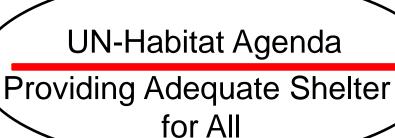


Sustainable Housing Environment
Development by Small Enterprise







We want to contribute!

Technology we can offer

- 1. NCZ foundation construction method with basement which is disaster resilient and strengthens the community J
- 2. Rainwater harvesting underground reservoir which can store clean rainwater easily



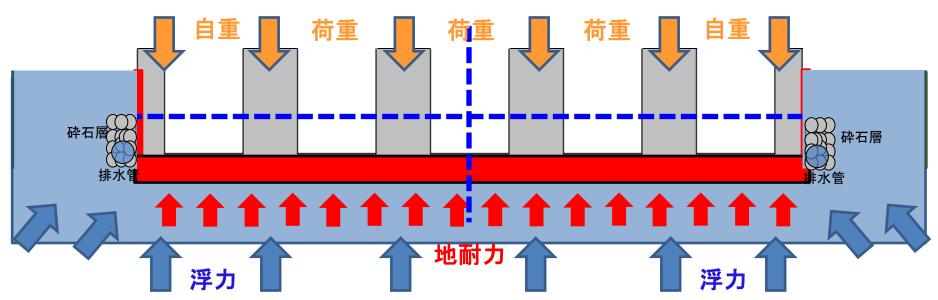
NCZ methods

- (1) Reduces CO2 emissions and disaster resilient reinforced grounds
- (2) Larger living space and stronger community ties

- NCZ foundation construction method with basement which is disaster resilient and strengthens the community
- (1) Reduces CO2 emissions and disaster resilient reinforced grounds

Reasons: A large and stable underground structure, regardless of the natural ground conditions

- ①大きな地下構造物で地耐力、摩擦力が大きいため地震に強い
- ②左右・上下のバランスの取れた構造体のため、偏心荷重が かかりにくく、不同沈下しにくい
- ③水を寄せ付けない構造のため液状化に強い
- 4 浮力とバランスするよう埋設の深さが調整できる



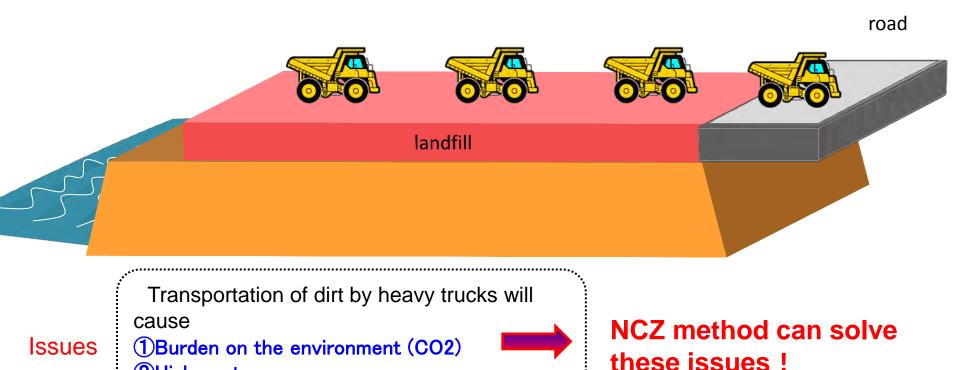
- NCZ foundation construction method with basement which is disaster resilient and strengthens the community
- (1) Reduces CO2 emissions and disaster resilient reinforced grounds

3Potential issues to transportation and safety

2High cost

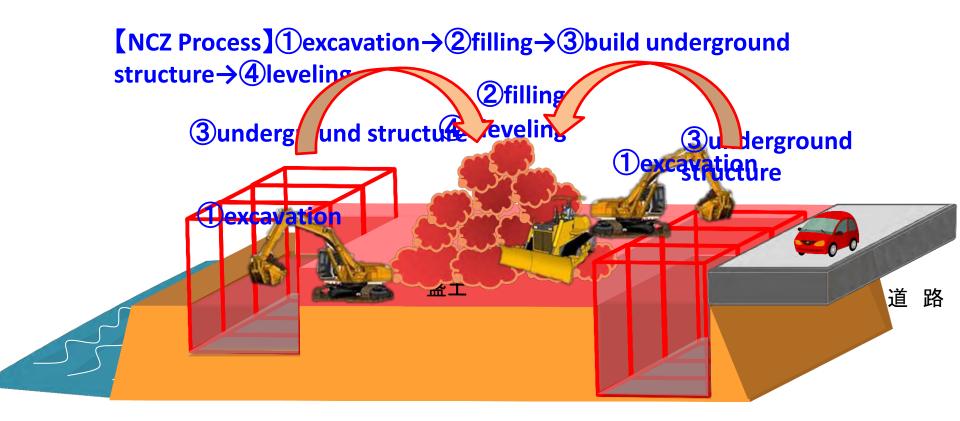
Construction example: when constructing settlements on low lands, near the river

The most common method is to transport dirt by heavy trucks to the sight



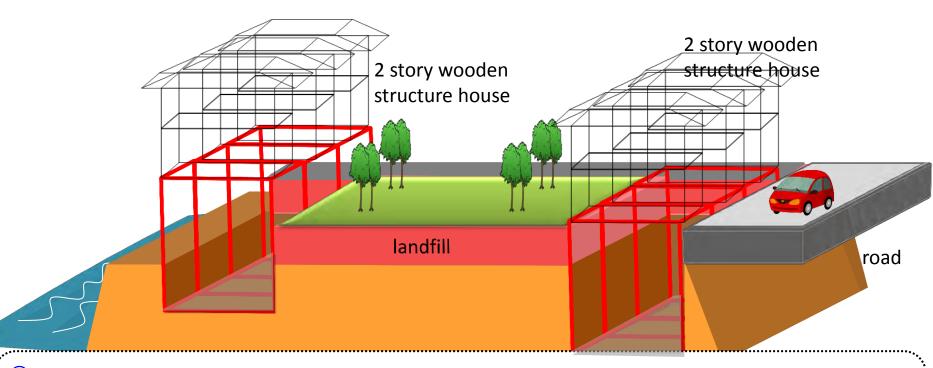
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Construction example: when constructing settlements on low lands, near the river

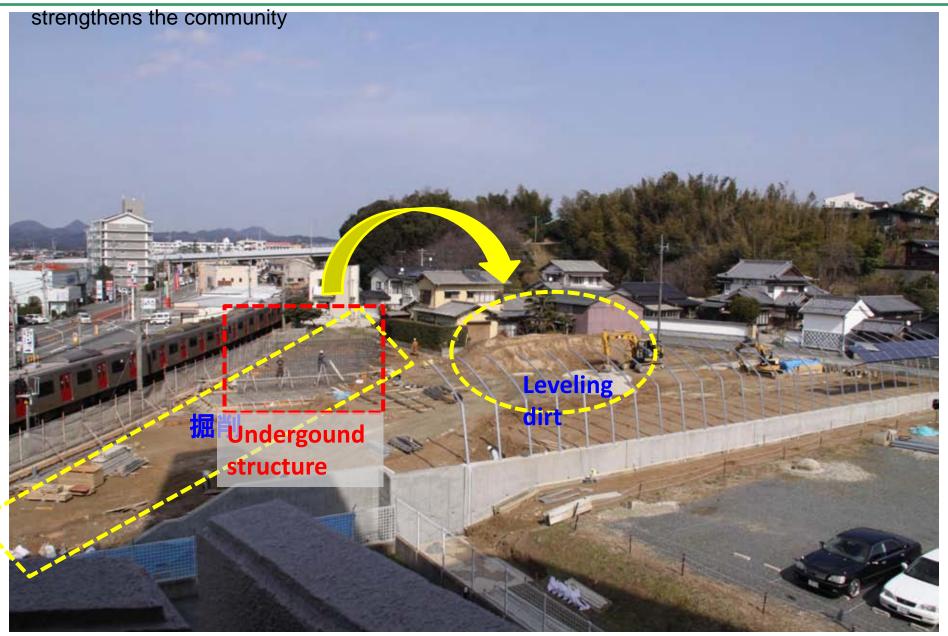


- 1. NCZ foundation construction method with basement which is disaster resilient and strengthens the community
- (1) Reduces CO2 emissions and disaster resilient reinforced grounds

Construction example: when constructing settlements on low lands, near the river



- 1 Because it uses the dirt within the property, it minimizes the use and transportation of dirt transported from elsewhere.
- ②Because the underground structure plays the role of firming the dirt, it creates a strong foundation even in fragile locations.
- 3 Because it can raise the height of the property it will be more resilient to floods





地下工作物の鉄筋組立ての様子



地下工作物の断熱型枠材を施工する様子







平成24年6月現地