

REGENERATIVE TECHNOLOGY PRIMER

Breakthrough tech innovation rooted in nature's wisdom



REGENERATIVE TECHNOLOGY
PROJECT

WHY NOW?

REIMAGINING TECHNOLOGY TO REGENERATE LIFE, RATHER THAN DEGENERATE IT, HAS NEVER BEEN MORE URGENT

Pervasive technology is amplifying harms to society and planet.

- Amplifies divisions
- Exacerbates mental health crises
- Increases material extraction, consumption
- Increases pollution, e-waste, landfill
- Accelerates power asymmetries
- Infringes on local empowerment

And this trajectory is poised to continue

10X

EVERY YEAR, AI USES 10X COMPUTATIONAL POWER TO TRAIN MODELS, DEMANDING EVER MORE ENERGY AND WATER RESOURCES

21%

DATA CENTERS WILL DEMAND 21% OF THE WORLD'S ELECTRICITY SUPPLY BY 2030 DUE TO AI, STREAMING, BLOCKCHAIN, AND MORE.

50M

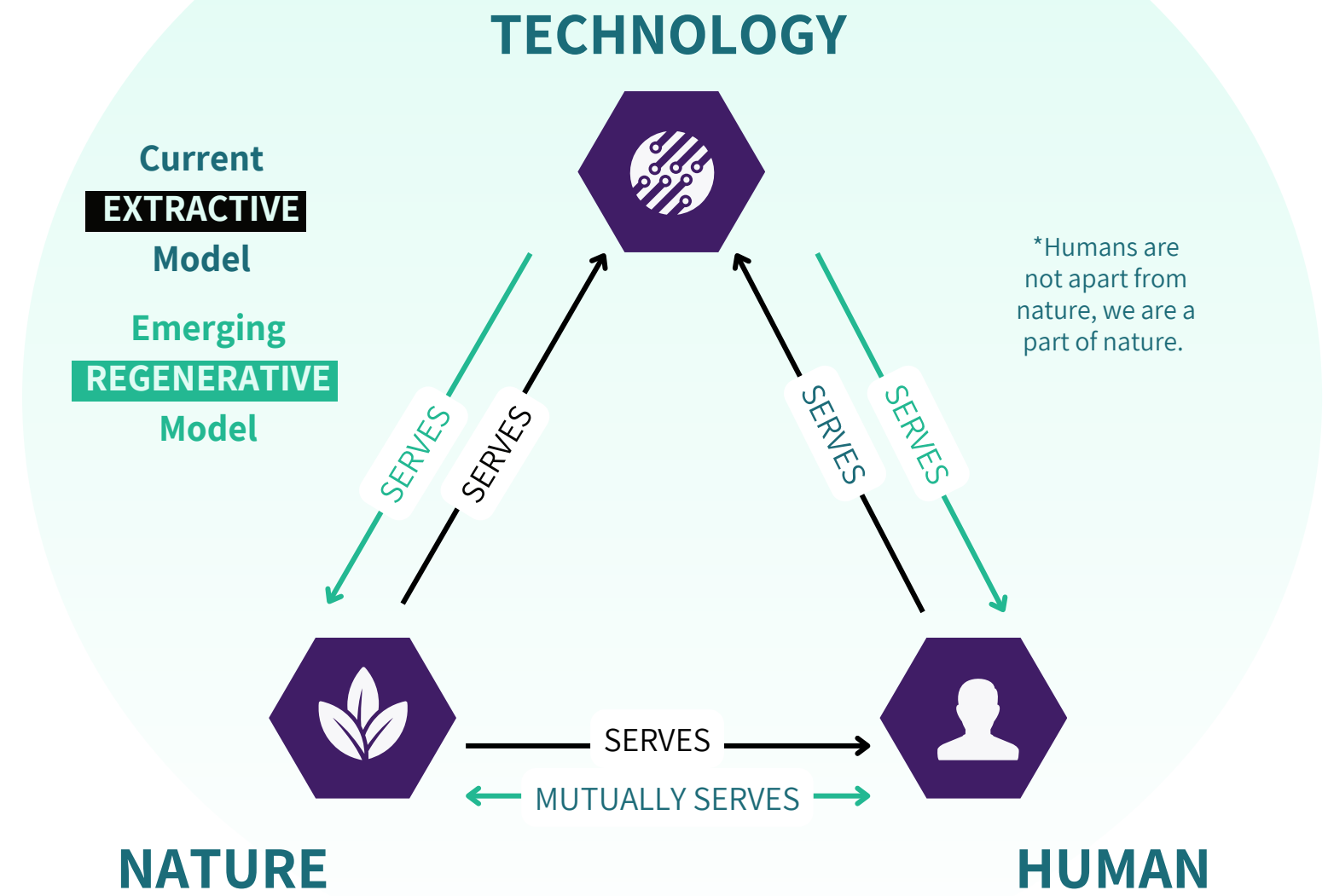
TECH PRODUCES OVER 50 MILLION TONS OF E-WASTE IN LANDFILLS PER YEAR, GROWING TO 110 MILLION TON BY 2050



WHAT IS REGENERATIVE TECHNOLOGY?

TECHNOLOGY IN SERVICE TO LIFE

An Emerging Regenerative Technology Model



Whereas today's technology is served by nature and humans, regenerative tech serves both people and planet, and enables mutual service between them.

Technology that serves health and living systems, relationships of justice and reciprocity, and overall care for the earth and community.

Place-Based

Life happens in place,
and is influenced by
specific local
conditions, contexts.

Collaborative, Participatory

Elements work
together, often in
mutually beneficial
relationships

WHAT MIGHT IT LOOK LIKE IF WE APPLY LIVING SYSTEMS PRINCIPLES IN TECH?

Adaptive to Changing Conditions

Life adjusts and evolves
in response to
environmental
changes

Resilience Through Diversity

Variety in components
and strategies
enhances system
stability and survival

Interdependent, In Relationship

All life is
interconnected with
its environment and
other systems

Circulatory Flows & Metabolism

Life relies on
continuous exchange of
energy, materials, and
information

Self-Organizing, In Balance

Life maintains stability
through constant
adjustments and
feedback loops.

[Download the Whitepaper](#) for examples of each



KEY SHIFTS TOWARDS A REGENERATIVE TECHNOLOGICAL PARADIGM

SHIFTING FROM INDUSTRIAL TECHNOLOGIES, WHICH...



- Tech to accelerate domination, extraction, separation
- Optimized for profit, attention, scale, ignores “externalities”
- Designed for planned obsolescence, landfill
- Displaces local services/solutions, enriches few
- Proprietary, closed, competitive

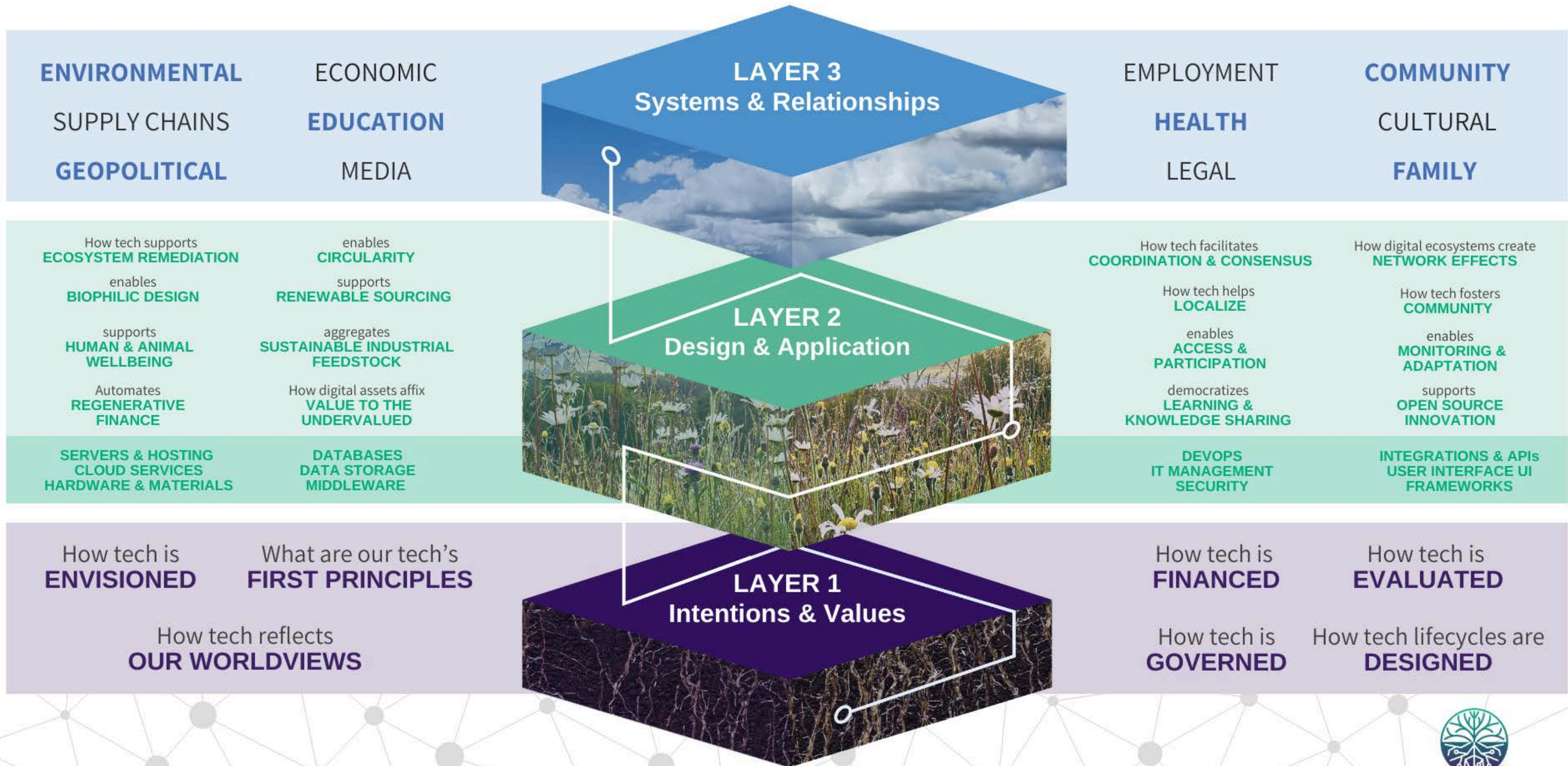
TOWARDS REGENERATIVE TECHNOLOGIES, WHICH...













- Tech in service of life, health, potential
- Optimized to balance and integrate holistic metrics
- Designed for circularity, reuse, modularity
- Enables local services/solutions, empowers many
- Open source, commons, collaborative



THE REGENERATIVE TECH STACK



EXAMPLES OF REGENERATIVE TECHNOLOGIES

Company Profiled	Description	Market Opportunities
	Platform for ecologically aligned biomaterial design	Chemicals, Material Science, Consumer Packaged Goods, Manufacturing
	Search engine that plants trees	Technology, Urban Design, Bioregional Projects
	Wave-powered autonomous desalination technology	Energy, Disaster Relief, Tourism
	Community powered tourism platform	Tourism, Bioregional Projects, Small Businesses
	Plastic circularity platform, incentivizing plastic uptake economies	Plastics, Chemicals, Consumer Packaged Goods, Manufacturing
	Digital infrastructure for ecological credit accounting	Agriculture, Food, Conservation, Finance
	Technology and material science platform using mycelium for industrial design	Packaging, Construction, Material Science, Manufacturing
	Sustainability intelligence and regenerative benchmarking platform	Agriculture, Food/Beverage, Hospitality
	Community-driven donations platform for regenerative and social impact projects	International Development, Nonprofits, Social Impact, Philanthropy
	Generative design and robotics for coral restoration at scale	Ocean Conservation, Food Security

A new market category, supporting ecosystemic health across people, planet, and economy.

LET'S CULTIVATE THE SOIL FOR REGENERATIVE TECHNOLOGY!

An open call for ideas to support ecosystem building and category creation in regenerative tech.

JOIN THE REGEN TECH COMMUNITY

For: EVERYONE

We are developing an open and thriving community to help cultivate the mindsets, permission, and language to come together and drive change in how we build, use, and invest in Tech.

- Look for us on Capital Institute, RegenIntel, Global Regeneration Collaboratory (GRC), ReFiDAO, Collaborative Tech Alliance sites



BROWSE AND CONTRIBUTE TO THE REGEN TECH DIRECTORY

**For: PRODUCT MANAGERS, DESIGNERS, LEADERS,
INVESTORS**

We are developing an online registry of real-world examples, to illustrate diverse forms of regenerative tech potential and peril. The mutual aid element means you can directly contribute to any initiative.

- The RegenTech platform seeks to cross pollinate these initiatives and the humans co-creating them, to weave a new regenerative tech ecosystem



PARTICIPATE IN OUR INNOVATION STATION

**FOR: LEADERS, PRACTITIONERS, DESIGNERS,
ENGINEERS, INVESTORS**

Join us in co-creating, or leading, regenerative technologies, programs, events, curricula, and more, or submit your idea for funding.

- Join upcoming Workshops, Product Profiles, Heart/Hackathons, Bonfires, Working Groups, and more



JOIN US!



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www.regentech.co