

# During-Trip User Behaviour: Effects of Advanced Traveller Information Systems

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*Dr. Ioanna Spyropoulou*

National Technical University of Athens  
(NTUA)



# Objective

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- Definition of During-Trip ATIS
- Identification of During-Trip ATIS Effects on Behaviour



# Outline

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- During-Trip ATIS in general
- Types of During-Trip ATIS
- During-Trip ATIS Information
- During-Trip ATIS Impact



# During-Trip ATIS in general (1/2)

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- Definitions

Traveller: A person who changes location using a variety of transport modes in order to carry out an activity.

During-Trip ATIS: In respect to the phase of the trip; during the trip



# During-Trip ATIS in general (2/2)

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- Needs for During-Trip ATIS
  - ❖ Improving Traffic Conditions
  - ❖ Improving Road Safety
  - ❖ Reducing Environmental Pollution



# During-Trip ATIS classification (1/2)

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- Type of communication
  - ❖ Proactive  
Provision of information regardless of the user needs
  - ❖ Interactive  
Provision of information aiming at user needs, upon request



# During-Trip ATIS classification (2/2)

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- Location

- ❖ Mobile multi-modal travel devices (mobile phones)
- ❖ Fixed devices (other?)
- ❖ In-vehicle devices (information, navigation)
- ❖ Roadside driver information systems (VMS)

# During-Trip ATIS

## information (on traffic)

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- Traffic conditions proactive
  - ❖ Flow (low, medium, high)
  - ❖ Delay
  - ❖ Other
- Traffic conditions interactive
  - ❖ Travel time of predefined trip
  - ❖ Travel time of alternative routes
  - ❖ Travel time using alternative means



# During-Trip ATIS information (public transport)

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- Traffic conditions proactive/interactive
  - ❖ Waiting time at the bus stop (proactive)
  - ❖ Travel time of route (proactive/interactive)
  - ❖ Possible interchanges
  - ❖ Facilities at interchanges (parking etc)

# During-Trip ATIS information (other)

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- Other types of information
  - ❖ Weather conditions
  - ❖ Closure of road/stations due to engineering works,demonstrations,other
  - ❖ Traffic disruption,Re-routing due to engineering works,demonstrations,other
  - ❖ Other



# During-Trip ATIS possible Impac

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- Execution of the remaining journey
- Route followed
- Change of driving behaviour (speed, other)



# During-Trip and Pre-Trip ATIS: Similarities and Differences

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- Information provided  
Updated for during-trip systems
  
- Travellers choices  
More limited for during-trip but based on more efficient information

# Example of During-Trip

## ATIS Impact

<b>OVERALL RESPONSES</b>				
Divert	Divert, but not until encountering further problems	Stay on the same route	Other	Not answered
24	8	62	2	4
<b>JOURNEY ORIGIN</b>				
Non-London (33%)	London (67%)			
20	26			
<b>TYPE OF ROUTE</b>				
Normal route (49%)	Non-normal route (51%)			
38	9			
<b>CAUSE OF PROBLEM</b>				
Accident (29%)	Congestion (33%)	Roadworks (28%)	Demonstration (11%)	
28	13	26	41	
<b>WHAT TO EXPECT</b>				
Delays (20%)	15 min Delay (20%)	30 min Delay (20%)	Lond delays (20%)	Avoid area (20%)
19	18	31	23	29

# During-Trip User Behaviour: Effects of Advanced Traveller Information Systems

A decorative graphic on the left side of the slide, consisting of a vertical black line intersecting a horizontal grey line. To the left of the vertical line are three overlapping colored squares: blue (top), red (middle), and yellow (bottom).

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