

# Pre-Trip Impacts of Advanced Traveller Information Systems

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# Objective

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- Definition of Pre-Trip ATIS
- Identification of Pre-Trip ATIS Impact



# Outline

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



# Pre-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.

Pre-Trip ATIS: In respect to the phase of the trip; before the start of the trip



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

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



# Pre-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



# Pre-Trip ATIS classification (2/2)

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- Location

- ❖ Mobile multi-modal travel devices (mobile phones)
- ❖ Fixed devices (public access terminals at dedicated locations)
- ❖ In-vehicle devices (information, navigation)
- ❖ Roadside driver information systems (bus frequency at bus stops)

# Pre-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

# Pre-Trip ATIS

## information (public transport)

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- Traffic conditions and other parameters proactive/interactive
  - ❖ Waiting time at the bus stop (proactive)
  - ❖ Travel time of route (proactive/interactive)
  - ❖ Frequency of buses/trains etc
  - ❖ Fare cost
  - ❖ Possible interchanges
  - ❖ Facilities at interchanges (parking etc)

# Pre-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

# Pre-Trip ATIS information (example)

Athens Real-Time Traffic Congestion Map - Central View - Netscape

File Edit View Go Communicator Help

[www.civil.ntua.gr/transport/map](http://www.civil.ntua.gr/transport/map)

Netsite: <http://www.transport.ntua.gr/map/>

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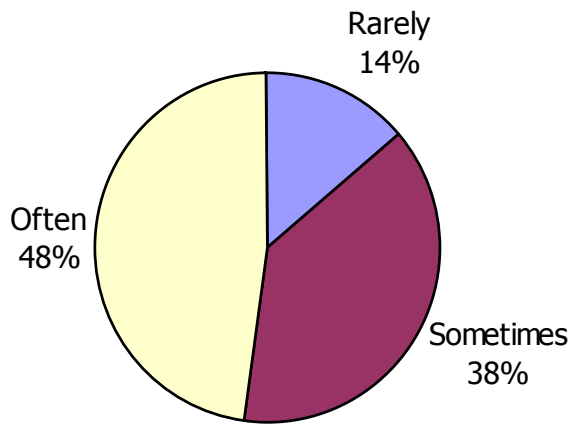


# Pre-Trip ATIS possible Impact

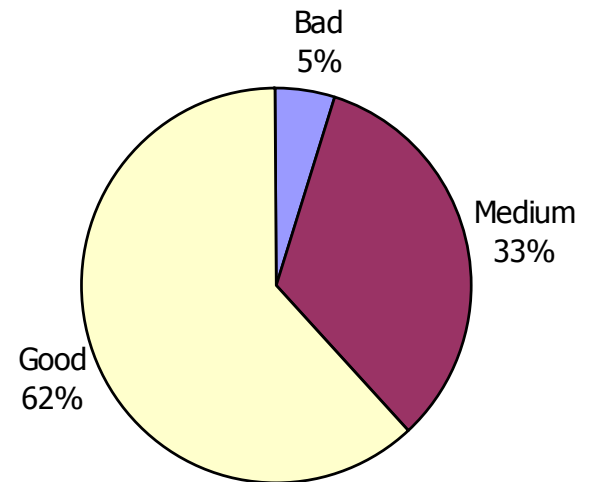
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- Execution of the journey
- Time of Departure
- Transport Mode Used
- Route followed

# Example of Pre-Trip ATIS Impact



How often would your movements be affected by the proposed route change?



How do you judge such systems?

*Source: QUARTET PLUS (TR 1044)*

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