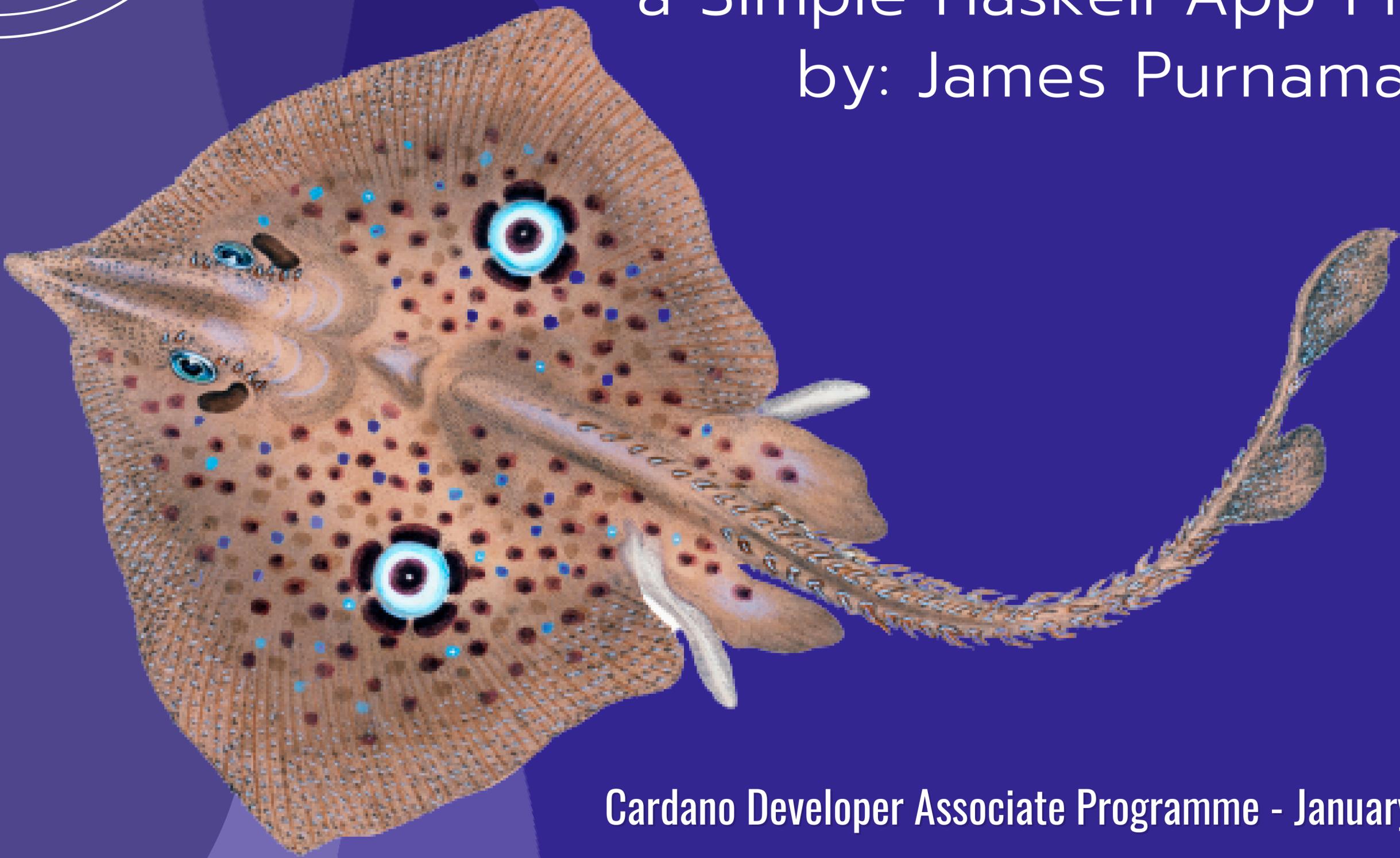


# ORISTINGRAY

a Simple Haskell App Project  
by: James Purnama



# STINGRAY FISH / IKAN PARI



**The Utilization:**

- 1. Delicious food (meat)**
- 2. Fashion Industry (skin)**

# STINGRAY LEATHER - FASHION

鮫皮

## Samegawa / Samehada

an important component of the Katana / Samurai Sword  
located on the handle or tsuka



# STINGRAY LEATHER - FASHION

amazon Deliver to Indonesia All stingray leather

All Today's Deals Customer Service Registry Gift Cards Sell

GRIP6 So comfortable you'll forget you're wearing it. \$39<sup>00</sup> prime

Back to results



Visit the Pelgio Store  
**PELGIO Genuine Polished Stingray Shagreen Skin Leather Men's Belt 46"**  
★★★★★ 10 ratings

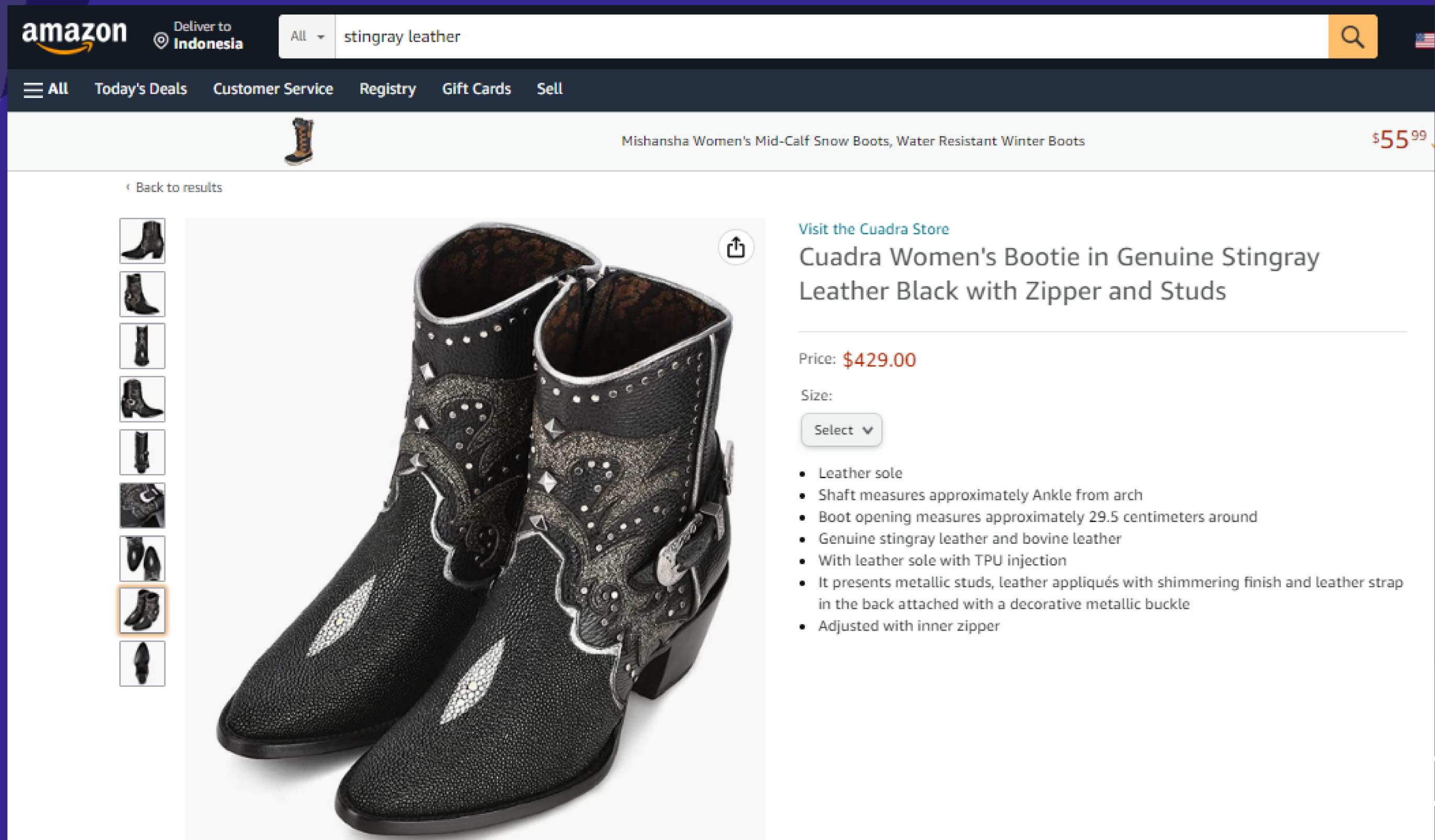
Color: Black

1 option from \$107.00	\$107.00	1 option from \$107.00
\$107.00		

**Currently unavailable.**  
 We don't know when or if this item will be back in stock.

- Imported
- Screw closure
- Exterior : Genuine Stingray Skin
- Interior : Genuine Leather
- Length : 115 cm. Width : 3.75 cm.
- Waist Size : 32" - 40" (Shorten by yourself)
- This belt doesn't have any holes, so you need to punch a hole for your waist size by yourself

# STINGRAY LEATHER - FASHION



The screenshot shows an Amazon search results page for "stingray leather". The search bar at the top has "Deliver to Indonesia" selected. Below the search bar, there are navigation links: All, stingray leather, Today's Deals, Customer Service, Registry, Gift Cards, and Sell. The main search result is for "Mishansha Women's Mid-Calf Snow Boots, Water Resistant Winter Boots" which costs \$55.99. To the right of this result is a product from Cuadra, "Cuadra Women's Bootie in Genuine Stingray Leather Black with Zipper and Studs", priced at \$429.00. The product image shows a pair of black stingray leather booties with metallic studs and straps. On the left, there is a sidebar with thumbnails of other boot styles.

amazon © Deliver to Indonesia All stingray leather

All Today's Deals Customer Service Registry Gift Cards Sell

Mishansha Women's Mid-Calf Snow Boots, Water Resistant Winter Boots \$55.99

Back to results

Visit the Cuadra Store

Cuadra Women's Bootie in Genuine Stingray Leather Black with Zipper and Studs

Price: \$429.00

Size:

Select ▾

- Leather sole
- Shaft measures approximately Ankle from arch
- Boot opening measures approximately 29.5 centimeters around
- Genuine stingray leather and bovine leather
- With leather sole with TPU injection
- It presents metallic studs, leather appliqués with shimmering finish and leather strap in the back attached with a decorative metallic buckle
- Adjusted with inner zipper

# STINGRAY LEATHER - FASHION

amazon Deliver to Indonesia All stingray leather woman

All Today's Deals Customer Service Registry Gift Cards Sell

 IceSword iPhone 13 Pro Max Case Dark Green (2021), Liquid Silicone Slim Protective Phone Case, Soft Anti-Scratch Microfiber Lining, Matte Forest Green Professional Men Women, 6.7inch 13PM- Dark Green ★★★★★ 424 \$18.99

[Back to results](#)



LUXSUISH iPhone 11 Pro Max Leather Case  
Fully Handcrafted from Genuine Stingray Manta Skin Premium Leather Case Cover (Manta Edition) (Space Black)
  
Brand: LUXSUISH

---

**\$39.99**  
\$53.25 Shipping & Import Fees Deposit to Indonesia [Details](#)

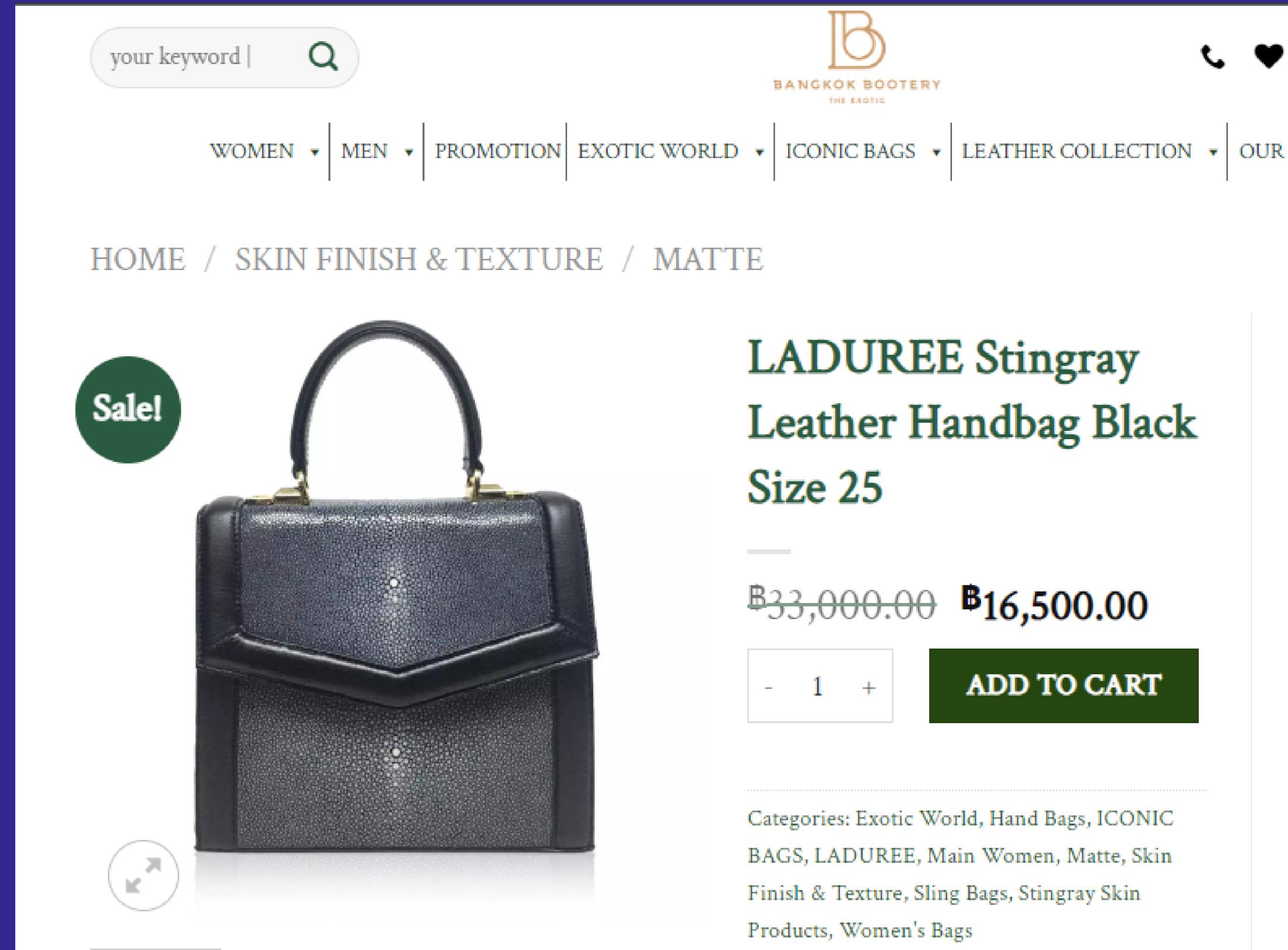
**Color:** Space Black  
**Brand:** LUXSUISH  
**Color:** Space Black  
**Form Factor:** Bumper  
**Compatible Phone:** iPhone 11 Pro Max  
**Models:**  
**Material:** Leather

---

**About this item**

- **【Modest Luxury Case】** 100% Hand-made from Genuine Stingray Skin Compatible for iPhone Xs Max (6.5 inch). Olive green is rare color, it stands out the modest luxury taste of its master.
- **【Challenge the BEST Quality】** Genuine Stingray leather is truly amazing, the surface of leather looks like pearls, reflectivity is very good. The most interesting is the case will become more and more bright as time goes on. We uphold the professional spirit of craftsmen to make our products the best, we are confident that our products are the best quality at Amazon.
- **【Reliable Protection】** Stingray skin leather is known as one of the most high-grade leather, very tough. It offer maximum protection from bumps and hard-hits for the back and sides of your phone. Keep your phone away from abrasion and scratch, like wearing a piece of armor.
- **【Beauty from the Natural】** Stingray is unique, the surface of skin looks like

# STINGRAY LEATHER - FASHION



your keyword | 



WOMEN ▾ | MEN ▾ | PROMOTION | EXOTIC WORLD ▾ | ICONIC BAGS ▾ | LEATHER COLLECTION ▾ | OUR STORY ▾

HOME / SKIN FINISH & TEXTURE / MATTE

**LADUREE Stingray  
Leather Handbag Black  
Size 25**

~~B33,000.00~~ **B16,500.00**

- 1 + **ADD TO CART**

Categories: Exotic World, Hand Bags, ICONIC BAGS, LADUREE, Main Women, Matte, Skin Finish & Texture, Sling Bags, Stingray Skin Products, Women's Bags



INDONESIA

# STINGRAY LEATHER - FASHION

**INDOZONE**

ZMOESLIM NEWS SELEB FAKTA DAN MITOS GAME TECH FOOD SOC

Jalah Perbuatan Yang Sah • Gugatan Wanprestasi Terhadap Ustaz Yusuf Mansur Ditolak, Hakim Curigai Ini Pas

**Life**

## Tas Iriana Jokowi Ternyata Dibuat dari Ikan, Made In Boyolali Jadi Rebutan di Swiss

Jumat, 18 Februari 2022 10:30 WIB

[f](#) [m](#) [t](#) [w](#) [g](#) [in](#) [d](#)

**INDOZONE.ID** - Siapa yang menyangka jika salah satu tas dari Ibu Negara Iriana Jokowi ternyata dibuat dari ikan. Ya, tepatnya kulit ikan pari yang sudah dibersihkan dan dibentuk menjadi tas cantik.



# TOP TEN COUNTRIES - STINGRAY EXPORTER

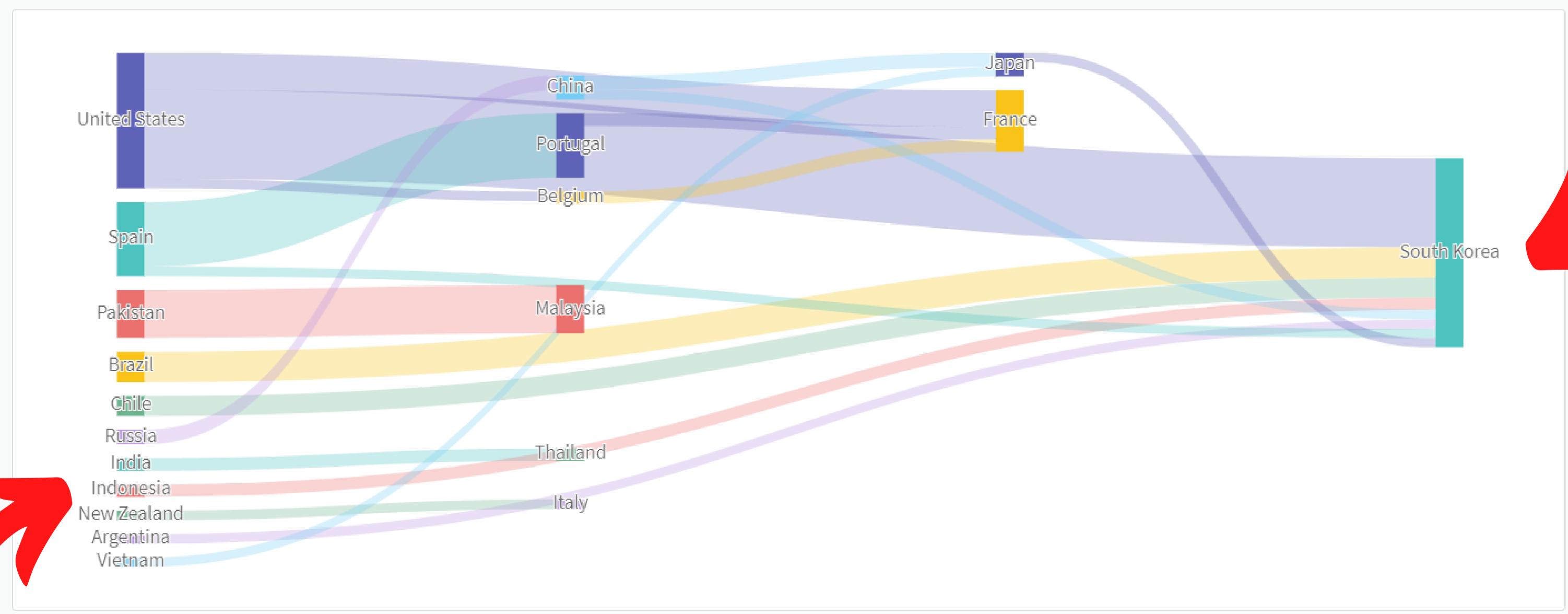
	Country	Export %													
			/05	21/06	21/07	21/08	21/09	21/10	21/11	21/12	22/01	22/02	22/03	22/	
1	Global	64M	\$3.72M	\$2.26M	\$3.09M	\$2.79M	\$2.77M	\$2.90M	\$3.14M	\$2.00M	\$2.14M	\$2.93M	\$3.03M	\$3.03M	
2	United States	26.82%	12K	\$792.51K	\$946.16K	\$1.38M	\$905.32K	\$1.17M	\$874.41K	\$616.25K	\$882.48K	\$795.14K	\$1.32M	\$1.20M	\$1.20M
3	Spain	14.13%	44K	\$501.58K	\$163.30K	\$526.53K	\$451.92K	\$232.82K	\$298.78K	\$823.13K	\$261.61K	\$127.82K	\$246.99K	\$459.11K	\$459.11K
4	Pakistan	11.04%	48K	\$505.11K	\$374.24K	\$187.72K	\$215.27K	\$373.93K	\$198.74K	\$170.60K	\$53.34K	\$76.30K	\$179.43K	\$855.61K	\$855.61K
5	Brazil	5.4%	90K	\$282.88K	-	\$42.74K	\$61.40K	-	\$8.52K	\$29.00K	\$43.75K	\$85.35K	\$124.74K	\$72.00K	\$72.00K
6	New Zealand	4.33%	56K	\$99.01K	\$222.24K	\$148.91K	\$91.26K	\$77.14K	\$112.34K	\$136.18K	\$44.28K	\$94.56K	\$109.08K	\$31.20K	\$31.20K
7	China	4.23%	81K	-	\$59.15K	\$105.85K	\$68.75K	-	\$176.74K	\$188.87K	\$61.52K	\$183.28K	\$132.11K	\$42.40K	\$42.40K
8	Portugal	3.71%	57K	\$262.80K	\$15.56K	\$20.38K	\$252.61K	\$158.69K	\$64.37K	\$51.22K	\$157.51K	\$20.68K	\$17.28K	\$88.40K	\$88.40K
9	Chile	3.52%	58K	-	-	-	-	\$53.14K	\$270.54K	\$215.03K	\$2.86K	\$83.36K	-	-	-
10	Indonesia	3.49%	36K	\$107.70K	-	\$100.05K	\$148.05K	\$34.03K	\$184.01K	\$229.75K	\$67.17K	\$26.61K	\$128.95K	-	-

Source: <https://www.tridge.com/intelligences/stingray/export>

# TOP TEN COUNTRIES - STINGRAY EXPORTER

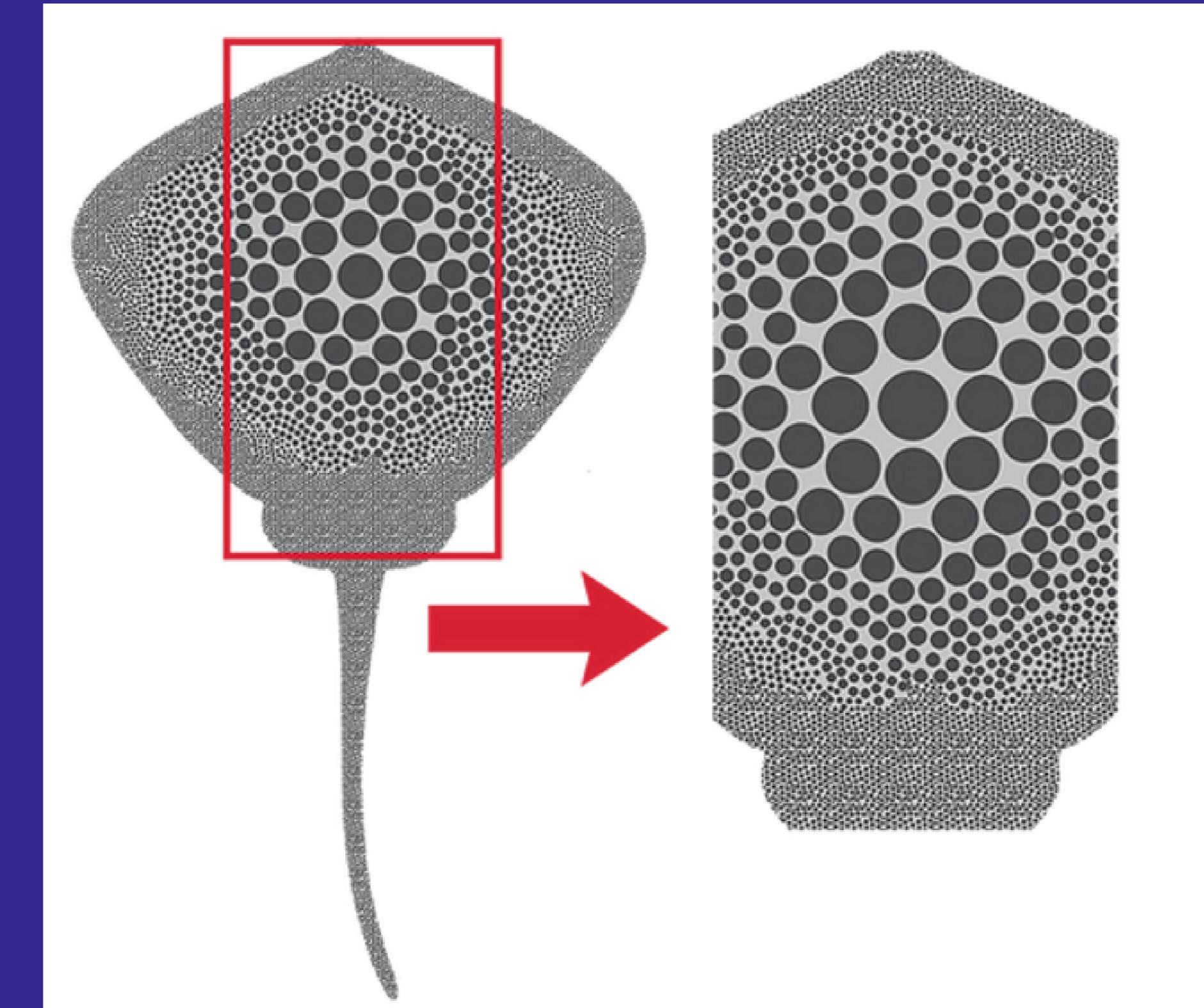
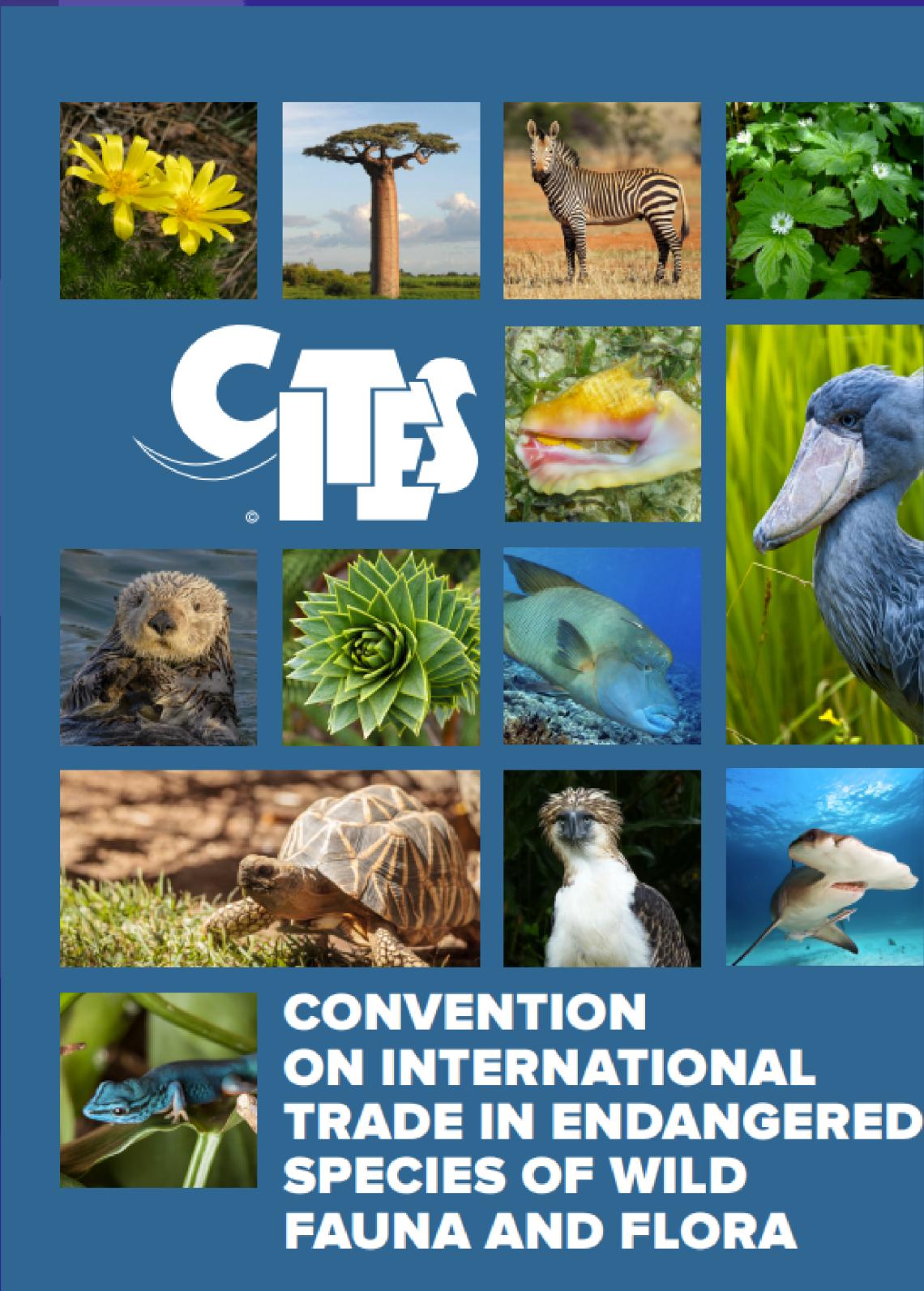
## Top Export Flows

Discover the top export flows of Stingray in 2021. The top export flow in 2021 was from United States to South Korea, with an export value of USD 6.03M.



Source: <https://www.tridge.com/intelligences/stingray/export>

# STINGRAY LEATHER - CHALLENGES

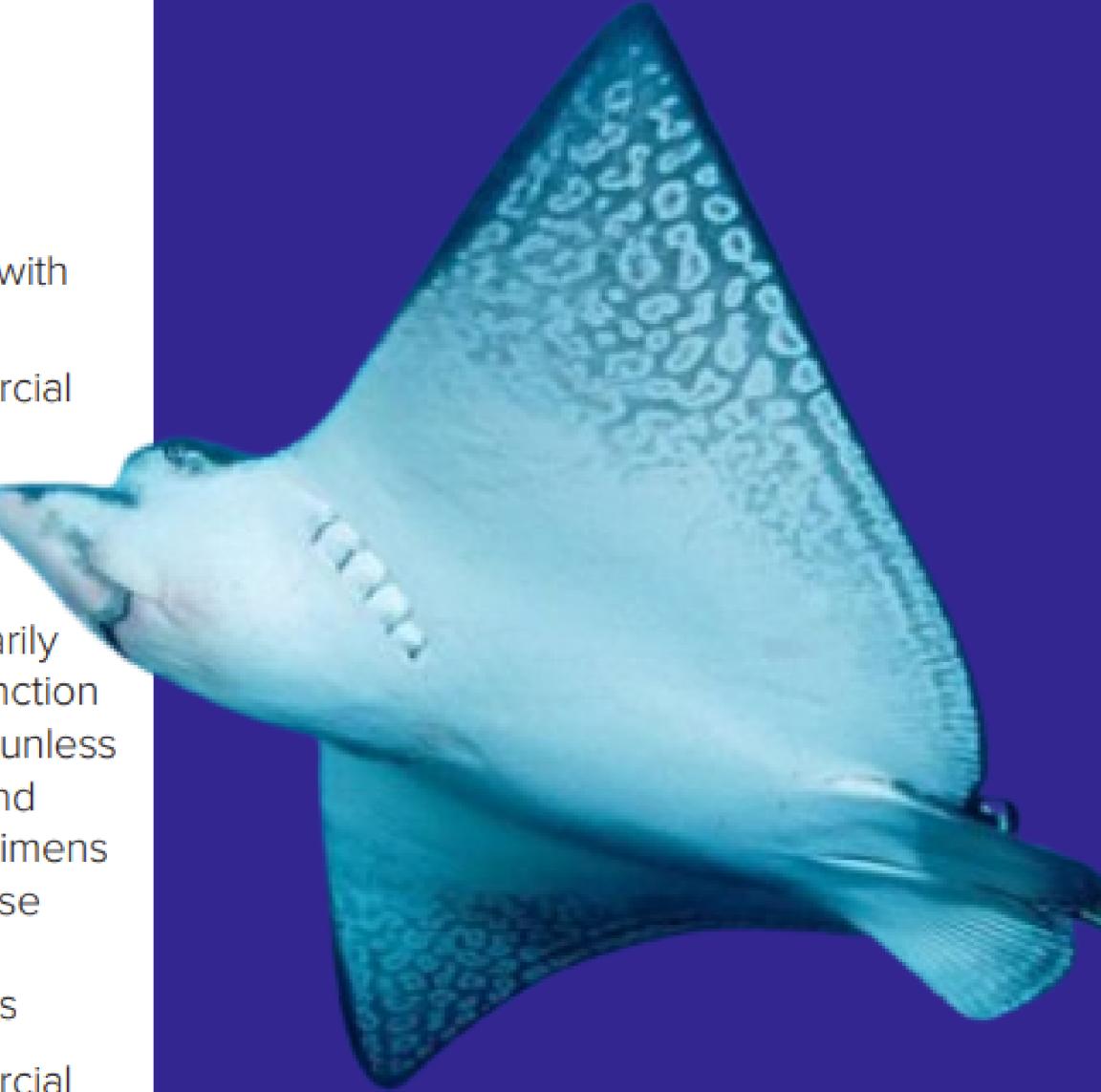
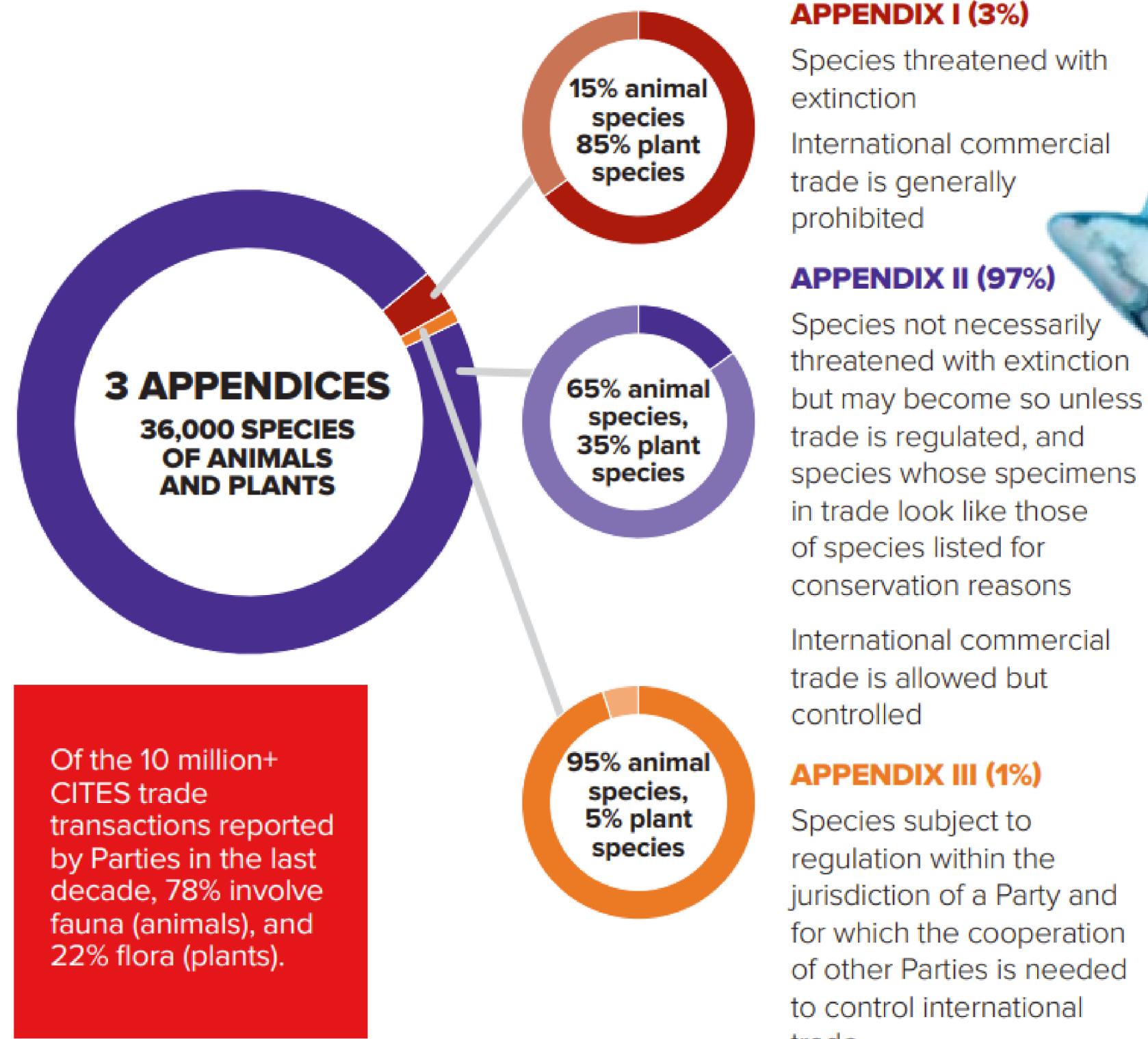


# CITES

## the Convention on International Trade in Endangered Species of Wild Fauna and Flora

### DIFFERENT DEGREES OF PROTECTION

CITES accords varying degrees of protection to more than 36,000 species of animals and plants by applying different provisions to species included in three Appendices:





the Convention on  
International Trade in  
Endangered Species of  
Wild Fauna and Flora

**Mobula alfredi & Mobula birostris- Stingray fish**

**CITES Appendix II - prohibited for national and  
international trade (since 2014)**



# CITES Appendix II (since 2019)

International commercial trade is allowed but controlled



the Convention on  
International Trade in  
Endangered Species of  
Wild Fauna and Flora

Pari Kekeh /  
Pari Kemejan  
(*Rhynchobatus* spp)



Pari Barong /  
Pari Kupu-Kupu  
(*R. aencylostoma*)



Pari Gitar /  
Pari Kikir  
(*G. typus*)

# CITES

## the Convention on International Trade in Endangered Species of Wild Fauna and Flora



Indonesia has  
106 species of  
Stingray Fish,  
only 9 of them  
are listed in CITES



DIREKTORAT KONSERVASI DAN KEANEKARAGAMAN HAYATI LAUT  
 DIREKTORAT JENDERAL PENGELOLAAN RUANG LAUT  
 KEMENTERIAN KELAUTAN DAN PERIKANAN

## DAFTAR JENIS IKAN BERSIRIP Dilindungi dan/atau Appendiks CITES

No	Nama Ilmiah	Nama Umum	Status CITES	Status Nasional	Keterangan
14	<i>Pristis spp.</i>	Pari Gergaji	Appendiks I	Dilindungi	Permen LHK P.106/2018
15	<i>Manta spp.</i>	Pari Manta	Appendiks II	Dilindungi Penuh	Kepmen KP 4/2014
16	<i>Mobula spp.</i>	Pari Mobula	Appendiks II	Tidak Dilindungi	
17	<i>Rhynchobatus spp.</i>	Pari Liongbun	Appendiks II	Tidak Dilindungi	
18	<i>Rhynchobatus australiae</i>	Pari Kikir	Appendiks II	Tidak Dilindungi	
19	<i>Rhina aenkylostoma</i>	Pari Kupu-Kupu	Appendiks II	Tidak Dilindungi	
20	<i>Himantura oxyrhyncha</i>	Pari Sungai Tutul	-	Dilindungi	Permen LHK P.106/2018
21	<i>Himantura polylepis</i>	Pari Sungai Raksasa	-	Dilindungi	Permen LHK P.106/2018
22	<i>Himantura signifier</i>	Pari Sungai Pinggir	-	Dilindungi	Permen LHK P.106/2018
23	<i>Urolophus kaianus</i>	Pari Kei	-	Dilindungi	Permen LHK P.106/2018

# PROBLEM STATEMENT

Buyers of exotic fashion products made from stingray skins need valid information and guarantees that the fashion products they buy do not violate international regulations regarding the protection of endangered animals.

# WHY IS IT A PROBLEM?

The target market segment of fashion product buyers for stingray leather is the upper middle class who are very concerned about protecting endangered animals.

# WHY IS IT A PROBLEM?

Exotic fashion craftsmen in Indonesia have complied with CITES regulations by not using stingray skin from animals protected by the government, because Indonesia is the largest archipelagic country in the world which has more than 17,000 islands where there are many types of stingrays. (official listed are 106 species of 560 species of stingrays in the world), but.....

# WHY IS IT A PROBLEM?

Lots of exotic stingray leather fashion products originating from countries other than Indonesia which do not necessarily comply with CITES regulations, including from the black market, or maybe imitation/fake leather.

a simple Haskell Application

Input & Show the list of protected  
Stingray Fish Species

Input data product and  
raw material (Stingray Fish species)

Originality tracking of product



# ORISTINGRAY

```
~/oriStingray$ cabal run
Up to date

ORISTINGRAY
-----
0. EXIT
1. Stingray Fish Data
2. Stingray Leather Fashion Product
3. Tracking Original Product
Please input your option : 1

1. STINGRAY FISH DATA
-----
0. Back to Main Menu
1. Input StingRay Fish
2. Edit StingRay Fish
3. Delete StingRay Fish
4. Table Show - The Protected Stingray Fish
5. Table Show - Commercial Stingray Fish
6. Show CITES & Indonesia Government Regulation
Please input your option : 0
~/oriStingray$
```



```
Shell x +  
  
~/oriStingray$ cabal run  
Up to date  
  
ORISTINGRAY  
-----  
0. EXIT  
1. Stingray Fish Data  
2. Stingray Leather Fashion Product  
3. Tracking Original Product  
Please input your option : 2  
  
2. STINGRAY LEATHER FASHION PRODUCT  
-----  
0. Back to Main Menu  
1. Input Product  
2. Edit Product  
3. Delete Product  
4. Table Show Product  
Please input your option : 1  
  
2.1. INPUT PRODUCT  
-----  
Product ID = A01  
Product Name = Woman Bag Stingray Leather  
Product Type (1=Bag, 2=Soes, 3=Others) = 1  
Raw Material Stingray ID = 15  
Country of origin = Indonesia  
Producer Name = PT. Khyang Leather Tangerang  
Save alldata? [y/n] = y  
successfully saved data  
~/oriStingray$
```

