

Challenges and Opportunities of The New Transport University

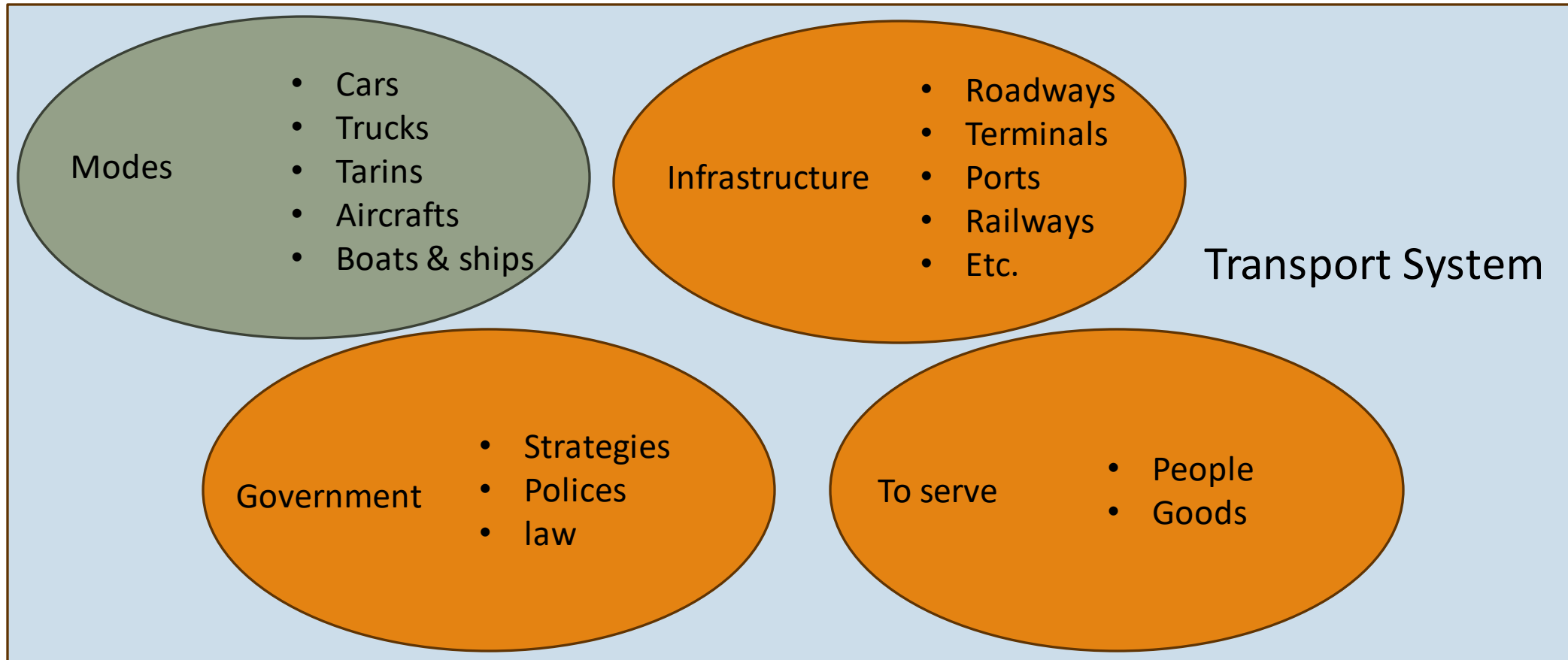
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Agenda

- ❑ Introduction
- ❑ Current Situation of the Engineering Higher Education
- ❑ Transportation Engineering Specialists
- ❑ Current Infrastructure Booming
- ❑ Transport University Challenges and Opportunities
- ❑ Expectation from New Transport University

Introduction

- The economic status of any country depend on how well served by the different modes of transportation and how is well designed the transport system



Introduction

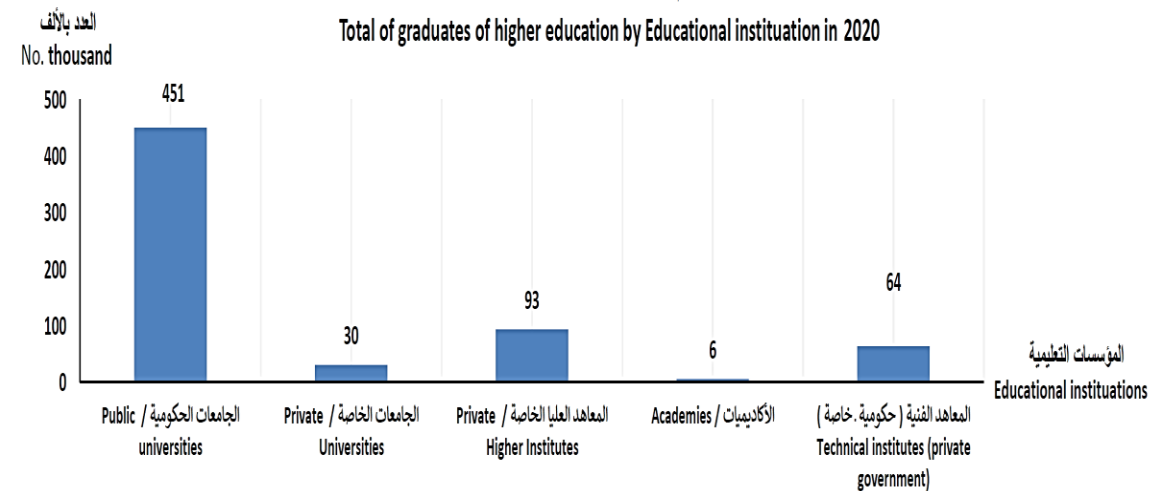
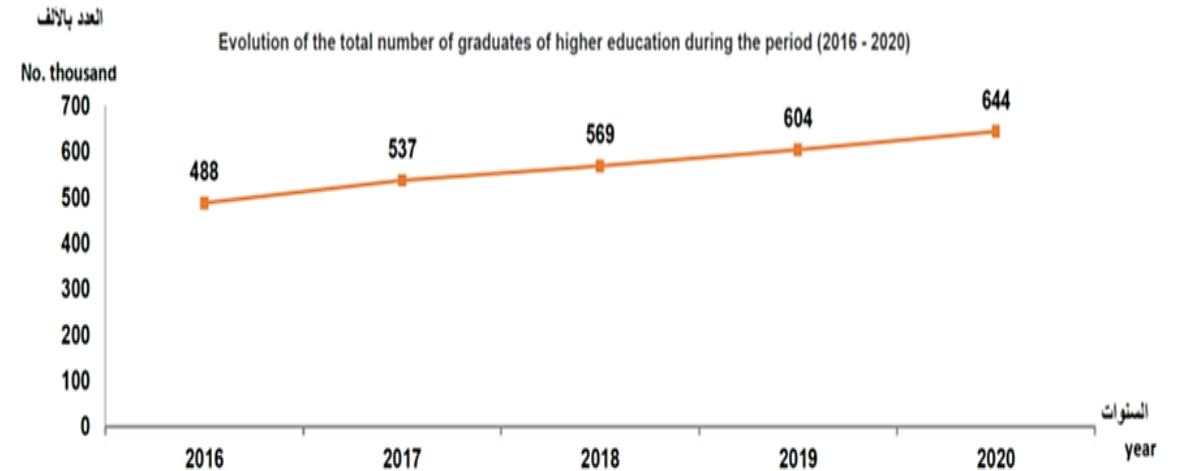


- Most of the transportation engineers are graduates of civil engineering programs where introduction to basics and fundamentals of the transportation Sciences are provided
- Civil engineering programs in Egypt are currently construction engineering-oriented programs
- The result is a clear shortage in the number of transportation engineers



Higher Education Current Situation

- Total number of universities in Egypt is 28 public universities with 544 faculties and 28 private universities with 206 faculties
- Graduates Statistics 644,000 graduates (2020)
- Current Engineers rate is 1 to 8.5 persons
- Size of Faculty Team public university (12,396 faculty member and assistance) achieving a ratio of 1 faculty member and assistance for 24 students
- Universal Professors to Students Rates:
 - 1 to 20
- Universal Engineers rate:
 - 1 to 200



Transportation Engineering Specialists

- Current Graduate Specialists
 - Construction Engineering
 - Civil Engineer
 - Construction Management Engineer
 - Mechanical Engineer
- Compulsory Specialists
 - Transport Planner
 - Traffic Engineer
 - Traffic Safety
 - Transport Economist
 - Seaport Engineer
 - Railway Engineer
 - Construction Management Engineer
 - Environmental Engineer
 - Airport Engineer
 - Bridge / tunnel Engineer
 - Highway Engineer
 - Vehicle Engineer
 - Manufacturing Engineer
- Current Gap

Infrastructure Booming



- About 247 B EGP in 2022-2023 and about 321 B EGP in 2023-2024 are allocated for Transportation sector related projects as a part of the Infrastructure projects of Egyptian 2030 Vision.

- The projects may include:

Road Network

- Tunnels
- Road segments
- Bridges

Freight Facilities

- Logistic Centers
- Constructing land ports

Infrastructure Booming



Maritime facilities

- New Ports
- Expanding Current ports (Adding berths, storage areas, etc.)

Rail Network (Urban and Regional)

- Rehabilitation projects
- Renovation of Signaling System
- Automation of planning and operation
- New Rail Projects
- Railway Fleet renovation


Engineering Job Availability

Transport University Challenges and Opportunities

Challenges

- Financial Support
- University Resources
- Equipped Labs
- Trained Faculty in all specialties (Capacity Building)
- Attracting Students

Opportunities

- Prepare suitable candidates to fill the gap
 - Potential employment positions
 - Adding value to the national economy
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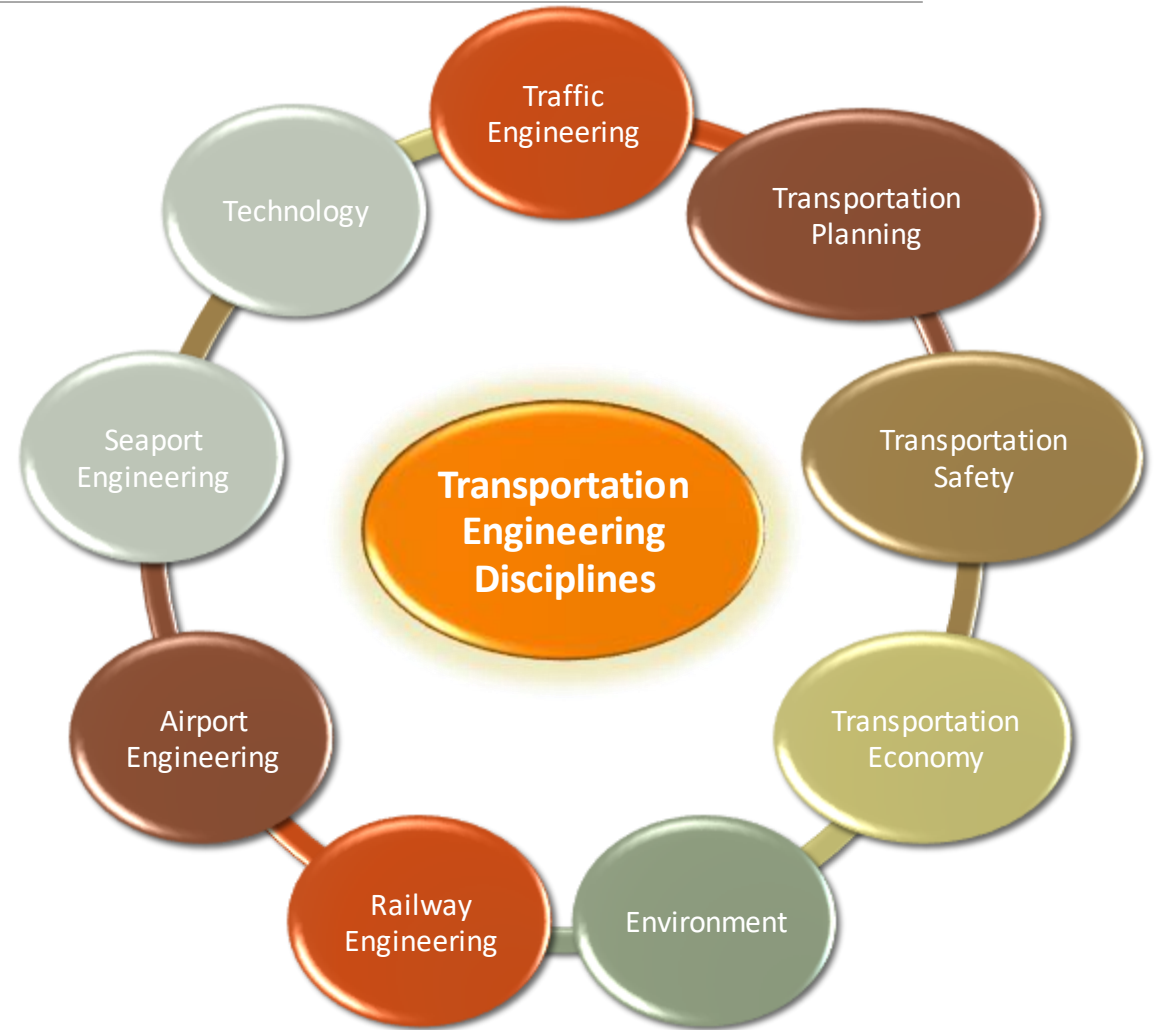
Expectation from New Transport University

Transport Specialties

Skillful Graduates

Quality Research Work

Community Services



Thank You

