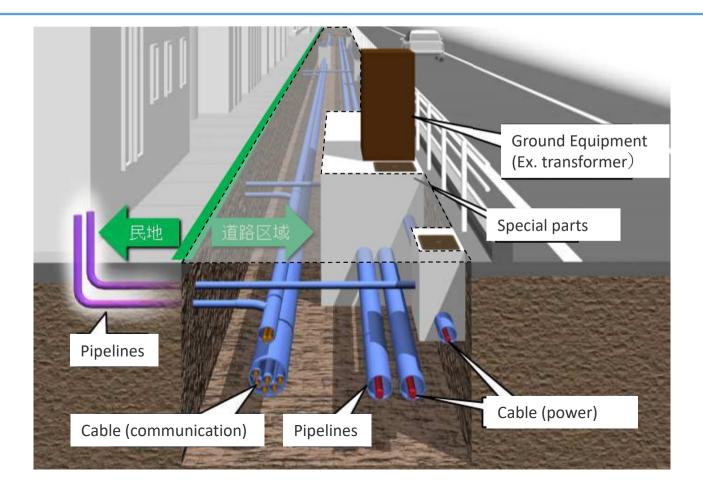
### Electric Cable Common Ditch Maintenance Project in Miyako Jurisdiction

Miyako Civil Engineering Office, Okinawa Prefecture 1. What is electric cable common ditch?

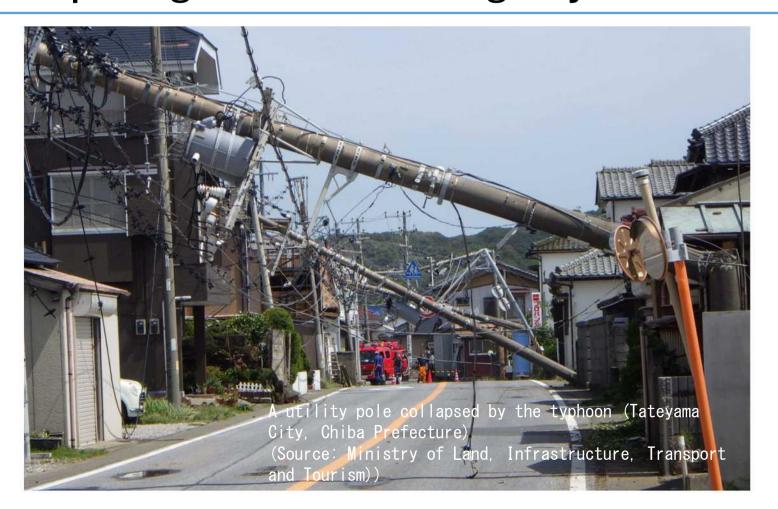
### What is electric cable common ditch?

 A ditch that can accommodate electrical and communication cables in an underground space, mainly under sidewalks.

 Utility poles and cables can be removed from the ground by constructing a common cable ditch.



### When a common electric cable ditch is maintained ...



### When a common electric cable ditch is maintained ...

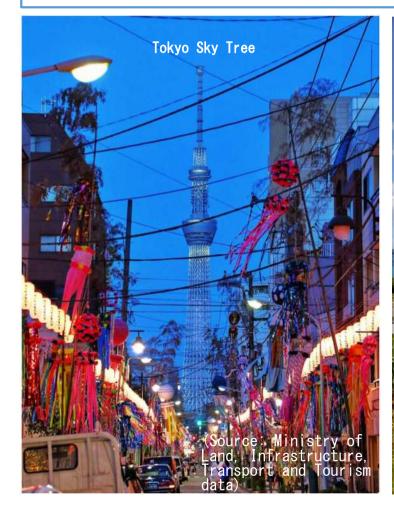
Effect of maintenance ② >
 The elimination of utility poles on the sidewalks will allow pedestrians to pass more comfortably.





### When a common electric cable ditch is maintained ...

< Effect of maintenance ③ >
The removal of utility poles, wires, etc. from the ground will restore a beautiful landscape.





## 2. Typhoon damage in Miyako Island region

### Typhoon damage in Miyako Island region

Typhoons approach Okinawa Prefecture almost

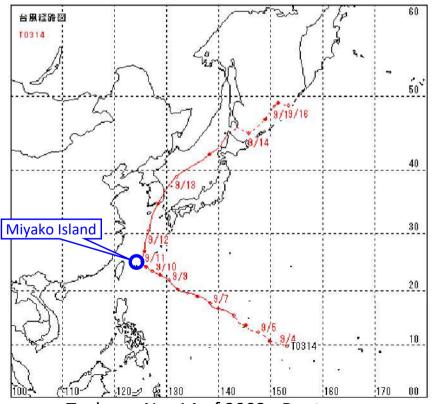
every year, causing damage.

In September 2003, Typhoon No. 14 (Maemi), which had a maximum instantaneous wind speed of 74 m, approached the Miyako Island region and caused extensive damage.

#### 宮古島地方への台風接近数

年		接近数
H15	2003	7
H16	2004	6
H17	2005	5
H18	2006	5
H19	2007	4
H20	2008	1
H21	2009	2
H22	2010	3
H23	2011	4
H24	2012	7
H25	2013	6

牛		接近数
H26	2014	3
H27	2015	5
H28	2016	4
H29	2017	4
H30	2018	6
R1	2019	6
R2	2020	4
R3	2021	5
R4	2022	3
R5	2023	3
R6	2024	2
	•	



Typhoon No. 14 of 2003 - Route map

### Damage caused by Typhoon No. 14 (Maemi in 2003) 1

- Typhoon No. 14 (Maemi), which formed in September 2003, developed and moved towards Miyako Island, passing it over at around 5:00 on the 11th.
- In Miyako Island, the maximum wind speed was 38.4 m/s (maximum instantaneous wind speed 74.1 m/s) and the minimum pressure was 912.0 hPa (the fourth highest on record in the country).









### Damage caused by Typhoon No. 14 (Maemi in 2003) 2

 The typhoon damaged approximately 1,900 utility poles, blocked roads and disrupted power, telephone, and water services in the Miyako Island region.

[Damage] Water: 4,681 households (fully restored on 9/15)

Telephone: 4,068 lines (fully restored on 9/28)

Electricity: 21,400 households (fully restored on 9/23)

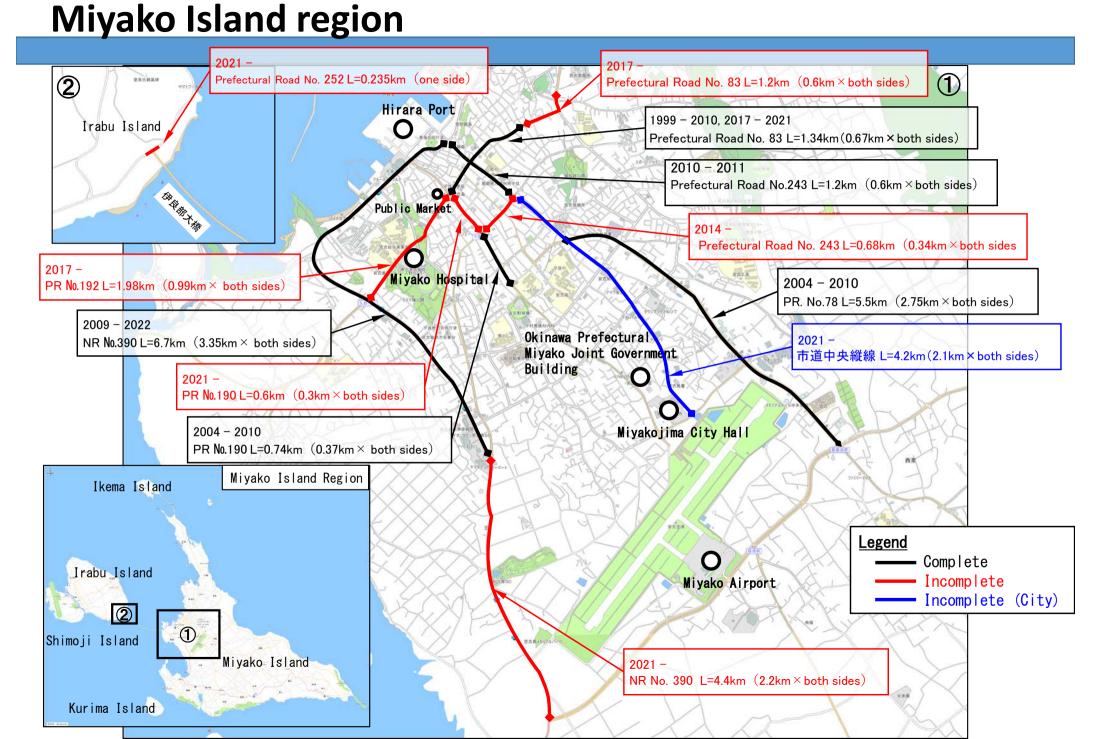
 This was a major impetus for the construction of common electrical cable ditch in the Miyako Island region.





# 3. Maintenance of electric cable common ditch in Miyako Island region

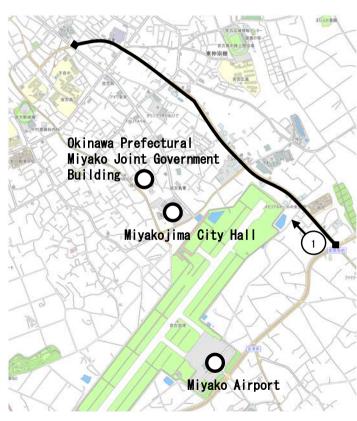
Maintenance plan of electric cable common ditch in



## Example of maintenance plan of electric cable common ditch in Miyako Island region (complete)

### Prefectural Road No. 78 (Taira-Gusukube Line)

- Project period: FY2004-FY2010
- Project length: 5.5km (road extension 2.75 km x both sides)



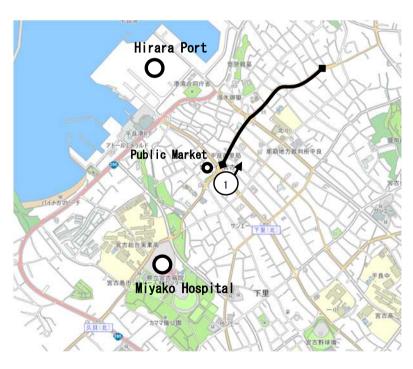


## Example of maintenance plan of electric cable common ditch in Miyako Island region (complete)

### Prefectural Road No. 83 (Bora-Nishizato Line)

Project period: FY1999 - FY2010

• Project length: 1.34 km (road extension 0.67 km x both sides)

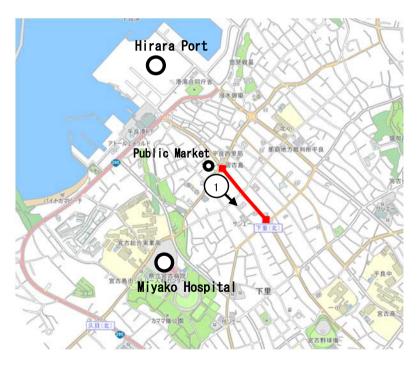




## Example of maintenance plan of electric cable common ditch in Miyako Island region (incomplete)

### Prefectural Road No. 190 (Hirara-Arazato Line)

- Project period: FY2021 \*Construction starts in 2023
- Project length: 0.6 km (road extension 0.3 km x both sides)





## Example of maintenance plan of electric cable common ditch in Miyako Island region (incomplete)

### Prefectural Road No. 192 (Hirara-HisamatsuPort Line)

- Project period: FY2017 -
- Project length: 1.98 km (road extension 0.99 km x both sides)

