

Watermaster

THE AMPHIBIOUS MULTIPURPOSE DREDGER

Harri Uusi-Rauva
Vice President, Sales
Watermaster Finland

Watermaster – Proven technology

- Watermaster is the First Amphibious, Multipurpose Dredger
- 1986 the first Watermaster produced
- today the 5th generation on production –Watermaster Classic V
- now the same is available as Jones Act compliant for US-market– Watermaster AMD 5000

Watermaster Classic V – Made in Finland



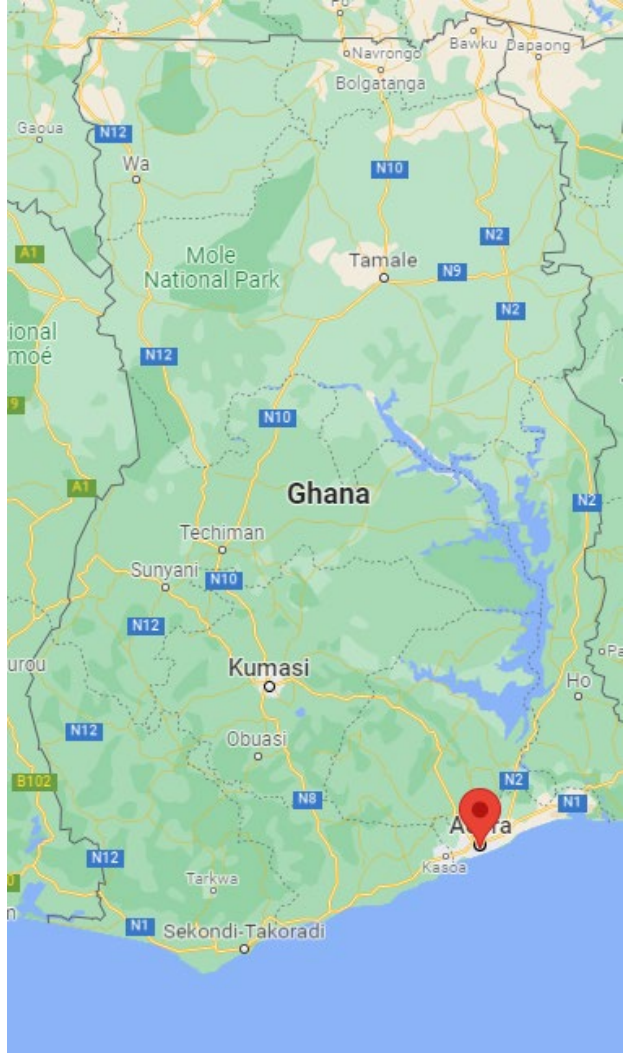
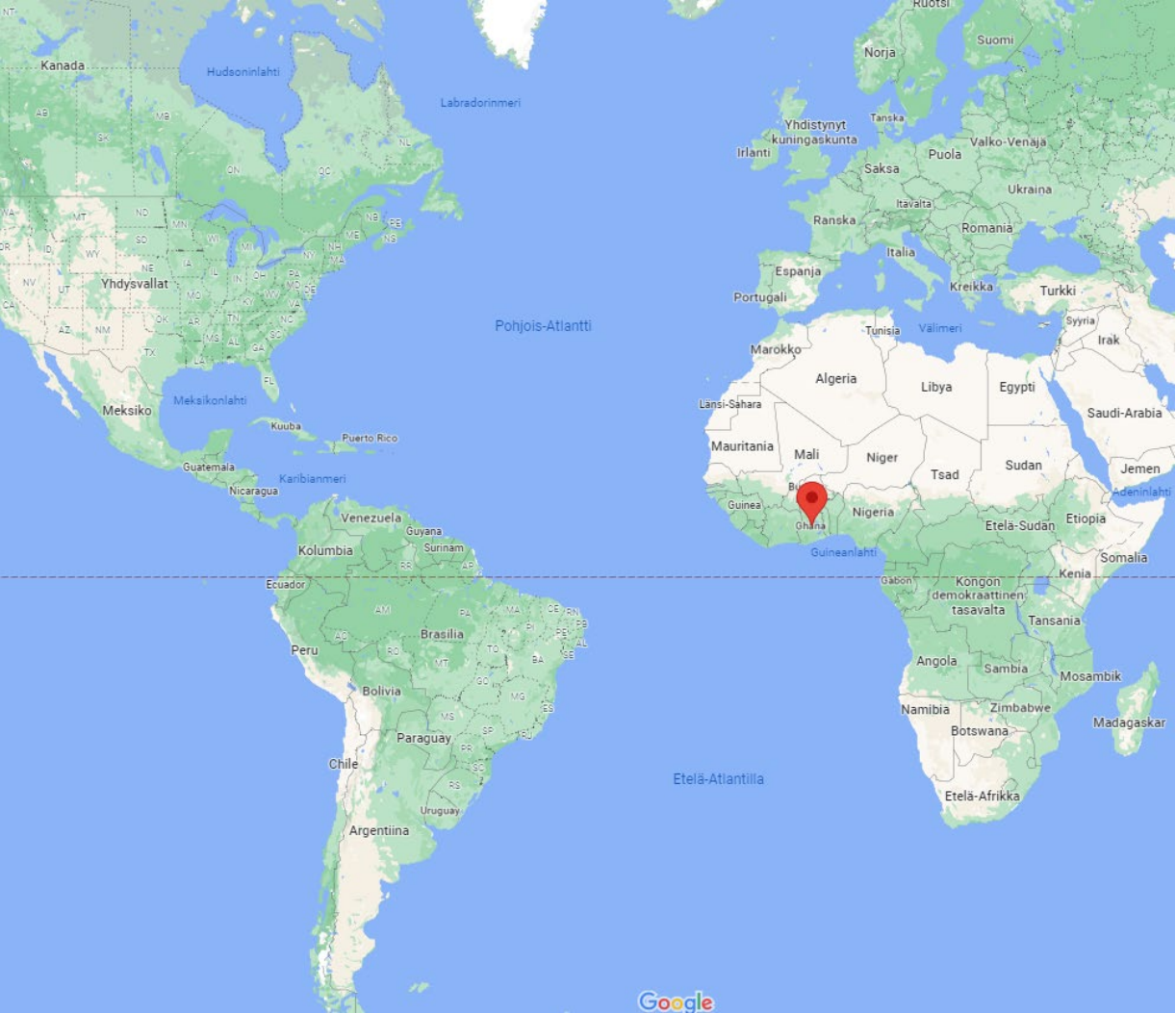
Watermaster AMD 5000 – Made in US



Watermaster – Proven technology



Case Ghana, Accra, Odaw river – Solving chronic flooding



Case Ghana, Accra, Odaw river – Solving chronic flooding

Purpose of the project was to remove polluted silt and trash out of waterways and prevent flooding



Case Ghana, Accra, Odaw river – Solving chronic flooding

Removing the material by excavating.



Removing the material by suction dredging.



Case Ghana, Accra, Odaw river – Solving chronic flooding

Work site after the dredging work was done.

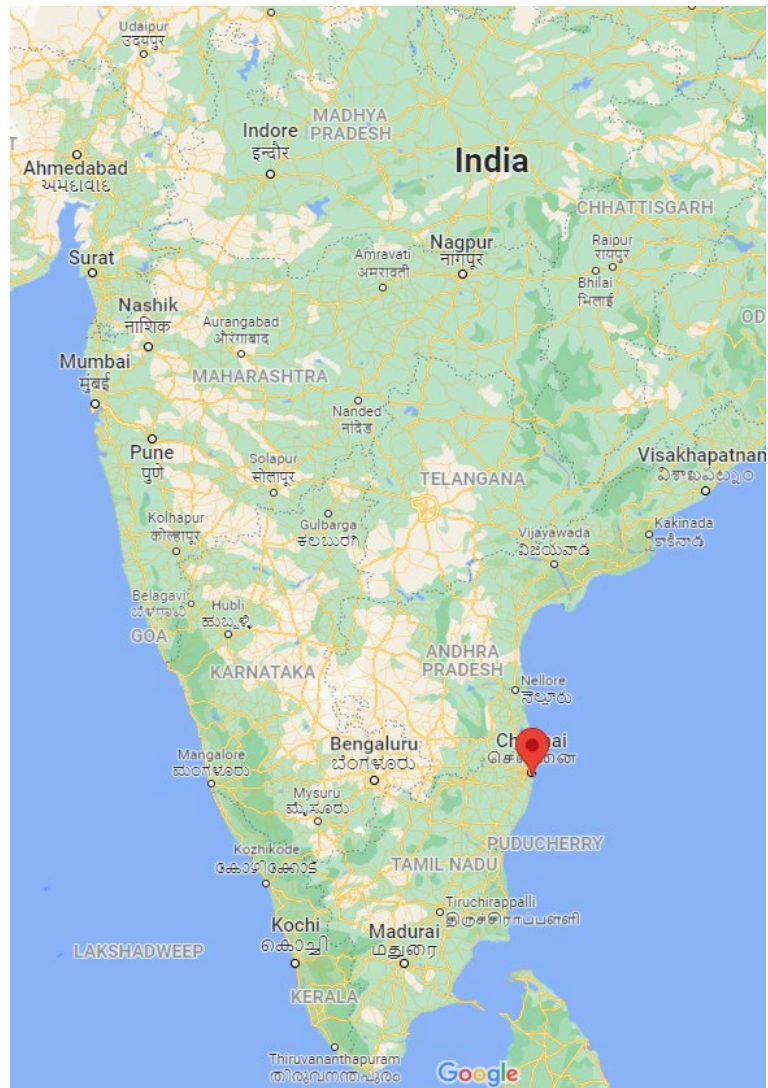
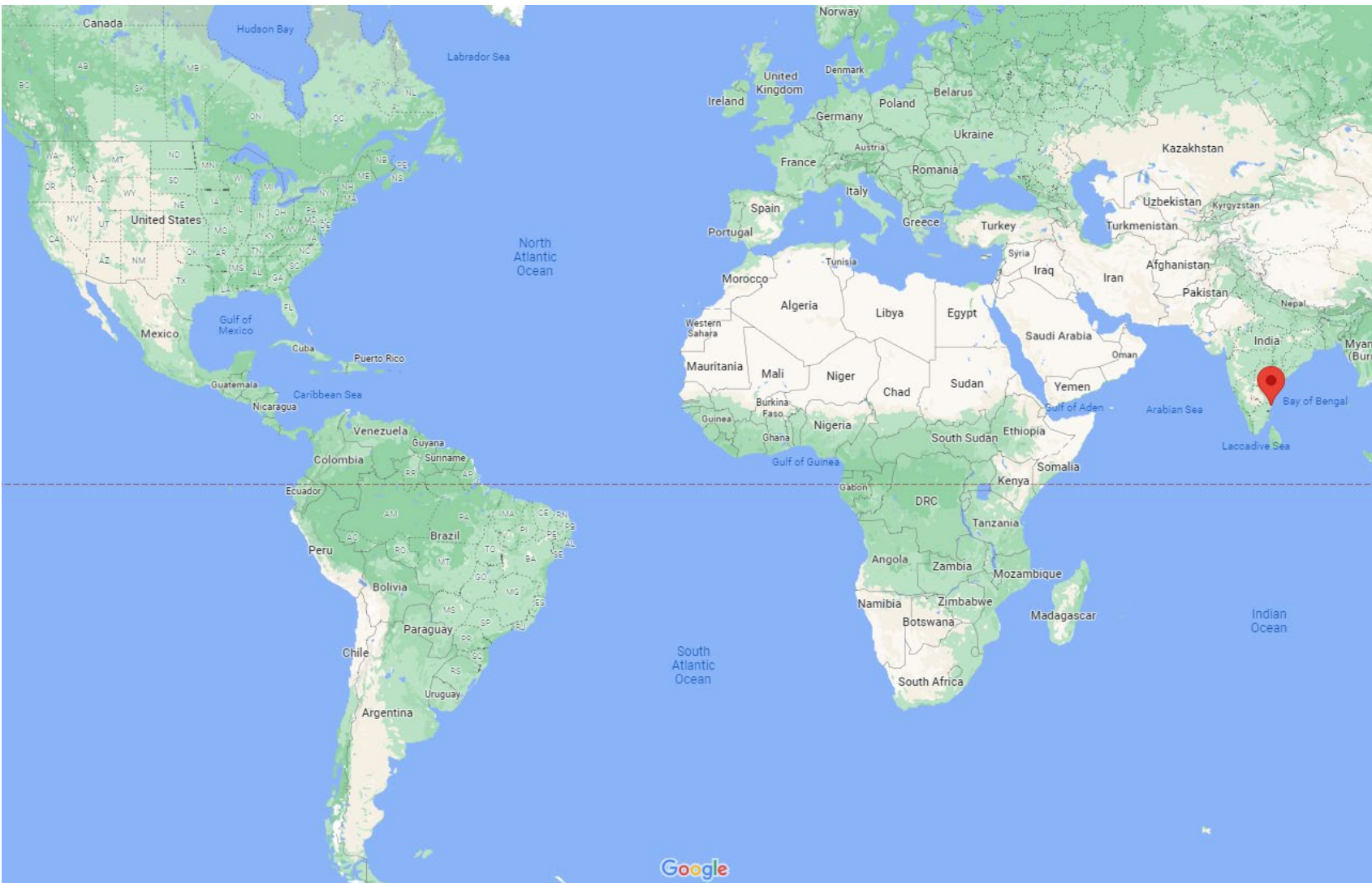


Case Ghana, Accra, Odaw river – Solving chronic flooding



- Excessive amount of waste and silt restricts the free water flow in the Odaw river
- June 2015 the most devastating disaster occurred. The clogged Odaw river could not handle three days of heavy rain, leading to severe flooding in the city.
- 120 people died and local infrastructure and private properties suffered massive damage
- Between **2016** and **2018** **over 1 250 000 cubic yards of silt and rubbish** was removed from the Odaw river and Korle lagoon
- The project has **benefit approximately over 2,5 million people** in the Odaw river basin
- Situation is now better, but still yearly maintenance dredging is required

India, Chennai – Cleaning waterways



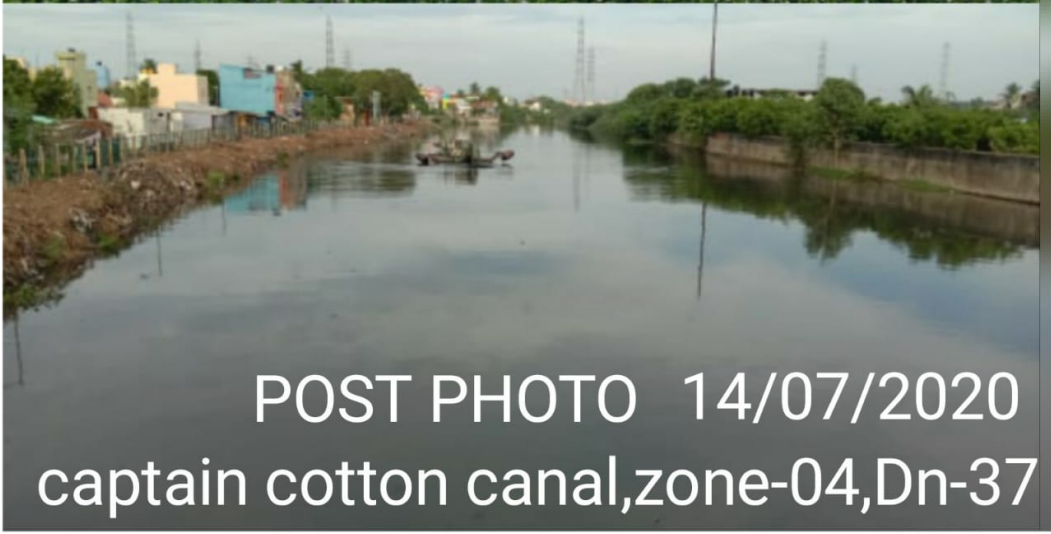
India, Chennai – Cleaning waterways

Purpose of the project was to remove polluted silt, water hyacinth and trash out of waterways and prevent flooding



India, Chennai – Cleaning waterways

1 week work



2 days work



India, Chennai – Cleaning waterways

1 week work



1 week work

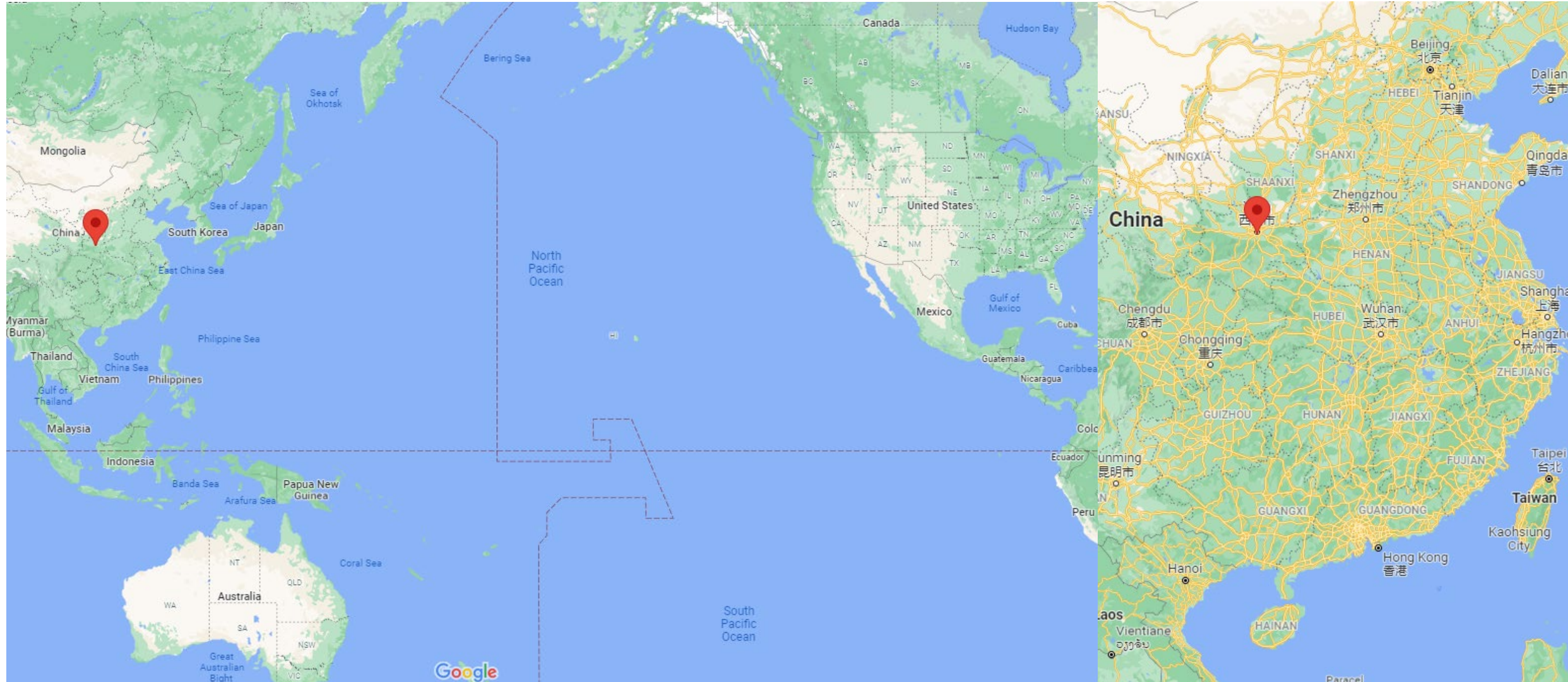


India, Chennai – Cleaning waterways



- 5 million people living on Chennai metropolitan area
- First Watermaster was delivered 2016 for cleaning Chennai's waterways
- During the first **36 month**, Watermaster operated **13 500 hours** and removed **2,7 million tons** of polluted silt, water hyacinth and trash out of waterways
- Second Watermaster was delivered for the same work 2020
- At the moment, Chennai is planning to procure several Watermasters for maintaining the waterways network

China, Xi'an, Peach Blossom Pool Park – restoration work in urban river



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river

The goal was to speed up the flow rate of the river, improve the ecological condition and restore the aquatic environment



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river

The first thing was to widen the river and remove construction debris from the bottom of the river. This process took half a day and about 10 000 cubic feet of construction waste was cleaned. In four and a half days, an area of 10 acres was cleaned from vegetation and household waste.



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river

Actual cutter suction dredging was done by Watermaster + transportation by pipeline + dewatering by Geotubes. This combination made it possible to meet the strict requirements of environment dredging and ensured high dewatering efficiency.



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river

Dredged material was pumped into dewatering tubes. All the dewatered sludge was used for gardening and landscape reconstruction



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river

The work site **before** and **after** the dredging work.



China, Xi'an, Peach Blossom Pool Park – restoration work in urban river



- The goal was to speed up the flow rate of the river, improve the ecological condition and restore the aquatic environment
- **10 000 cubic feet** of construction waste was cleaned by **excavating**
- **10 acres** of vegetation and household waste had been cleaned by **raking**
- **19 600 cubic yards** suction dredged into dewatering tubes used for landscape reconstruction
- Project completed in 20 days
- **All this was done with one Watermaster**

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More information:

www.watermasterna.com