



PRT CONSULTING

We provide professional planning and engineering services to help our clients implement driverless transit solutions that improve mobility, safety and economic development while reducing congestion.

PERSONAL RAPID TRANSIT (PRT)

PRT is a driverless transit solution that travels on dedicated guideways to provide a very high level of service and reduce congestion on surface roads. Small deployments have been in public operation around the world for decades (United States since 1975, The Netherlands since 1999, United Arab Emirates since 2010, United Kingdom since 2011, South Korea since 2013). Larger deployments with hundreds of vehicles and dozens of stations are now emerging in India and China with many more being planned.

PRT PLANNING & ENGINEERING ISSUES

PRT operates very differently from other transit systems and transit planners and engineers often lack the intricate knowledge necessary to unlock its full benefits. Correctly implementing a PRT deployment requires in-depth understanding of:

- Short headway possibilities and limitations
- Speed possibilities and limitations
- Offline station operations and configurations
- Ridesharing methodologies
- Fare box revenue strategies
- Corridor vs. networked alignments
- Station spacing pros and cons
- Empty vehicle management
- Maintenance/storage and control room requirements
- Safety and security requirements, etc., etc.

In addition, planning and engineering of PRT systems requires the use of specialized tools for geometric design, simulation modeling, capital and operating cost modeling, etc.

PRT DEFINITION

- Small driverless vehicles
- Exclusive guideways
- Offline stations
- On-board switching

PRT CHARACTERISTICS

- Short wait times
- Nonstop, seated travel
- High reliability
- Very safe
- Relatively low capital and operating costs

PRT IS ALSO KNOWN AS

- Automated transit networks (ATN)
- Pod Taxi
- Pod Car



PRT CONSULTING CAPABILITIES

PRT Consulting was founded in 2005 specifically to provide professional planning and engineering services for PRT deployments. Our staff of expert consultants each has over ten thousand hours experience in PRT-related specialties including: route planning and design; simulation modeling; feasibility studies and business case development; guideway and vehicle structural and mechanical design; safety and security; deployment and implementation; and cost estimating. We have undertaken PRT projects for a wide range of clients including cities, counties, airports, universities, the US Army, large private corporations and PRT suppliers. We are intimate with the ASCE Automated People Mover Standards and have been working for many years to help update them to better accommodate PRT.

We are exceptionally well-positioned to undertake PRT projects from start to finish. However, we recognize the value of local expertise and are happy to provide high-level expert services, limited to key issues, while other team members provide the standard planning and engineering support services, thus maximizing the use of local resources.

COLLABORATE WITH US

Please call us at (1-720-318-4795) and/or email us (info@prtconsulting.com) to discuss how we can best collaborate to help ensure the success of your project. You will find that we are flexible and willing to adjust our approach to fit your needs.

ENSURE SUCCESS

Our participation in your project will help ensure its success. We guarantee that our fee will be substantially less than the reduced cost and/or increased revenue that we will bring to the project.

PITFALLS WE WILL HELP YOU AVOID

- Poor community involvement
- Inefficient alignments
- Poor station locations
- Ineffective station layouts
- Operational misconceptions
- Failure to exploit PRT's strengths
- Lack of knowledge of safety standards
- Misunderstanding of procurement, deployment, testing and certification requirements



17697 Junegrass Place
Parker, CO 80134, USA
www.prtconsulting.com

January, 2025
Phone 1-720-318-4795