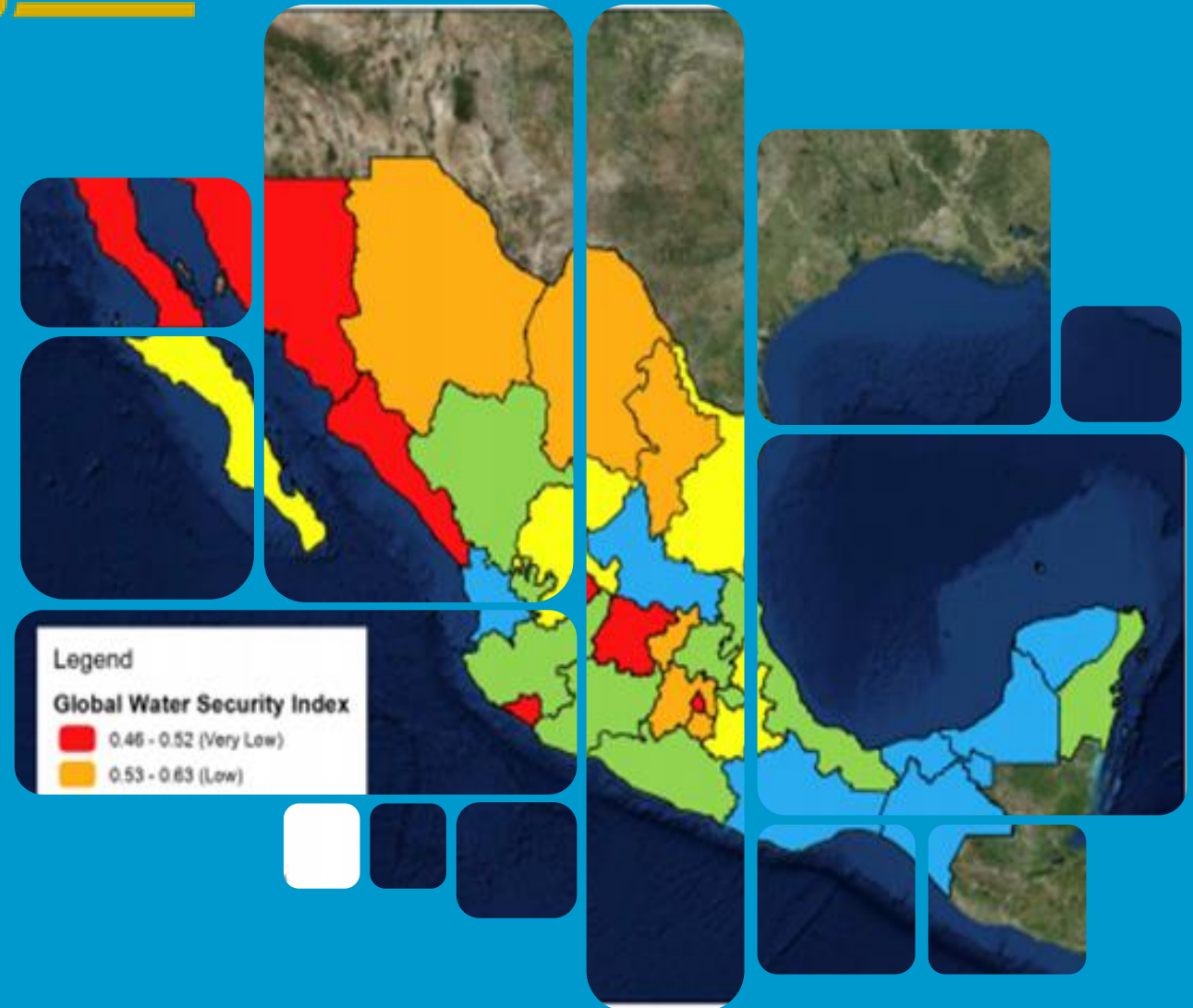




A nature-based solution that delivers green, secure and affordable utilities in challenging climates.



Nature's future proof supply of Food, Water and Energy



The image above [taken from the BEV website, <https://www.breakthroughenergy.org/>] largely consists of numerous very large cooling towers and - in the distance - **a sea view**.

The same service provided by these vast cooling Towers can be accomplished with one discrete, 24/7 **inexhaustible** geothermal water supply harmlessly acquired from below the nearby seabed **using the uninterrupted, game-changing TELESIS process**.

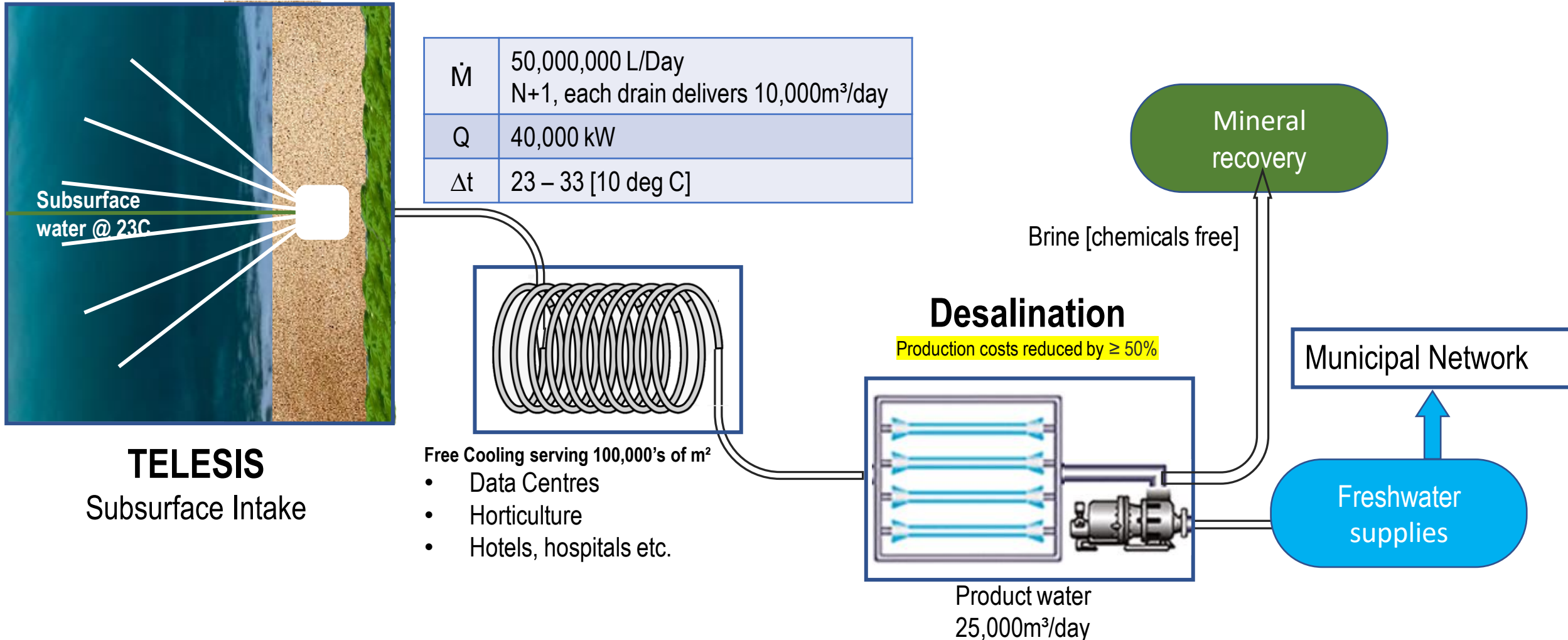
This nature-based alternative procedure provides the cooling supply depicted above with a **35% reduction in Capex, a 60% reduction in Opex and concomitant reductions in CO₂ emissions**.

After harvesting the intrinsic energy of the abstracted water, the water is transferred for desalination in a process that delivers the highest quality freshwater you and your 300,000 neighbours could ever need, **with a $\geq 50\%$ reduction in production costs.....and an unobstructed view of the sea**.

Holistic, integrated, synergistic



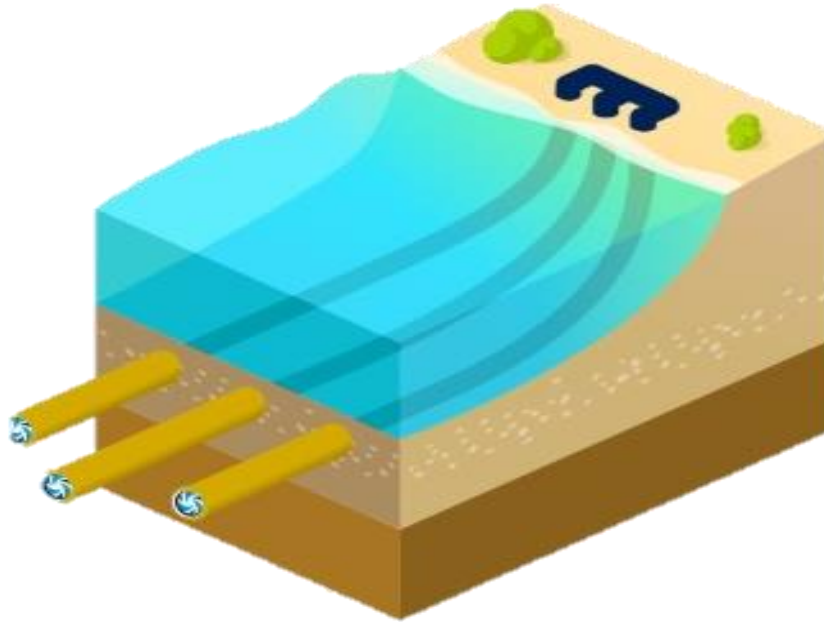
TELESIS is an innovative, nature-based technology that uses subsurface water as the engine for holistic, synergistic, game changing outcomes in utilities and services delivery. Telesis is available in a range of scales and functions. **The schematic operation below represents an operation proposed for the vicinity of Brisbane, Australia.**



Natural Advantages



The ultimate slow-sand filter, perpetually maintained by the dynamic actions of waves, tides, currents and storms; **TELESIS** will provide 16 – 160,000 cubic metres per day of subsurface water PER SYSTEM, naturally pre-treated and containing significant levels of intrinsic latent energy.



Water Quality comparisons		
NTU = Nephelometric Turbidity Units. TSS = Total Suspended Solids		
	Open-intake	TELESIS intake
Bacteria Coliforms	30 – 35	0.5
Turbidity (NTU)	6	1.5
TSS	40	5
Temperature	Variable	Constant

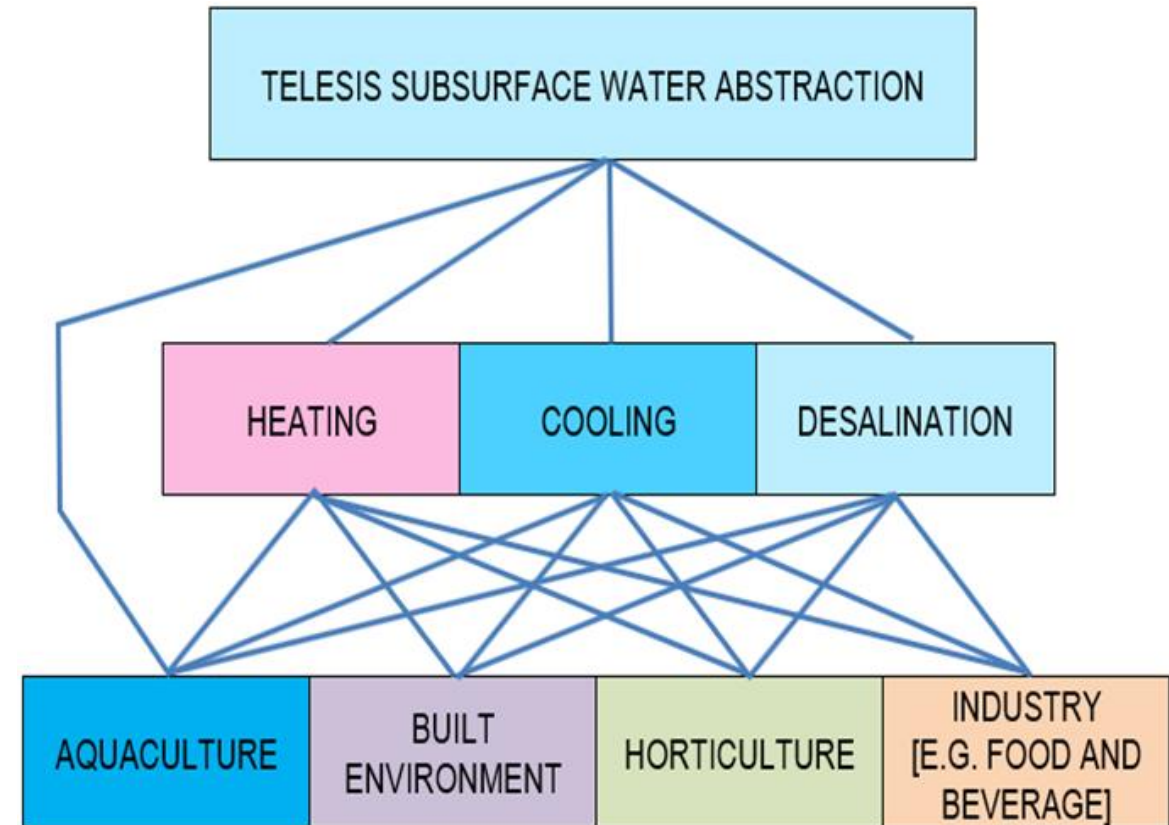
Five components of the TELESIS integrated production value chain

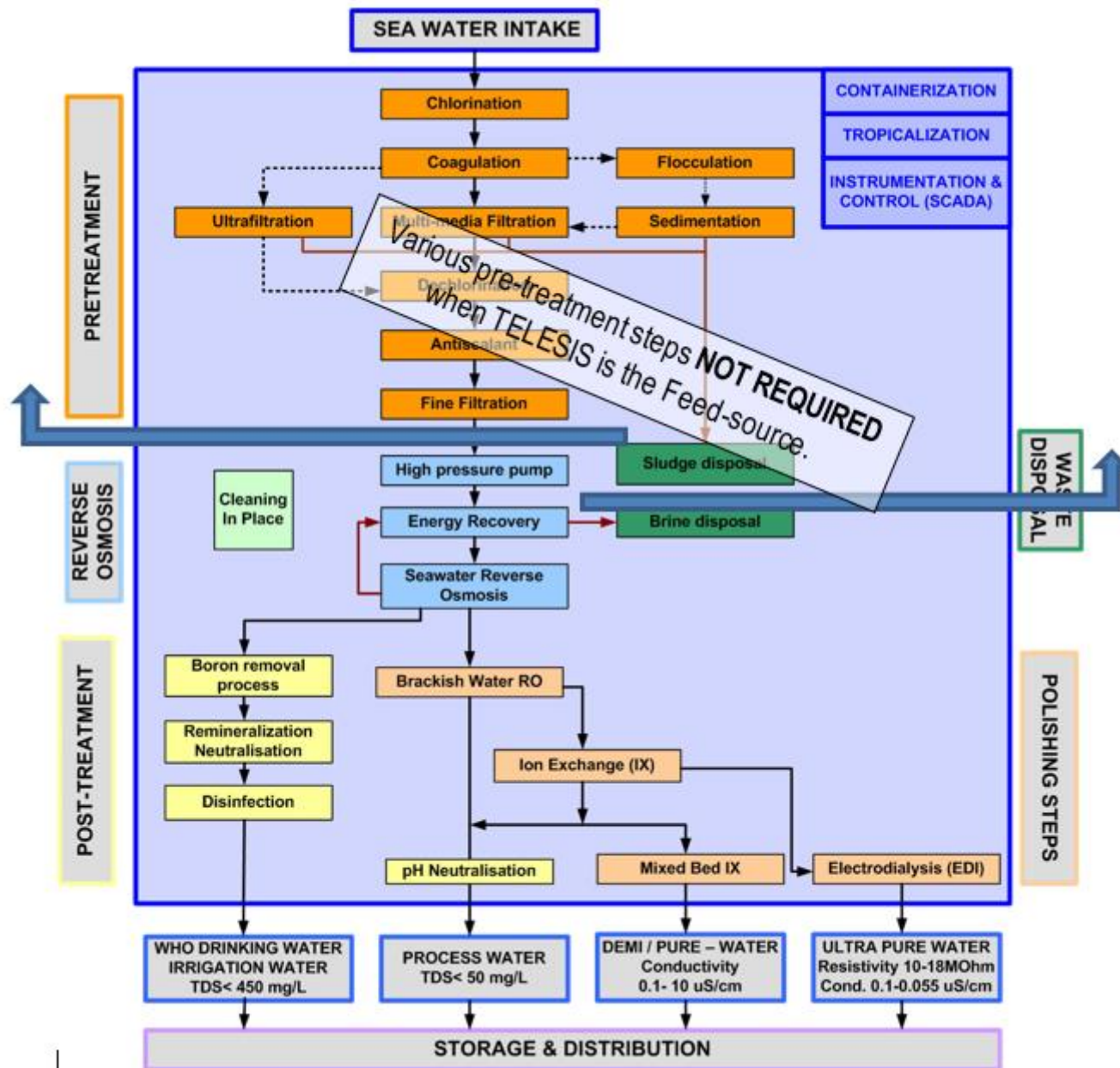


Nature's future proof supply of Food, Water and Energy



- TELESIS uniquely facilitates holistic, synergistic, integrated **multiple utility** productions in which the benefits far exceed the sum of the parts.
- TELESIS has **no aesthetic issues**. Intake operations are all below ground, invisible.
- TELESIS requires **less than 50% of the land-use intensity** of other utility productions of equal capacity.
- TELESIS uniquely provides unparalleled ROI and investment **payback comfortably within 5-years**.





Subsurface water is naturally purified [hence pre-treatment is precluded] and contains intrinsic latent energy

Water Security

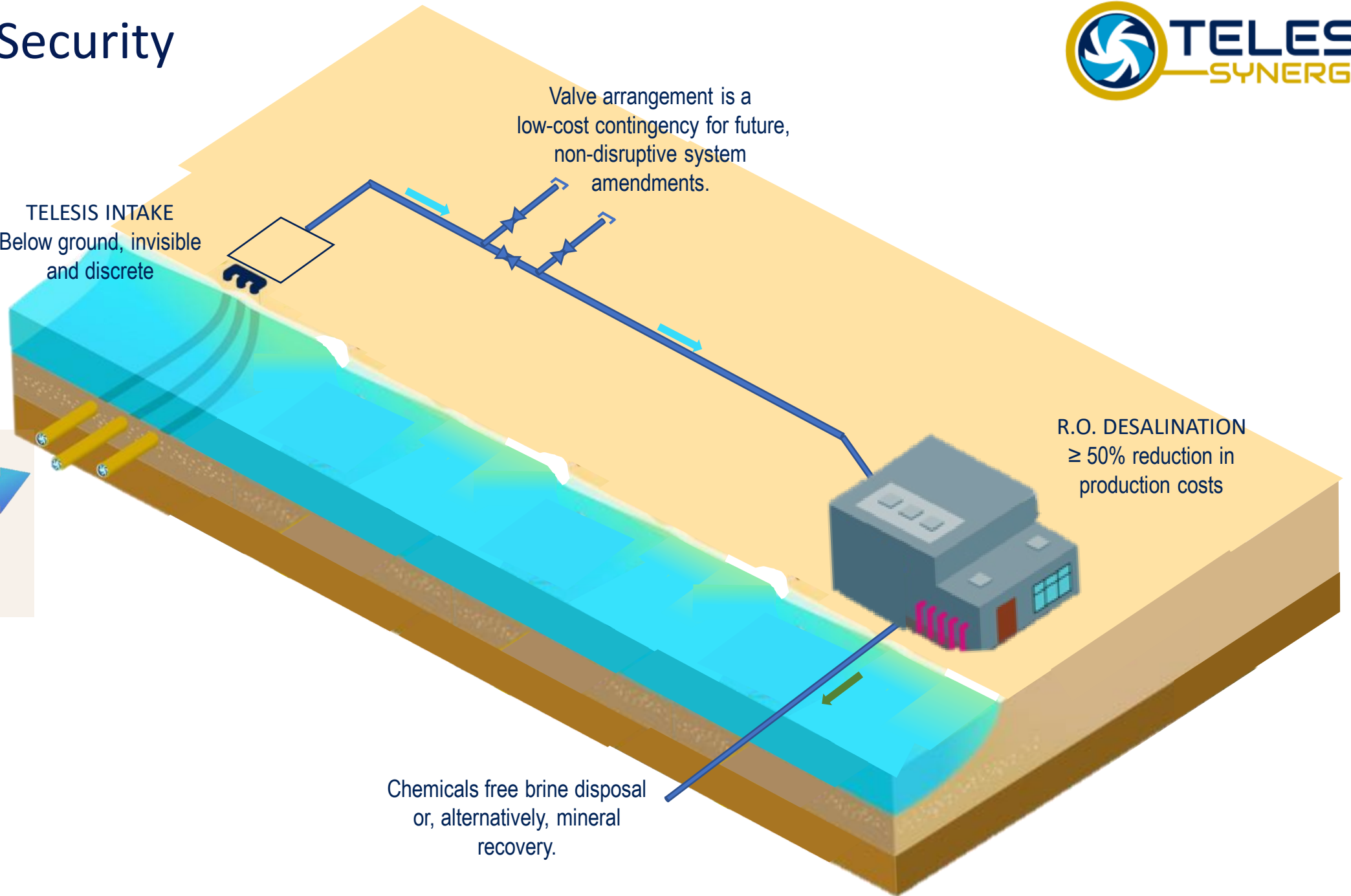


TELESIS INTAKE
Below ground, invisible
and discrete

Valve arrangement is a
low-cost contingency for future,
non-disruptive system
amendments.

R.O. DESALINATION
≥ 50% reduction in
production costs

Chemicals free brine disposal
or, alternatively, mineral
recovery.



Climate Control of the built Environment

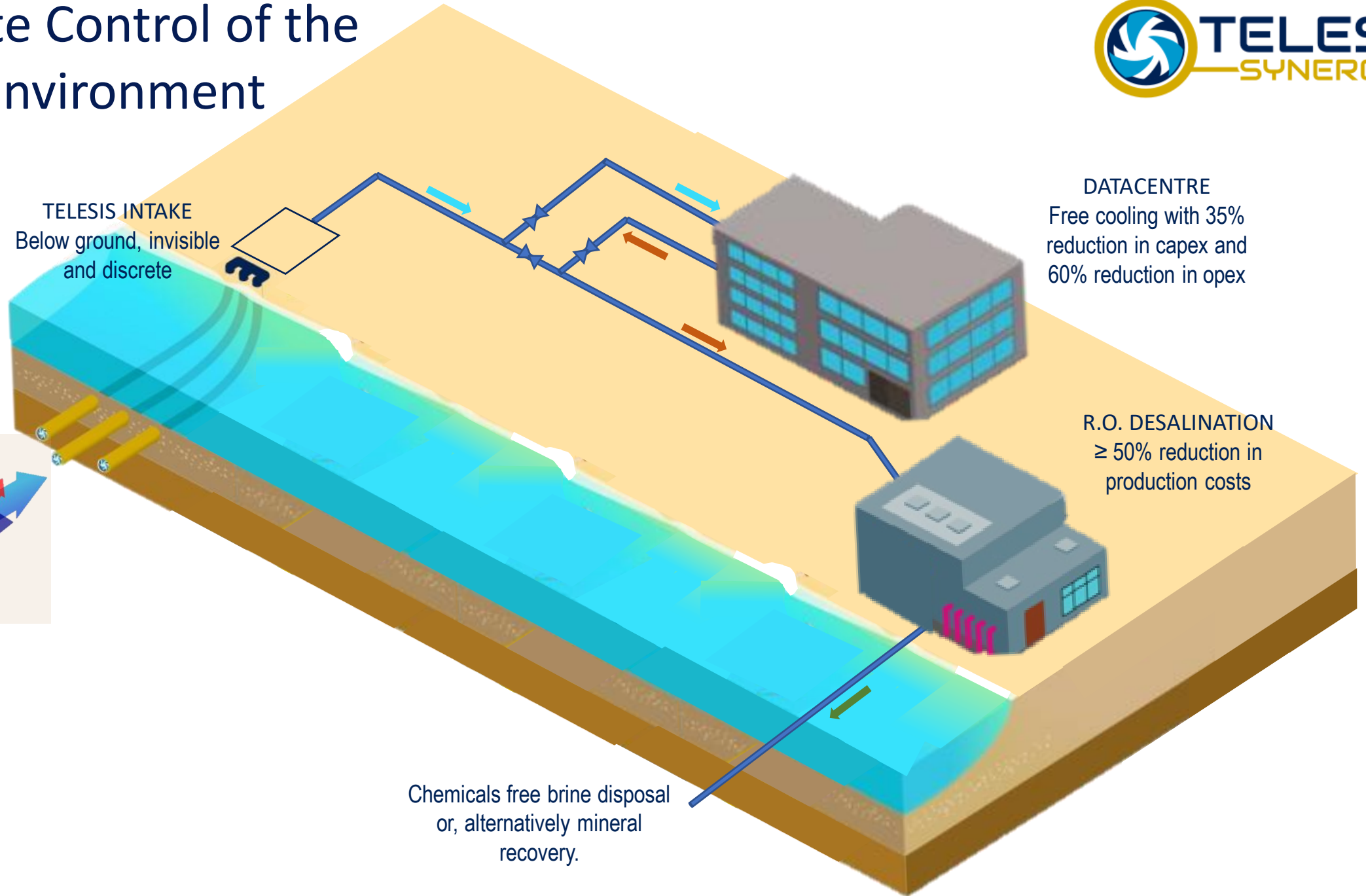


TELESIS INTAKE
Below ground, invisible
and discrete

DATA CENTRE
Free cooling with 35%
reduction in capex and
60% reduction in opex

R.O. DESALINATION
≥ 50% reduction in
production costs

Chemicals free brine disposal
or, alternatively mineral
recovery.



Impervious to all shut-down events, uninterruptable.

Nothing that occurs above ground can impact on the abstraction of water from the saturated offshore sub-surface sands.



Maintenance Free



The dynamic actions of the seas (waves, tides, storms etc) provide natural and continuous filter maintenance

Chemical Free

The seabed is nature's optimum 'slow sand' filter. The need for chemical treatment and biocides is redundant



When risk is assessed over the life cycle of the product, deploying TELESIS proves to be **very low risk.**

Threaded throughout the early stages of the process [and notwithstanding Force majeure events and circumstances] we deploy measures that **entirely de-risk the process.**

IMPERVIOUS. TELESIS is unaffected by all shut-down events - Inclement weather, Red-tides, Oil-leaks, Swarming [e.g. jellyfish, seaweeds, etc.]

CHEMICALS-FREE. There is no dependency on the cocktail of chemicals that are required to keep industry standard seawater operations up and running.

Geotechnical Go / No-Go Test

1. Are there sufficient volumes of sub surface sand?
2. Is the rate of re-charge of the sub surface sand adequate?
3. If there is a sub-surface stratum of hazardous bio-geochemistry then can it be avoided?

Go / No-go decision

If any answer to Q1-3 is 'No', TELESIS will not proceed

In the much more probable case of the answer to all three being 'Yes', the project can proceed with certainty of success.