

# Disarrangement on Logistics Education in Turkey: A Solution-Based Initiative



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# Logistics

- Logistics is a multidisciplinary applied science.
- The main focus of logistics is the movement of goods among networks.



# Logistics

- Those movements mainly included commodities.
- To provide effective and efficient flows logistics deals with quantitative trade offs.
- Regarding the role in the commercial life the importance of logistics which ensures the movement of goods is increasing radically.

# Logistics

- **Of course, we are not able to say that the importance of logistics has the same progress in every country.**
- It is related with the improvements of the economy of the countries.

# Logistics

- Logistics either a leverage and competitiveness tool in international trade that took its place first time in the 10<sup>th</sup> 5-Year Development Plan of Turkish Ministry of Development (2014-2018).

# Scientific discipline: Logistics

- Logistics is differentiated on the approach of the scientists who comes from different disciplines which interpretes business networks and economic processes differently.
- Logistics identifies, explains, analysis, predicts, controls and develops those networks.

# Scientific discipline: Logistics

- Science of logistics is being deepened in business, economics, engineering, IT/IS and social sciences.
- But; its progress comes from the synergic effects of the shared knowledge pool of those disciplines.

# Scientific discipline: Logistics

- Simultaneously, logistics education improves throughout double approach;
  1. Engineering
  2. Business administration





# Scientific discipline: Logistics

## *Engineering approach;*

- Mainly focuses on engineering, logistics and supply chain issues,
- Supported with some lectures in business administration which will be beneficial in terms of managerial skills.

# Scientific discipline: Logistics

## *Business administration approach;*

- Mainly focuses on business administration, logistics and supply chain issues,
- Supported with some lectures in engineering which will be beneficial in terms of system analysis and quantitative decision making.

# Logistics Education

- To meet the educational needs of human resources is one of the fundamental problems of the logistics companies.
- Kuhne University is one of the good examples to fulfill those needs.



# Logistics Education

- Maritime Business Management and Administration Department in Dokuz Eylul University at İzmir is the first logistics related department in Turkey.



# Logistics Education

- School of Higher Education in Transportation and Logistics which is founded in 1999 with the aim to support logistics and transportation industry with high skilled managerial candidates is the first undergraduate school holding 'logistics' in its name.

# Logistics Education

- Today, in Turkey,
- 40 undergraduate logistics department at the universities,
- 138 logistics programs in Vocational Schools.

# Logistics Education

- However, we are not able to say that it is sufficient to educate such high skilled human resources that are required by logistics industry.
- To solve this dilemma let's look at current view.

# Current view on logistics higher education

Department Name	Exam Type					Year	
	YGS 1	YGS 5	YGS 6	TM 1	MF 4	2	4
DENİZ ULAŞTIRMA İŞLETME MÜHENDİSLİĞİ					*		*
DENİZ ULAŞTIRMA VE İŞLETME	*					*	
DENİZ VE LİMAN İŞLETMECİLİĞİ			*			*	
HAVA LOJİSTİĞİ			*			*	
LOJİSTİK			*			*	
LOJİSTİK YÖNETİMİ				*			*
SİVİL HAVA ULAŞTIRMA İŞLETMECİLİĞİ			*			*	*
ULAŞTIRMA VE LOJİSTİK			*				*
ULAŞTIRMA VE TRAFİK HİZMETLERİ		*				*	
ULUSLAR ARASI LOJİSTİK				*			*
ULUSLAR ARASI LOJİSTİK VE TAŞIMACILIK				*			*
ULUSLAR ARASI LOJİSTİK YÖNETİMİ				*			*
ULUSLAR ARASI TİCARET VE LOJİSTİK				*			*
ULUSLARARASI TİCARET VE LOJİSTİK YÖN.				*			*



# Vocational Schools Programs

2y Logistics Programs Quotas (2013)					
	University	Program	Place	Placement	%
State	42	91	6647	5511	%82,9
Foundation	33	33	1864	1201	%64,4
<b>Total</b>	75	<b>124</b>	<b>8511</b>	6712	%78,8

2y Logistics Programs Quotas (2014)					
State	44	107	7140	6597	%82,9
Foundation	31	31	1626	1372	%64,4
<b>Total</b>	75	<b>138</b>	<b>8766</b>	7969	%78,8

State			%7,4	<b>%19,7</b>	
Foundation			- %12,7	<b>%14,2</b>	
<b>Total</b>			%3	<b>%18,7</b>	

# Undergraduate programs

## 4y Logistics Dept.s Quotas

	2013		2014		
	University	Place	University	Place	Increase (%)
<b>TM 1 (Faculty)</b>	2	67	6	411	
<b>YGS 6 (4y High Sc)</b>	3	412	10	814	
<b>State</b>	5	479	16	1225	
<b>TM 1 (Faculty)</b>	18	1018	20	1156	
<b>YGS 6 (4y High sc)</b>	4	279	4	338	
<b>Foundation</b>	22	1297	24	1494	
<b>Total</b>	<b>27</b>	<b>1776</b>	<b>40</b>	<b>2719</b>	<b>%48 - %53</b>

# Graduate programs

- Additionally, there are **12 master** and **2 Ph.D.** Programs in different universities.
- Except one Ph.D. program all of the other programs prepare their curriculum throughout business management approach.

# Course diversity

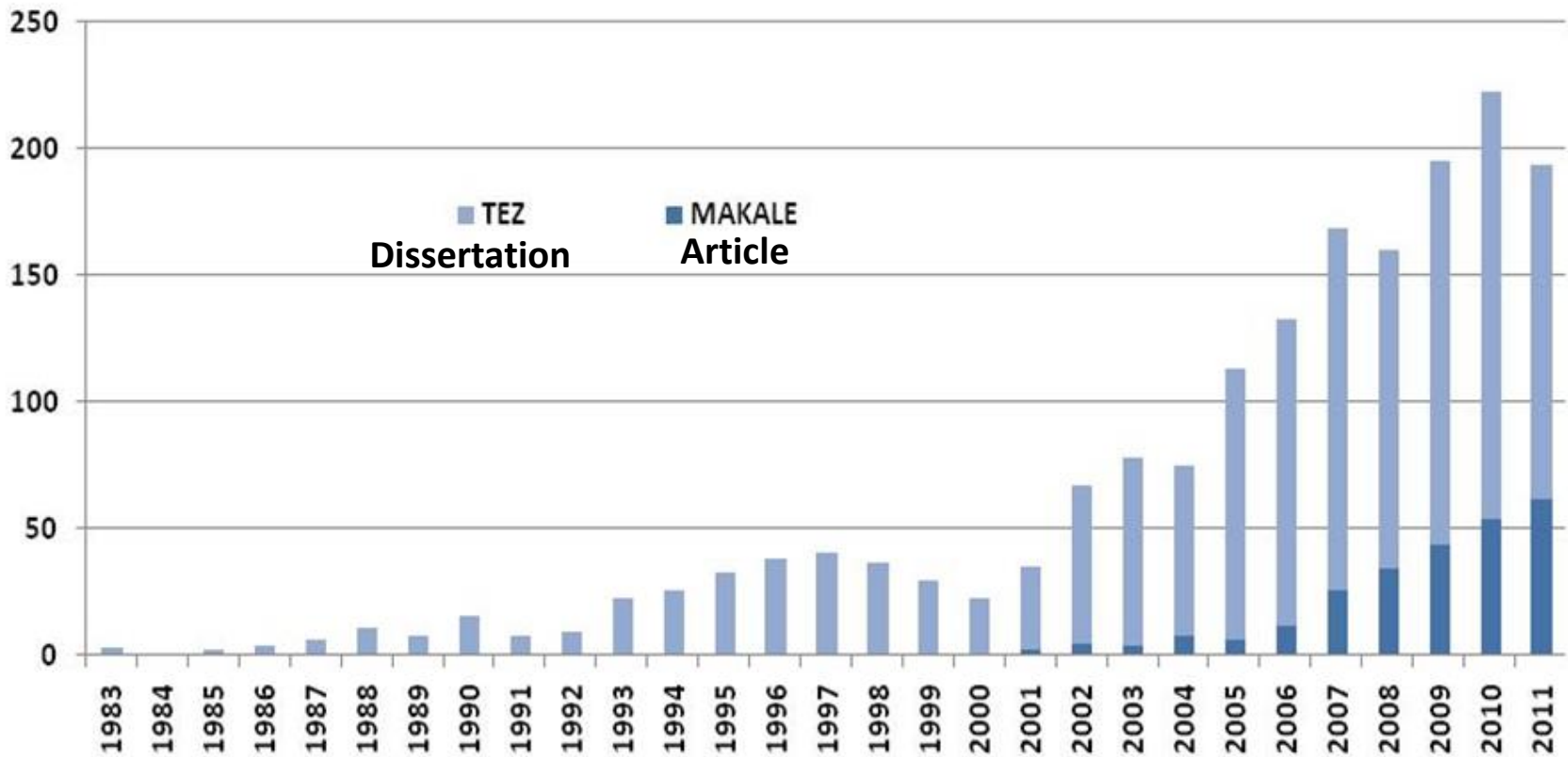
- Vocational schools : 98
- Undergraduate : 143



# Requirement to lecturers

- By the way all of those vocational, undergraduate and graduate programs suffer from the lack of sufficient lecturers in quantity and quality.

# Increase of logistics publications



# A solution-based initiative

- As a competitive field in higher education, to have a curriculum for logistics education which meets industrial requirements and responses to international developments is vital.
- Offering such a curriculum by industrial organizations (firms, associations, etc.) may have no acceptance by universities. Cause of liberal circumstances.

# A solution-based initiative

- Under such circumstances to regulate logistics education in regard of processes and outputs a few experts and academics gathered as an initiative group.
  - Done analyses,
  - Revealed the requirements,
  - Discussed what to do,
  - Finally..?



# ULAKDER

## (Association of Evaluation and Accreditation of Logistics and Transportation Education)

- Main Goals:
  - To evaluate and develop contemporary curriculum of logistics education,
  - To evaluate logistics dept.s in universities in regard of input, processes and outputs,
  - To accreditate those dept.s,

# ULAKDER

## (Association of Evaluation and Accreditation of Logistics and Transportation Education)

- Sub Goals:
  - To create a group of logistics academics and experts,
  - To contribute logistics education by way of organizing congresses, seminars, etc.,
  - To contribute logistics literature by academic studies and publications,
  - To inform stakeholders, shareholders, and those who are interested in logistics.

# ULAKDER

*Ulařtırma ve Lojistik Eđitim  
Kurumları ve Programları  
Deđerlendirme ve Akreditasyon  
Derneđi*