

[TETI]

Proposal for Water Treatment System in MOKWA



NEXT

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The [TETI]™ project recognises the link between water and man as something inseparable and indispensable for life. We have gradually learned to manage water as an asset, a very slow process that can only begin with cultural and technical evolution.

Our very existence depends on water - water to drink and water to cultivate - and all this is based on fresh water from rivers, rain-fed agriculture and ecosystems. Supplies of uncontaminated fresh water are needed to ensure standards of hygiene and safety for food and human health.

The sustainable and equitable management of water resources is a key element of sustainable food systems and is essential for the clear achievement of social and personal improvement. Water scarcity (the imbalance between freshwater supply and demand) and water quality problems increasingly threaten food security and nutrition through their impact on food systems - from agricultural production to food processing, households and consumers. At the same time, persistent and severe droughts, exacerbated by climate change, are causing increasingly severe water shortages in rain-fed agriculture, putting the livelihoods of rural people at greater risk by reducing crop and livestock yields.

As stated in "The State of Food and Agriculture 2020" report, water scarcity and poor water quality is a SOLVABLE problem.

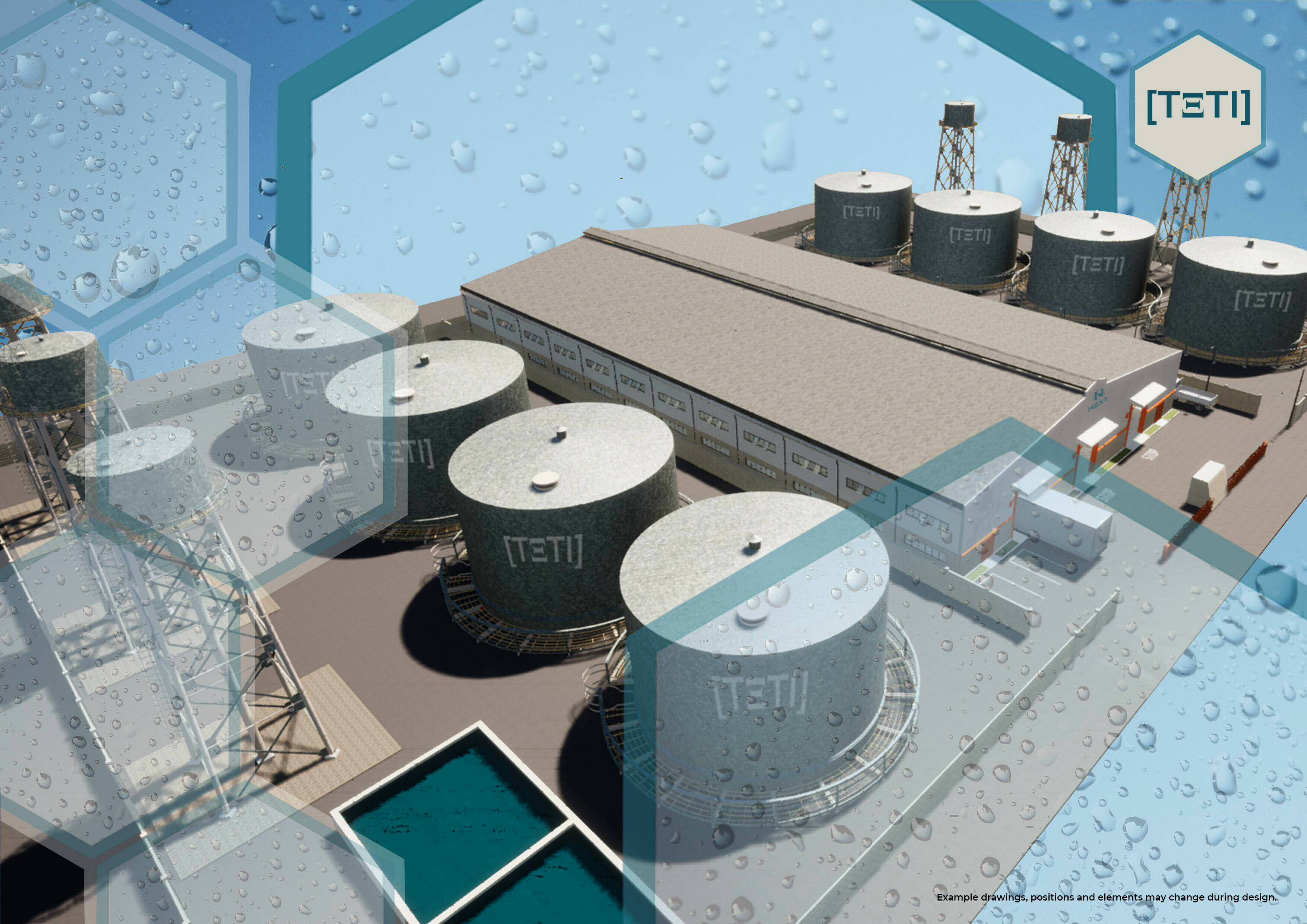
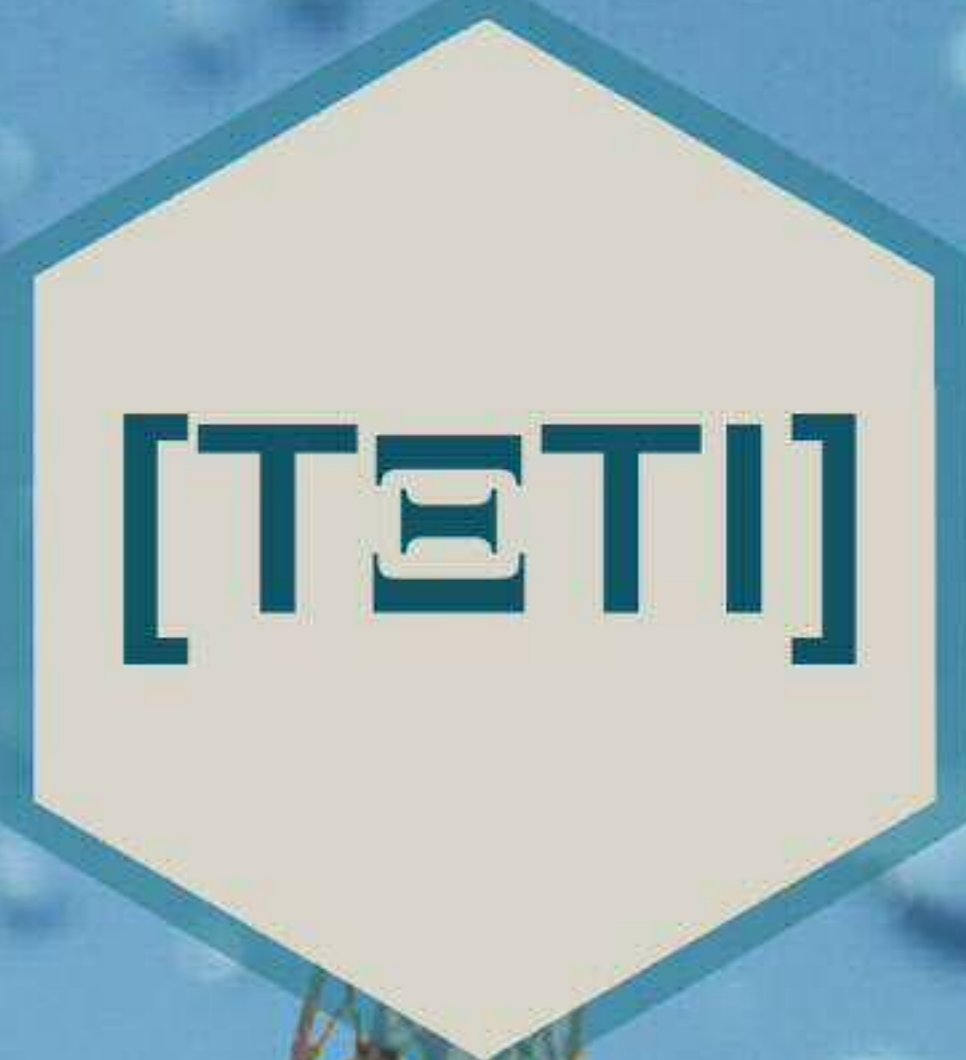
This is [TETI]™ a complete and professional treatment system solution.

“Access to water is a common goal. It is central in the social, economic and political affairs of the country, African continent and the world. It should be a lead sector of cooperation for world development. No water, no future...”

A complete and complex system capable, in a completely automatic way, of managing water supply and quality control.



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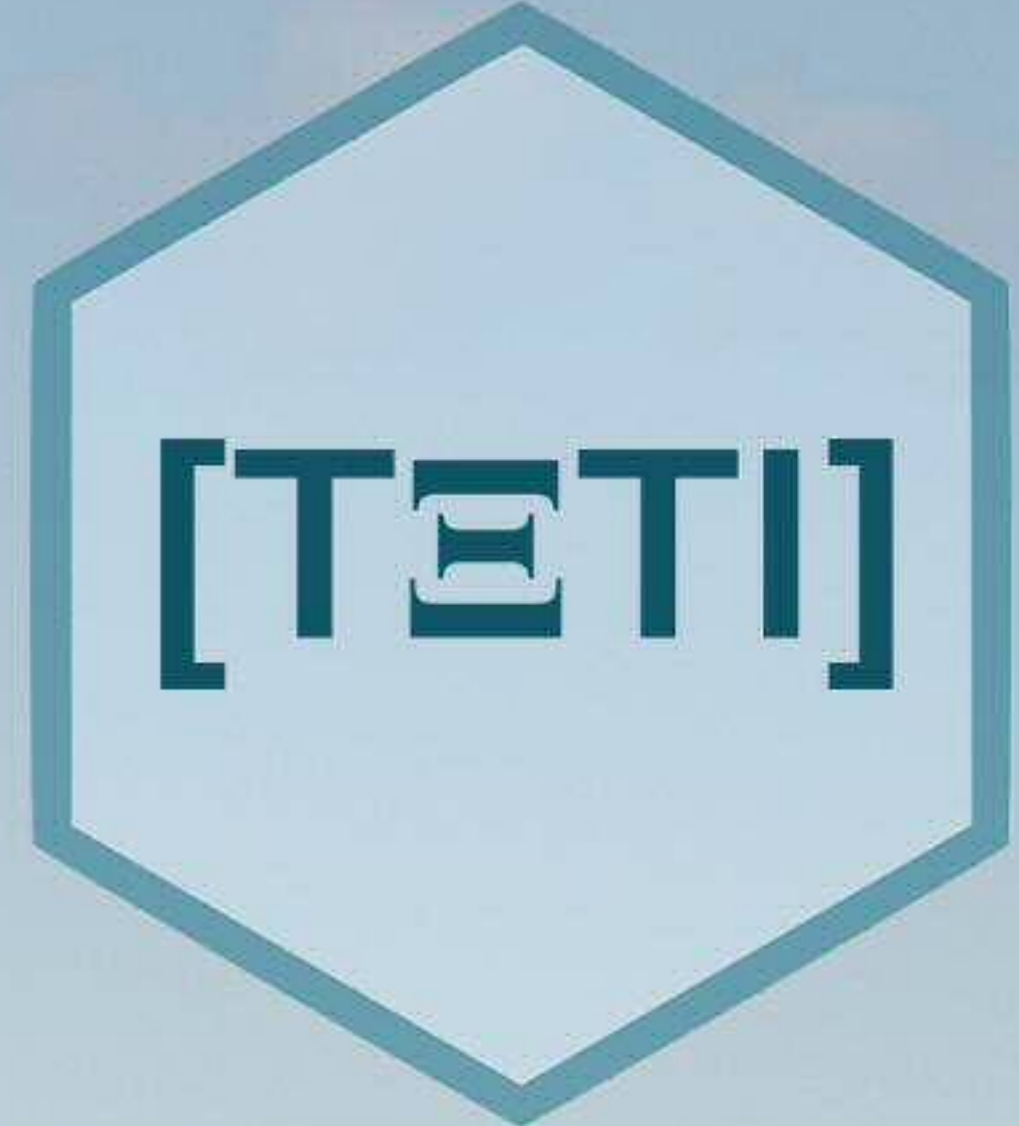
Example drawings, positions and elements may change during design.

*... an ordered system of elements, between
architectural and technological. A synergy of
systems that harmoniously create a unique
product.*



NEXT

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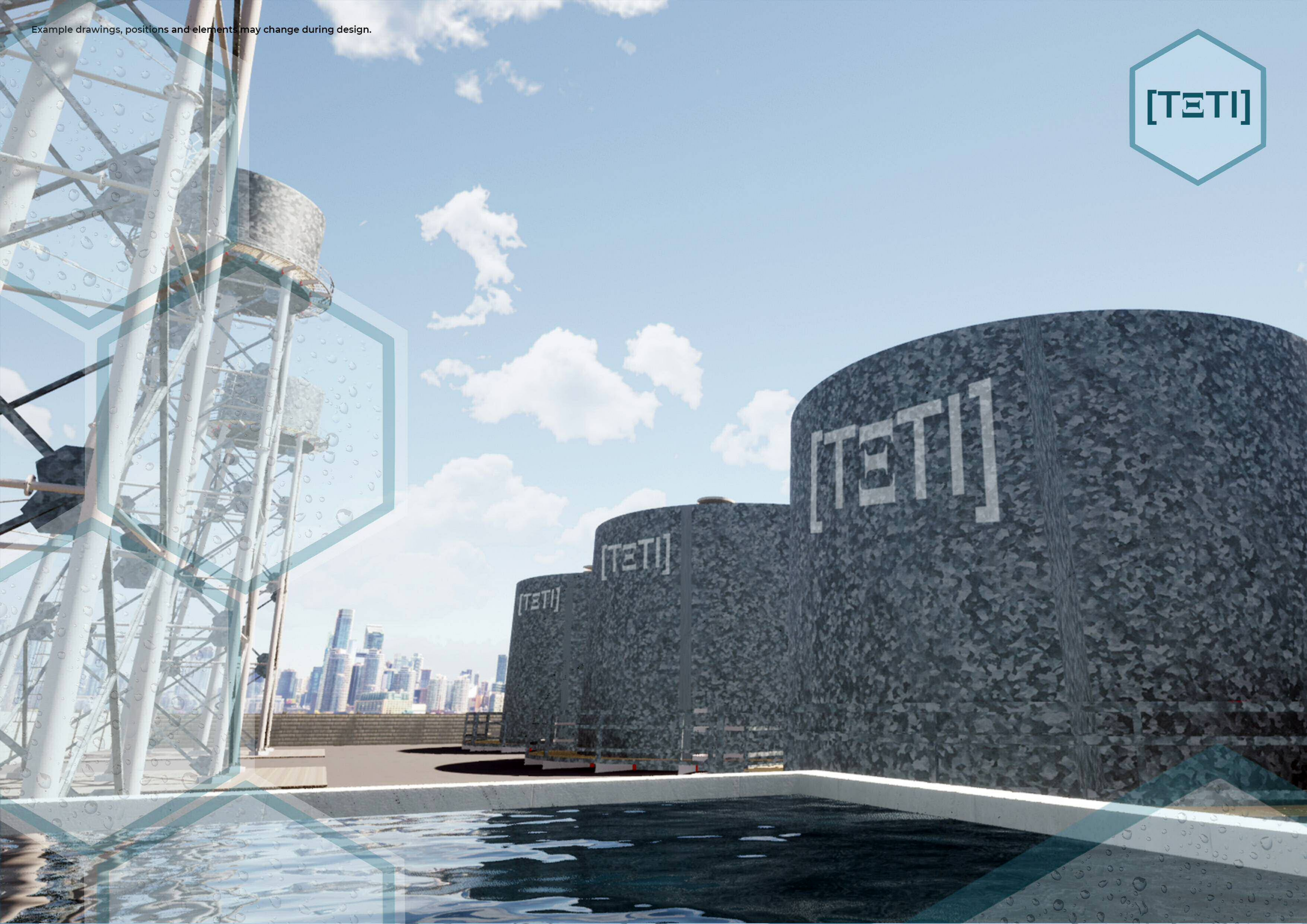
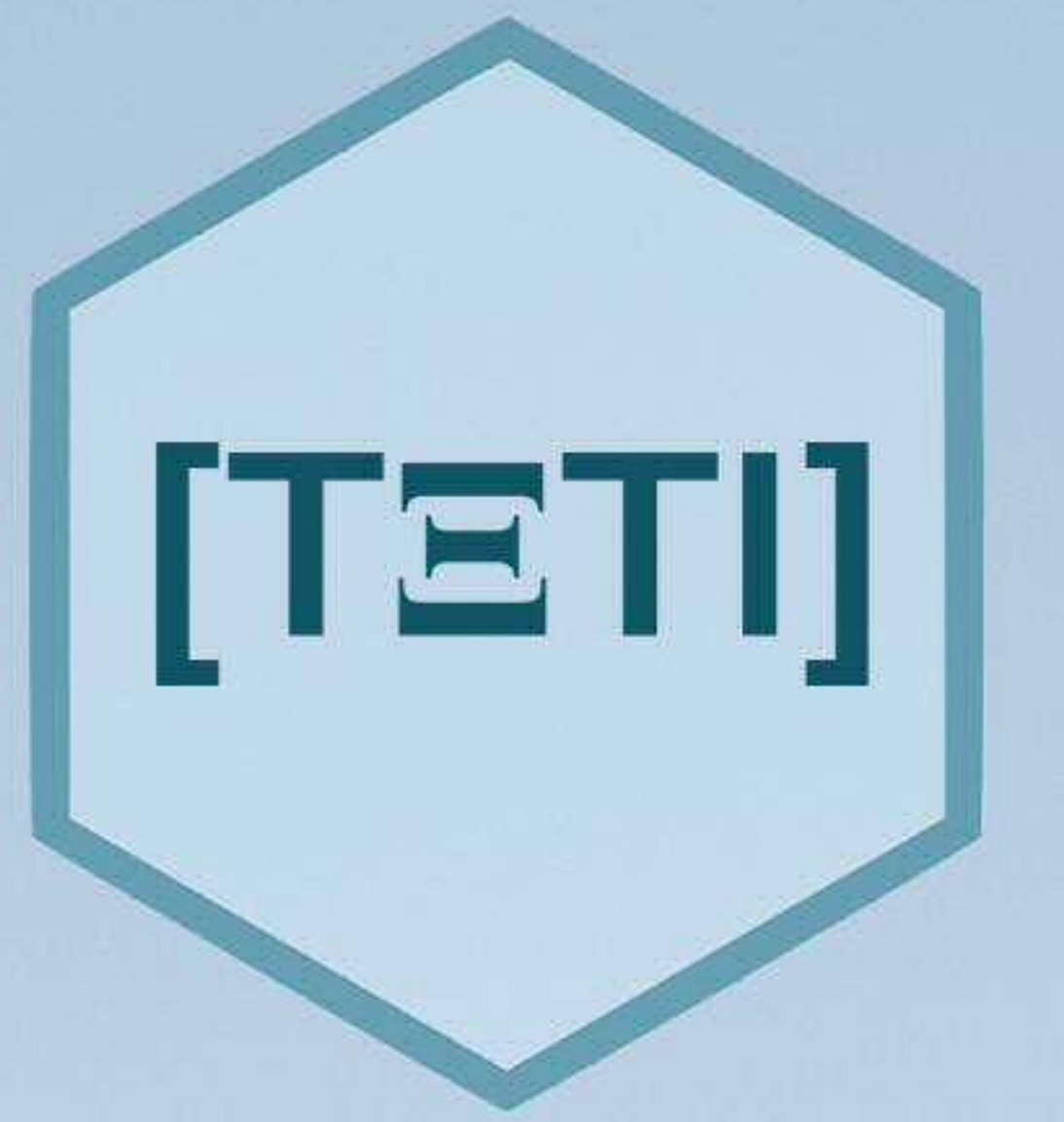


An expandable system that will follow the population as it evolves in the future, ensuring prosperity and a social base.



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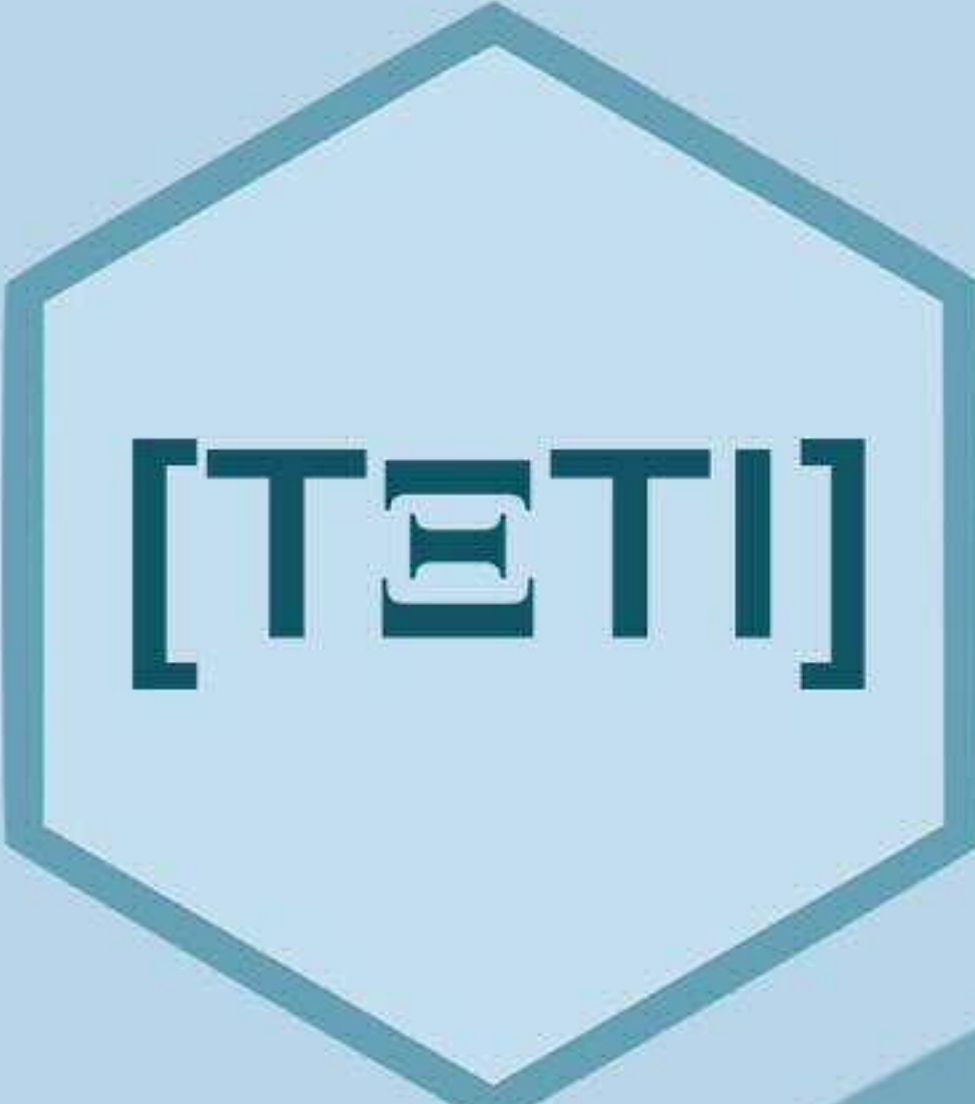


[TETI]

*The planning and design for a high
level result of project*



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PREDISPOSITION
FROM FUTURE
EXPANSION

POTABLE WATER
STORAGE TANKS

MAIN WATER
TREATMENT BUILDING

OXIDATION TANKS

DESANDER

PRESSURE
BOOSTING TOWERS

Example drawings, positions and elements may change during design.

Based on the initial design requirement of approximately 1,000,000 litres per hour, the choice fell on a scalable system of 200m³/hour. Each system works as an independent system both from the purely electrical side and from the functional and therefore automation side. Each individual part of the 200m³ subsystem is designed not to interfere with the work of the other subsystems, but rather, in the event of a fault or anomaly that cannot be automatically remedied by the automation system, the individual system contributes to solving the problem and to production fulfilment.

The distribution in independent racks, ample maintenance space and the installation of two bridge cranes capable of handling even large parts in a simple manner, allows Next's [TETI]™ system to guarantee time and safety in the finished product.

An intentional supervision system, together with a well-oiled automation system, guarantees together with the excellent product a plant capable of pursuing ambitious results with quality and durability.



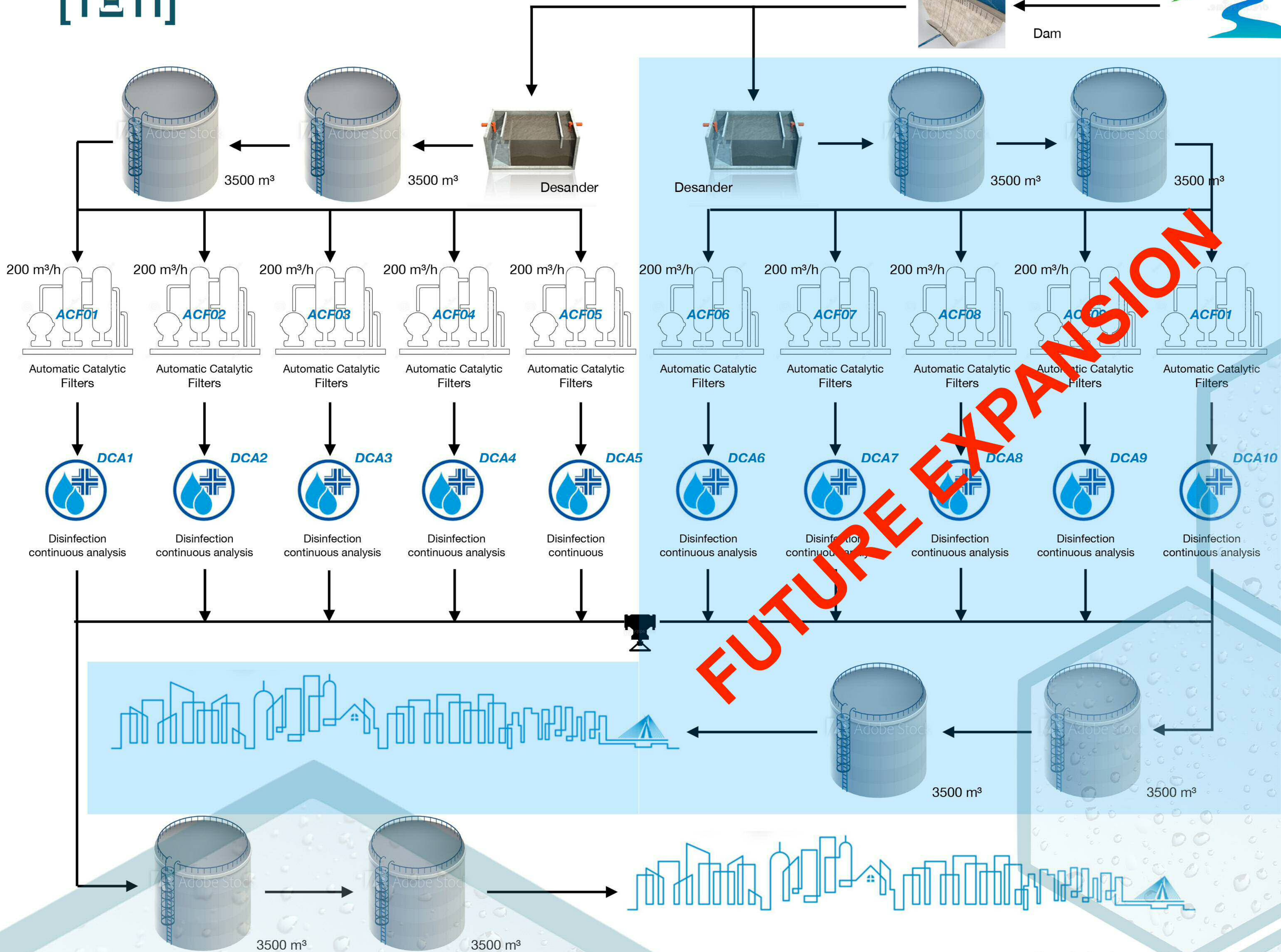
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Dam



River



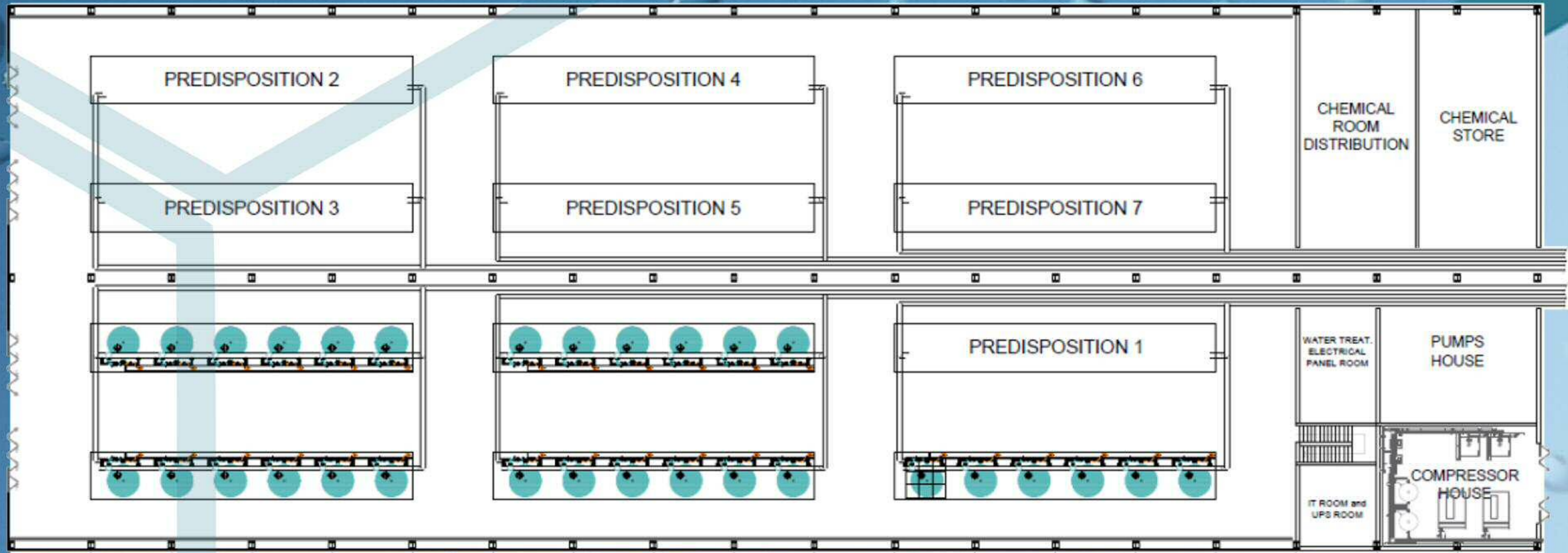
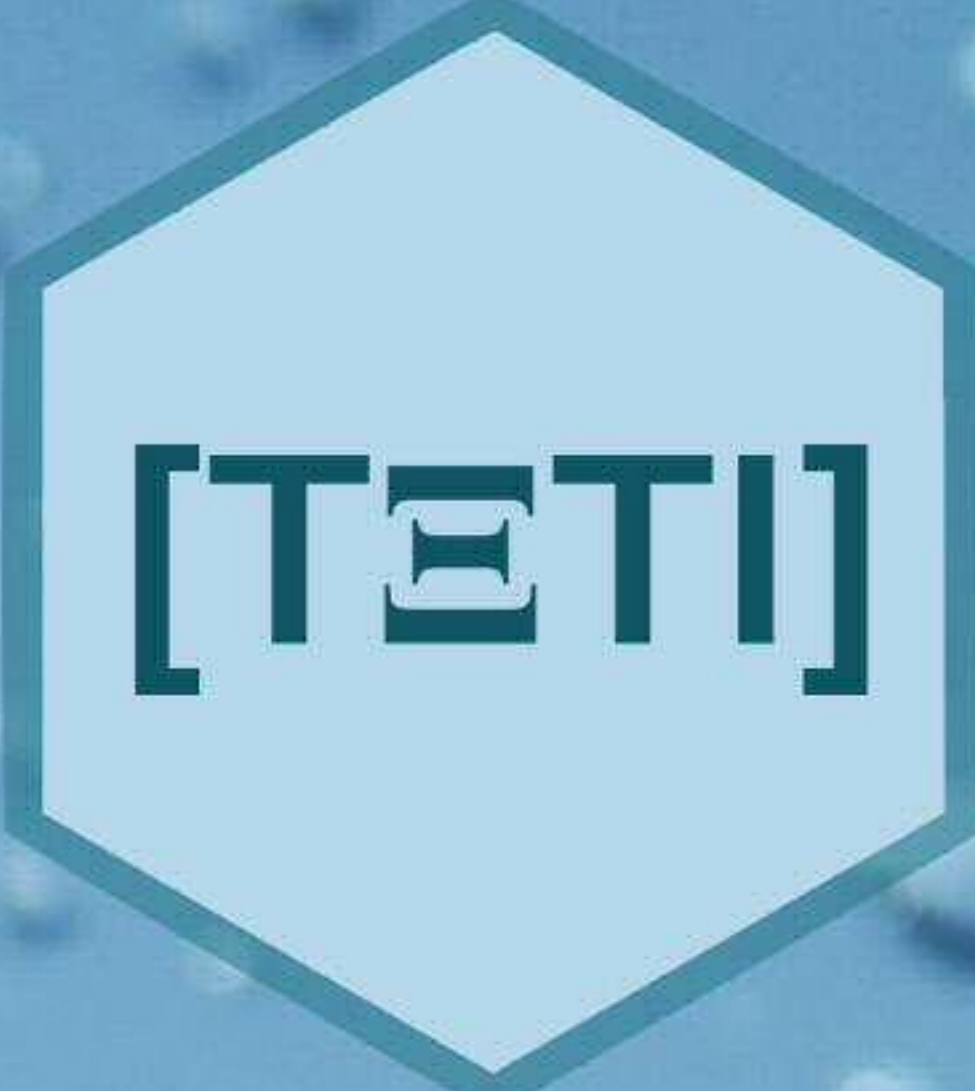
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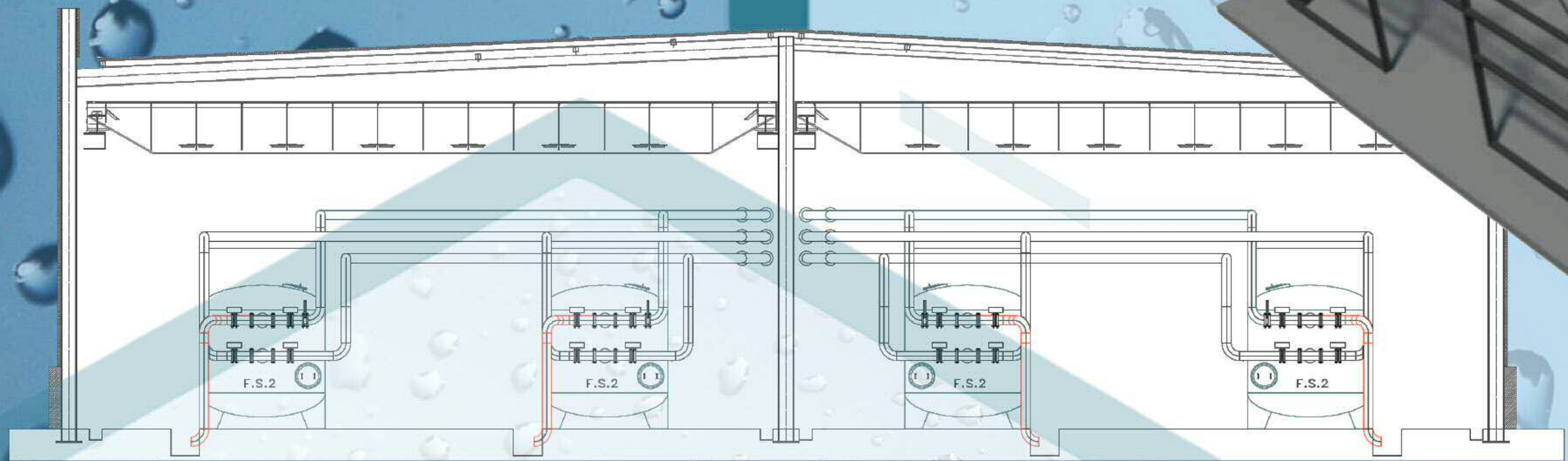
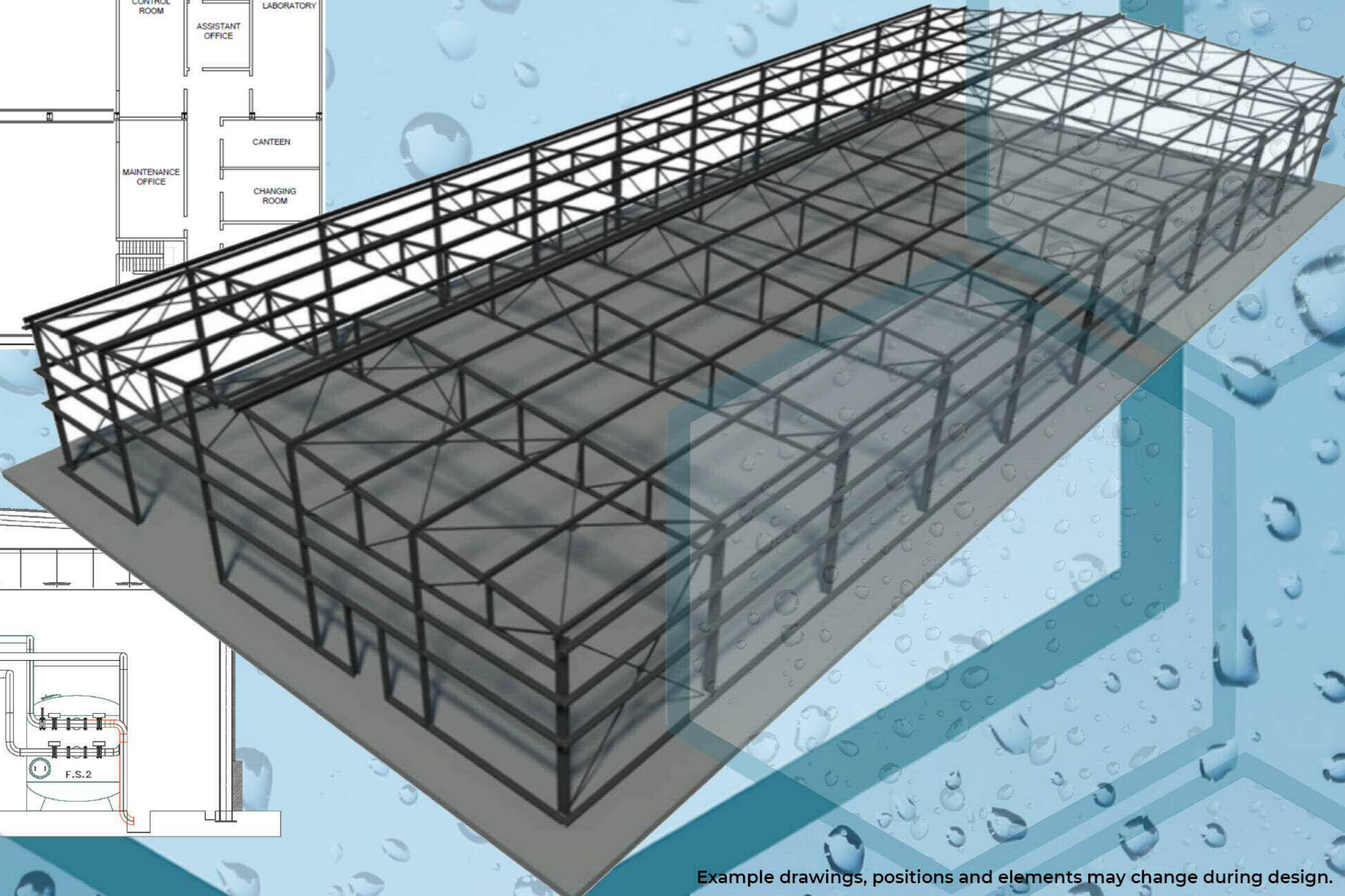
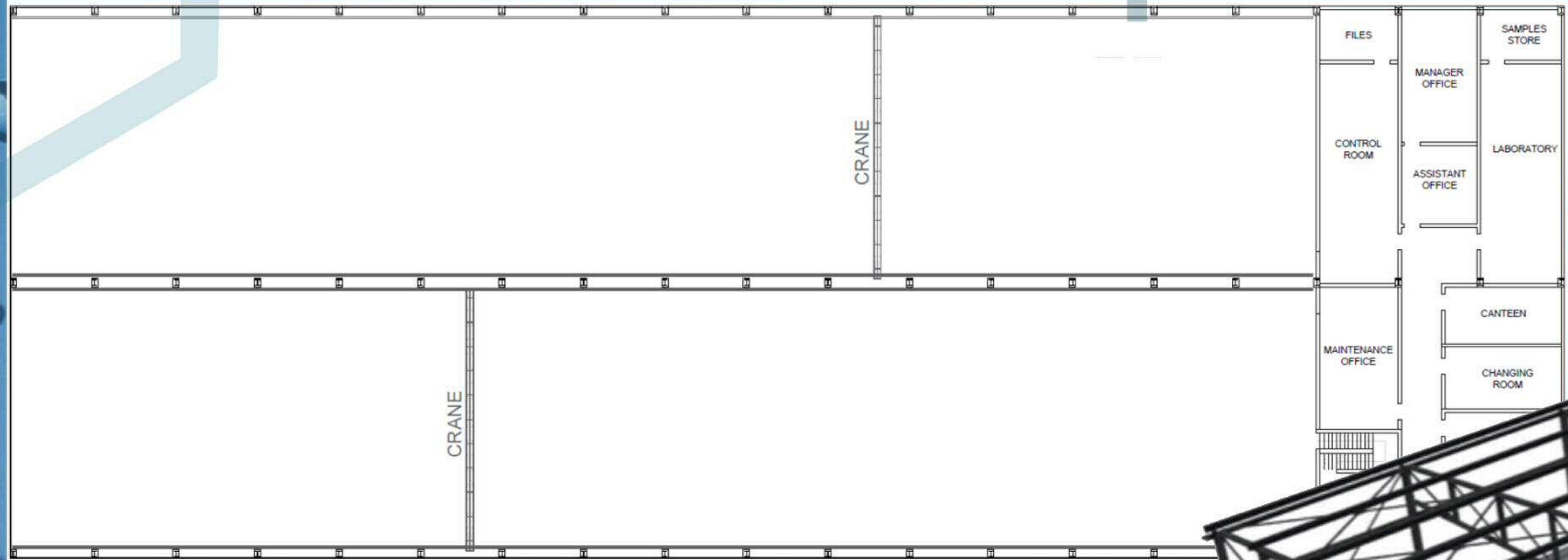
"Prospective & Performance"



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DESIGN OF WATER TREATMENT MAIN BUILDING



Example drawings, positions and elements may change during design.

The final goal of the project is to build a drinking-water treatment plant serving the town centre for fresh surface water of category A2 with indirect intake from the river and storage in an existing dam. The water treatment system must be capable of distributing drinking water (subject to daily quality control by a certified laboratory) over an area of approximately 4,338 km². As indicated in the application, phase 1 of distribution will only affect the population of Mokwa city with a population of approximately 250,937 people.

As indicated in the summary document submitted to us, there are 5 industrial manufacturing clusters and 3 "higher institutions".





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.. Clean water
is better ..





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