



EARTH REPAIR UNITS

WHITE PAPER

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INTRODUCTION

EARTH REPAIR UNITS blockchain and cryptocurrency (ERU) actively promotes the restoration of our planet by allowing seamless and comprehensive transactions between vendors in the environmental remediation sector.

The EARTH REPAIR UNITS blockchain (network) is a comprehensive online platform for supplier and consumer discovery in the environmental remediation industry around the world. The network provides direct access to detailed information in every service category required for clean-ups and designs perfect remediation recipes based on optimization routines built in the ERU technology.

The network's official currency is the ERU coin.

As the exclusive currency utilized on the EARTH REPAIR UNITS blockchain, a portion of all ERU transaction fees are donated to EARTH REPAIR UNITS FOUNDATION to implement costless clean-ups around the world.

ENVIRONMENTAL REMEDIATION

OVERVIEW: THE BASICS

Environmental pollution is one of the most existential threats our world faces. Beginning in the Industrial Revolution, humans began disposing of hazardous waste in natural areas, damaging these sites dramatically and harming human and animal health.



Environmental remediation refers to the removal of contaminants from sites that have been polluted from industrial, manufacturing, mining, and commercial activities.

Common Types of Incidents Requiring Remediation:

- Greenhouse gases
- Toxic chemicals
- Particulate matter
- Oil spills
- Radioactive contaminants
- Plastic waste
- Other forms of trash & more



These contaminants can be released into the soil, air, and water (including groundwater) from activities such as mining, drilling, deforestation, chemical processing, agriculture (using pesticides and fertilizers), and manufacturing.

ENVIRONMENTAL REMEDIATION

OVERVIEW: STATISTICS & DATA

683 LBS

Toxic chemicals released
into our air, land, and
water around the world

EVERY SECOND

9 MILLION

Deaths caused by
pollution or
environmental toxins*

EVERY YEAR

Toxic chemicals: Substances that can cause severe illness, poisoning, birth defects, disease, or death when ingested, inhaled, or absorbed by living organisms.

*1 in 6 deaths worldwide is caused by pollution related diseases (more than 15x the number of deaths from violence)

**10 MILLION
TONS**

Toxic chemicals released
into our environment

EVERY YEAR

**2+ MILLION
TONS**

Of these chemicals are
recognized carcinogens

EVERY YEAR

Carcinogen: Any substance with the capacity to cause cancer in humans.

ENVIRONMENTAL REMEDIATION

OVERVIEW: STATISTICS & DATA

Air Pollution Kills Far More People Than Covid Ever Will

More than 10 million people die every year from a problem that doesn't receive the attention it should.

The New York Times

Lead Poisoning Kills Nigeria Children



By Agence France-Presse
Oct. 6, 2010

ANKA, Nigeria (Agence France-Presse) More than 400 children have died of lead poisoning in northern Nigeria in the last six months, the aid group [Doctors Without Borders](#) said Wednesday.

Florida manatee deaths: EPA sued over Indian River Lagoon water quality by Earthjustice

Coroner urges UK to clean up toxic air after London girl's death

Tons of dead fish wash up on banks of Lebanon's highly polluted Lake Qaraoun

A new report by the UN Special Rapporteur on Human Rights and Toxics states that one worker dies every 30 seconds from toxic exposure in the workplace



Workers are dying as a result of toxic exposure in the workplace at a rate of one every 30 seconds, according to the new report from the UN Special Rapporteur on Human Rights and Hazardous Substances and Wastes, presented on 12 September at the 39th session of the Human Rights Council, in Geneva.

ENVIRONMENTAL REMEDIATION

OVERVIEW: CLEAN-UP PROCESS

The traditional remediation process often entails the following steps:

- 1) Site Assessment: Specialists examine the site to verify what contaminants are present. They map the area and sample materials such as soil and groundwater to evaluate the extent of the pollution and how much effort will be required to remove it.
- 2) Determine Remediation Methods: Specialists determine appropriate clean-up methods such as excavation, dredging, oxidation, soil vapor extraction, thermal desorption, pump and treat, nano-remediation, and more.
- 3) Select Safety Measures: Specialists assess safety measures that will need to be enforced to protect the clean-up crew and community members from injuries, exposure to toxic chemicals, and wrongful death.
- 4) Remediate the Area: Specialists then conduct the actual clean-up, complying with local and federal regulations.
- 5) Further Evaluation: Once the clean-up is complete, specialists re-examine the area to determine if their efforts were successful or if additional remediation is necessary.

ERU'S EXIGENCE

The need and obligation for environmental remediation continues to grow everyday as humans exist on this planet. It is our responsibility as inhabitants and users of Earth's resources to help sustain, protect, and restore our environment.

Ecological awareness perhaps emerged when early hunter-gatherers saw how fire and hunting tools impacted their environment. Throughout history, many ecological conscious individuals and groups urged for the protection and improvement of our environment. However, it was not until the 1960s when adverse health effects of industrial pollution became more prominent to the general public, leading policymakers to implement more aggressive action and comprehensive regulations.

When a site becomes contaminated, cleaning it up can be very expensive, complicated, and even dangerous. Some remediation projects last for several months and even years. Due to the complex nature of environmental remediation and lack of an end-to-end centralized database, the amount of clean-ups completed yearly falls desperately short compared to the newly contaminated sites emerging every day.

ERU'S EXIGENCE

The ERU network provides unparalleled information on environmental remediation needs and services around the world. From proven methods of remediation and new emerging technology to the service providers and regulatory compliance, the all-in-one network curates the perfect recipe for remediation projects to be achieved with ease and efficiency.

Our goal is to equip the world with comprehensive remediation data in a Trustless environment to help people make informed decisions, find solutions, share in our resources, and ultimately improve the quality of life on this planet.

EARTH REPAIR UNITS actively promotes Earth Restoration by:

- Providing a comprehensive network to strengthen the Environmental Remediation industry thus boosting clean-ups of contaminated sites
- Educating people globally about environmental pollution and environmental remediation as to provide awareness and caution
- Donating a portion of all ERU transaction fees to **EARTH REPAIR UNITS FOUNDATION** to implement **FREE** clean-ups around the world

ERU'S EXIGENCE

EARTH REPAIR UNITS FOUNDATION is a non-profit organization dedicated to identifying and implementing environmental clean-up projects via ERU's blockchain and cryptocurrency.

THE PROCESS:

- 1** The Foundation Board presents a list of vetted remediation projects from economically depressed areas
- 2** ERU Coinholders vote from the list of suggested remediation projects
- 3** Clean-ups implemented for FREE

The usage of **ERU** leading to costless clean-ups around the world strongly embodies our belief that even the largest endeavors can be achieved when the proper resources and contribution methods are made accessible to the populace.

