



AYALA *Water & Ecology*

Sustainability Experts

**Practicing nature-based solutions for
more than 30 years**



www.ayala-aqua.com

The Challenges

- Despite current global investments the ‘climate change’ phenomenon keeps accelerating.
- Current technologies and design approaches cannot cope with the growing problem and actually add to it !
- Over-use of energy; high percentage goes for water management
- Destruction of natural green cover; especially wetlands and forests
- Deduction in trust in technology to cope with the problem

Ayala's solution was made to cope with the above



Ayala's solution:

The Natural Biological System (NBS™):

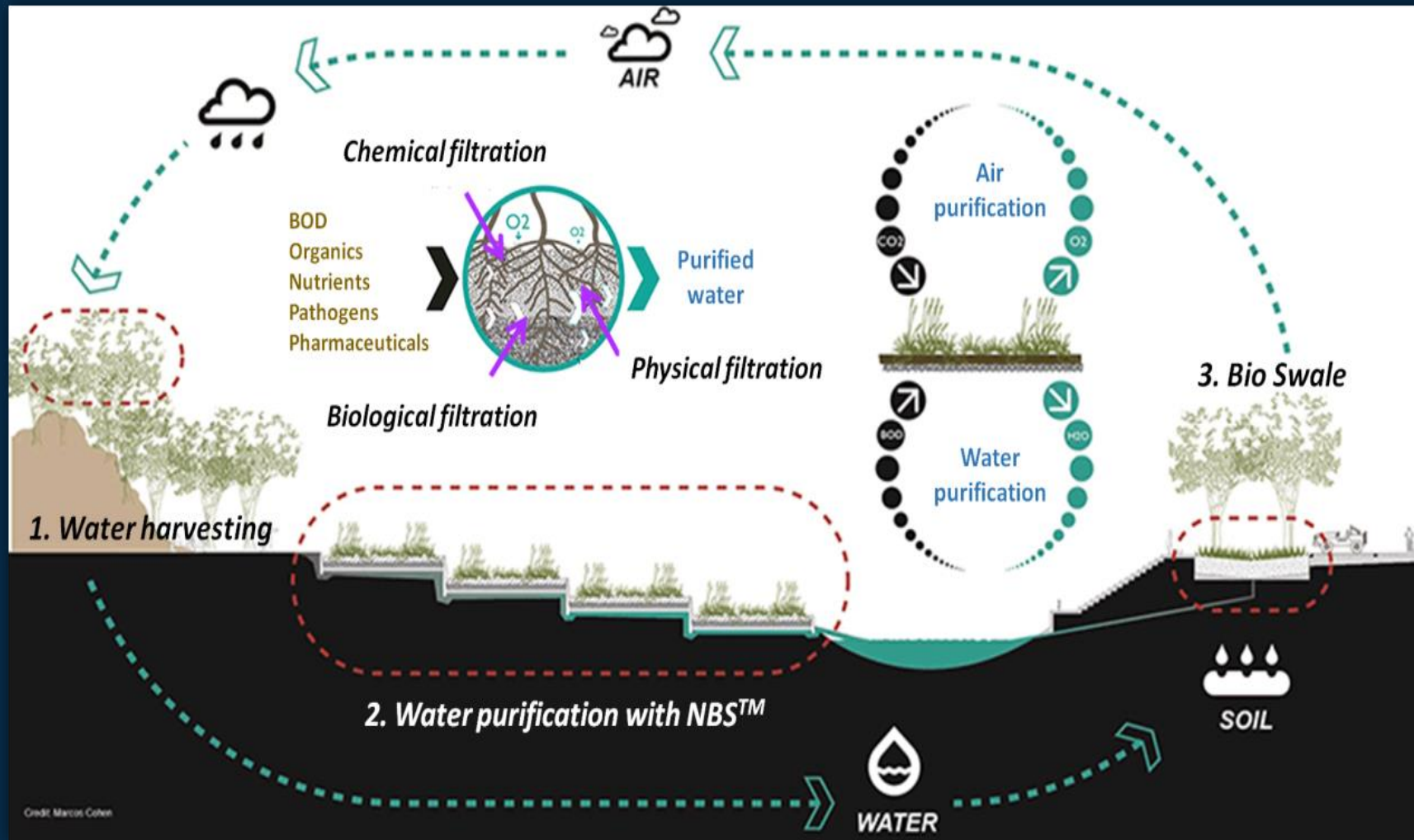
- a 'game-changing' technology
- holistic nature-based design approach
- Breaks the energy-water linkage; reversing 'climate change'

Based on:

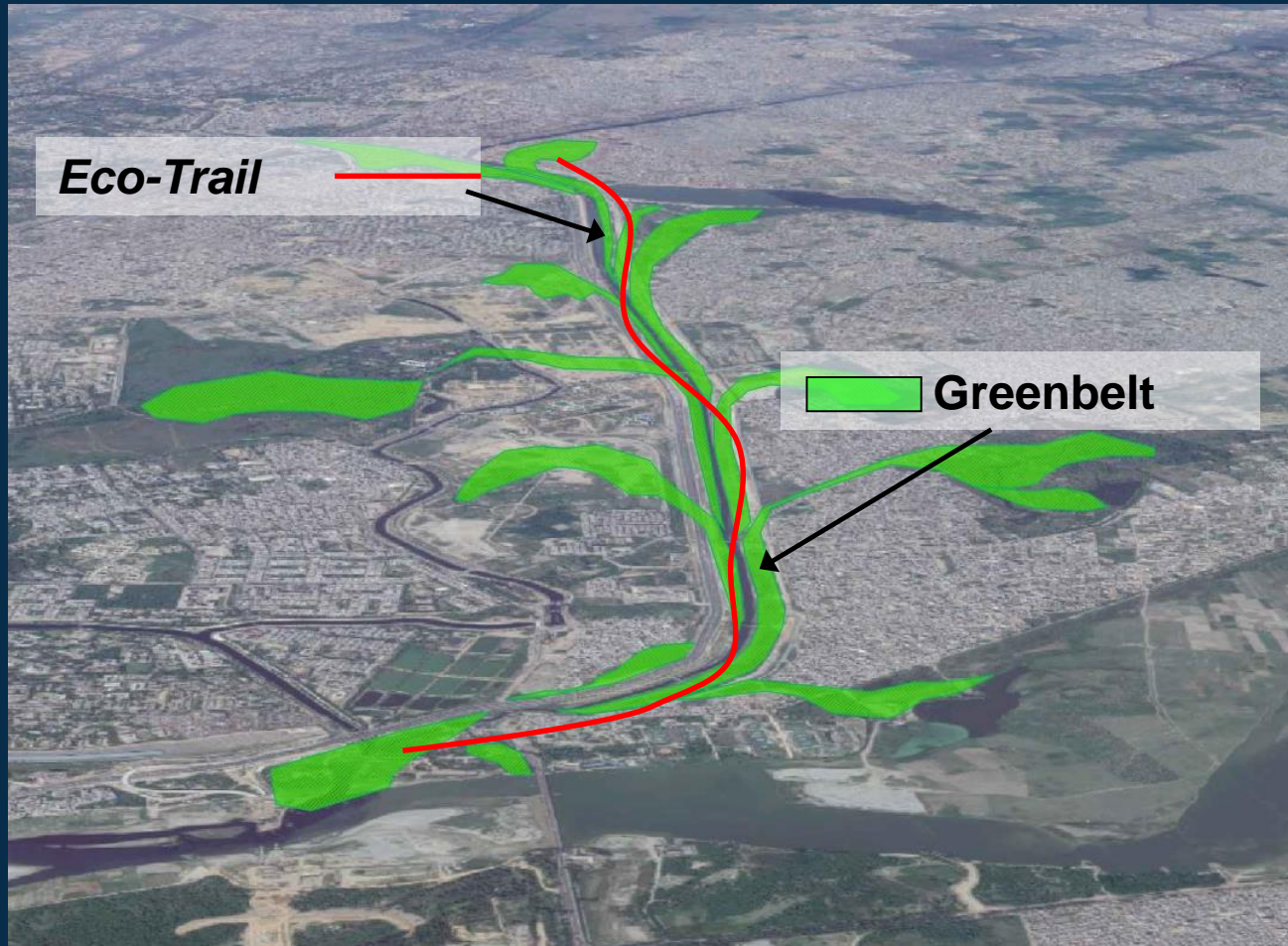
- *The laws of nature and principles of thermo-dynamics*
- *Zero energy*
- *No chemicals and negligible human involvement*



The NBS technology Architecture



The NBS™ Holistic Nature based solution approach for metropolises and watersheds



The “Tree of Life”- New Delhi:
A combination of GreenBelt and Eco-Trail

Holistic design approach -combined solution for the hydraulic, environmental and social issues

Completely sustainable, energy & maintenance free

Provides water security together with life quality



Waterways treatment and river protection

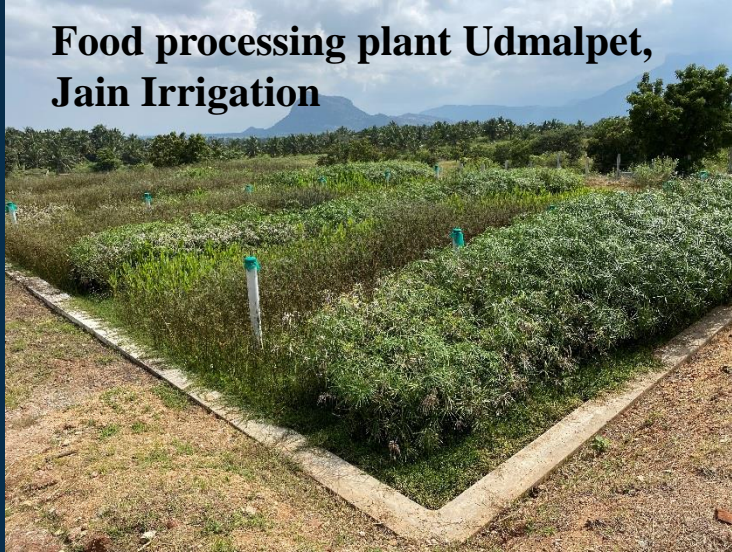


Musi river catchment



Industrial Sewage

**Food processing plant Udmalpet,
Jain Irrigation**



**Sugarcane plant, Dhampur
Sugar Mills**



**Textile - Nikunj Fabrics,
Vapi**



**Artisan Cottage Cheese manufacturing plant,
Sri City, India**



Sustainable solution for rural communities, villages, stand-alone communities or neighbourhoods

“Green Lung” air purification, Neighborhood sewage treatment, rainwater harvesting, irrigation recycling, aquifer recharge plant, Ganei Tikvah, Israel



**Lawrence School, Lovedale, The Nilgiris.
Natural, Sustainable Treatment and Management
of Waste Water from the school**



The Portable NBS and EcoLine systems. The ultimate solution for the rural areas.

- Provide water security to remote communities
- Provide hope & industrial peace and harmony
- Reduce dramatically costs to governments for the short and long run.
- Protect further-down communities from up streams contamination
- Fast to install, simple to maintain, long-lasting



Ayala's novel 'change-making' technology, the NBS

- Gives hope to humanity where there seems to be no hope
- Breaks the Nexus between water and energy and can actually stop the current escalating climate change phenomena.
- Enlarging the 'Active green landscapes' will eventually regain balance and reduce carbon footprint.
- Reducing dependence on energy and maintenance will assure resilience and sustainability.
- Social involvement assures solutions acceptance and longevity.



Thank you

“Nature, to be commanded, must be obeyed”

-Sir Francis Bacon

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