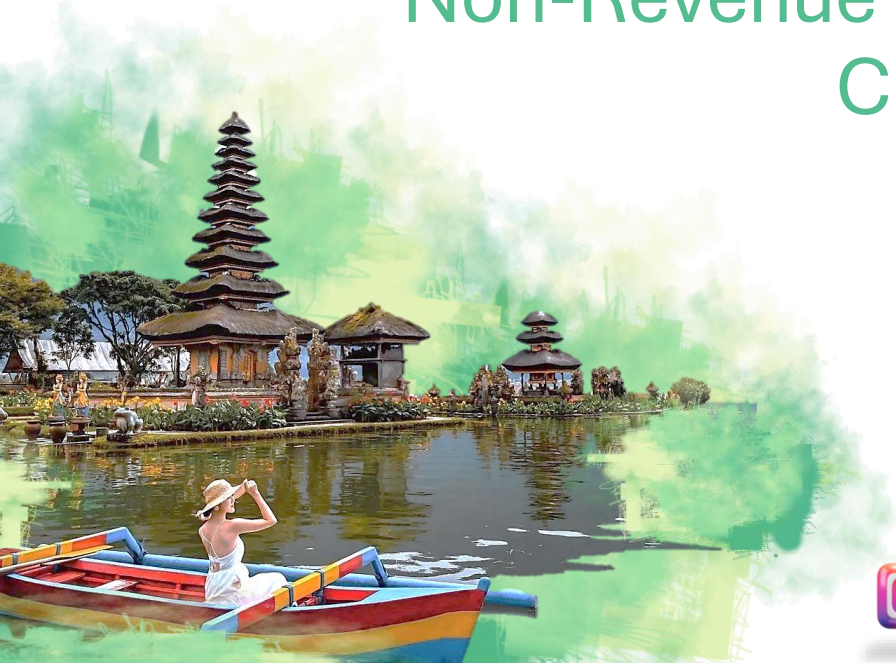




# PROJECT DIGEST :

Non-Revenue Water (NRW) Reduction of Denpasar  
City Water Supply System



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# Project Brief

## Background

The water loss (Non-Revenue Water or NRW) in Denpasar City is significantly high, reaching 38%, which diminishes the benefits experienced by customers. Additionally, only about 67.84% of Denpasar City's population, equating to 89,509 customers (both Domestic and Non-Domestic), utilize drinking water from the Regional Company of Denpasar City, with the remainder opting for drilled wells. Therefore, the project to reduce the NRW and increase utilization of drinking water from Perumdam in Denpasar City water supply system is needed.

### Government Contracting Agency

Mayor of Denpasar City  
c.q Perumda Air Minum Tirta Sewakadarma

### PPP Scheme

Debt – Build – Finance – Maintenance – Transfer (DBFMT)

### Project Scope

#### Production Unit Section

1. Improvement of Water Treatment Plant (IPA) and Bore Wells

2. Monitoring and Control of Prima Drinking Water Zones

#### Distribution and Service Unit Section

1. Asset Revitalization for Reducing Water Loss (NRW)
2. Development of Distribution Unit (Service Expansion)

### Service Coverage

Denpasar City (North, East, West, and South region)

### Status/Stage

Finalizing feasibility study document

### Project Cost

(Drinkable): USD 54,9 Mil

### IRR

11,59%

### Investment Return Scheme

Revenue Sharing

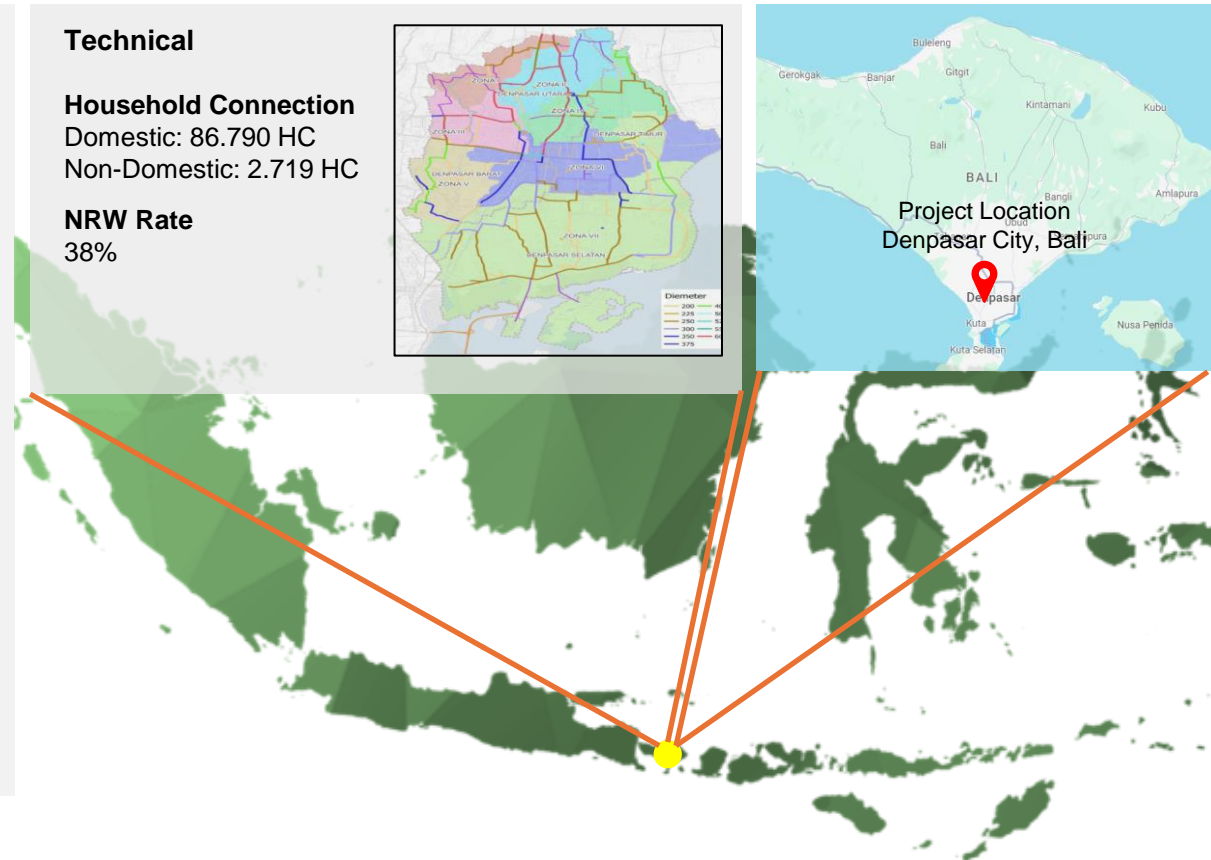
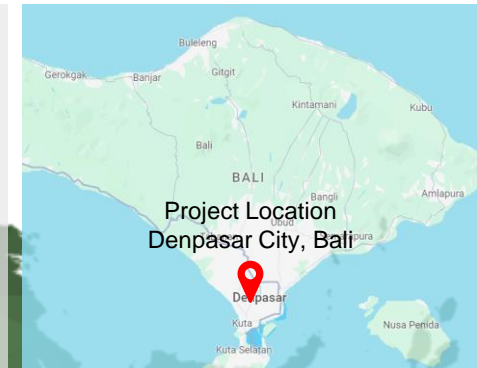
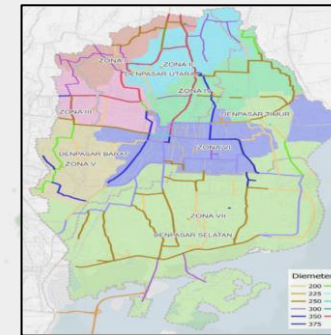
### Concession Period

20 years (including 4 years construction)

### Technical

**Household Connection**  
Domestic: 86.790 HC  
Non-Domestic: 2.719 HC

**NRW Rate**  
38%



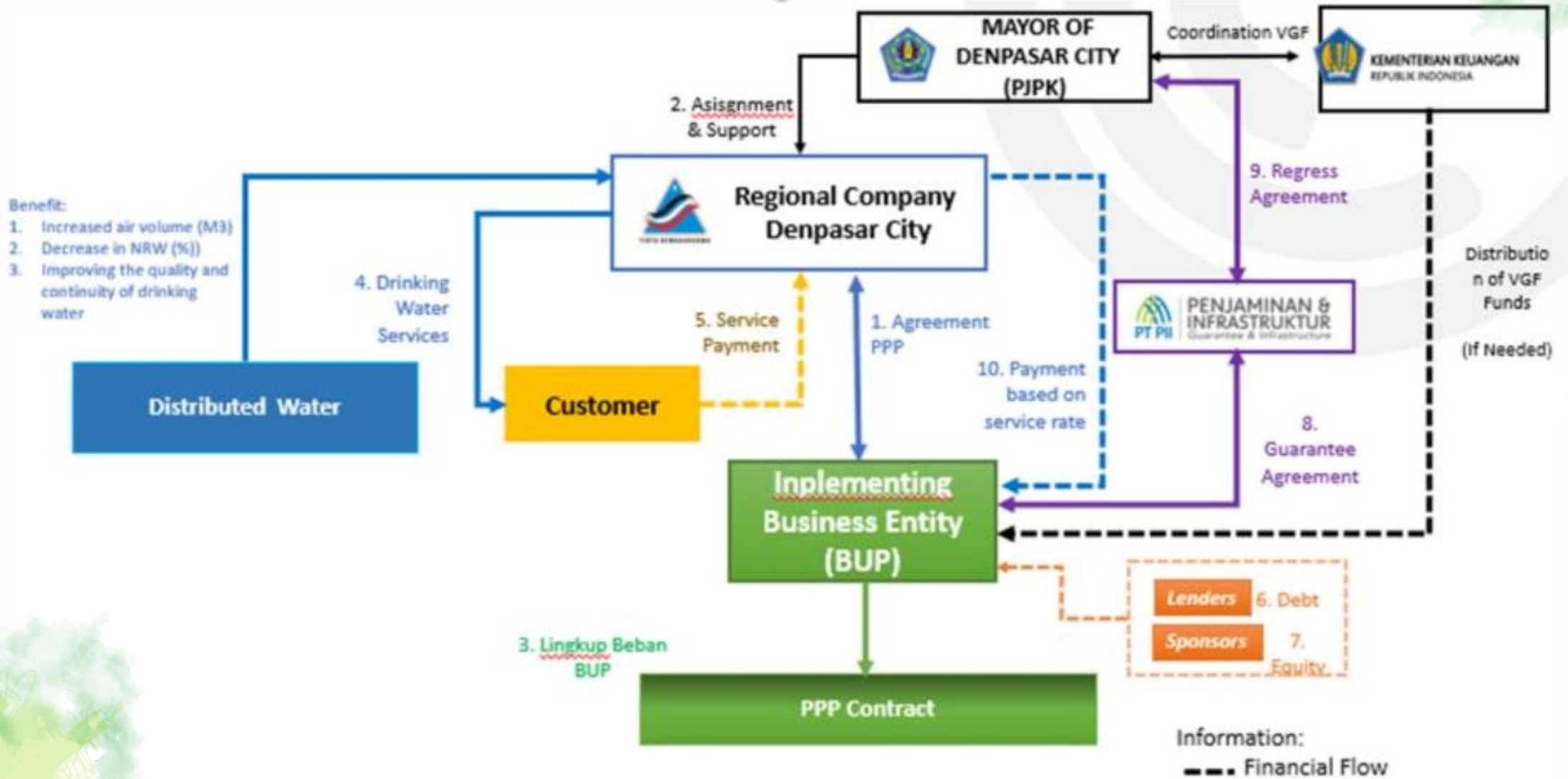
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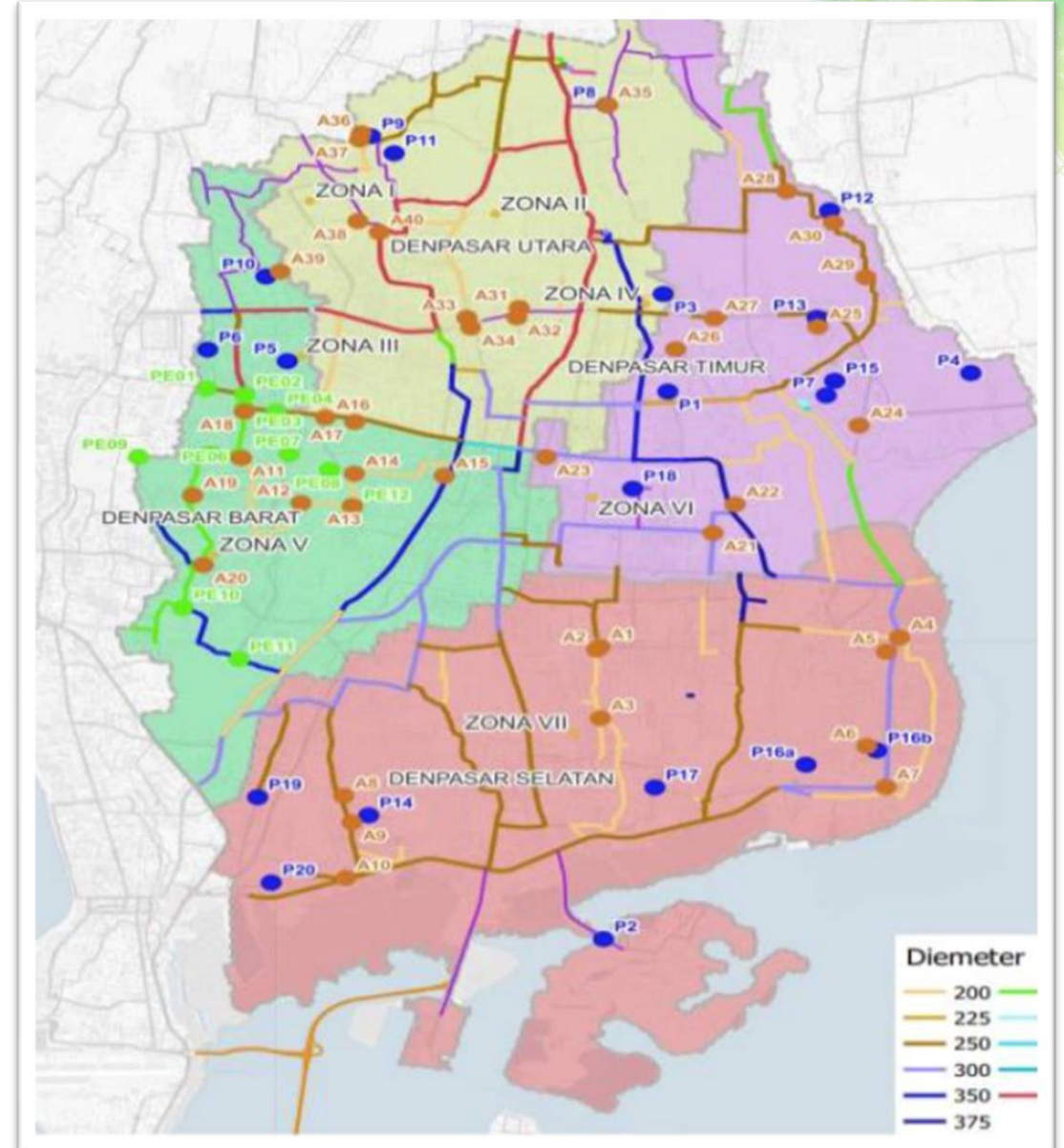
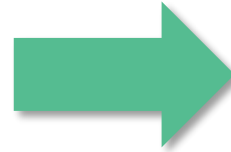
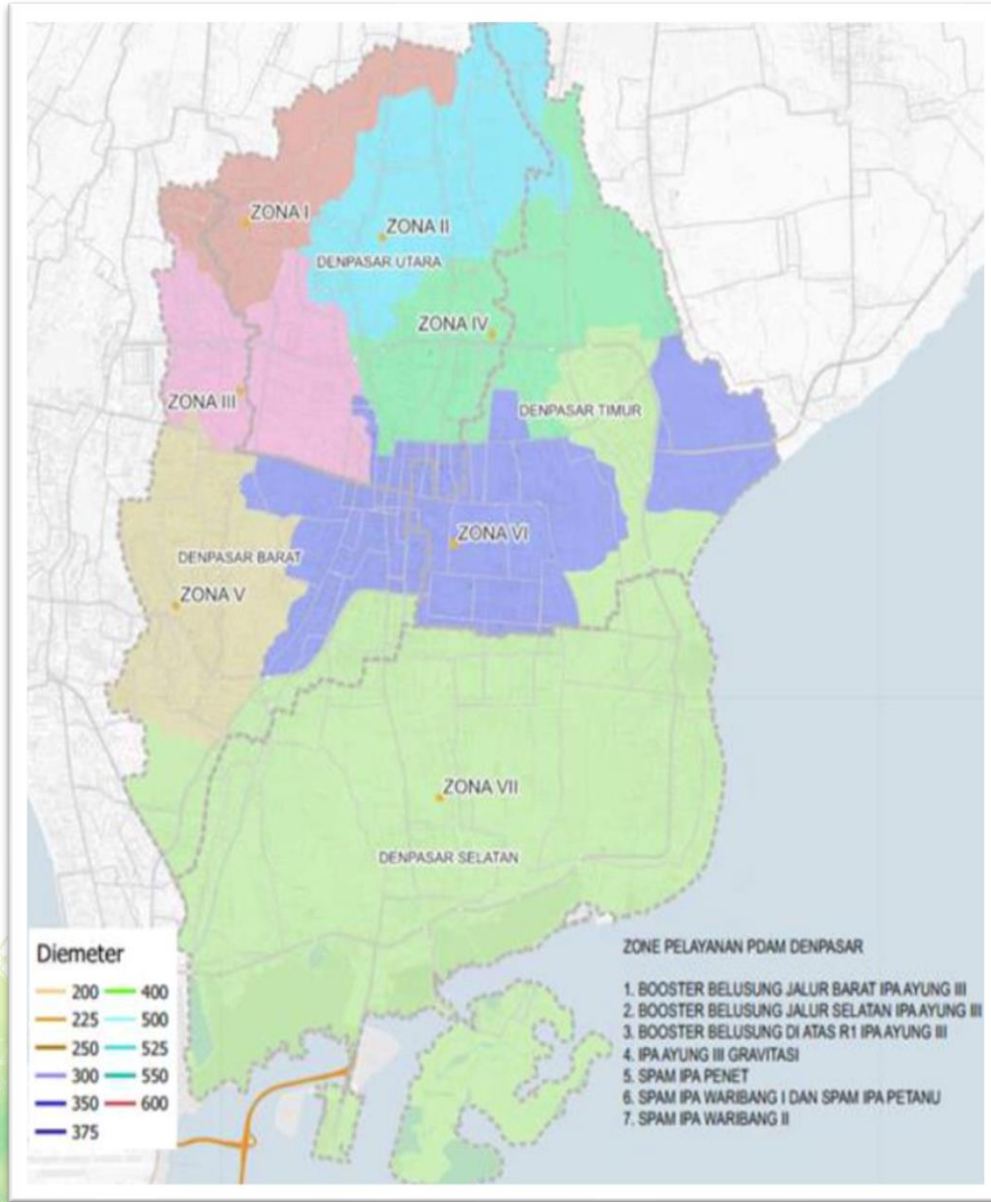


# Project Structure





# Project Illustration





# Project Scope

## Production Units

- a. Improvement of WTP and drilled wells
- b. Monitoring and controlling the Prime Drinking Water Zone (ZAMP) to Improve the quality of drinking water, quantity and continuity of service

## Distribution and Service Unit

- a. Revitalization of water loss reduction (NRW) assets
  - Formation and Improvement of Zoning and NRW Control
  - Development of District Meter Area (DMA)
  - Rehabilitation of Distribution Networks, Primary, Secondary and tertiary (ACP and PVC pipes with leaks)
  - Service pipe rehabilitation
- b. Distribution Unit Development (Expansion of services)
  - Plan to build 2 units of Reservoir Kap. 5000 M3 (West Denpasar Zone 5 and South Denpasar Zone 7) and 1 unit of Reservoir on Jln. Gunung Mas (Denpasar Barat Zone- 3) Cap. 3000 M3.
  - Expansion of the distribution network/development of new service areas.

## O&M and Transfer

- a. Operation and maintenance of pipeline networks, reservoir buildings and monitoring system equipment are collaborated.
- b. Maintain the service quality of the drinking water development system according to the agreed standards.
- c. Transfer of assets and transfer of knowledge at the end of the cooperation period according to PPP Agreement





# Project Schedule

## Indicative Project Schedule

Pre-Qualification  
Q1 2025

Request for  
Proposal Q1 2025

Bid Award Q3 2025

Agreement Signing  
Q4 2025

Financial Close Q1  
2026

Construction Q1  
2026



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# THANK YOU



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