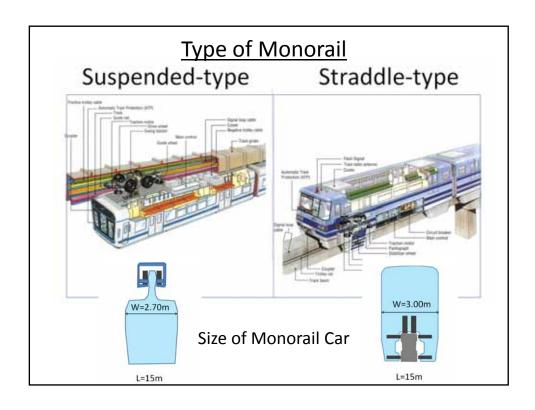
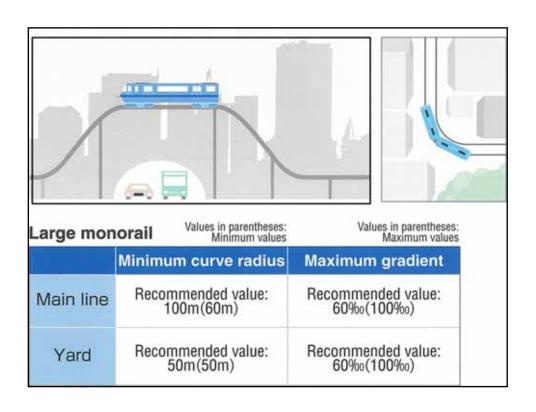


Characteristics of Urban Transportation System

Urban Transportation System	Capacity	Introduction	Tires	
		space		
Urban Railway	Large	Ground,	Steel	
		Under Ground		
		Elevated		
Subway		Under Ground	Steel	
Monorail (straddle)		Elevated	Rubber	
(suspended)				
Automated Guideway Transit		Elevated	Rubber	
Tram, Streetcar, LRT		Ground	Steel	
BRT, Guideway Bus		Elevated	Rubber	
Bus	Small	Ground	Rubber	

2







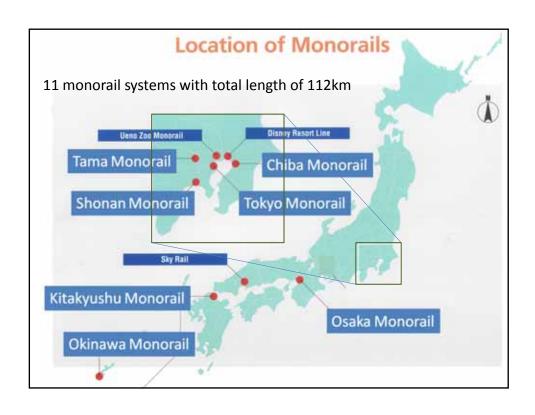
Safety

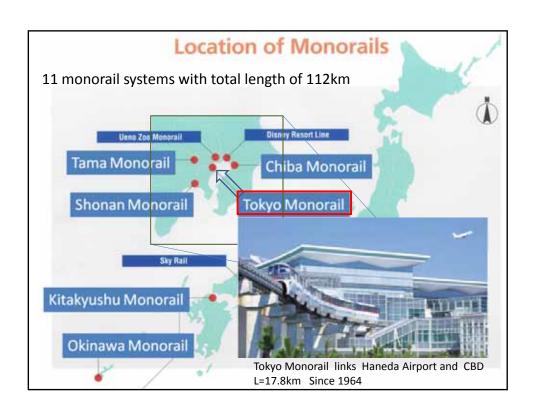
No operational accidents resulting in injury or death.

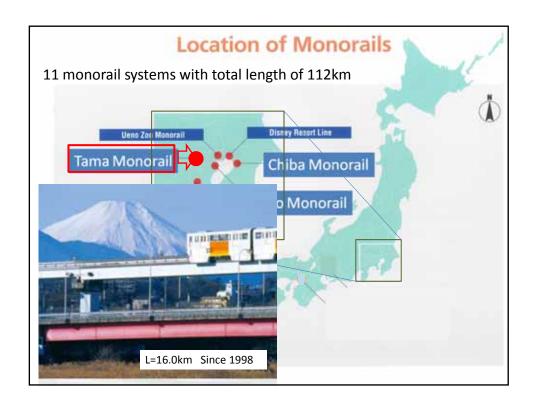
Construction Cost

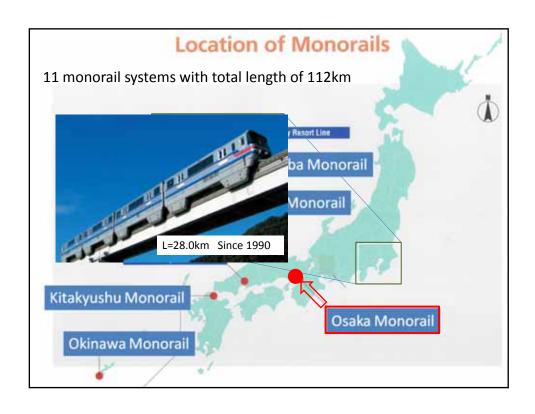
Monorail < Subway

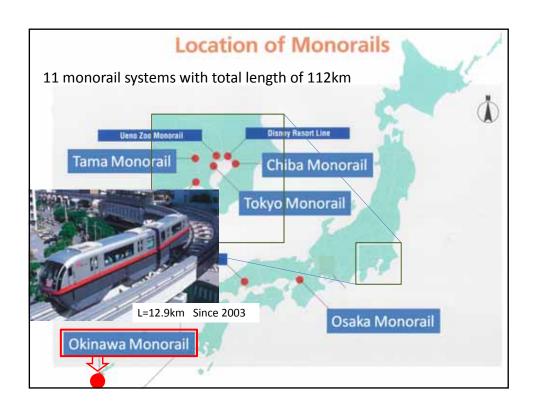
Operation Cost



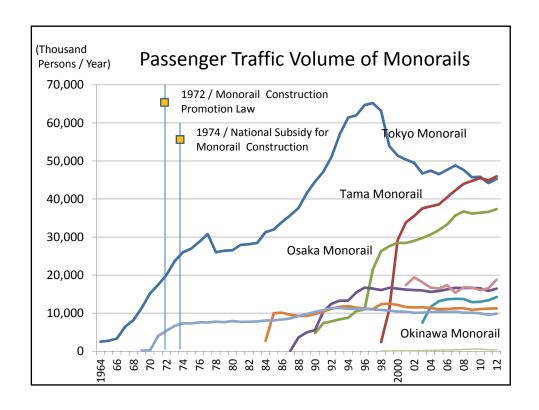


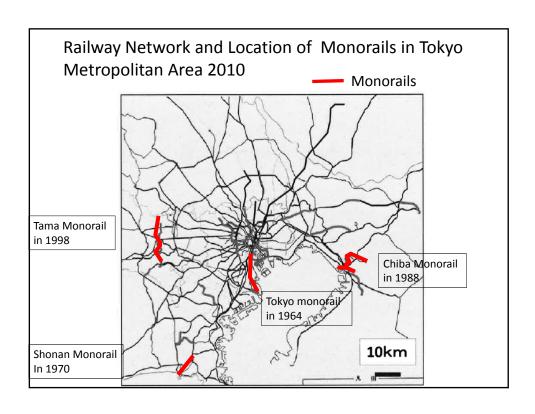


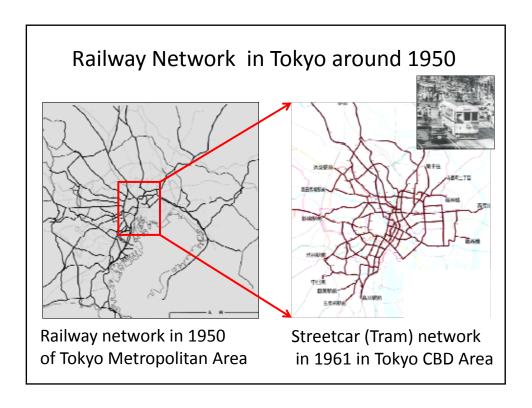


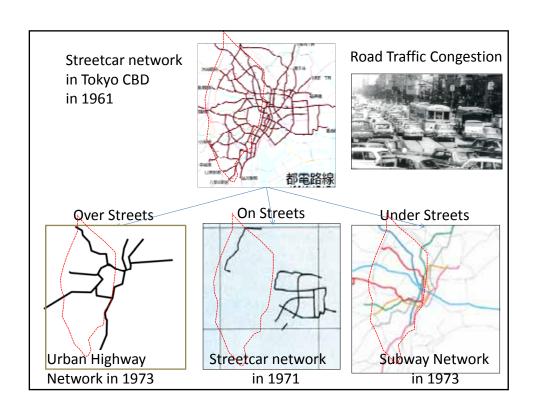


2013.3.3									
Name	Tokyo Monorail	Tama Monorail	Osaka Monorail	Kita- kyushu Monorail	Okinawa Monorail	Chiba Monorail	Shonan Monorail		
Operating Body	Private	Semi- Public	Semi- Public	Semi- Public	Semi- Public	Semi- Public	Private		
Line Length (km)	17.8	16.0	28.0	8.8	12.9	15.2	6.6		
Operating Years	48	14	23	28	10	25	43		
Type	Straddle	Straddle	Straddle	Straddle	Straddle	Suspende d	Suspended		
Nominal Capacity (persons / car)	94 / 96 / 99 / 102/	1 AND 100 ATT	99 / 108	93 / 103	82/83	78 / 79 / 85	61 / 71 / 82		
Number of Cars per Train	6	4	4	4	2	2	3		
Passenger Volume (persons / day)	124,000	126,000	102,300	30,800	39,100	45,100	27,000		



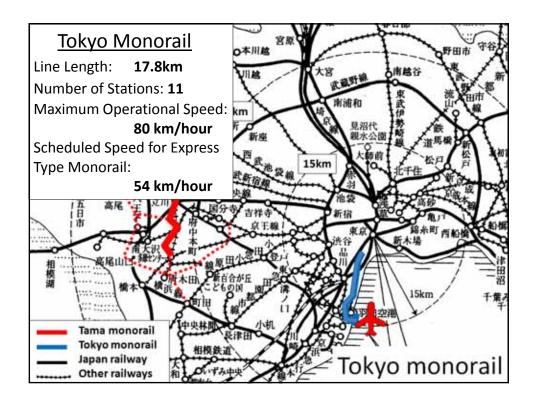


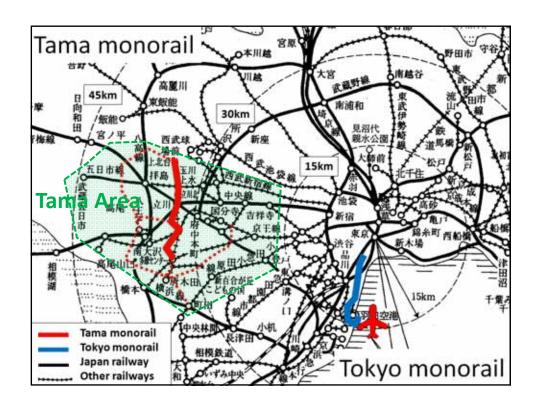


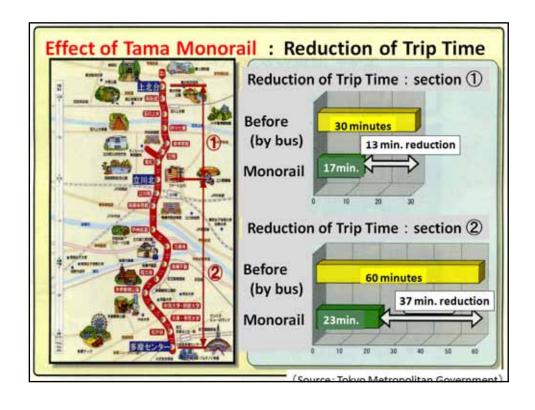


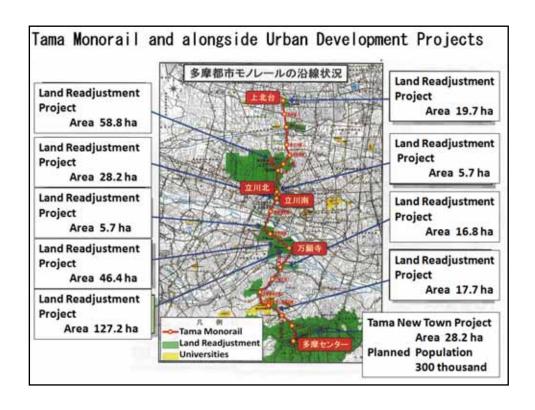
<u>Practical Use of Monorail Systems</u> <u>in Metropolitan Area</u>

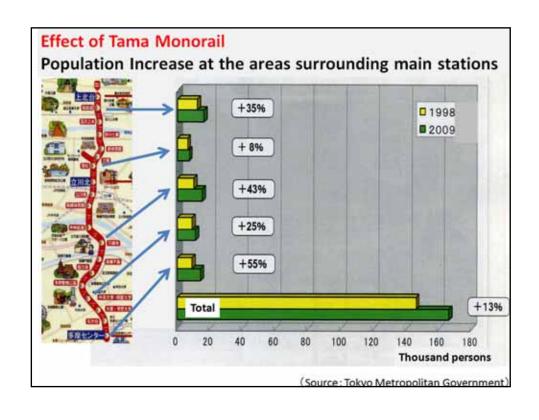
- →Creation of new railway network by linking existing railways
- →Access to existing railway
- →Access to Airport
- →Access to Development Area (Urban development integrated with Monorail Construction)

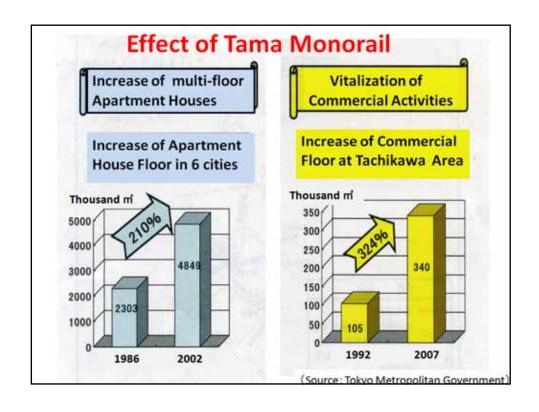


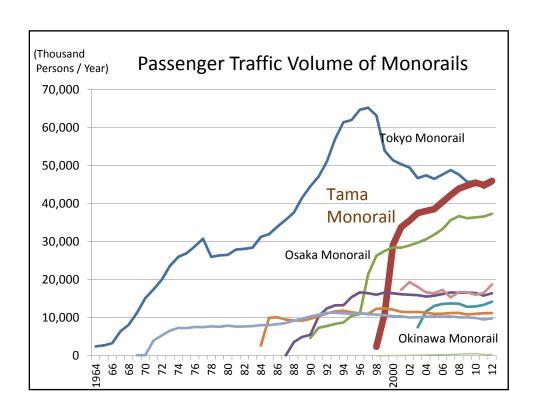


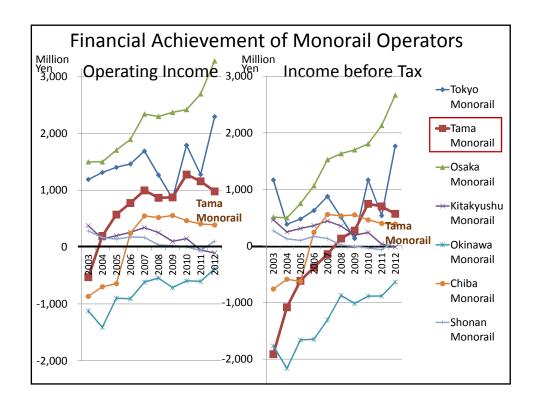


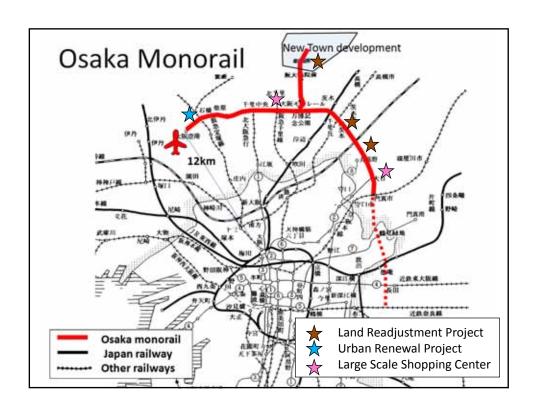


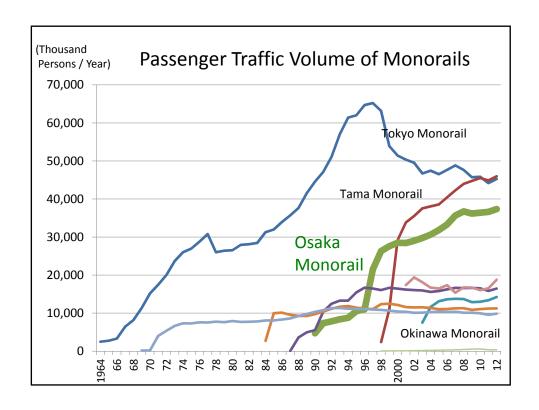


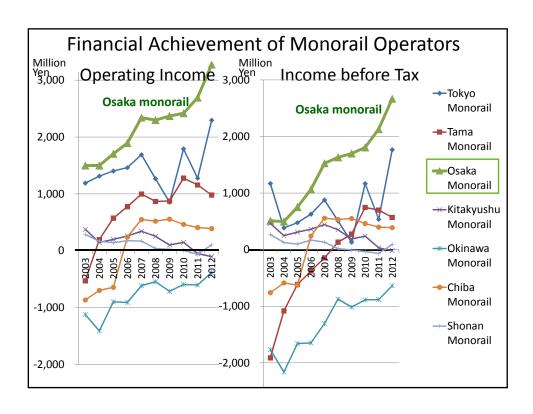


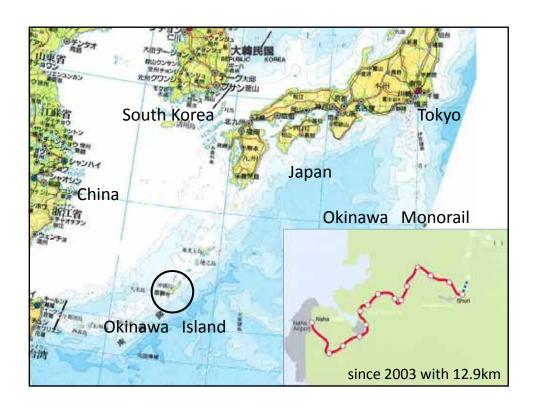






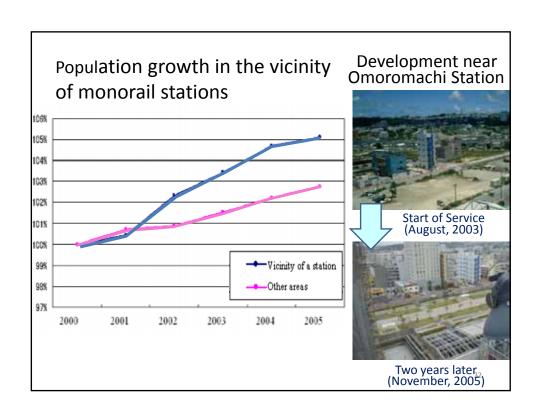






Effects of Okinawa Monorail Construction Reduction of Traveling Time ex. Between Airport to Shuri Station: about 33 minutes reduction from 60 minutes by car to 27 minutes by monorail Alleviation of road traffic ex. The case of central main street Car traffic volume: about 15% reduction Car travlins speed: about 60% increase







Conclusion

Characteristics and operational records of the Japanese monorail system

Safe, Stable and Reliable transportation system

Integrated urban development and monorail construction contributes to sound urban development and sustainable monorail operation.

Japanese monorail systems built outside of Japan

Expectation to contribute to the development of Republic of India through Japanese monorail technology

Thank you very much