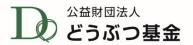
# **Project Report of Sakura-Neko** (Spayed/Neutered Cats) TNR in the Tokunoshima Island



Period of activity 15th November, 2014 - 27th January, 2016 **Applicants** 

Three towns in the Tokunoshima Island (Amagi-town, Isen-town, Tokunoshima-town)





### Background

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Public Interest Incorporated Association "Doubutsu-kikin (Animal foundation)" has executed, collaborating with public administrations, the free TNR (Trap-Neuter-Return) sterilization operations targeting at all existing cats (estimated number 3,000) inside the Tokunoshima Island. The project was decided for the purpose of protecting the Amami wild black rabbits against predations by cats. It will certainly contribute to the effort of the Amami Islands, Kagoshima Prefecture, in order to be World Natural Heritage site candidate. The Tokunoshima Island is the place where Amami wild black rabbits occur, which are designated as a special natural treasure. In 2014, though Tokunoshima's mountains were designated as quasi-national park, this mountain area is going to be specified as a national park anytime soon. The Amami Islands set out its registration in the World Natural Heritage Lists in the upcoming two years, however, the estimated current number of Amami wild black rabbits, which are reasons to be designated, is only 200 in the whole island of Tokunoshima or, even worse, they are being designated as an endangered species.

#### Amami wild black rabbits and Cats

The Ministry of the Environment monitors the inhabiting situation of Amami rabbits' cubs by automatic shooting sensor cameras, and a scene when a feral cat preyed an Amami wild black rabbit was captured. Due to improper feeding, lack of sterile operation, or abandonment, dogs and cats get feral, propagate themselves, and then prey on wildlife. The investigation has presented this serious problem.

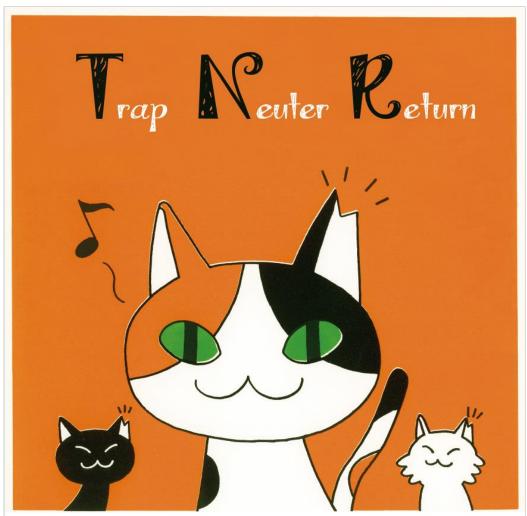
### The Sakura-Neko (Spayed/Neutered Cats) TNR project in the whole Tokunoshima Island

The project aimed to protect the rare animals including the Amami wild black rabbits and also to make the Tokunoshima Island the world best nature-friendly and wildlife-friendly island. We believed that the sterilization operations for all estimated 3,000 cats inside the island and the shifting to "Sakura-Neko (Spayed/Neutered Cats)" would realize a coexistence of managed cats, humans, and Amami wild black rabbits.



Amami wild black rabbit captured by feral cat (Photo: Amami Nature Conservation Office of the Ministry of the Environment)

### What are "Sakura-Neko (Spayed/Neutered Cats)"?



The cats with V-shaped ear are all **neutered**.

The shape looks like a cherry blossom, Sakura in Japanese.

So we call them **"Sakura Neko"**. Neko means Cat.

Sakura Neko only wants to make the limited life peaceful. We hope your kindness to them.

# Sakura Neko are to Be Loved!



Contact
Posting without permission is prohibited

# **Problem Analysis and Solutions**

#### **Problems** between Amami wild black rabbits and Cats

- I. The problem of cats that occur in the same area where Amami wild black rabbits occur
- II. The problem of cats' owners who abandon exceeded cats neglecting sterilization operations
- III. The problem caused by stray cats
- IV. The problem of no existence of veterinary hospital for small animals (as of 2014)
- V. There is no time left at this precise moment after the number of Amami wild black rabbits has already been reduced to 200

#### **Analysis of Problems**

Cats didn't originally exist in the habitat area of Amami wild black rabbits, in other words, cats never used to occur in the Tokunoshima Island from the very beginning. However, due to below two reasons:

- 1. Owners abandon their pet cats. Those abandoned cats become stray cats and then enter into the habitats of Amami wild black rabbits.
- 2. Owners abandon their exceeded cats because of their negligence of sterilization operations and leave them in the area of Amami rabbits' habitats. cats, in this manner, became to occur in the habitat area of Amami wild black rabbits.

#### **Concrete Solutions**

One problem is linked to another, therefore, we needed to carry out the project not only for the cats living in the habitat area of Amami rabbits, but also for stray cats and pet cats inside the whole island. We, as a consequence, aimed to spay and neuter all existing cats regardless of their type of habitat in the Tokunoshima Island. In addition, as for the cats that occur in the habitat area of Amami rabbits, we applied the method of "Trap-Neuter-Rehome" on behalf of the conventional "Trap-Neuter-Return", offering them shelter to continue to live in Amagi-town. Since 2015, with respect to those cats from Amami wild black rabbits' habitats, the Ministry of the Environment is working hand-in-hand with the Planning Department of Amagi-town for the purpose of continuing to provide shelter and look for their adopters.

## **Project Summary**

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#### **Working Method**

Three town offices played a key role in "Trap" and "Return" of TNR, and the foundation assumed a role in "Neuter". The necessary cost, such as baits in cage traps, transportation and carriage, was borne by each office, and the foundation bore medical expenses associated with surgeries on the spot, travel cost of veterinarians and staff team of the foundation.

#### **Public Relations**

The foundation made posters and leaflets at its own cost to notify islanders widely about the project. All three town offices were responsible for the distribution to each house and posting them in public facilities. Furthermore, the foundation organized exhibitions to introduce this Sakura-Neko (Spayed/Neutered Cats) TNR project in each public office and the lifelong learning centers seizing the opportunity of Be Kind to Animals Week.

#### **Lending Cage Traps**

The foundation lent 212 cage traps to three towns in order to trap cats.



# Schedule

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#### **General Schedule**

Program	Venue	Content of implementation
Press conference 1-3/11/2014	Amagi Town Office	Press conference
1st 15-22/11/2014	Farm of Tokunoshima High School	5 3 7
2nd 25-31/01/2015	Farm of Tokunoshima High School	6 4 1
3rd 16-21/04/2015	Former Tokunoshima municipal Kaminomine Elementary School, separate school of Shimokushi	2 5 1
4th 14-19/06/2015	Agricultural Center of Amagi-town	2 3 3
5th 5-9/11/2015	Agricultural Center of Amagi-town	3 1 4
6th 24-27/01/2016	Former Folklore Museum of Isen-town	160
Total		2,136

#### Number of assisted veterinarians

Veterinarians who participated as volunteers bore their own expenses of transportation and lodging

Implementation Period	Referring Veterinarians	Volunteer Veterinarians	Total
1st	4	2	6
2nd	6	2	8
3rd	4	3	7
4th	3	2	5
5th	3	0	3
6th	2	0	2
Cumulative number of veterinarians	20	9	31

# **Venues of Surgery**



1st Farm of Tokunoshima High School (Former Tokunoshima Agricultural High School)



2nd Farm of Tokunoshima High School (Former Tokunoshima Agricultural High School)



3rd Former Tokunoshima municipal Kaminomine Elementary School, separate school of Shimokushi



4th Agricultural Center of Amagi-town



5th Agricultural Center of Amagi-town



6th Former Folklore Museum of Isentown

# **On-site Surgery**



Morning assembly before surgery



 Cats have arrived by governmentallyarra nged truck



Reception of pet cats and dogs



Tagging cages before surgery



 Injection of stabilization agent and anesthesia



Tagged paws need antibiotic / vaccine / flea and tick removal

# **On-site Surgery**



Cutting hair and ear





● Spay / Neuter



Small 1cm postoperative scar by experts



 Fluid replacement, eye drops, sterilization, earwax removal, treatment after surgery



 Other medical treatments, if any, such as bite by a venomous snake

# **On-site Surgery**



 Washing and sterilizing surgical instruments each time



 After surgery, cats keep at rest overnight



 Kittens are protected in the town office until they are grown for a next on-site surgery.



Cleaning the cages during surgery



 Cats are returned to their home region on the following day



 The project received wide media attention from KTS Kagoshima Television Station, and so on.

### **Handmade Box Cage**

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#### Eco-friendly

The plastic box cages to trap and protect cats have been made in the town offices. The boxes are originally for potatoes, so they are reusable after the project.



#### Functionality

Two wooden boards cover the box. When stabilization agent should be injected, insert a mesh board through the gap of two wooden boards so that the cat can easily move towards the box corner and to minimize stress of the cats.



#### Characteristics

The cage color varies depending on the town. Light blue means Amagi-town, Yellow means Isen-town, and Green and black mean Tokunoshima-town. All the cages are handmade by each town office.



### **Identification Tag**

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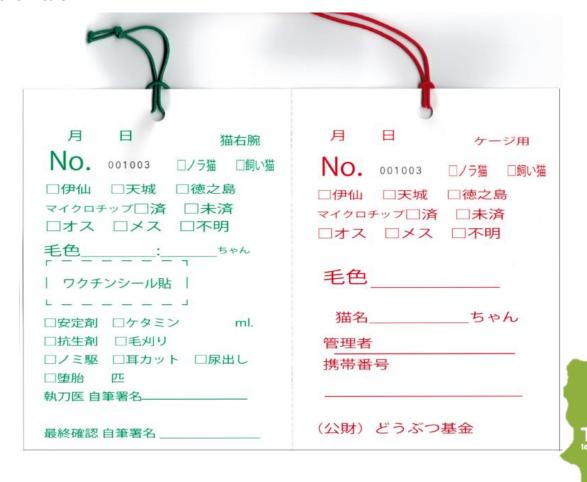
As we had to manage about 100 surgeries per day, we used detachable identification tags to identify each cat and its necessary treatments.

#### Home Region Management

To remember which cat belongs to which cage from which region, the red tag was attached to the cage and the green one to the cat's paw. We confirmed serial number after surgery, and returned the cat to its original cage.

#### Treatment Contents Management

To confirm necessary treatments correctly, such as vaccine, antibiotic, etc., we used check items to manage them. Amount of Ketamine was also recorded. When the cats were returned to their own cage after surgery, we detached the green identification tag from their paw, and input the data into a computer for final calculations. We thus managed the number of operation, the ratio of male/female, and used amount of chemicals.



### **Education**

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 Special program held in Isen Elementary School Minobe section chief and Sagami administrative director of the Environment Division lectured



 Commemorative photograph of the special program "Let's think about animal lives and the natural environment in Tokunoshima"



 Students of biology of Tokunoshima High School came to look on the surgery of Dr. Yamaguchi



 Class in the open air by Sagami administrative director



 Explanation about microchip by a prefectural veterinary doctor



Islander children came to visit

### **Spaying and Neutering Dogs**





#### Charged Surgeries for Pet Dogs

There used to be no veterinary hospital in Tokunoshima. This caused difficulty to spay or neuter pet dogs, and it had resulted in the existence of relatively many feral/stray dogs. Therefore, in response to strong demands from three town offices and islanders, we organized to spay and neuter 48 pet dogs with charge at the 3rd and 4th on-site surgeries. The fee was JPY 5,000 for both male/female. Additionally, JPY 1,000 was asked for vaccine, flea removal, and rabies prevention. We no longer planned to spay nor neuter dogs since the 5th on-site surgery, as the first veterinary hospital has been established in Tokunoshima.





#### No Charge Spaying and Neutering for Dogs in Tokunoshima Public Health Center

Taking the opportunity of 4th on-site surgery, we spayed and neutered 6 dogs protected in the public health center for free, collaborating with the Tokunoshima public health center. Spayed/neutered dogs were adopted by new owners through the prefectural humane society "Waco".

# Special Medical Treatments doubutukikin

Cats often came to the operating room with injury or disease. In this case, we tried our best to treat within the limited range of equipments. Below are some examples.



Operation to cut a paw



 A pet cat bitten by a venomous snake Owner took a first-aid treatment with tape



• A cat that got 21 stitches on right stomach, 10 stitches on inside left shoulder and 11 stitches on outside. Became a big eater from the day after the operation.



About 10 cats had been bitten by a venomous snake



 Operation of hydronephrosis. The kidney had become enlarged to baseball-size.



 Operation of diaphragmatic hernia at the same time.
 We performed artificial respiration with a tracheal tube.

### **Volunteer Veterinarians**

### doubutukikin

We received volunteer veterinarian doctors and AHTs (Animal Health Technician) from across the country, who are willing to support our project policy that protects Amami wild black rabbits without killing cats. Although volunteers had to bear all of their expenses such as transportation and lodging, 9 volunteer veterinarians participated during total 6 on-site surgeries. The project offered them an opportunity to exchange information and ideas. After the project, some veterinarians decided to initiate the local TNR activities, others decided to restart their career as veterinarian or open a veterinarian hospital specialized in the TNR and protected dogs. In addition to veterinarians, some volunteer AHTs also joined us in the project.



• Green cloth means veterinarian. The 3rd on-site surgery.



 Dr. Hirano participated with his family. Children were at local sitters during the surgery. One year later, he opened his own veterinary hospital specialized in the TNR and medical cares for protected stray cats and dogs in Odawara.



 Dr. Tokuda, director of the Ryunosuke Animal Hospital, carries on his original campaigns for free of charge sterilization operations in his hometown in Kyushu after his participation in this project.

TNR

# **Statistics**

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■ Tokunoshima-town

#### **Number of operations**

		Male	Female	Ear cut only*	No treatment**	Total
1st	17-21.11.2014	250	283	4	0	537
2nd	26-30.01.2015	317	318	6	0	641
3rd	17-20.04.2015	117	128	1	5	251
4th	15-18.06.2015	109	120	1	3	233
5th	5-8.11.2015	174	137	2	1	314
6th	24-27.01.2016	79	79	2	0	160
	Total	1,046	1,065	16	9	2,136

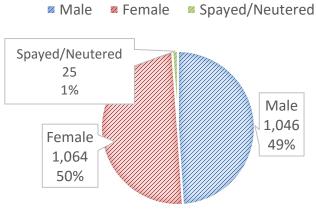
<sup>\*</sup> Trapped cats that had been already spayed/neutered. Only ear cutting, vaccine, and flea removal were applied.

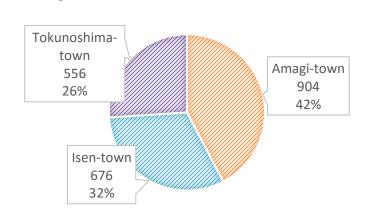
Amagi-town

#### MALE/FEMALE RATIO

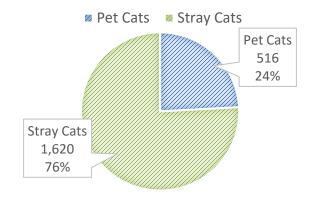
#### NUMBER OF OPERATIONS BY TOWN

Isen-town





PET/STRAY RATIO



<sup>\*\*</sup> Trapped cats that had been already spayed/neutered with V-shaped ear. No treatment was applied.

# **Statistics**

### Number of operations by town, by cats' type

		Implementation Period	Pet Cats	Stray Cats	Total
	1st	17-21.11.2014	85	50	135
	2nd	26-30.01.2015	48	331	379
A:	3rd	17-20.04.2015	8	79	87
Amagi- town	4th	15-18.06.2015	23	97	120
COVVII	5th	5-8.11.2015	7	115	122
	6th	24-27.01.2016	14	47	61
		Subtotal	185	719	904
	1st	17-21.11.2014	70	194	264
	2nd	26-30.01.2015	20	126	146
	3rd	17-20.04.2015	8	45	53
Isen-town	4th	15-18.06.2015	11	45	56
	5th	5-8.11.2015	43	53	96
	6th	24-27.01.2016	15	46	61
		Subtotal	167	509	676
	1st	17-21.11.2014	85	53	138
	2nd	26-30.01.2015	23	93	116
Tokuposhi	3rd	17-20.04.2015	14	97	111
Tokunoshi ma-town	4th	15-18.06.2015	9	48	57
IIIa coviii	5th	5-8.11.2015	27	69	96
	6th	24-27.01.2016	6	32	38
		Subtotal	164	392	556
	1st	17-21.11.2014	240	297	537
	2nd	26-30.01.2015	91	550	641
	3rd	17-20.04.2015	30	221	251
Total	4th	15-18.06.2015	43	190	233
	5th	5-8.11.2015	77	237	314
	6th	24-27.01.2016	35	125	160
		Total	516	1,620	2,136

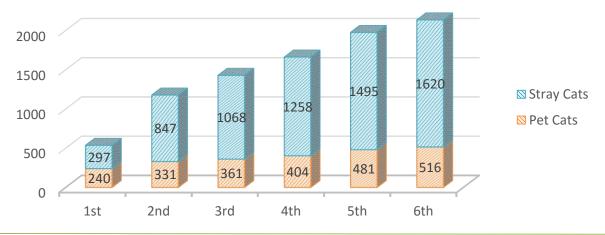
### **Statistics**

### doubutukikin

#### Cumulative total number of operations by cats' type

	1st	2nd	3rd	4th	5th	6th
Pet Cats	240	331	361	404	481	516
Stray Cats	297	847	1,068	1,258	1,495	1,620
Total	537	1,178	1,429	1,662	1,976	2,136

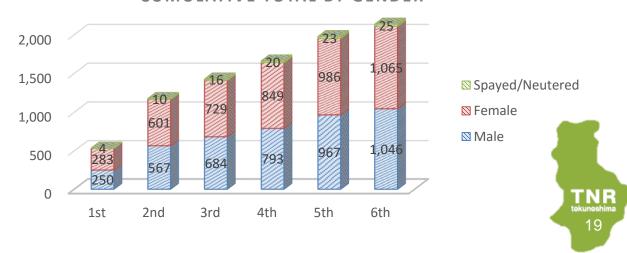
#### **CUMULATIVE BY CATS' TYPE**



#### Cumulative total number of operations by gender

	1st	2nd	3rd	4th	5th	6th
Male	250	567	684	793	967	1,046
Female	283	601	729	849	986	1,065
Spayed/Neutered	4	10	16	20	23	25
Total	537	1,178	1,429	1,662	1,976	2,136

#### **CUMULATIVE TOTAL BY GENDER**



### **PR Activities**

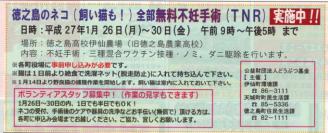
### doubutukikin

We previously announced the schedule of implementation of the project on websites and in public relations magazines of each town, and called for applications for an operation of pet cats and the provision of stray/feral cats' information.











### **Exhibitions**

### doubutukikin

To make this project a success, it was essential to have cooperation of local residents and the understanding about the project and its objective. In this regard, we made presentation panels of this Tokunoshima TNR Sakura-Neko (Spayed/Neutered Cats) project targeting at islanders and exhibited them in each town hall and other facilities where people often visit, seizing the opportunity of Be Kind to Animals Week.







 Exhibition in the lifelong learning center of Tokunoshima-town

Exhibition in the town hall of Isen-town (Website of Isen-town)



### **Letters of Appreciation**

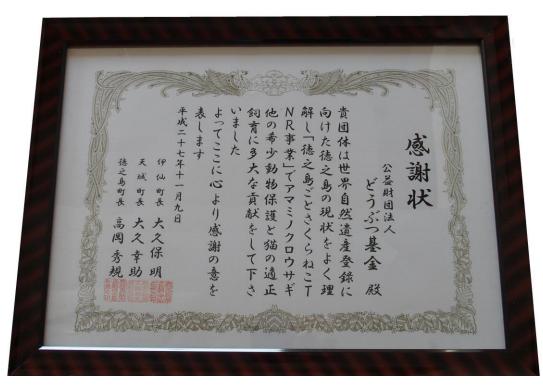
### doubutukikin

From all three participant towns: Amagi-town, Isen-town, Tokunoshima-town, the foundation received the certificate of gratitude for achievements and results of the free of charge sterilization operation Sakura-Neko (Spayed/Neutered Cats) projects.





• Presentation ceremony in the town hall of Amagi-town. Mr. Ohisa, the mayor of Amagi-town, represented all three town offices.



### **Testimonials**

### doubutukikin



Osamu Minobe, Environment Division of Isen-twon

Here is a small island that lies about 480km south of Kagoshima city. Native animals, such as Amami wild black rabbits and Tokunoshima spiny rats, as well as native insects and plants, are the one and only in the world and coexist with human islanders since about 1,000 years ago. Their habitat has lessened in recent years because of the development, and following this expansion by human activities, feral/stray cats and dogs eventually became to damage the wildlife seriously. Their existence has represented a bigger threat to this small island Tokunoshima, a candidate for inclusion as World Natural Heritage site, within the region of Amami and Ryukyu.

To resolve the menace by cats, our exhaustive discussions started three years ago with every relevant organization. However, we had never achieved any effective countermeasure, and when we halfway gave up on that, we got an information about the foundation Doubutsu-kikin. We contacted them quickly. The foundation got the drift shearing its urgency, and responded to our requests. Hence, we could accomplish outstanding results and we can now clearly see the efficacy of the project. We continue to make our best effort so that Amami and Ryukyu region can be listed as a World Natural Heritage site avoiding further threat, and hope that the island will be a good place to live for all of us: cats, dogs, and humans, passing this rich nature on to the next generation.

# Testimonials (Veterinary Doctor) doubutukikin



Ayako Hirano, Veterinarian

I work in a partner hospital of the Doubutsu-kikin and got to know the project in Tokunoshima. Throughout the 2nd and 3rd on-site surgeries where I participated, the wonderful thing that I found was the cooperative structure among Tokunoshima's public administration - Nature conservation groups - Residents - the Doubutsu-kikin foundation - Veterinarians and volunteers, and that everyone worked for the same goal. I had to manage many operations during the on-site surgeries: 641 in 2nd and 251 in 3rd. I cannot ignore the surgical safety even if there are many. I carefully prepared myself and arranged meetings previously. In addition, through a division of labor, I could perform surgeries effectively and safely. As other participant doctors were all high-skill veterinarians, it was a incredible team of professionals. It was a rewarding work to act what I can do cooperating with each other. Even though social issues surrounding animals are often arduous and gloomy, including culling, the foundation Doubutsu-kikin continued their activities in a sincere manner and in a joyful way. There is a conflict of opinions through animal welfare activities, however, I think the attitude to provide opportunities where we participate easily and discuss frankly to decide on the next actions would solve problems. Currently, culling is the standard method in the world to protect rare species against predation. So probably, not all people will agree on the TNR method in Tokunoshima. Yet, if we could find another way to protect those scarce species, I think it would be better. I hope the activities in Tokunoshima will succeed, to respect biodiversity in the Amami Islands and to change the conventional standard, with "Quick" "Entire" "Continuation" spirits.

### doubutukikin













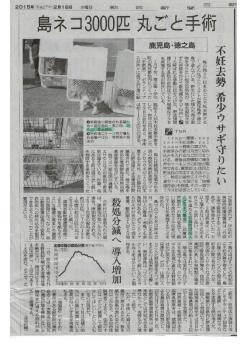
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どうぶつ基金と徳之島3町







### doubutukikin









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TNR 26

### doubutukikin

十円 (8目現在)の献







○匹限定の施術を予定 は24日~26日を予定し 離力が強いためここで 変更で、今回は野良猫 つていた。 が表れ始めたと思う。 交通の乱れによる日程 総数は-976匹とは、理事長は「十分な成果料館で行われている。(第6回) までの施術 どうぶう基金の佐上料館で行われている。

たが、寒波に交通の乱 TNR事業プロジェク

トを止めると、5年も

今回は、当初計画で

目標は3千匹。猫は繁

猫 (推定3千匹)を対 (27日は予備日) に日 当たり3万円余の手術|後から施術を開始。日
ていくのが目的。1匹|アのサポートで20日午 ど希少野生動物も守つ 3町職員やボランティ アマミノクロウサギな の計5人が同島入り。 ことが大事」。また 実施し、猫を殺さずに ・同基金スタッフ3人 げてでも継続していく 象に不妊・去勢手術を 程変更し、獣医師2人 ってしまつ。間隔を広 徳之島に住む全ての れで急きょ25日~27日 程の都合で今回は限定

一 猫への無料対応に、「島」の個人負担となる飼い すると元の木阿弥にな 【徳之島】公益財団 | 之島ごとさくらねこ下 | して~ | (徳之島3町|島、天城、伊仙の3町

法人どうぶつ基金(佐 NRプロジェクト~世 | 共催)の第6回活動が | 当局が協働。20-

して以来昨年11月

つつあるという。

徳之島「さくら耳 継続が大事  $\mathbb{Z}$ 增 

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| 耳ねこ」だった。過去 上(徳之島、伊仙岡町によると今回捕獲箱に 入った野良猫の半分以 術済みを示す「さいい 9割)は不妊・去勢手 内は約5割、天城町約

TNR事業 じめ、希望する何い描一き 歌長 どうぶつ基金に感謝状 程ンと野良語をは、薬。難の差え過ぎを防 | 野自然遺差・豊蘇候補 う。 大野良語をは 薬の差の過ぎを防 | 野自然遺差・豊蘇候補 う。 は したことになる。とい 壮大な社会的実験。成功させるには来年度以降も継続が必要し プクロウサギなどの 遺産登録に向けた徳 (一条二化)・レアマミ 城町長が 世界自然 域に侵入して野生化 長赤代表して大久天 坂の組みは、山林域 町程境であった。 4町 地の一つ徳と原での 総雑状間星気は天城



が、成功・だところは、社会的表類であり、今一ともが大事」と連携を一組分が一般的だった。在は、世界初の社人な「後も手を挟が了続ける「攻めた」

TNR 27

### doubutukikin

1 toyokeizai.net/articles/-/93759

#### 東洋経済

ONLINE

4月19日 (火)

| Tokyo Business Today | 四季報ONLINE |

トップ ビジネス 政治・経済 マーケット キャリア・教育 ライフ ಿ鉄道

ライフ トペット

#### 島猫3000匹の「不妊化」は、人間のエゴなのか

ペット界の新王者「猫」を取り巻く光と影<中>

次ページ»

駅 義則:東洋経済オンライン編集部 記者

2015年11日25日







徳之島の手術会場近くにいた「さくらねこ」。右耳の先端がV字カットされている

片耳の先端をカットされた猫を街中で見かけた人は、意外と多いのではなかろうか。 これは不妊手術を終えていることの証なのだ。見分けをつきやすくするために切り込 みをV字にすることが多いため、耳の形から「さくらねこ」と呼ばれる。飼い主のい ない猫のお守りとして、全国各地に広がりつつある。

3回連載の第2回は、鹿児島県南端の徳之島の猫を一斉にさくらねこにする取り組み を通じ、洋の東西を問わない人と猫との関係について老える。

徳之島は鹿児島県の奄美群島に属する離島。約2万5000人が住み、徳之島 町、天城町、伊仙町の3つの町から成る。日本の医学界に旋風を起こした徳 洲会や、かつて長寿世界一に認定された泉重千代さんでも知られる。

この徳之島では猫の野放しが一般的で、今年6月までは小動物向けの病院 さえ存在しなかった。そんな徳之島で、島内のすべての猫に不妊手術を施 す前代未聞のプロジェクトが進んでいる。

#### すべての猫に不妊手術を実施

プロジェクトの主体は、公益財団法人 「どうぶつ基金」(兵庫県芦屋市)。 2014年11月に開始したこのプロジェク トの目的は、約3000匹いるとみられる 島のすべての猫を不妊手術をすること。 世界自然遺産認定を目指す上で不可欠な 要素であるアマミノクロウサギが猫に捕 食されて絶滅の危機に瀕していることか ら、3町の依頼で実現した。

事業名は「徳之島ごとさくらねこ一斉 TNRプロジェクト」。TNRは捕獲(ト ラップ)、手術(性を中立にするニュー ター)、放出(リターンやリリース)の 略。自然の摂理には反するが、子猫が生 まれて遺棄や虐待、殺処分されるのを止 徳之島の位置(徳之島町役場のサイトより) められる。手術後の猫も糞尿の臭さが和



らぎ、喧嘩する率も小さくなる。何より一代限りだと分かれば、猫を嫌い な人からの反発が薄まる。

#### **島猫3000匹の「不好化」は、人間のエブなのか**

- 界の新王者「猫」を取り巻く光と影<中>

証 裁刑:車洋経済オンライ

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筆者が徳之島に着いた11月7日は、第5次出張手術の3日目。気温28度と いう暑さの中、まず目に入ったのは特度品のジャガイモを入れる顔を改造 したケースや金属製の捕煙器の列だった。中に1匹ずつ、腸が入っている。

冷房の効いた手術会場。最初のテーブルでは製匠器がケース外から原発薬 を始与する。予備に大人の個と同間の原動を打つと死んでしまいかねない ため、注意がく最を調節しながら網閲覧のように注めしていく、原料が いたのを確認すると確から出し、ノミ取り薬や汽生剤、ワクチンを打つ。

次のテーブルでは手椅する部分の毛をパリカンで刺る。オスは生種器周 辺、メスは下腹部だ。そして耳の光疱をデオカットし、傷口をはんだごで 消毒する。残酷に見るが、手術表声の話としてマイグロチップを埋め込 んだとしても、圧物装傷の機能が連訟存在するため実際の反には立ちにく い、現状でほこのやり方が、視覚的に最も効果的なのだ。

#### 「神業」の連続、獣医3人で1日108匹

わずか1センチ前後で出血はほとんどない。締合には自然に溶ける糸を使 う。手術の時間は長くても10分弱だ。

ハン・マルマは、年の博館や目業をさすなどのケアをする。麻酔が いている間、猫たちは例外なく目を見開いているのだ。その後、ケースに 入れ直して翌日まで休養させ、飼い主の元や横振場所などに戻す。まさに 神楽の遺紙だ。



#### 鳥猫3000匹の「不好化」は、人間のエゴなのか

駅 義服:東洋経済オンライン横集部 記者

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ここまで終んできて、徳之島の一斉TNRは紫陽県神ではなく「世界日然遺産」が起席であり、最間が遅れていると振じる人も多いだろう。実際、動物豊盛的杯などからは、「突延分せ口」で充腐的な考定を呼びませたドイツを、日本も発音シイさどの声が強い。 しかし、結はそんなに単純ではないようだ、国立国会図書館の漫様系法氏 による論文「諸外国における犬猫母組分をかぐる状況」(2014年9月発 行・「諸意に情報」シリーズ830号)によると、ドイツでは国内500万所以 よるる民間から報信撤削での場合がは基本的に単止だが、施設に空きが なければ駆急指置として受け入れを制限できる。

その先に何があるのか、ドイツでは人類の居住地から一変以上離れたところにいる犬や最上駆除対象とされ、飼い生の有無にかかわらず合法的に射 数できる。質様できない相手には点たいのだ。年間で編40万匹、大6.5万 医が接されていると指摘する優強団体もあるという。

#### ドイツと徳之島、どちらが猫に優しい?

連載第1回でも紹介したが、2013年度の日本の行政による段処分数(終死 中華欽邦を責む)は個の万9071匹。犬2万8570匹だ。一方、同議文が列用 した全米人遺協会の推計によると、米国の動物保護施設で2012~13年の1 権助分された機構なが国は約270万匹。これでも1999年代のTNR定 権はどで、1970年の4月200万二と200万度からは機能した。

かったのではないだろうか。 鉄社会では <sup>他之間空間で見かけた代ス</sup>ない日本の長所でもある。 海外の側は参 考にはなるかもしれないが、 首従する必要まではないだろう。

なんとか保護をしたとしても、きれいごとで済む話ではない、病気の子羅 の、出産の連携でほろぼろの件になった毎届が自分の語の中で死んでいく かのの情は、服長に尽くしがたい、 の不幸な連絡は食い止めるべきなのだ。

€ 1234

日コメント (2)

#### 鳥猫3000匹の「不好化」は、人間のエゴなのか

ベット界の新王者「猫」を取り巻く光と影<中>

∞ 耐べージ タページ > 駅 発削:東洋経済オンライン編集部 記者 

どうぶつ都全の住上部久理事所は「こさのノウハウや技術は世界最先間だ」と前を張る、駅医師は国内外での手術を除か着裏な日暮金額期の山口 記述氏に、その数ネテストを加える入土。各町の機関やバートからなる現地 スタップと連携して、この日1日だけで108匹を手術した。

時には「急患」も入ってくる。再蛇の八プに腹部を鳴まれた子猫が運び込まれ、40針を縫う大手術によって一命を取り縮めた。泉重千代さんにちなみ、長生きを勝って「しげちゃん」と名付けられていた。

#### 「無料」の神涌力で1976匹を手術

第5次手術が完了した8日までに手術が済んだ猫は計1976匹。申告による 第30人が明7月20日本にエイリの日本によっては、 内限は前い機体制性、野貨機は495匹だ。これだけの数が集まったのは、す べて無料だからだ。施に付けられた整理用タグには、毛並みが美しいのに (飼い猫)ではなく「ノラ畑」だとされたものが大果だった。名前の条領 に基づき確収される飼い孤登録料500円を惜しむ人が多いためだという。

6月に開業した島内初の動物病院では、オスの手術に1万9440円、メスで は2万7000円かかる。ワクチン代などは別だ。この基準を適用すると、ど うぶつ基金か2000匹祭に実施した医療行為の翻は約6480万円となる。

在上氏は成功した起業家で、犬や陽のTNR店動に古くから携わってきた。 2006年に、ボランティア中間で問番金の会長だった山口氏に乞われ埋葬長 に試任、北は青森から南は石垣島まで不妊・去勢の出復手術を行い、行政 による発処列域にも寄らしてきた。



手術後の猫を放しに行く軽トラに てもらった。ハンドルを握る徳之島町住 民生活課の米田博久・課長補佐による 紙生治課の米出海久・課教補佐による と、島の編は「基本的に放し飼いで、不 好手術する意識も無かった」。ネズミを 退治して駅の感染度を媒介する小県を食 べるため畜産農家などで重宝はされるも のの、「そこらへんにいる存在」に過ぎ

種のアマミノクロウサギを守りたい う住民の意識が強かった」と語る。

9日に天城町役場で行われた感謝状體

佐上採事長は「3000店の一斉TNRは世界でも初の試みだが、傷の繁殖力 は異雑に遅い、ここで平を纏かれば数年後には元の末阿弥だ」と力限し た、2016年度未までに手術を3回続け、残りの約1000匹をさくらねこにす る計画だ。

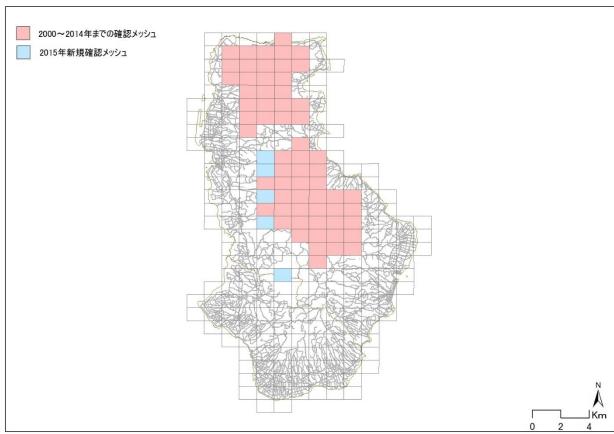
### Cats' Predation Reduced to Only One

#### **Reports from three towns**

According to the research of Tokunoshima Nature Conservation Office of the Ministry of the Environment in 2014, when the project was launched, 9 Amami wild black rabbits were considered to be preyed by dogs or cats. In 2015, the number decreased dramatically to only one. Moreover, some Amami wild black rabbits were newly found in other 5 areas where there had not been before.

#### Inhabiting situation of Amami wild black rabbits in the Tokunoshima Island

Year	Number of Amami rabbits	Number of predations
2014	Approx. 200	9
2015	Approx. 200	1



●1 square = 1km x 1km

Source: Tokunoshima Nature Conservation Office of the Ministry of the Environment



### **Activities in the Amami Islands**

The below comments are questionnaire responses by e-mail from public offices in the Amami Islands where Amami wild black rabbits occur, except Tokunoshima, about their conservation activities.

#### **Amami-city**

The direct action we take in relation to rare species, including Amami wild black rabbits, is installing speed bumps on roads in collaboration with 5 municipalities in the Amami Islands in 2015. Furthermore, we carry out TNR activities since 2013 directed at an improvement of environmental sanitation, to control the number of stray cats and to protect scarce species from its predation. The number of TNR operations in Amami-city is 103 in 2013, 246 in 2014, 150 in 2015. The activity in 2016 is currently underway.

#### Tatsugo-town

In 2015, working in partnership with 5 municipalities in the Amami Islands, we installed speed bumps, warning signs, and road printings. We also promote public awareness activities in order to avoid roadkills.

#### **Uken-village**

Regarding the TNR between 2013-2015 for pet cats, there is no track record by village office, but it was executed as a prefectural veterinary medical association-subsidized project. We do not have concrete statistics for that TNR project. Since 2016, the village office conducts TNR activities by itself. The targeted number is 50 except for pet cats. On the other hand, we installed road bumps in the main forest roads (around Mt. Yuwan).

#### Yamato-village

Non-response

#### Setouchi-town

Refusal to respond

#### Amami wild black rabbits' cause of death in the Amami Islands

Amami Islands	2013	2014	2015
Traffic Accident	16	8	19
Feral Dog/Cat	9	9	7
Other	27	40	42
Total	52	57	68

Source: Amami Nature Conservation Office of the Ministry of the Environment

### **Summary**

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This project was a large scale TNR, targeting at all existing cats regardless of pet or stray inside the island, conducted in a short span of time, in order to protect rare species preyed by cats. The TNR is often decided as a nuisance control of cats in a residential area, and some people say that it's not effective for the conservation of rare species. We, the Doubutsu-kikin foundation, trust that, if the below conditions are met, the TNR will become successful. In other words, if any of them is lacking, it will come to naught.

What is the Sakura-Neko (Spayed/Neutered Cats)

# TNR the Doubutsu-kikin promote?

Quick

#### Act immediately

Female cats give birth to 5 to 7 kittens, and can produce 3 litters per year. The female kittens reach sexual maturity at 6 months, and give another birth to their grandchildren. If we carry out the TNR slowly, we'll never catch up with their speed of reproduction.

Entire

#### Complete totally

A 90% completion only gives the rest another opportunity to reproduce shortly. It is essential to execute the TNR for 100% of total cats rather than halfway measures.

Continuation

#### Perform successively

Even if we set a goal of 100%, there're always untrapped cats or newcomers. If we can maintain the management system to find non-spayed/neutered cats and to treat them immediately, we will realize no culling, no complaints society.

Since the 5th on-site surgery, more than half of trapped cats were Sakura-Neko (Spayed/Neutered Cats). Additionally, while there was no hospital for small animals when the project started, a first veterinary hospital was opened in 2015. More hospitals are planned to be established in 2016, and it enables islanders to continue TNR activities by themselves inside the island. Therefore, the Sakura-Neko (Spayed/Neutered Cats) TNR projects, organized by the foundation and three towns in the Tokunoshima Island, ended with the 6th on-site surgery.

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Public Interest Incorporated Association "Doubutsu-kikin (Animal foundation)"

Amagi-town, Isen-town, Tokunoshima-town

