

Connecting the Bits with the Beats

- And create a better world whilst doing so





INNOVATION DRIVES SOCIAL PROGRESS



SINCE 1950:

Deaths from infectuous diseases

-75% Infant Mortality

+50% Life expectancy

SINCE 1960:

+200% Crop yields

-50% Population suffering from malnutrition

Deaths from famine

SINCE 1970:

+60% Industrial productivity

Working hours per worker

SINCE 2000:

X10.000 Microchip processing power

:10.0000 Cost of data storage

X10.000 Data transfer speed





By 2035, we need:



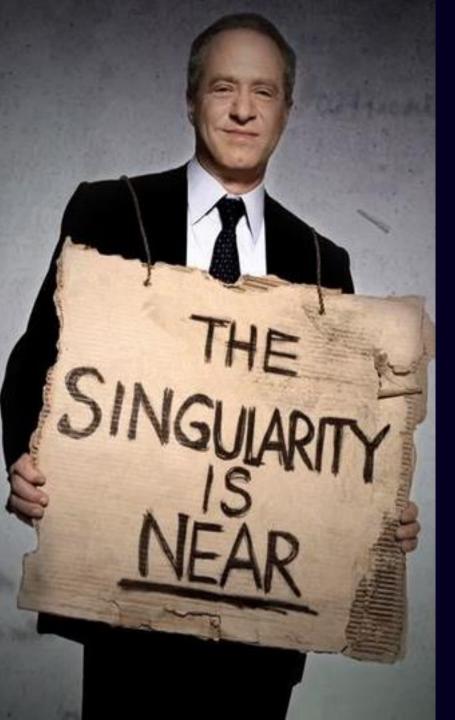




By 2035, we need to reduce our CO2 emissions by:

45%







Vastly expanded human intelligence (predominantly nonbiological) spreads through the universe

Technology masters the methods of biology (including human intelligence)

Technology evolves

Epoch 6 The Universe Wakes Up

Patterns of matter and energy in the universe become saturated with intelligent processes and knowledge

Epoch 5 Merger of Technology and Human Intelligence

The methods of biology (including human intelligence) are integrated into the (exponentially expanding) human technology base

Epoch 4 Technology

Information in hardware and software designs

Brains evolve

Epoch 3 Brains

Information in neural patterns

DNA evolves

Epoch 2 Biology

Information in DNA

Epoch 1 Physics & Chemistry

Information in atomic structures

The 6 Epochs of Evolution

Evolution works through indirection: it creates a capability and then uses that capability to evolve the next stage.





Science, math and engineering can give you the exhilarating power to become not mere spectators or consumers, but the active explorers, makers and doers who will help invent the future.

— Susan Hockfield —

AZ QUOTES



The Age of Living Machines

How Biology Will Build the Next Technology Revolution

Susan Hockfield











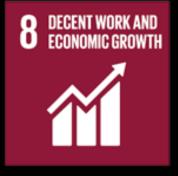




































shaibu bukari

MICROFINANCE FOR POVERTY REDUCTION:

A CASE STUDY OF APED IN THE TWIFU-HEMANG-LOWER DENKYIRA DISTRICT IN THE CENTRAL REGION OF GHANA.







Francis Alfred

Microfinance a Tool to Poverty Reduction

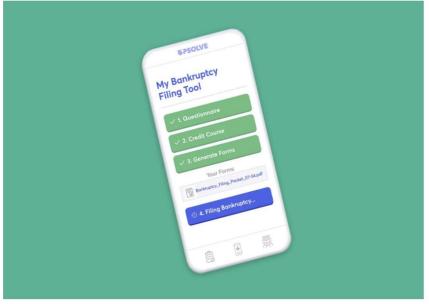
Impact of Microfinance on Asset Accumulation Among Women



← THE BEST INVENTIONS OF 2020

Free Filing

Upsolve



Courtesy

NOVEMBER 19, 2020 8:56 AM EST

Filing for personal bankruptcy can help people get back on their financial feet—although the process can be pricey. "The cruel irony in America is that it can cost \$1,500 in court filing and attorney fees to tell the court you have no money," says Rohan Pavuluri, the founder of tech nonprofit Upsolve. Upsolve's software fixes that, helping users complete the complex legal paperwork so that they can file for bankruptcy without hiring a lawyer. Since launching in 2018, the free service has helped relieve more than \$250million in total debt nationwide. —Mariah Espada

CONTACT US AT LETTERS@TIME.COM.











USING AI FOR SMARTER FARMING



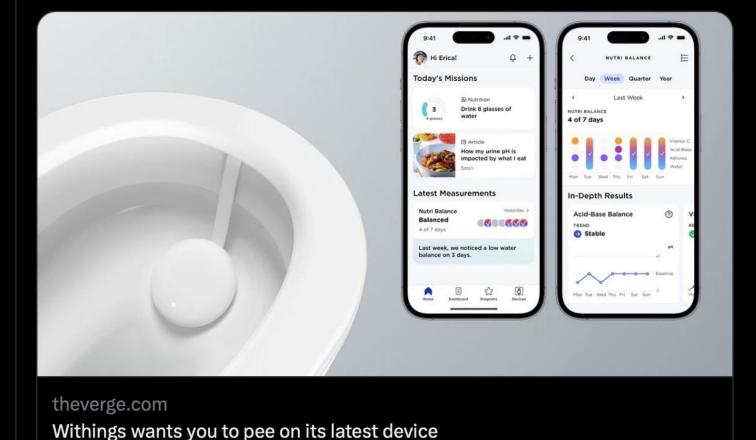








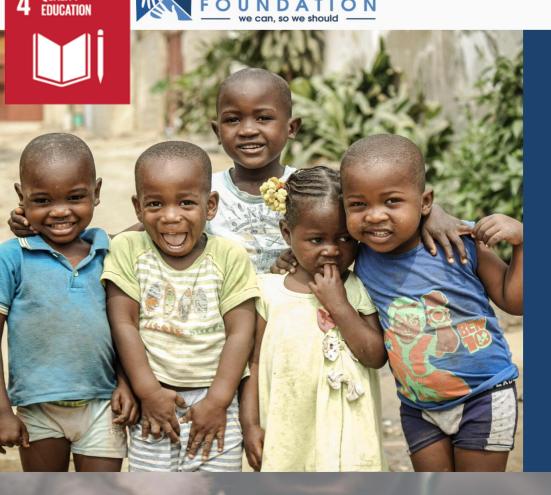
CES 2023's best health tech was Withings' U-Scan, an at-home urinary lab that you stick in your toilet... and, well, pee on. Once the giggling subsides, you start to see that this is actually a thoughtful device that could make a lot of lives easier.



Withings doesn't want you to flush your health data away







PROJECT SELECTION CRITERIA

These are some of the criteria that the van Kesteren Foundation use to select projects we work with:

- → Focus on children, education, well-being, and health.
- → Primarily located in Developing Nations
- → Funding only to registered charitable organisations and not to individual persons.
- → Supported by a robust governance structure and be sustainable long-term.
- → Provide regular progress reports and accounting records to the van Kesteren Foundation.
- → Project visit and due diligence before any substantial commitment.
- → Regular visits to review project development.

THE VAN KESTEREN FOUNDATION DOES NOT ACCEPT UNSOLICITED APPLICATIONS FOR FUNDING.

"Hunger is not a problem. It is an obscenity. How wonderful it is that nobody need wait a single moment before starting to improve the world."







* Unofficial Udemy page

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SUBJECT AREA ~

PRICE ~

START DATE ~

SCHOOLS ~

DURATION ~

DIFFICULTY ~

MODALITY ~

132 results

QUALITY EDUCATION

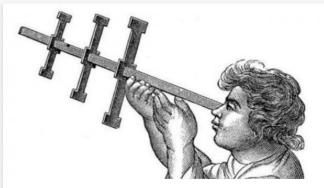


</> PROGRAMMING

ONLINE

CS50's Introduction to Game Development

Learn about the development of 2D and 3D interactive games in this hands-on course, as



HUMANITIES

□ ONLINE

PredictionX: Lost Without Longitude

Explore the history of navigation, from stars to satellites.



BUSINESS

ONLINE

Nonprofit Financial Stewardship

Webinar: Introduction to Accounting and Financial

Statements







THE NEW LANGUAGE OF CARBON



Too much carbon in the atmosphere is damaging. Instead, it should be retained in durable forms such as plastic and wood or in living organisms. Recycling materials and nurturing the soil ensure that carbon ends up in the right places in the right amounts.

FUGITIVE CARBON

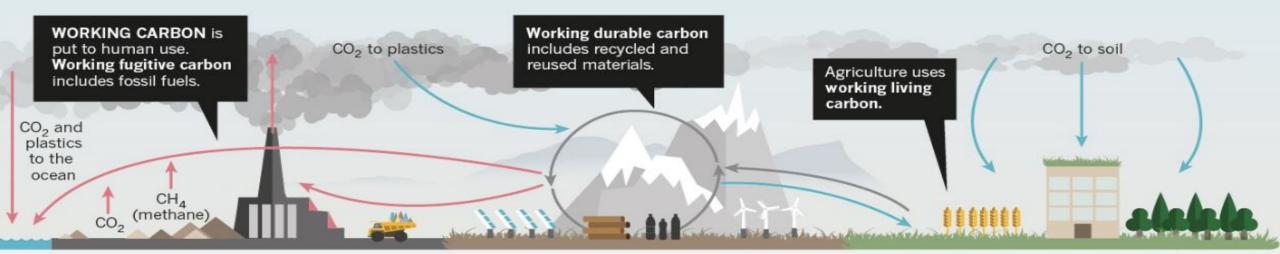
Has ended up somewhere unwanted and can be toxic. It includes carbon dioxide released into the atmosphere by burning fossil fuels, 'waste to energy' plants, methane leaks, deforestation, much industrial agriculture and urban development. Plastic in the ocean is fugitive carbon.

DURABLE CARBON

Locked in stable solids such as coal and limestone, or in recyclable polymers that are used and reused. It ranges from reusable fibre, such as paper and cloth, to building and infrastructure elements that can last for generations and then be reused.

LIVING CARBON

Organic, flowing in biological cycles, providing fresh food, healthy forests and fertile soil. It is something we want to cultivate and grow. Soil includes living carbon in the form of fungi, microbes, humus, legumes and grasses.



MANAGEMENT STRATEGIES

CARBON NEGATIVE

Actions that pollute the land, water and atmosphere with various forms of carbon. For example, releasing methane into the atmosphere or plastic waste into the ocean is carbon negative.

CARBON NEUTRAL

Actions that transform or maintain carbon in durable earthbound forms and cycles for use across generations; or renewable energy such as solar, wind and hydropower that do not release carbon.

CARBON POSITIVE

Actions that convert atmospheric carbon to forms that enhance soil nutrition or to durable forms such as polymers and solid aggregates. Also includes the recycling of carbon into soil nutrients from organic materials, food waste, compostable polymers and sewage.

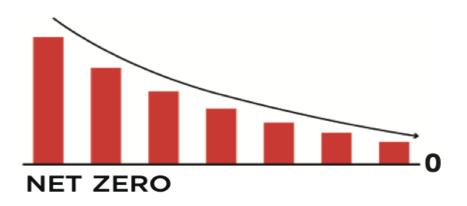
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ECO-EFFICIENT APPROACH = "LESS BAD" TRAJECTORY

Reduce Carbon

Minimize Chemicals of Concern

Energy Efficient

Reduce Water Consumption

Goal of Zero Hazards



ECO-EFFECTIVE APPROACH ="MORE GOOD" TRAJECTORY

Increase Positive Ingredients

Energy Positive

Improved Water Quality

Increased Biodiversity

Goal of 100% Positive / Beneficial Products, Processes and Systems





"Consider this: all the ants on the planet, taken together, have a biomass greater than that of humans. Ants have been incredibly industrious for millions of years. Yet their productiveness nourishes plants, animals, and soil. Human industry has been in full swing for little over a century, yet it has brought about a decline in almost every ecosystem on the planet.

Nature doesn't have a design problem. People do."

— William McDonough, Cradle to Cradle: Remaking the Way We Make Things









Hi Tatiana, how are you? I'm Dr. David. I'm going to examine you...











Welcome to BioPAL - The BIOMASS Product Algorithm Laboratory



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