

# FLOOD MANAGEMENT

CONCRETE SOLUTIONS

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# AGENDA

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- The growing threat of floods
- Benefits of precast concrete solutions
- Precast concrete reservoirs
- Comparison with alternative solutions
- Future developments in flood management

## THE GROWING THREAT OF FLOODS

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- Rapid urbanization
- Climate change
- Outdated or undersized drainage systems

# THE GROWING THREAT OF FLOODS



## BENEFITS OF PRECAST CONCRETE SOLUTIONS

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- Durability & strength
  - Flexibility in design and construction
  - Low maintenance
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## PRECAST CONCRETE RESERVOIRS

- Minimal cover height
- Low maintenance

Easy to incorporate additional features

- Water control gates
- In- and outlet structures
- Overflow systems
- Combine with oil/heavy metal separator



## COMPARISON WITH ALTERNATIVE SOLUTIONS

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### Precast concrete

- Durability and strength
- Flexibility in design and construction
- High density
- Long lifespan

### Plastic

- Easier to handle
  - Resistant to corrosion and chemicals
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## FUTURE DEVELOPMENTS IN FLOOD MANAGEMENT

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- Integration of technology
- Sustainable designs
- Enhanced simulations



## CONCLUSION

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- Flood management is a pressing challenge that requires proactive solutions.
- Precast concrete solutions offer a reliable, versatile, and durable approach to mitigating flood risks.
- By embracing advancements in technology, sustainable practices, and collaborative efforts, we can pave the way for a safer and more resilient future.

