

# AVIANBITCOIN LITEPAPER



## **Introduction**

**The term, 'Avian' as an adjective, is a derivative of Aves, which has to do with birds – as Ave is the scientific class that birds belong. In this particular case, our interest is focused on rare and endangered species of birds, which we consider to be a special category of birds which has, for long, not been given the deserved attention and priority in the blockchain industry. The core interest of the Avianbitcoin project is to fill this gap, as our own contribution to the protection of ecological balance and associated interests.**

**Avianbitcoin (AVIAN) aims to work towards the protection and preservation of rare and endangered species of birds; through the collection of relevant data on these bird species and the creation of awareness on the need to protect these rare bird species.**

**Avianbitcoin is a member of the American Bird Conservation Alliance.**

## **The Problem Avianbitcoin Seeks to Solve**

**Our project was inspired by a belief that rare bird species are such unique creatures in our natural environment without which ecosystems would not continue thriving as before, should they face possible extinction. The feared extinction of these rare species would also reduce the natural gratification humans derive from observing nature and relating with nature, and by implication, having negative effects on important sectors such as the tourism industry, the entertainment industry, nature arts and animal conservation interests.**

**To grasp the import of the problem that the Avianbitcoin project seeks to help confront and resolve, think of how dull and lackluster our natural environment would be if we no longer hear the unique voices of exotic parrots or get to admire their plumes; or if the California condor (*Gymnogyps***

**californianus) becomes a bird that our grandchildren would only know about through words of mouth or pictures in books or on screens; or if the Giant Ibis(*Thaumatibis gigantean*) becomes relegated to the history books.**



The Stresemann's Bristlefront, found only in Bahia State, Brazil, is categorized as being 'critically endangered'. Only one is known to remain in the wild.



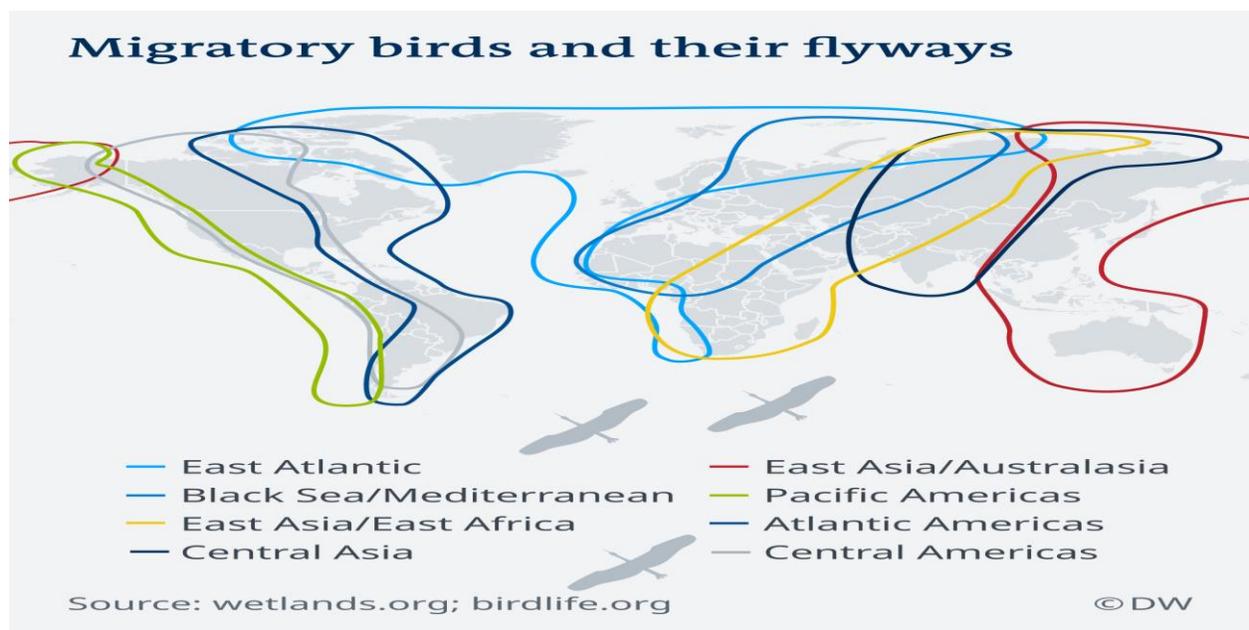
The Antioquia Brushfinch, once described in 2007 as a new species, is found only in Antioquia Department, Colombia. Last known population is fewer than 20.



The Bahama Nuthatch is native to The Bahamas where its population, once estimated to be 1,800 in 2004, reduced drastically to 23 within 3 years. When Hurricane Mathew struck the island of Grand Bahama in 2016, the Bahama Nuthatch disappeared and is now feared extinct.

**There are several other species of wonderful birds whose numbers are observed to be gradually decreasing, while some are getting to the terrifying stage of outright disappearance. Some of the identified threats to the survival of these rare and endangered bird species include but not limited to:**

- (1) Agricultural activities – as increasing demands for farmlands often leads to the destruction of the habitats of these birds**
- (2) Expanding human settlements, causing both encroachment on, and the destruction of, natural bird habitats**
- (3) Hunting and poaching**
- (4) Predators**
- (5) Wild fires**
- (6) Extreme weather conditions**
- (7) Exhaustion during migrations**
- (8) Disease infections along migration routes and after change of environment**



**Birds migrations often cover several thousands of kilometers. Sometimes significant numbers die during migrations, either through exhaustion or collision with objects or other birds.**

Location	Site	Latitude (N)	Longitude (W)	Alt	N Resident	N Migratory HY	N Migratory AHY
Anchorage	Potter Marsh	61°04'17.62"	149°48'26.20"	55	1/2	0/0	0/3
	South Bivouac	61°09'19.25"	149°44'45.88"	150	0/10	0/0	3/44
	Campbell Creek	61°09'50.00"	149°46'11.85"	104	2/35	2/113	9/65
Fairbanks	Creamers Field	64°52'03.20"	147°44'52.16"	134	4/76	1/68	11/103
Coldfoot	Rosie Creek S	67°10'52.06"	150°18'19.06"	427	0/16	0/7	1/25
	Rosie Creek N	67°11'44.66"	150°16'45.96"	384	0/4	0/4	0/22
	Slate Creek	67°14'06.23"	150°07'52.90"	345	0/11	0/0	7/41
	Marion Creek	67°19'07.35"	150°09'23.64"	330	0/6	0/0	8/22
Total					7/160	3/192	39/325

Residents and hatch year migratory birds were infected by one lineage *Plasmodium* P43 whereas after hatch year migratory birds were infected by six lineages of *Plasmodium* spp (see Supporting Information).  
doi:10.1371/journal.pone.0044729.t001

Diseases and other infections also take tolls on bird populations generally. It takes even more tolls on endangered species and other species with dwindling populations. Above are some GPS coordinates and other relevant data of migratory hatch year (HY) and after hatch year (AHY) individuals infected with *Plasmodium* spp. given by location.

**Already, the International Union for Conservation of Nature (IUCN) has listed the Spix's macaw (*Cyanosittaspixii*), a specie of parrot, as already extinct in the wild. There are other rare species which have not been officially declared as extinct but glaringly on the brink of extinction, such as the orange-bellied parrot (*Neophemachrysogaster*), which is native to Australia and with last known population of fewer than 30 in the wild; the New Caledonia lorikeet (*Charmosynadiadema*), sighted last in 1987 and with last known population of fewer than 50; the Sinu parakeet (*Pyrrhurasubandina*), sighted last in Colombia in 1949 and with estimated population of fewer than 50. These are worrisome statistics. The trend needs to be confronted. Avianbitcoin has chosen to do so with its own brand of Blockchain technology.**

## **Value Proposition**

**From the tourism industry to animal conservation interests; to the entertainment industry, the nature arts, NGOs, governments as well as private individuals, there is increasing concern that we are gradually losing our very valuable birds, especially the exotic and aesthetic ones. Avianbitcoin project boldly steps in to help solve this problem with the use of our brand of blockchain technology combined with people participation.**

**The Avianbitcoin project is designed to thrive and sustain its drive towards its nature-friendly goals by actively engaging the participation of members of the Avianbitcoin blockchain community in confronting and hopefully resolving the challenges to the existence of these rare and endangered species of birds, including reversing rare and endangered bird species' extinction patterns that are already evident. This would be done in such a way that active participants in this noble endeavor would be rewarded for their participation. These rewards would act as an incentive system to boost the morale of those who are advancing our project's noble objective. Hence, for every community member who successfully meets the requirements of participation, instant payments shall be effected, in proportion to the degree of the member's contribution. Ultimately, the Avianbitcoin project would be sustained on the basis of win-win for all parties involved.**

## **Our Blockchain Approach**

**Since we understand that gathering information on the focus of our interests is crucial to the success of the Avianbitcoin project's core objective of the protection and preservation of rare and endangered species of birds, the Avianbitcoin platform shall be designed to act as both a collation portal and a repository of vital information about these rare and endangered bird species. Anyone with information and details of rare and endangered species can easily put the details on the Avianbitcoin network for easy tracking and preservation. The details will be verified and validated. Once confirmed, it is then cryptographically uploaded into the blockchain and the wallet of the originator would be credited with zAviantokens exchangeable to Avianbitcoin (AVIAN).**

## **The Process of Participation**

**Stakers will form the nucleus of the conservation efforts of the Avianbitcoin project, as they will be eligible to submit information into the system. Stakers will have the opportunity of submitting information about new bird discoveries, rare species of birds as well as endangered species. The**

**information to be submitted into the system shall include but not limited to: pictures, population, coordinates and location, the normal and scientific names of the birds observed or discovered, migration routes, etc. The contributor would then be rewarded, after the validation and verification of the submitted information and data.**

**Rewards would be given per specie. To avoid confusion that might be caused should more than one person submit information on the same specie, the system will automatically credit the reward to the first contributor.**

**After the submission of the necessary information on the website, the submitted information would go through a process of careful verification and validation, before being cryptographically uploaded to the blockchain.**

## **Why We Stand Out**

**The Avianbitcoin project has stepped out into a path that is not commonly travelled in the Blockchain industry, namely wildlife conservation, with special focus on newly discovered, rare and endangered bird species. By so doing, the Avianbitcoin project is filling a void. We are championing the protection of special creatures whose imminent extinction could deprive us of an important part of what makes nature colourful and interesting. From within the vast, growing Blockchain industry global community we emerge to help create awareness about the disturbing trend of imminent extinction of rare species of birds and helping to rally people to the cause of checkmating this unfortunate pattern in our ecosystem.**

**The Avianbitcoin Projectproject will also be playing roles that are complimentary to sectors such as the tourism industry, animal conservation interests, the nature arts as well as other vested interests.**

## **Our Dream Ecological Future**

**With the Avianbitcoin project, we seek to create awareness about the impending disruptions to the ecological balance in nature as well as**

**consequences on the global human community that could be brought about by the possible extinction of certain species whose importance many are yet to fully appreciate. We seek to nurture and build an increasingly enlightened community of bird-friendly participants whose continued participation in advancing the Avianbitcoin objectives would help bring about a world in which the protection and preservation of rare and endangered bird species would be seen as a norm and a tradition – not merely as a cause to be left only for governments and NGOs. We seek to achieve a world where our landscapes, tree tops and skies would be beautified with the sights and sounds of happy, colourful birds.**

## **Avianbitcoin Links**

**Website: <https://avianblockchain.com/>**

**Twitter: <https://twitter.com/avianbitcoin/>**

**Discord: <https://discord.gg/4cRaB8hrXh/>**

**Telegram: <https://t.me/avianbitcoin/>**