

Natural Intelligence

Building the Future of Innovation on Millions of Years of Field
Tests



WE ARE NOT SUCH GOOD ENGINEERS, DESIGNERS
AND MANAGERS AS WE THINK WE ARE



EARTH SYSTEM COLLAPSE

...loading...



HOW
DID WE GET HERE?

OUR LOGIC OF VALUE CREATION LEADS TO
DEGENERATION





BECAUSE IT IS OUT OF
SYNC WITH THE WAY
LIFE WORKS

WE
NEED
A NEW
PARADIGM
FOR
INNOVATION



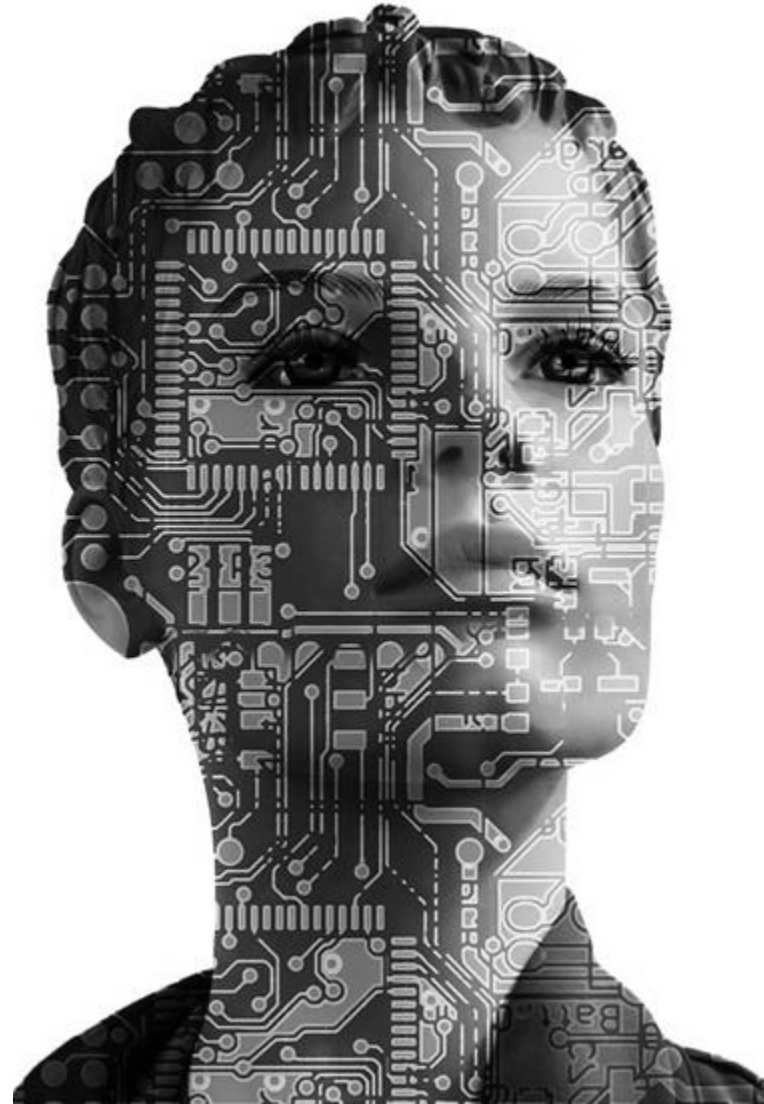
BUT WHERE TO LOOK
FOR INSPIRATION?



WE CAN SCAN
THE COSMOS



OR BET ON ARTIFICIAL INTELLIGENCE



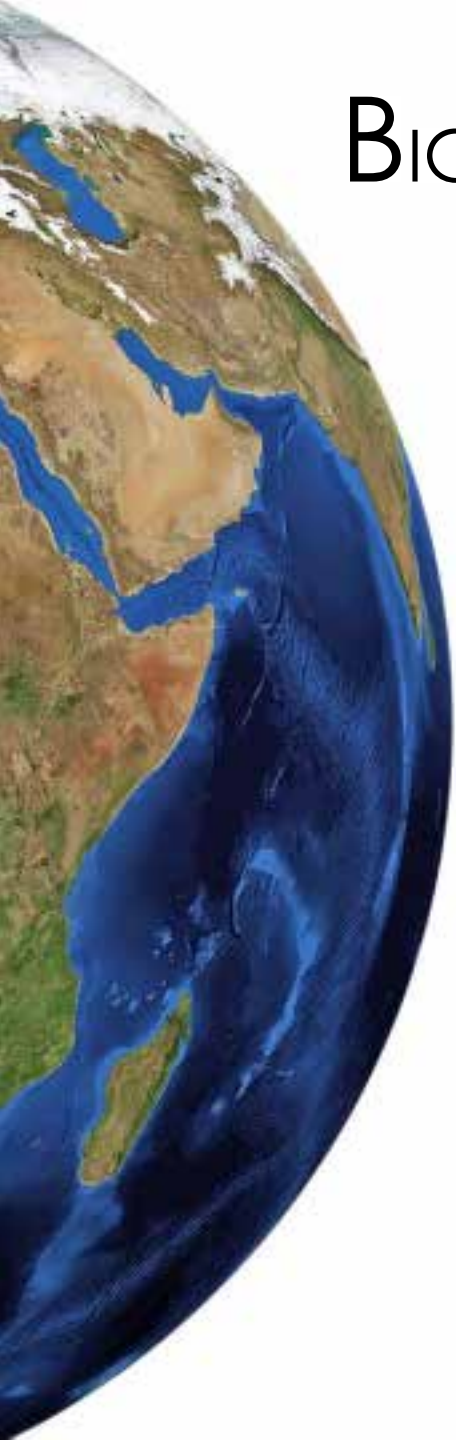
AND HOPE THAT ET AND AI WILL SPARE US



NI IS
3.8 BILLION
YEARS OLD



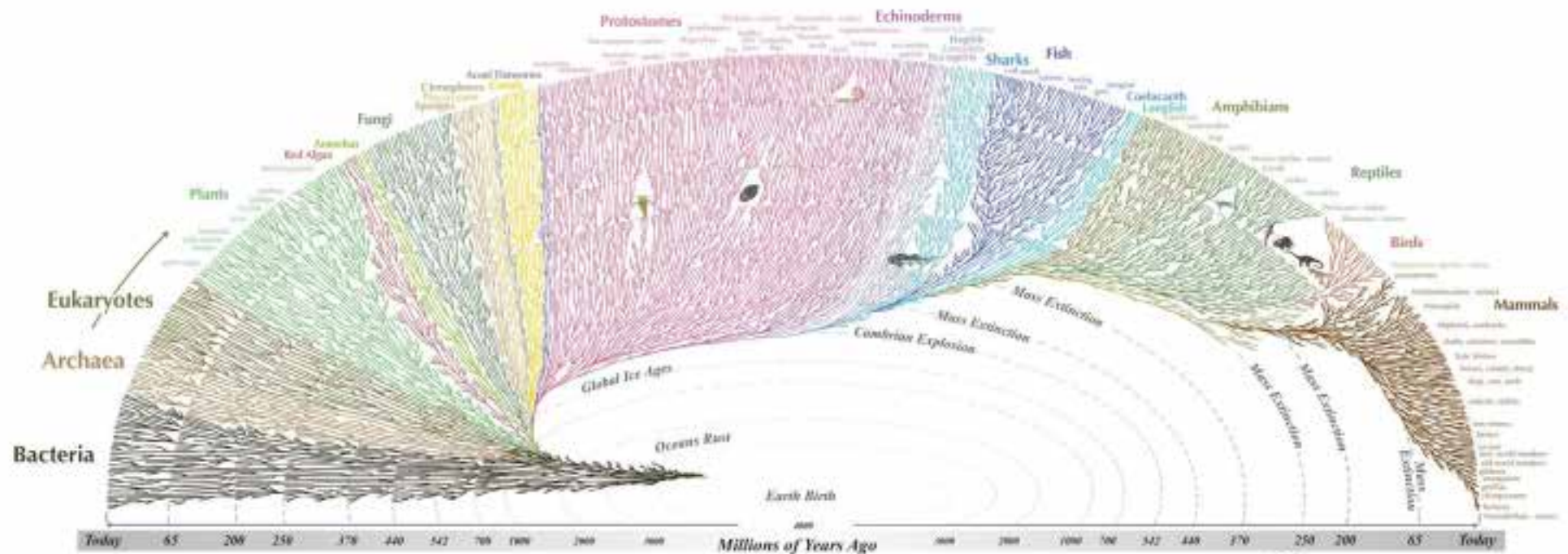
BIG HISTORY PERSPECTIVE



JANUARY	FEBRUARY	MARCH	APRIL
	25 Life appears		
MAY	JUNE	JULY	AUGUST
			16 Multicellular Life appears
SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
		15 Fungi 	13 Mammals 
		20 Fish 	
		22 Plants 	

OUR BIGGEST CHALLENGE IS

TO AVOID JOINING THE 99.9% OF SPECIES
THAT ONCE INHABITED OUR PLANET
BUT ARE NOW **EXTINCT**.



All the major and many of the minor living branches of life are shown on this diagram, but only a few of those that have gone extinct are shown. Example: *Dinosaurs - extinct*

“

Consider living on the Earth as if we intend to
stay here.



Jonathon Porrit, writer and co-founder of the Forum for the
Future

A large, ancient tree with a thick, gnarled trunk and dense green foliage. A person is sitting on the ground at the base of the tree, looking towards the camera. The scene is set in a natural, outdoor environment with other trees and a path visible in the background.

LEARNING TO BECOME
SELF-RENEWING
RIGHT WHERE WE ARE



Life wants to live. Life wants to stay alive.

An aerial photograph of a dense, lush green forest. The trees are packed closely together, creating a textured canopy of various shades of green. In the center of the image, the letters 'NI' are superimposed in a large, white, sans-serif font. The letter 'N' is particularly prominent, with a dark silhouette of a bear's head and shoulders cut out from its center. The 'I' is a simple, vertical bar. The overall composition is centered and balanced, with the white text standing out sharply against the dark green background of the forest.

NI



It is the Art and Science of surviving and thriving on a continuously changing planet with limited resources.

TECHNICAL SYSTEMS



Are subject to **ENTROPY**

*Decline:
more disintegration and
disorder, less capability*



NEED TO BE FIXED/UPGRADED

Technical systems cannot evolve,
self-regulate and self-heal.



LIVING SYSTEMS



Are creators of **NEGENTROPY**

*Renewal:
higher order integration and
integrity, more capability*



NEED TO BE ENABLED

Living systems can evolve,
self-regulate and self-heal.



LIVING SYSTEMS SCIENCE





















A photograph of a large, ancient tree with thick, gnarled trunks and dense green foliage. The tree is the central focus, with its roots spreading out across the ground. The background shows a forest of similar trees on a hillside. The word "intelligence" is overlaid in white text across the middle of the image.

intelligence



**Leave the planet better than you found her.
That is the way life works.**



IF WE COUNT SUCCESS IN NO OF YEARS, NOT DOLLARS

520 million years old



468 million years old



435 million years old



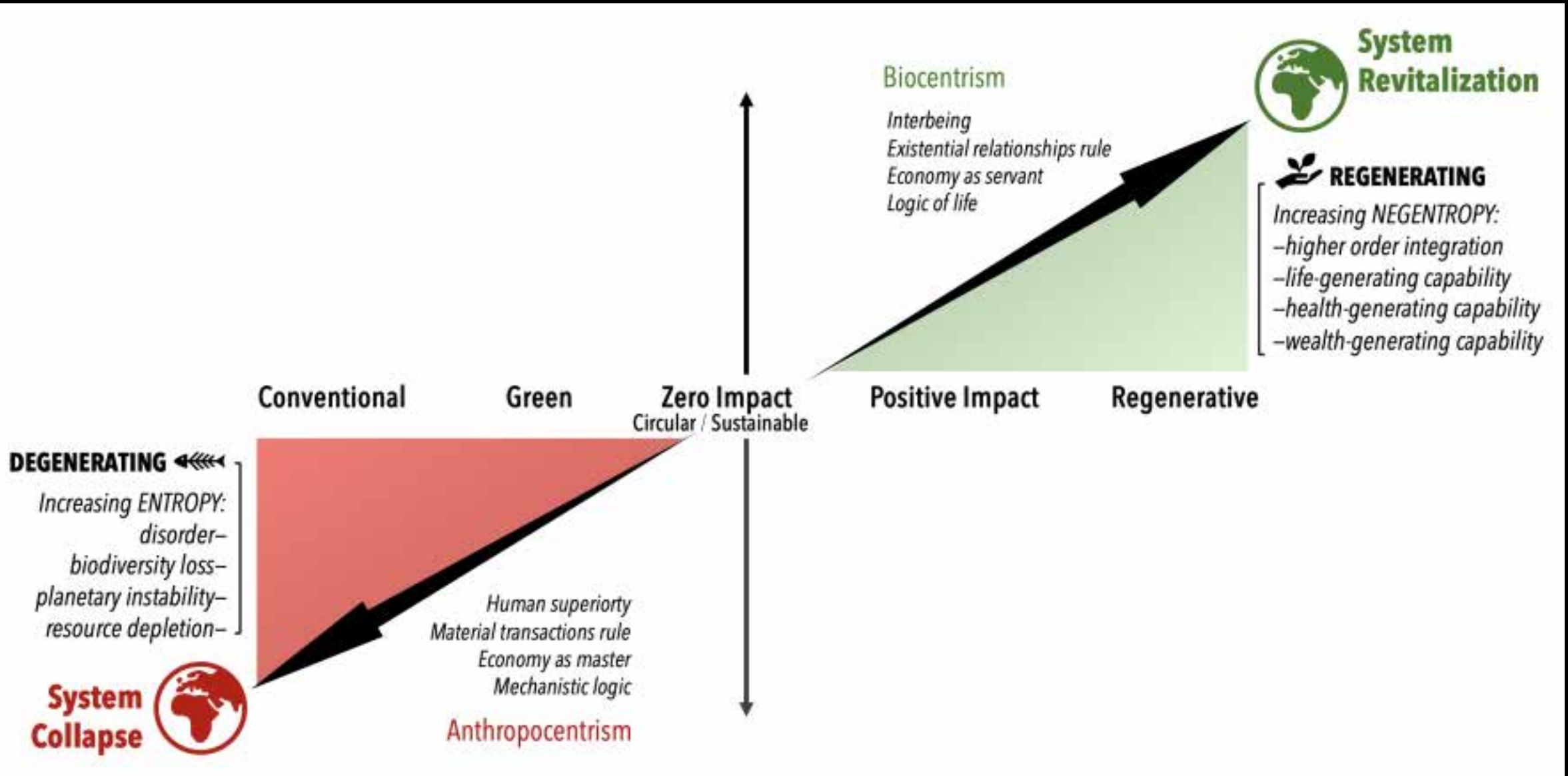
175 million years old




0.3 million years old



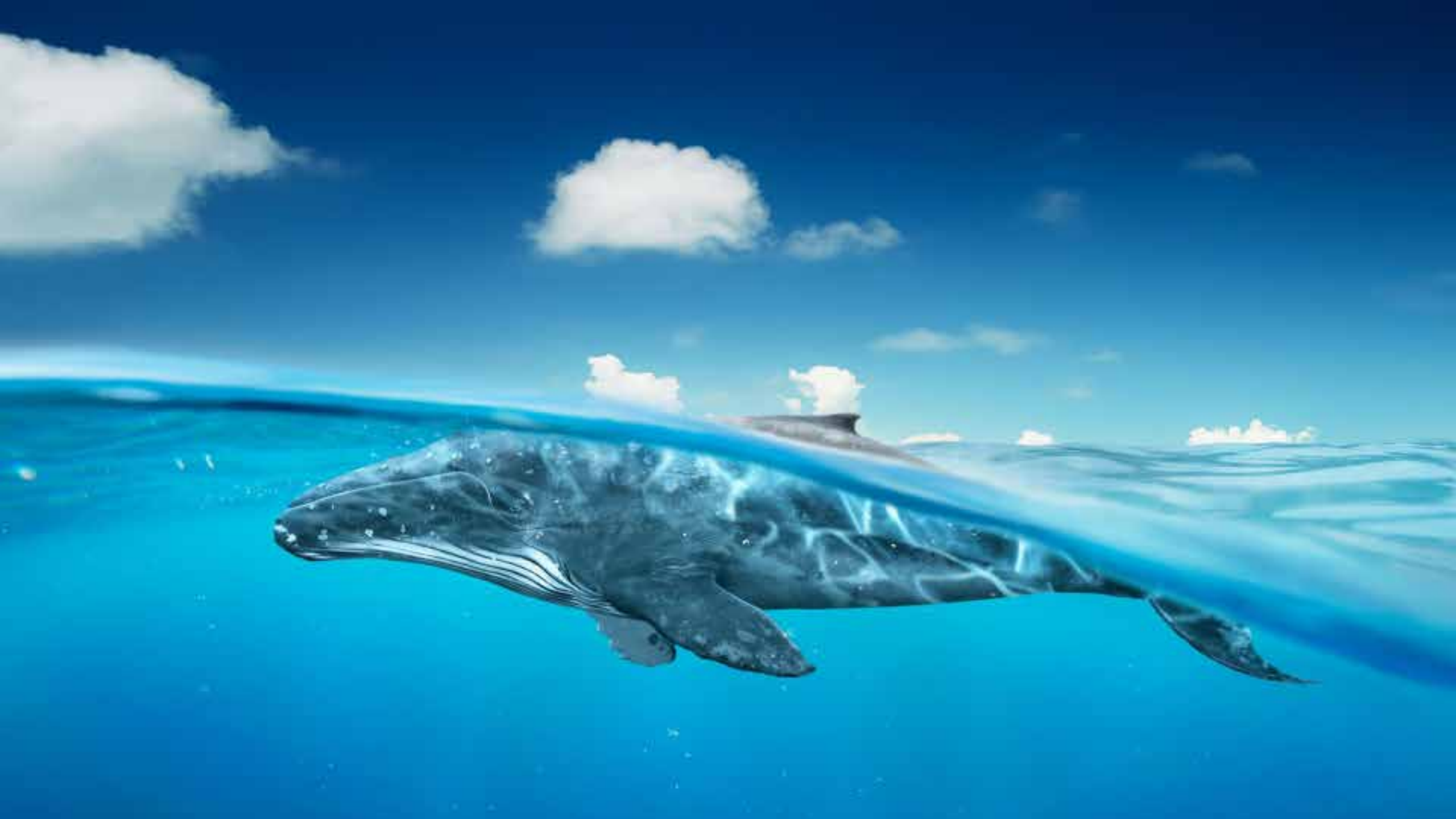
REGENERATION IS NATURE'S BLUEPRINT FOR INNOVATION



A fluffy black puppy is shown in profile, standing in a vibrant green field. The field is filled with tall grass and several flowers, including a prominent yellow dandelion on the left and several purple flowers on the right. The background is a soft, out-of-focus green, suggesting a sunny day in a meadow. The puppy's fur is thick and dark, and its eyes are a light, pale color.

“ Regeneration is a process of renewal and revitalization that leaves the planet healthier, wealthier and more vibrant than before.















world-makers





Nature as Mentor, Model and Measure.





Capturing the Force of Nature

FANS USE 22% OF THE WORLD'S ELECTRICITY, WHICH GENERATES AS MUCH CO2 EMISSIONS AS ALL THE WORLD'S CARS

1919  2019 

AND THEY HAVEN'T CHANGED IN 100 YEARS

UNTIL FLAIR.

QUIET
POWERFUL
ULTRA-EFFICIENT
FULLY ADJUSTABLE CRADLE
FULLY ADJUSTABLE FLOW



“Data doesn't lie. Flair has been tested against leading competitors and uses up to **85%** less electricity than conventional fans of the same size.”



FISH FRIENDLY

A slow RPM impeller with a design that creates low shear stress. The slow rate of pressure difference over the blade ensures that this turbine lets all fish and aquatic life pass by unharmed.

[Case Study](#)

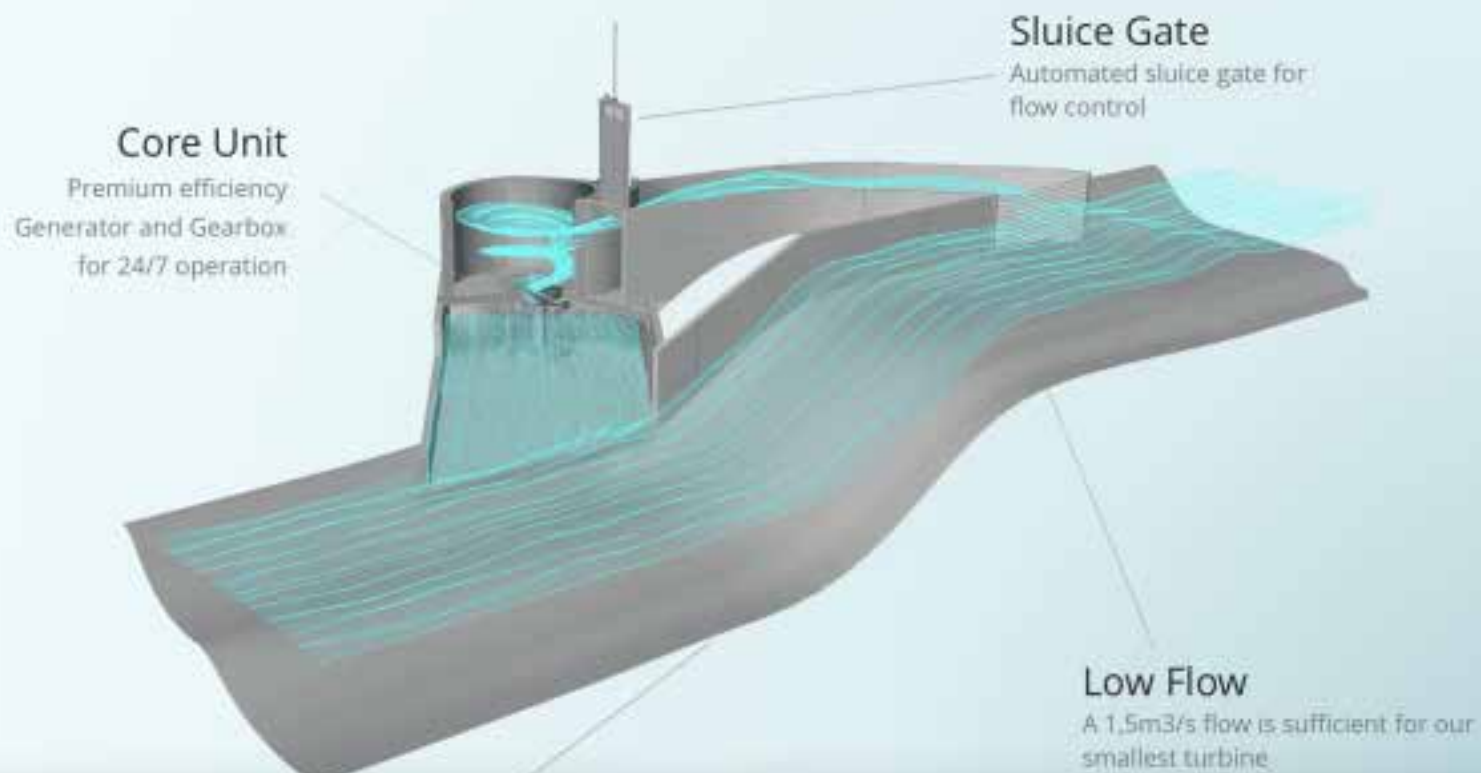


FLOOD MANAGEMENT

When developing a site, we also study the regional situation. Of course, our turbines are flood proof, but we can also include ways to prevent flooding in the area in our civil works design.

The **Vortex** Turbine

An eco-friendly way to harness energy from rivers and canals with a low height difference, as a standalone project or a cluster of turbines powering entire regions. A single turbine can generate from 15 to 70 kW of constant energy around the clock.







Blue Planet CarbonMix.™
Carbon Negative Building
& Highway Materials.

LEARN MORE

DESIGN





Novas HydrIS platform can offer room temperature distribution & storage of live virus vector vaccines including: MVA, adeno virus vectors which can be part of the solution in controlling the current Ebola outbreak











Ribs induce rising and falling air currents that cool



University of Arizona Health Sciences Education Building by CO Architects





Backed by 300 million years of R&D

Spinning silk like
spiders



Silk Reimagined



Spintex artificially spins the highest performance silk fibres available, through a spider inspired process. 1000x more energy efficient than synthetic plastic fibres, we use no hazardous chemicals with water our only by-product.

These fibres are finding use in sustainable fashion textiles, but due to their high-performance will also address issues in other markets for advanced technical textiles, including lightweight composites for aerospace and automotive industries, and biocompatible medical textiles.

Watch the video to learn more about Spintex's unique spider inspired spinning approach for producing the next generation of sustainable fibres for fashion & beyond!



TO CONCLUDE



Regenerate





IT IS TIME TO LEARN FROM THESE SURVIVAL CHAMPIONS
HOW TO DO VALUE EXCHANGE RIGHT



How are you leaving the planet **better**
than you found her?



"Victor Hugo once wrote, 'Nothing is more powerful than an idea whose time has come.' Leen Gorissen offers us *Natural Intelligence* as her evidence of it."

Dee Hock | Founder and CEO Emeritus of VISA



Building the Future of Innovation
on millions of years of Natural Intelligence

Leen Gorissen

Questions?

Learn more?

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