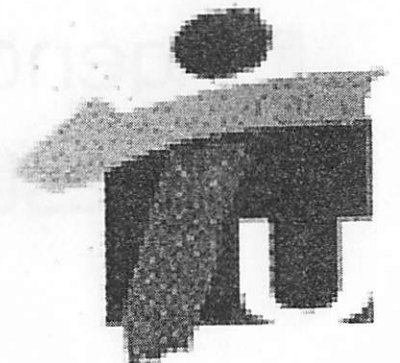


Tren Urbano

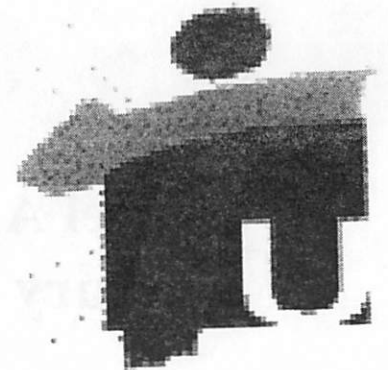
A Study in Structural Inspection and Management Policy

Daniel A. Zarrilli - MIT
January 1998



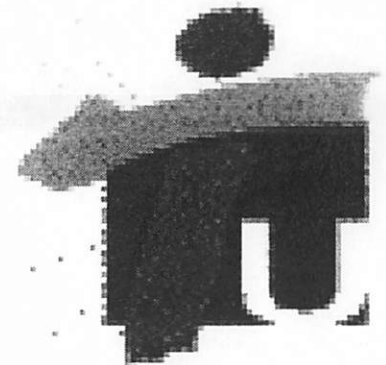
Research Summary

- Goals and Objectives
- Research Background
- Focus of Research
- Methodology
- Current Progress
- Agenda
- Questions?



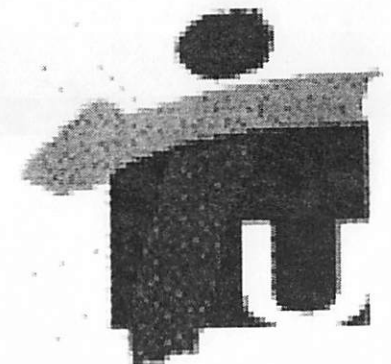
Goals and Objectives

- The purpose of this research is to:
 - Investigate the Structural Inspection and Management Strategies Necessary for the Successful Long-Term Operation of Tren Urbano
 - Recommend Options for Implementation of an Effective Structural Management System



Research Background

- Structural Management Systems
 - Bridges, Tunnels, Stations, etc.
- STTT Contract Provisions
 - "Proper" Inspection
- Technical Provisions - O & M
 - Facilities Maintenance Policy and Procedures Manual

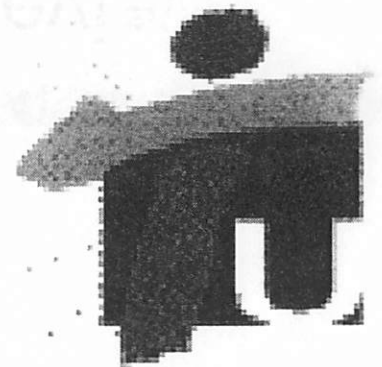


Focus of Research

■ Four Main Questions

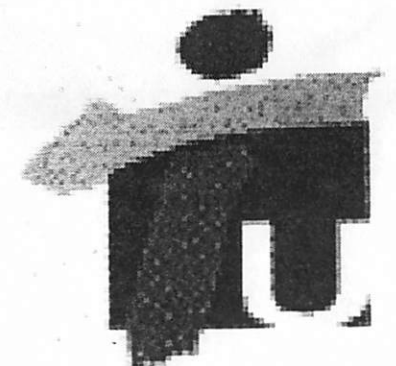
- Structural Make-up of Tren Urbano?
- Inspection/Management Plans and Budget?
- Accepted Inspection/Management Policies?
- Experience of Other Rail Transit Agencies?

How can the answers to these questions be utilized to develop an inspection and management system specific to Tren Urbano's needs?



Agenda

- Structural Management Software Review
 - PONTIS (AASHTO) & BRIDGIT
- Railroad Bridge Inspection Procedures?
- Tunnel/Station Inspection Procedures?
- Local Boston Contacts/Site Visits
 - MBTA, MassHighway
- Overall Inspection Strategy
 - Track, Systems, etc.



Methodology

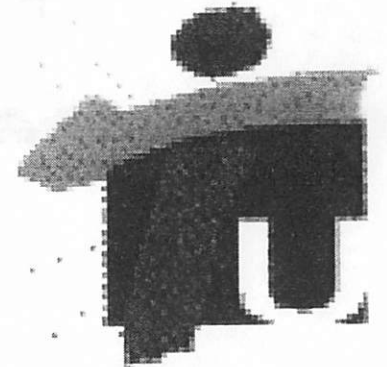
- Data Collection

- Literature, Siemens, Tren Urbano, Survey

- Assessment of Information

- Results of Survey
 - Identification of Successful Policies
 - Relevance to Tren Urbano

- Conclusions/Recommendations



Current Progress

- Inspection/Management Policies and Procedures
 - Literature Search
- Transit Agency Data Collection
 - Data Identification - Survey
 - Contacts
- Identification of Resources

