Figure 1 PRT Deployment Site: Rosemont
Figure 2 Rosemont PRT System Configuration in 1997
Figure 3 Rosemont PRT System Configuration in 1998
Figure 4 Vehicle Component Multiple Regression Analysis
Figure 5 Guideway Component Regression Analysis
Figure 6 MCF Component Multiple Regression Analysis
Figure 7 Power & Utility Component Multiple Regression Analysis
Figure 8 Component Cost Distribution
Figure 9 System Unit Cost Comparison
Figure 10 Estimated Year 2000 Average Weekday Station Ridership
Figure 11 Estimated Year 200 Weekday PRT Trip Destinations from CTA Station
PRT Deployment Site: Rosemont

- Adjacent to O’Hare Airport
- 24 km from Chicago CBD
- Population over 4,000
- Employment over 23,000
Rosemont PRT System Configuration in 1997

- 3.4 Miles of Guideway
  - 2.9 Miles Online
  - 0.5 Miles Offline
- 7 Stations

1 mile = 1.61 kilometers
Rosemont PRT System Configuration in 1998

**Configuration**
- 3.0 Miles of Guideway
- 2.4 Miles Online
- 0.6 Miles Offline
- 6 Stations

1 mile = 1.61 kilometers
The multiple regression analysis was based on 20 North American AGT systems with three independent variables: Fleet Size, Equivalent Vehicle Seated Spaces, and Type of Motors (Rotary DC vs Linear Induction Motors). The multiple regression had R-Square value of 0.858.
NOTE:
1) Both at-grade and underground guideway lane miles were converted to Equivalent Elevated Lane Miles using factors calculated from FTA studies (1 mile=1.61 kilometers)
2) The simple regression analysis was based on 16 North American AGT systems and had R-Square value of 0.964.
NOTE: The multiple regression analysis was based on 19 North American AGT systems with three independent variables: Guideway Lane Mile, System Complexity Index, and Equivalent Vehicle Seated Spaces. The multiple regression had R-Square value of 0.873.

(1 mile=1.61 kilometers)
The multiple regression analysis was based on 17 North American AGT systems with four independent variables: Guideway Lane Mile, Fleet Size, Equivalent Vehicle Seated Spaces, and Snow/Ice Removal Dummy. The multiple regression had R-Square value of 0.943.

(1 mile=1.61 kilometers)
Component Cost Distribution

PERCENT OF TOTAL SYSTEM COST
Comparison of Raytheon’s PRT, Comparable AGT and Average of 17 AGT Systems

FIGURE 8
FIGURE 9

System Unit Cost Comparison

Cost per Guideway Lane Mile in 1996 Dollars

PRT-Comparable AGT Systems

Min.  Cost Range  Max.

15M  27M  37M  50M

Comparable

Min.  Average  Max.

8M  35M  17 AGT Systems  90M

(1 mile=1.61 kilometers)
Estimated Year 2000 Average Weekday Station Ridership (Trade Show at Convention Center)
Estimated Year 2000 Weekday PRT Trip Destinations from CTA Station

(Trade Show at Convention Center)