

Transport Economics Lecture 3

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Case Study: Urban Bus Operations in Cairo

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Past and Present Urban Trends

An Overview

GCR is characterized by:

Extremely high and relatively uniform **densities**

Steady **population growth** in the last five decades

(**2.5 %** on average)

(number of population **22.5 M**)

The population density **20,500** people
per square kilometer

share of the national population **27%**

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Cairo's Transportation System

The modern development of Cairo began in the **19th** century, when Cairo emerged as a major **trading center** for the burgeoning **cotton trade**.

In the 1960's,

the Egyptian government began developing a **government center** in the **east** of Cairo on desert land.



Nasr City Project

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✓ To re-orient **land development** and **population growth** from a **north-south** to an **east-west** orientation

✓ To **protect** precious agricultural land along the Nile

→ **Development of a Satellite City program**

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a Satellite City Program

✓ **Smaller** cities

✓ Near to a **large city** that is the center of a metropolitan area

✓ Have their **own center**

✓ Planned to be **self-sufficient**

✓ Could be **separate cities** outside of the larger metropolitan areas

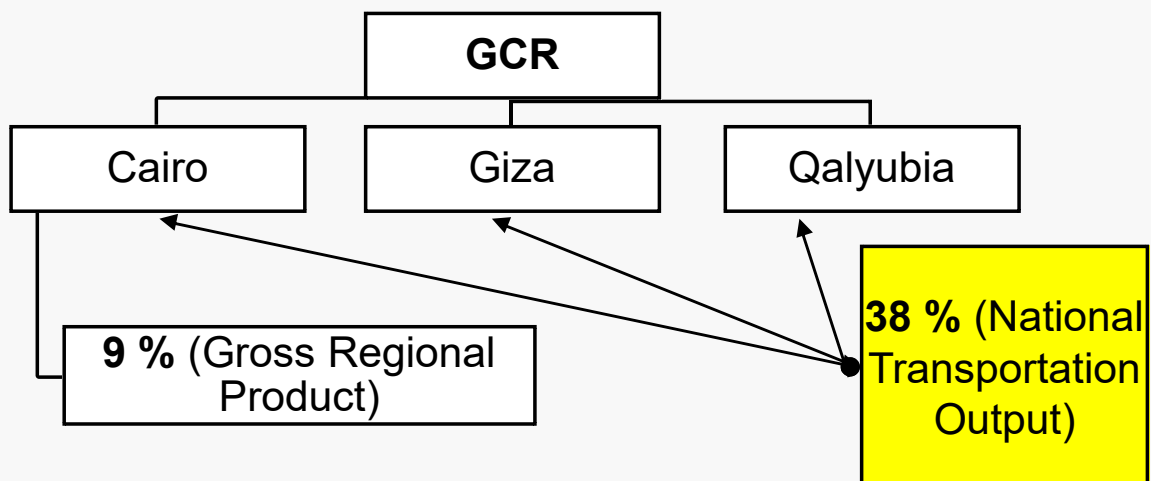
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Evolution of Satellite Cities from practices

- ✓ **Development** of these communities has been significantly **slower** than expected.
- ✓ **Such planned, “self-sufficient” communities almost never retain their self-sufficiency status.**
- ✓ They may become important **generators of traffic.**

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Structure of Travel Demand and Traffic Conditions in GCR



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Pedestrian Movements

✓ Important in the Cairo region, accounting for

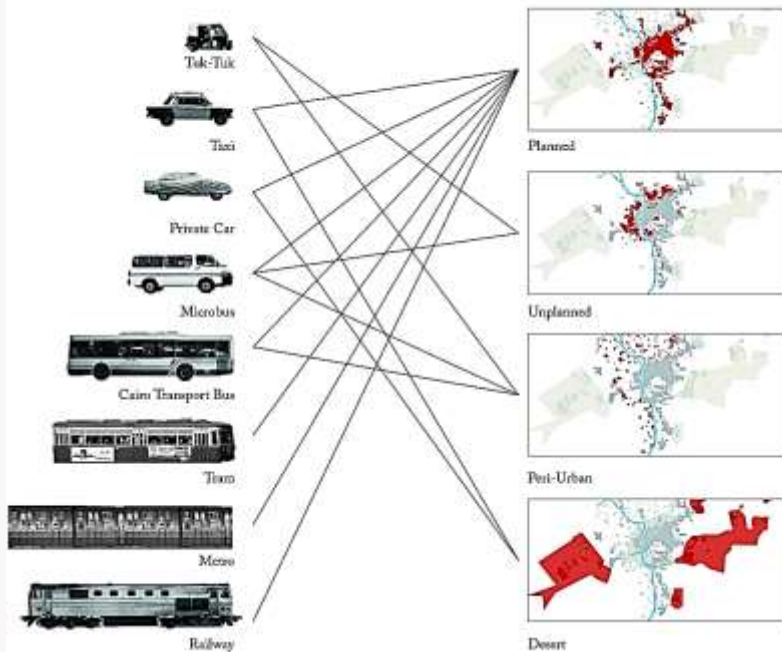
40 % of all trips

70 % of shopping trips

Greater Cairo is home to various **modes of transport.**

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Modes of Transport in GCR



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The Public Bus System

- ✓ It was first established in 1966
- ✓ It is owned by Egypt's **Cairo Transport Authority (CTA)**
- ✓ It serves both the **planned** and **unplanned** areas.

Cairo Metro

- ✓ It accommodates more than **4** million passengers per day.
- ✓ It is ran by **the Egyptian Company for Metro Management and Operation**
- ✓ the Co. has established metro line networks of more than **100** km.
- ✓ It serves the **planned** area.

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Private Bus

- ✓ Private sector companies can be contracted to operate buses within **the Cairo Transport Authority**.
- ✓ The **routes** are determined by the authority itself.
- ✓ It serves both the **planned** and **unplanned** areas.

Microbus

- ✓ It is available nearly everywhere in Cairo.
- ✓ It is used more often than CTA buses due to its **day and night availability**.
- ✓ It serves the **planned** area, **unplanned** area, and **peri-urban** area.

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White taxi

- ✓ It was introduced by the government in 2009 under a program of "**vehicle scrapping and recycling**".
- ✓ The program aimed to **revamp** the **cab service** through newer and better-equipped cars.
- ✓ It serves **planned** and **desert** areas.

Tuk-Tuk

- ✓ It was introduced in the early 2000s.
- ✓ It is used as a mean of **cheap transportation** for impoverished areas
- ✓ There are between **four** and **seven** million tuk-tuks in Egypt.
- ✓ It serves **unplanned** and **peri-urban** areas.

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The Traffic Conditions

✓ Cairo's passengers **waste hundreds of hours** every month reaching their destination in a capital

✓ It was never designed to **accommodate** such a high **population**.



Congestion

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Thank you