

# 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***





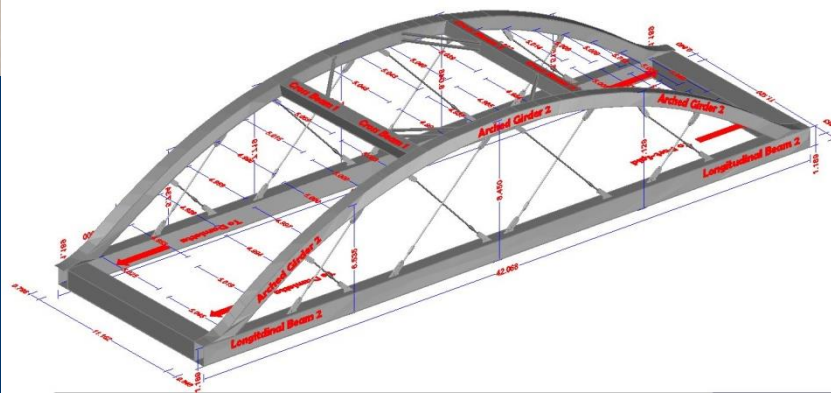
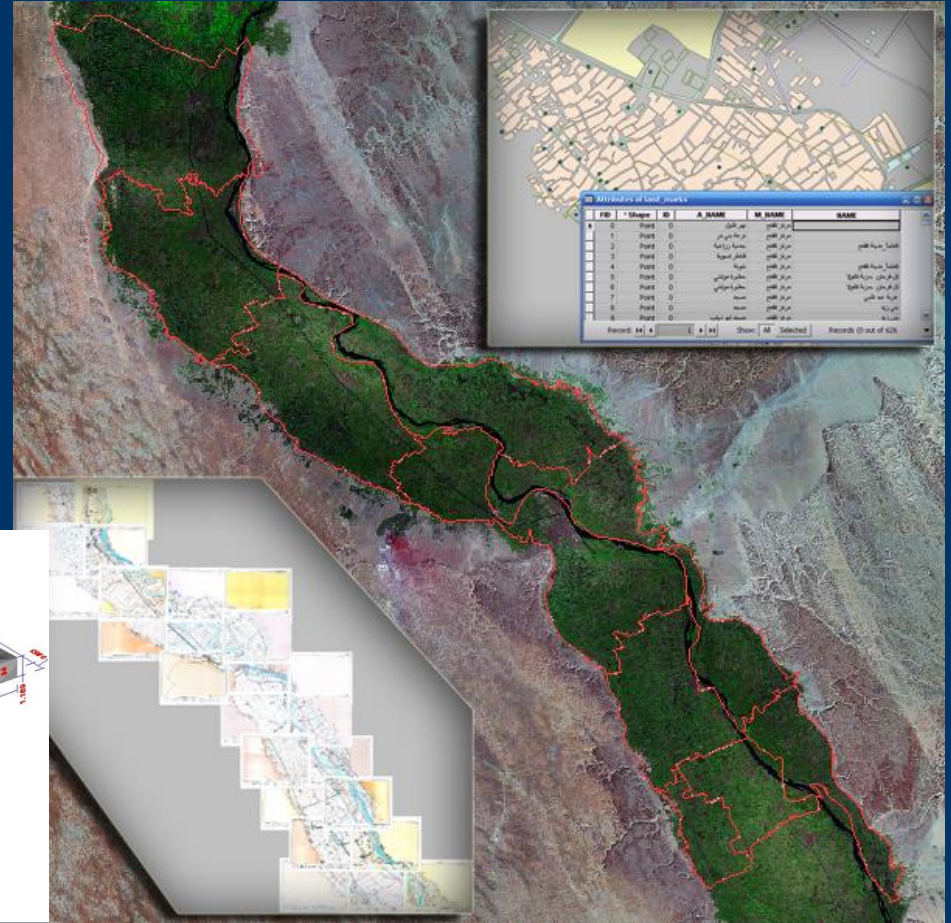
*CIE is ...*

## *Foundations and Tunnels*



# CIE is ...

## Mapping & Setting out of Constructions





# *CIE Fields of Study*



**Water & Wastewater**



**Transportation**

**SUPPORT**

**Geomatics**



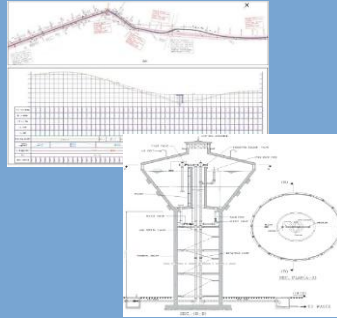
**Geotechnical**



# CIE Pillars of Study

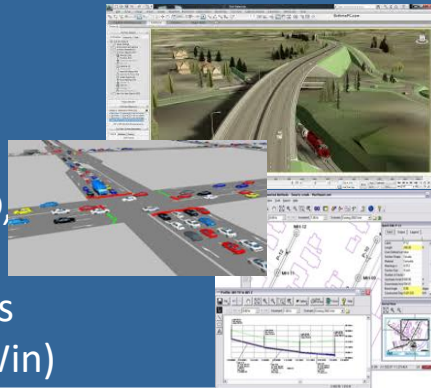
## Theory & Design

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



## Software

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



## Technologies

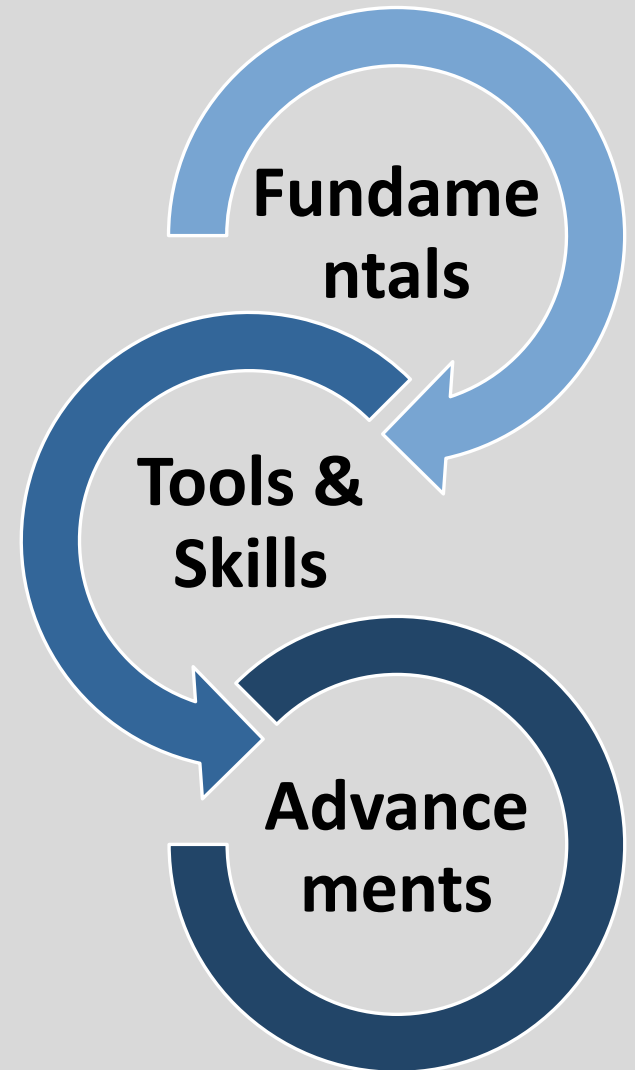
- Intelligent Transportation Systems
- Operations & logistics
- Green Technologies
- Wastewater Reuse



**Fundamentals**

**Tools & Skills**

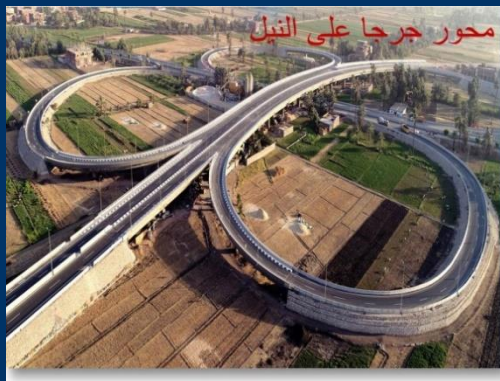
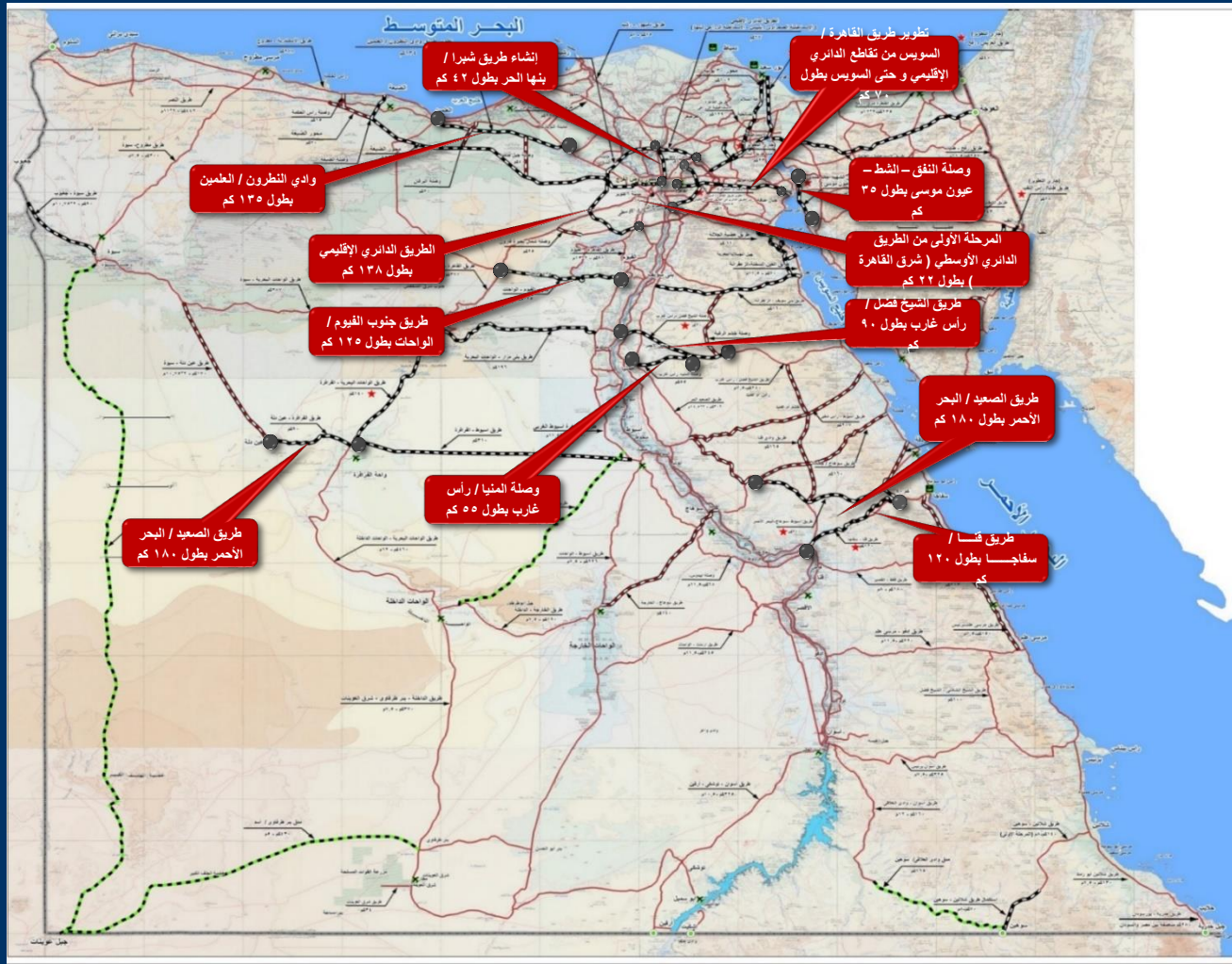
**Advancements**





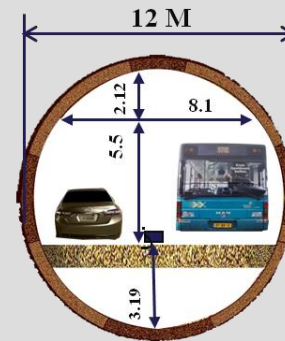
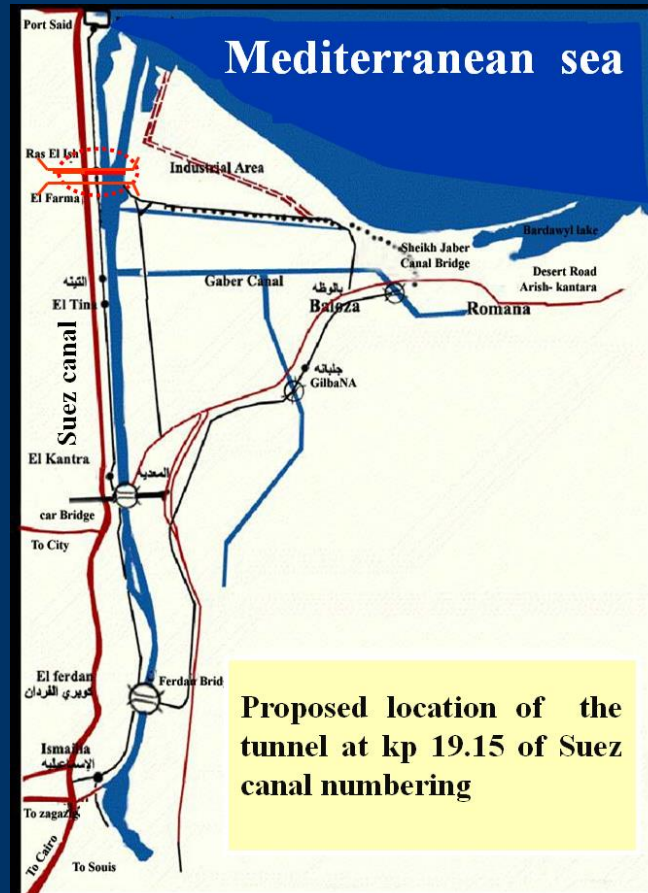
# CIE National Mega Projects

## National Highways Projects

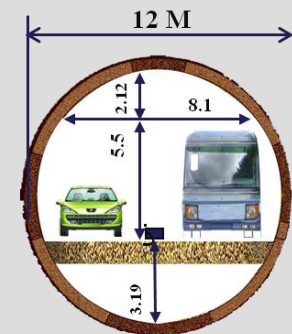


# CIE National Mega Projects

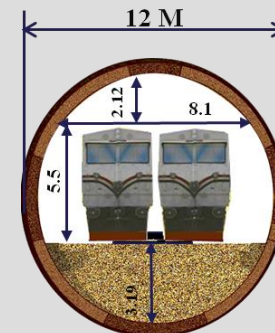
## Southern Port Said road & railway tunnels under Suez canal



One way Road



One way Road



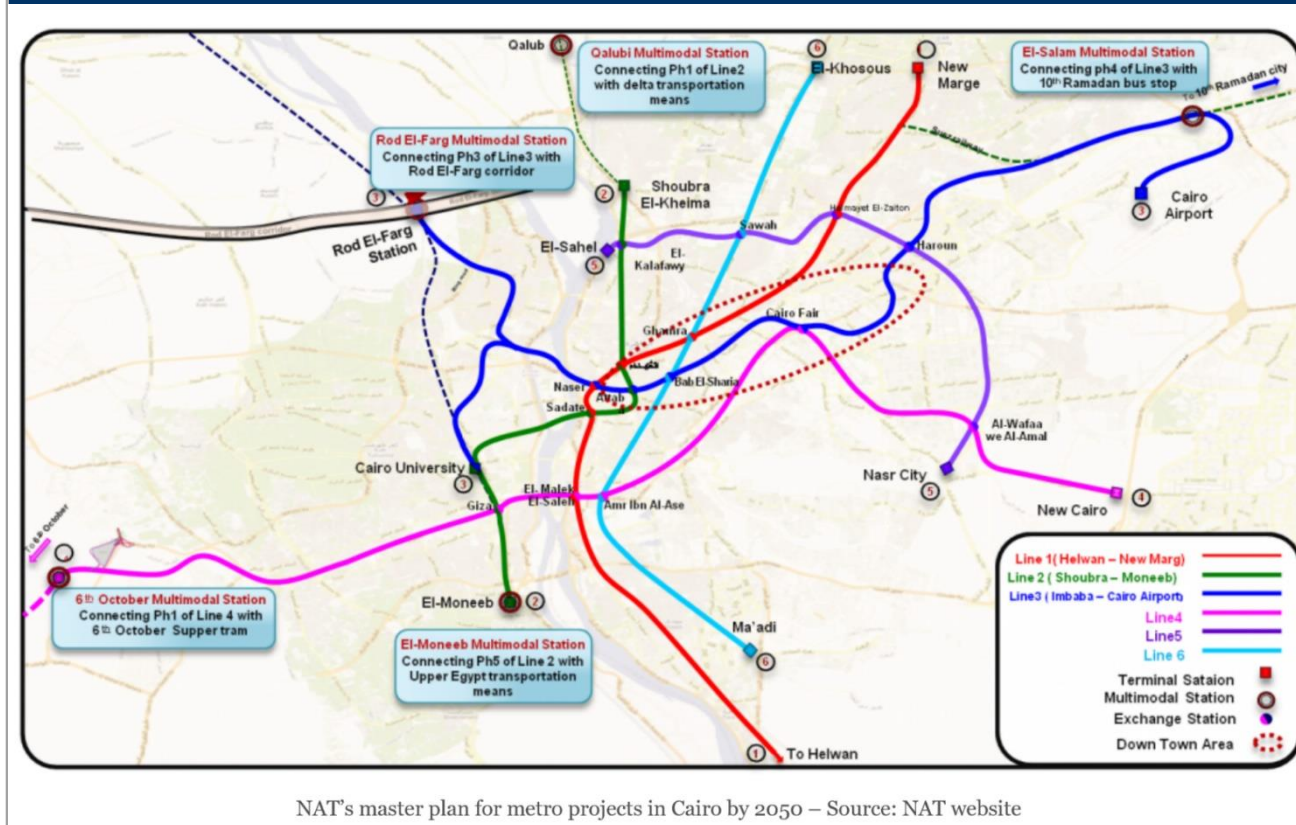
Double Track lines



# CIE National Mega Projects

## Public Transit Projects

Metro Lines 3 - Monorail – High Speed Rail - BRT



# CIE National Mega Projects

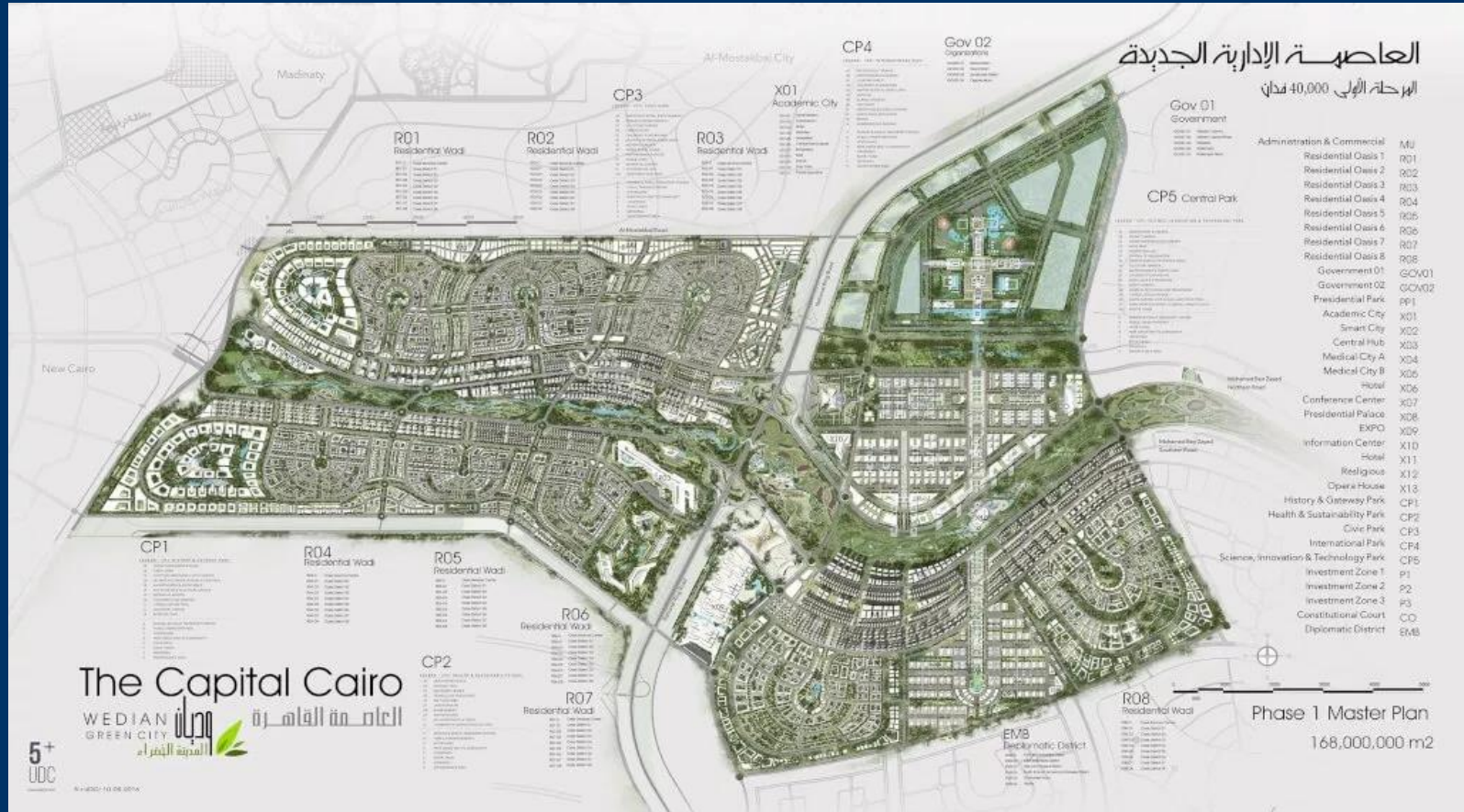
## New International Airports





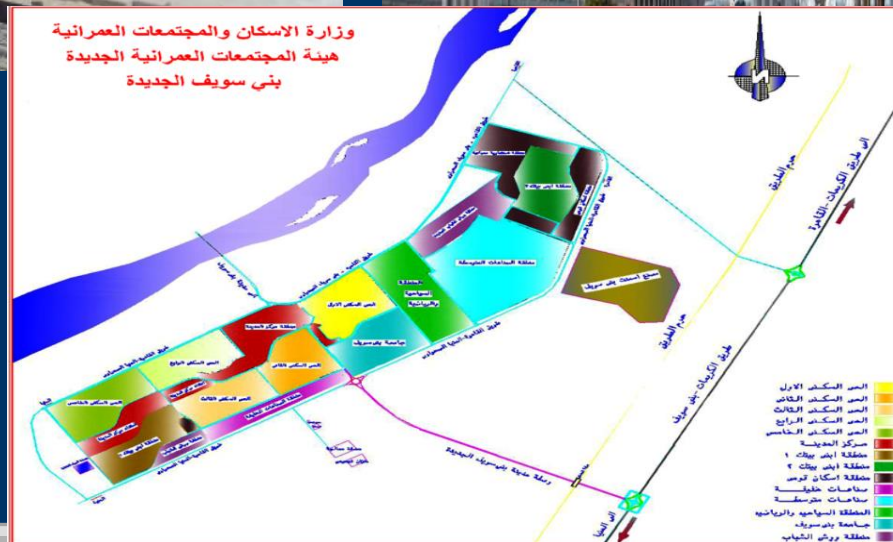
# CIE National Mega Projects

## 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



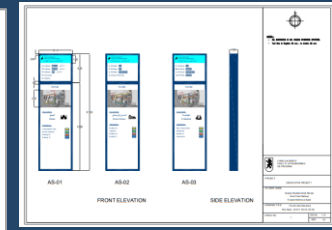
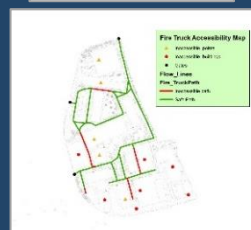
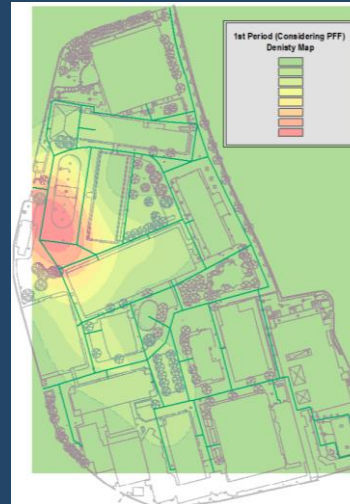
# CIE Graduating Class 2022 – Sneak Peeks

## Industrial Training

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



## Graduation Project GP-1



HASSAN ALLAM  
HOLDINGS



ORASCOM  
CONSTRUCTION

ROWAD  
Modern Engineering

طلعت واهام  
المكتب الهندسي الاستشاري

WONDERFUL KNOW  
VICE CONSULTING ENGINEERS



# Need More Info

## Visit

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

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

## Talk to CIE Coordinators

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