

FLOOD MANAGEMENT

CONCRETE SOLUTIONS

OSCAR EKEFÄLL
DEVELOPMENT ENGINEER, S:T ERIKS



AGENDA

- 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

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- Outdated or undersized drainage systems

THE GROWING THREAT OF FLOODS



BENEFITS OF PRECAST CONCRETE SOLUTIONS

- Durability & strength
- Flexibility in design and construction
- Low maintenance

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

Precast concrete

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

Plastic

- Easier to handle
- Resistant to corrosion and chemicals

FUTURE DEVELOPMENTS IN FLOOD MANAGEMENT

- Integration of technology
- Sustainable designs
- Enhanced simulations

CONCLUSION

- 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.

