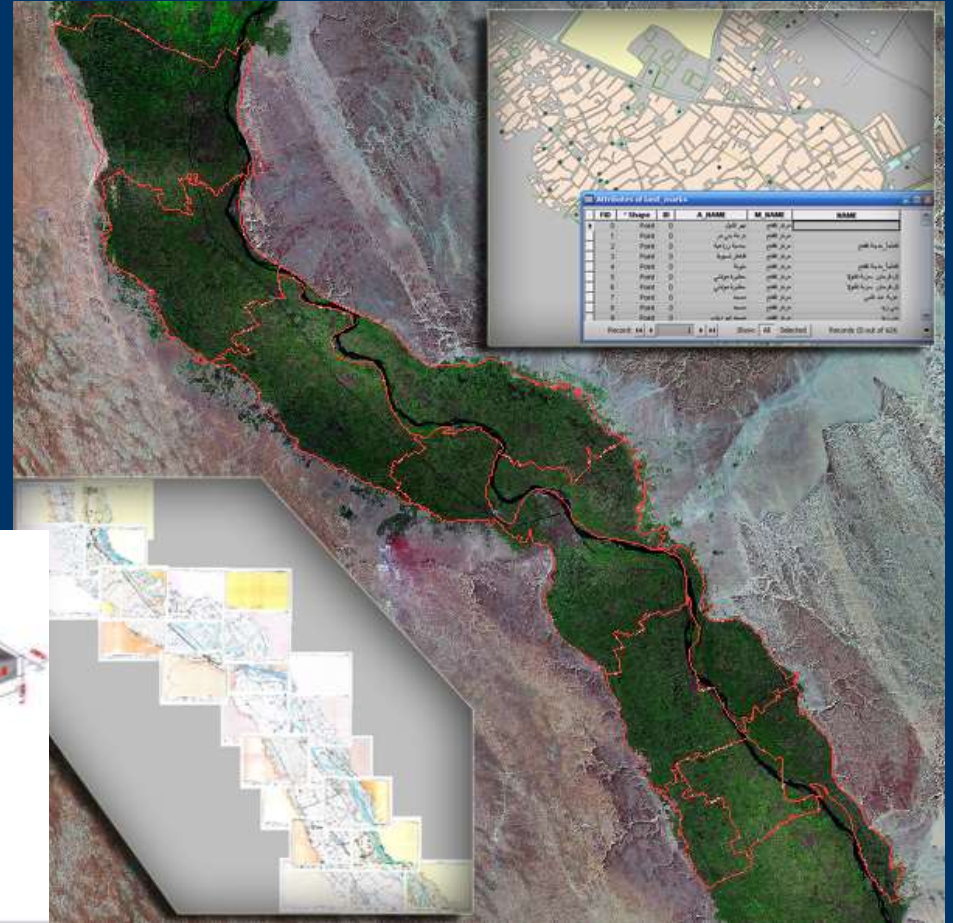
CIE is ...

Foundations and Tunnels



CIE is ...

Mapping & Setting out of Constructions



CIE Fields of Study



Water & Wastewater



Transportation

SUPPORT

Geomatics



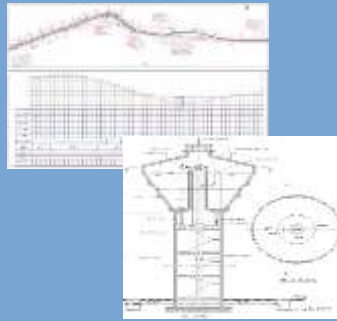
Geotechnical



CIE Pillars of Study

Theory & Design

- Highways, Railways, Airports
- Water/wastewater networks/plants
- Tunnels & Foundations



Software

- General (Excel, GIS ...)
- Highways design & Traffic simulation (AutoCAD, Cvil 3D, VISSUM, VISSIM, Synchro)
- Networks & Treatment Plants (WaterCAD, SewerCAD, BioWin)



Technologies

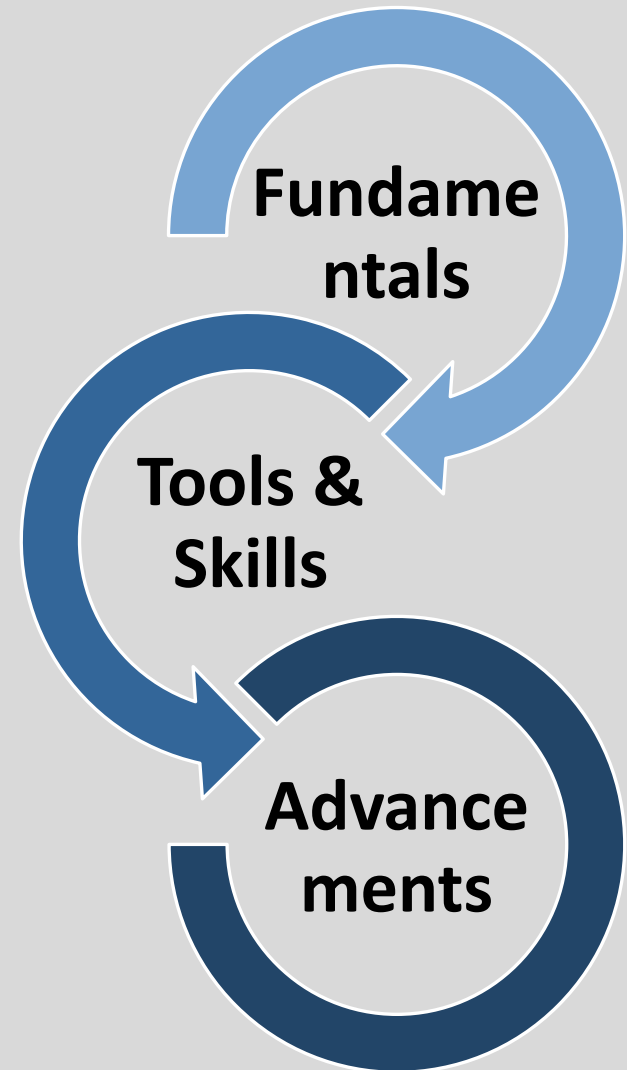
- Intelligent Transportation Systems
- Operations & logistics
- Green Technologies
- Wastewater Reuse



Fundamentals

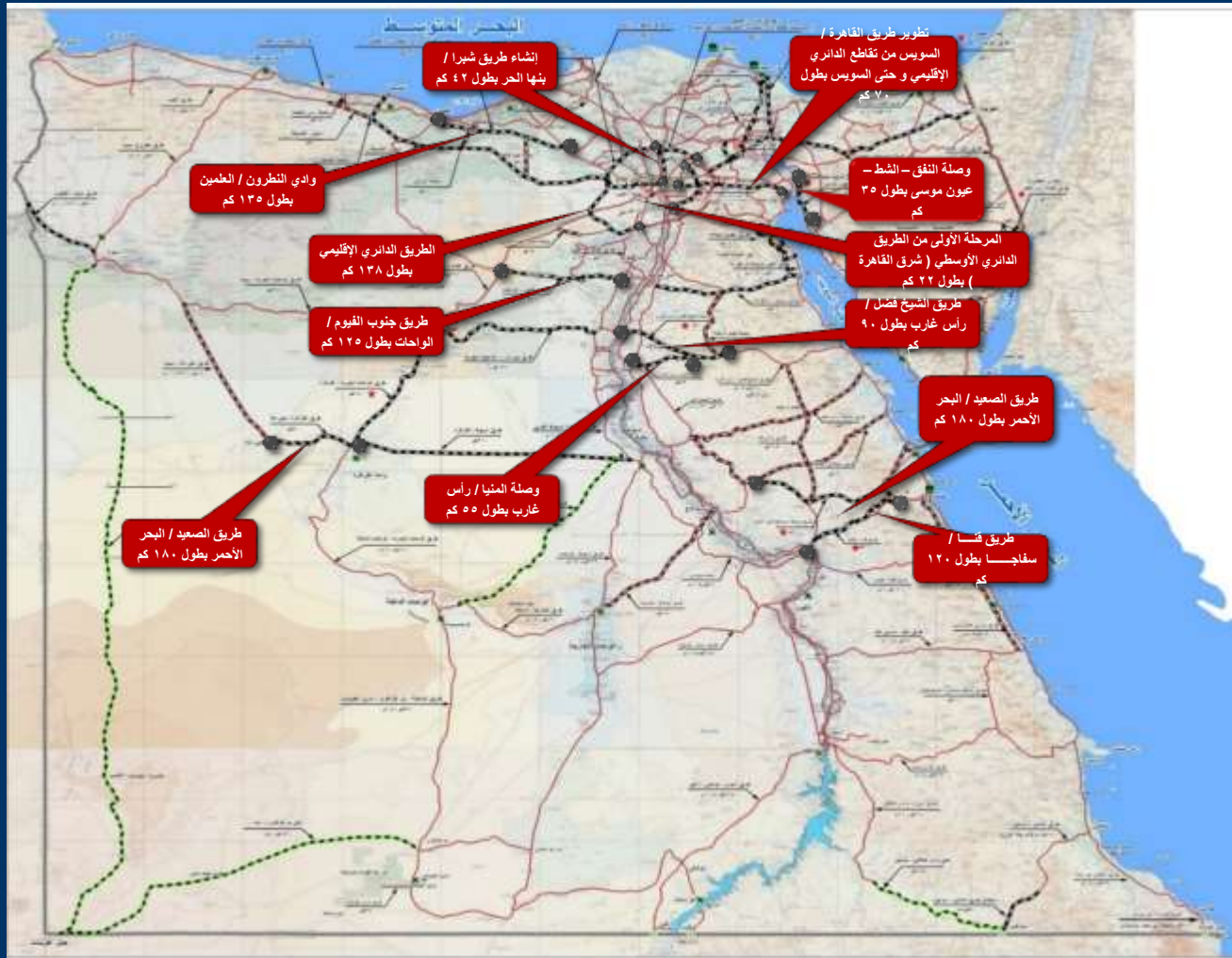
Tools & Skills

Advancements



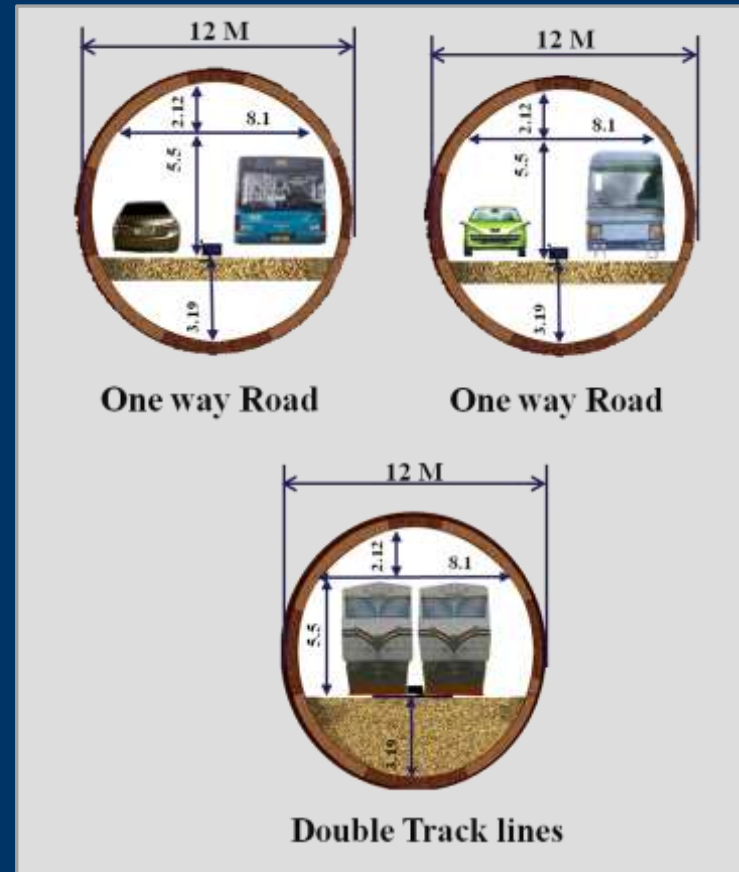
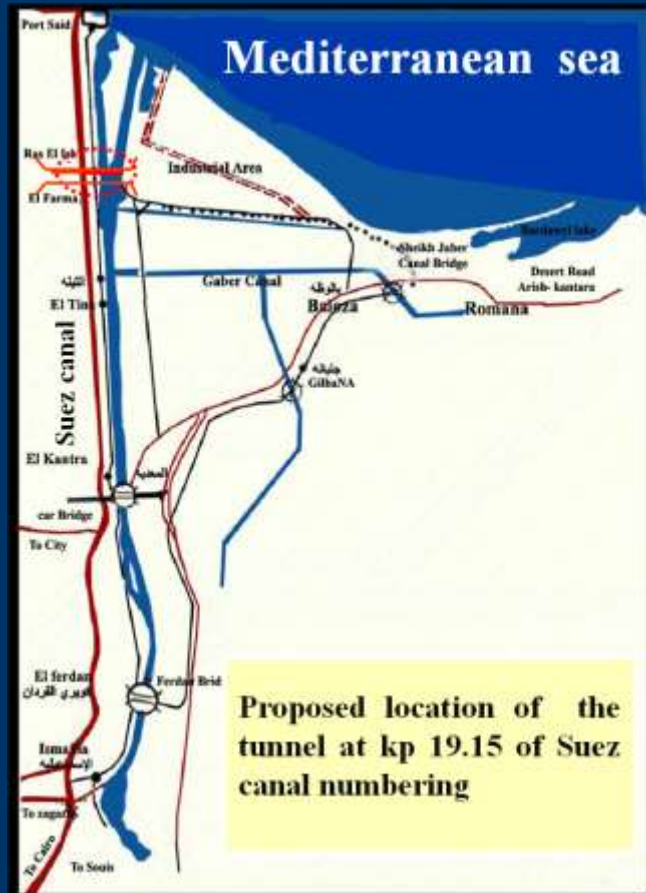
CIE National Mega Projects

National Highways Projects



CIE National Mega Projects

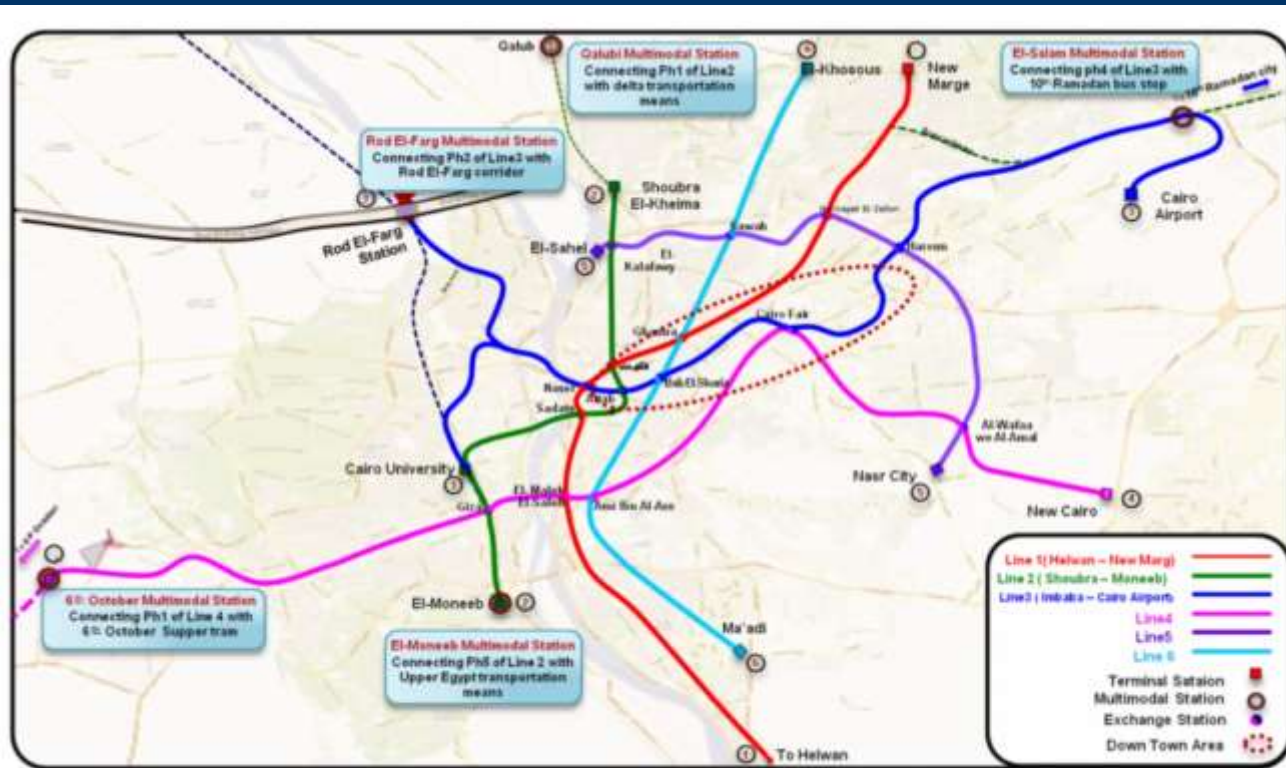
Southern Port Said road & railway tunnels under Suez canal



CIE National Mega Projects

Public Transit Projects

Metro Lines 3 - Monorail – High Speed Rail - BRT



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



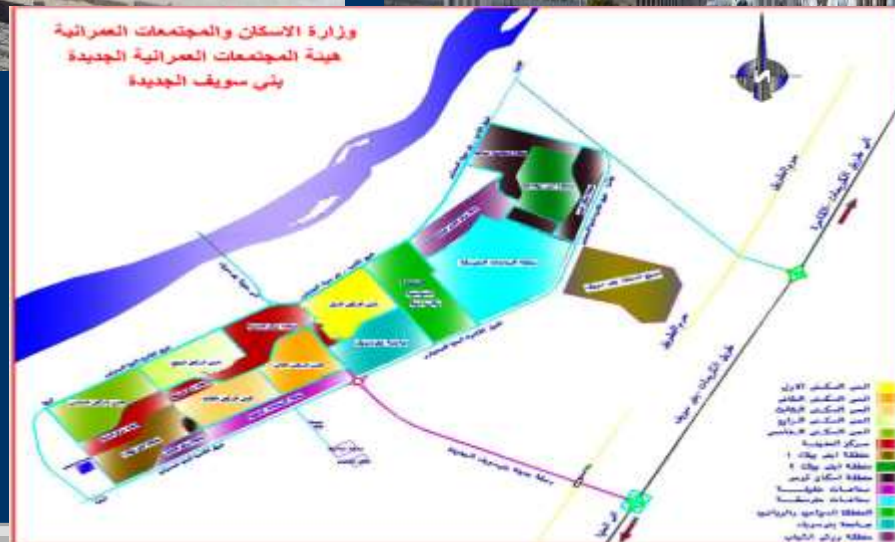
CIE National Mega Projects

Water & Wastewater Works – The New Capital



CIE National Mega Projects

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



CIE National Mega Projects

Water & Wastewater Works – **Desalination Plants**

- El Sokhna
- El Galala
- East Port Said
- New Al Alamein



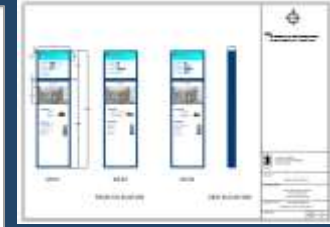
CIE Graduating Class 2022 – Sneak Peeks

Industrial Training

- Monorail
- El-Zomor Corridor
- New Capital Roads and water Networks
- Water Treatment Plants



Graduation Project GP-1



Need More Info

Visit

<https://www.youtube.com/watch?v=gMdiUrqq-m4>

<http://eng.cu.edu.eg/en/credit-hour-system/credit-bachelor-programs/>

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