

KARIN VANEKER & ERWIN SLAATS
AMSTERDAM, THE NETHERLANDS

MAPPING EDIBLE AROIDS



GLIDE'12

FOOD, NUTRITION, AND HEALTH

EDIBLE AROIDS

(L. Araceae)



A woman with dark skin and short, curly hair stands in a dense tropical forest. She is wearing a purple, short-sleeved dress with a subtle pattern. She holds a large, harvested taro root (canna) in front of her, which has several long, green, arrow-shaped leaves attached to its thick, brown, knobby tuber. The background is filled with lush green foliage, including large heart-shaped leaves and ferns. A fallen log lies on the ground in the foreground. The text "The world's most ancient food crops" is overlaid in yellow, bold, sans-serif font across the center of the image.

**The world's most ancient
food crops**

A photograph of an older man with grey hair, smiling, standing in a field of large, heart-shaped green leaves. He is wearing a pink long-sleeved shirt with a purple collar and dark pants. The text "2 billion small farmers produce 60% of the world's food" is overlaid in yellow on the image.

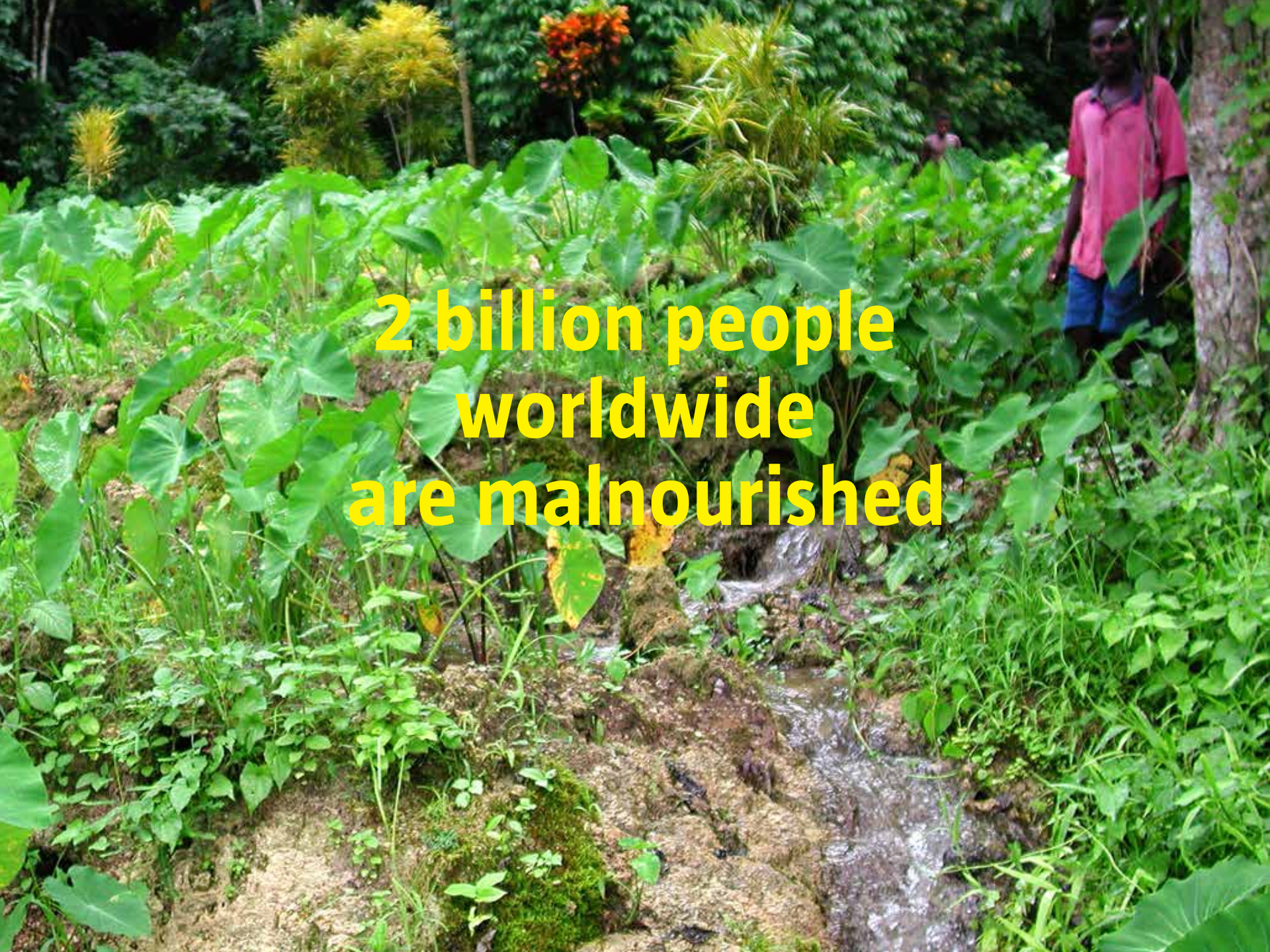
**2 billion small farmers
produce 60% of the world's food**

A photograph of three young women of African descent sitting outdoors in a lush, green, tropical-looking environment. They are all smiling at the camera. The woman on the left is wearing a blue sleeveless top and a black skirt with a white floral pattern. The woman in the middle is wearing a yellow sleeveless top. The woman on the right is wearing a grey t-shirt and a light green skirt with a floral pattern, and she is also wearing a red beaded necklace. They are all holding large, thick, brown root vegetables, possibly yams or cassava, which have green stalks. The text "The vast majority lives in extreme poverty" is overlaid in yellow on the image.

**The vast majority
lives in extreme poverty**

**Small farmers produce
70% of the food
of 1.4 billion poor people**



A lush tropical landscape featuring a small waterfall cascading over mossy rocks. The surrounding area is densely populated with various green plants, including large-leafed species and tall, spiky vegetation. A person wearing a red shirt and blue shorts stands on the right side of the frame, partially obscured by the foliage. The overall scene is vibrant and verdant.

**2 billion people
worldwide
are malnourished**

**ROOTS & TUBERS
STAPLE FOOD & CASH CROP
FOR MILLIONS OF PEOPLE**



Aroids
important staple food
for the rural and urban poor

A photograph of a man in a tan shirt and dark pants working in a field of large-leafed plants, likely aroids, in a tropical setting. The man is on the left, looking down at the plants. The background is a dense, hilly landscape with more vegetation. The text is overlaid in the center-right of the image.

**Aroids
a source of income
for small farmers
in the tropics and
the developing world**



Aroids
a cash crops and
important source of
employment and income
for men and women
in the developing world



MIGRATION & MIGRANTS

A photograph of a vegetable market stall. In the foreground, several cardboard boxes and red plastic crates are filled with fresh produce. The crates on the left contain bright orange onions. The boxes in the front row contain dark eggplants, brown potatoes, and ears of corn. The background shows more market activity with various items on shelves and a person partially visible.



**Europe and the United States
home to over 100 million migrants
many come from
poor tropical areas of the world**



VOEDINGSWAARDE PER 100 GRAM			
CAL.	109 Kcal	FOBFOR	48 mg
EIWIT	7.7 g	IJZER	0.8 mg
VET	0.7 g	VIT B1	70 mg





**Migrants have a strong appetite
for familiar foods, ingredients
and dishes from their
homelands and cultures**

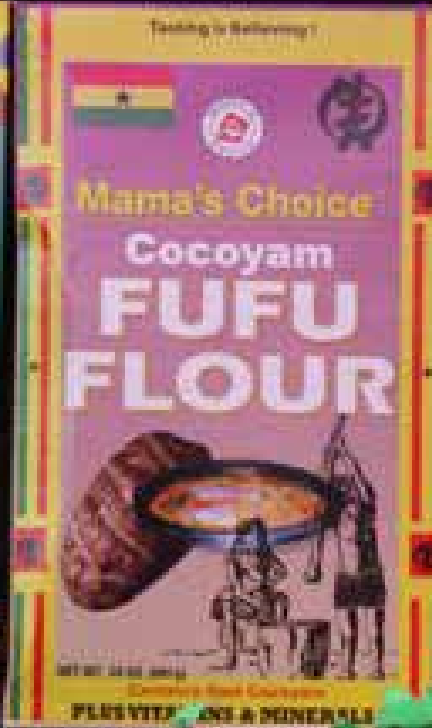


The transnational food trade enables migrants to procure important traditional foods, and maintain their foodculture

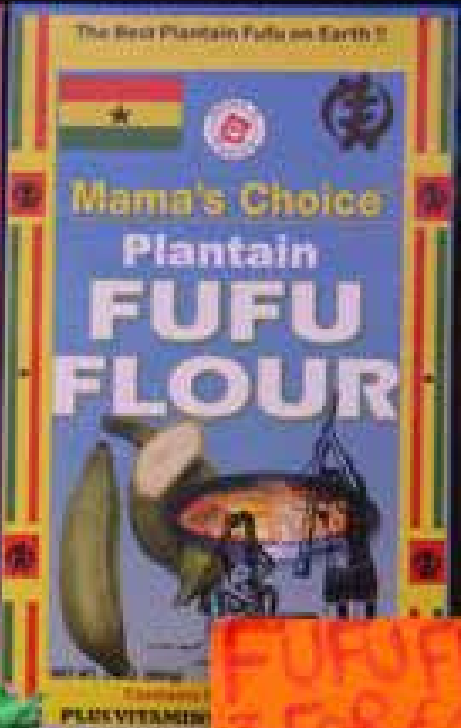




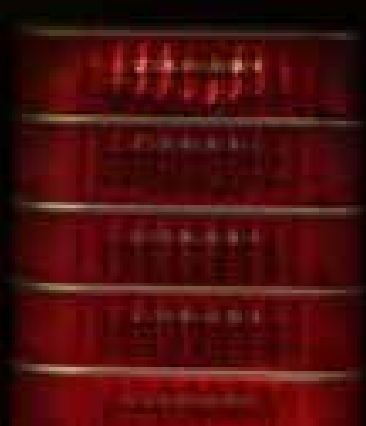
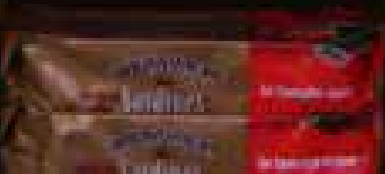
FUFU FLOUR
3 FOR £5.50
£5.50



FUFU FLOUR



FUFU FLOUR
3 FOR £5.50
6 FOR £11.00



NUTRITIONAL VALUE

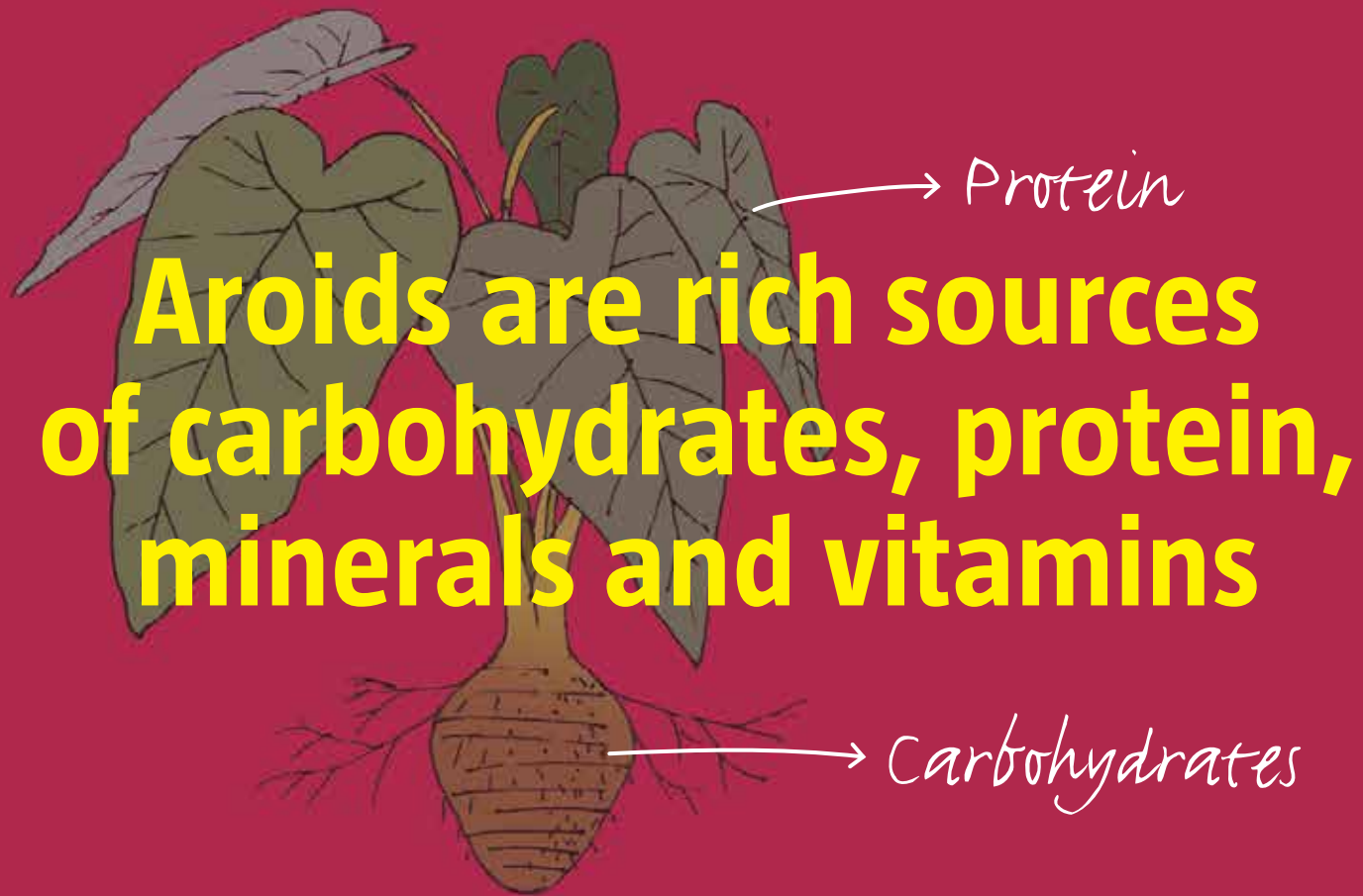


NUTRITIONAL VALUE



**All plant parts of aroids
are edible**

NUTRITIONAL VALUE



NUTRITIONAL VALUE

The corms and cormels provide for carbohydrates and have a similar nutritional value as potatoes



NUTRITIONAL VALUE

**If compared with potatoes,
their protein content
is slightly higher**



NUTRITIONAL VALUE

Corms & cormels

Hypoallergenic, easily digested
They contain micronutrients e.g.
minerals, Vitamin C, and B1 and B2,
and niacin



NUTRITIONAL VALUE



Aroids leaves

nickname 'tropical spinach'

**Rich in protein, an excellent source of micronutrients
e.g. Vitamin A, C, calcium, potassium, phosphorus,
iron and folic acid**

ARROIDS IN CUISINES & CULTURES



A photograph showing several people, including a man in a red shirt and a woman in a blue patterned shirt, leaning over a wooden table. They appear to be working on something inside white plastic cups. The background is slightly blurred, showing more people and some greenery. The text is overlaid in the center of the image.

**As a plant and food,
aroids are embedded in many
western and non-western cultures
where they are often perceived
as intrinsic to cultural identity**

A close-up photograph of a white bowl filled with a thick, green, herbaceous soup. Several pieces of cooked crab, showing their characteristic red and orange color, are visible on top of the soup. The soup itself is a vibrant green, suggesting the use of leafy vegetables or herbs. The bowl is set against a dark, textured background.

**Aroids and plant parts,
but also aroid dishes,
often carry a deep symbolic
meaning and cultural value
in the (sub-) tropics
and developing world**



THE AROID PLANT FAMILY: 120 GENERA & 3750 SPECIES



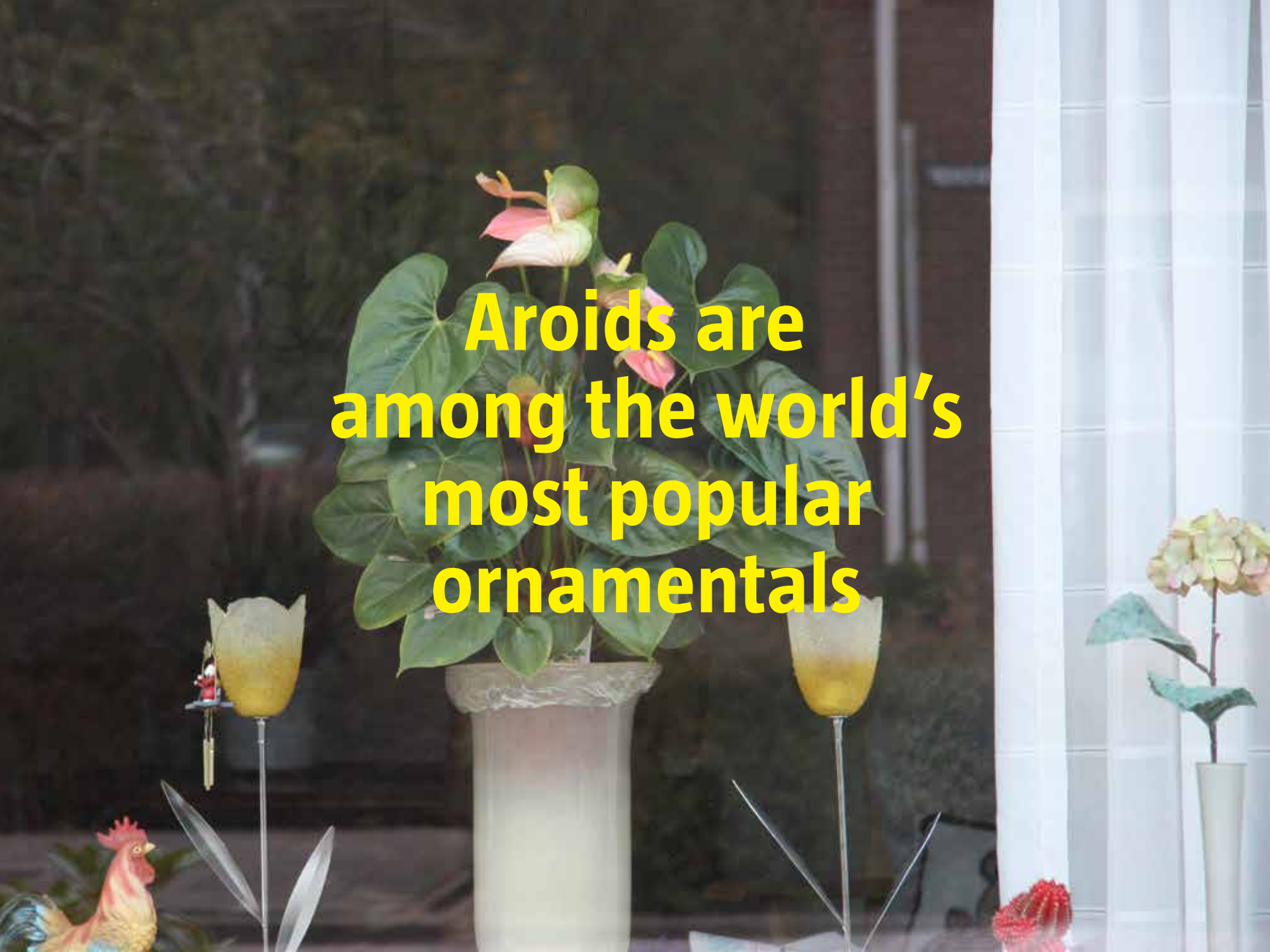
Aroids **food, medicine, animal fodder,** **cut flowers** **and ornamental plants**

AROIDS IN THE WESTERN WORLD



ORNAMENTALS



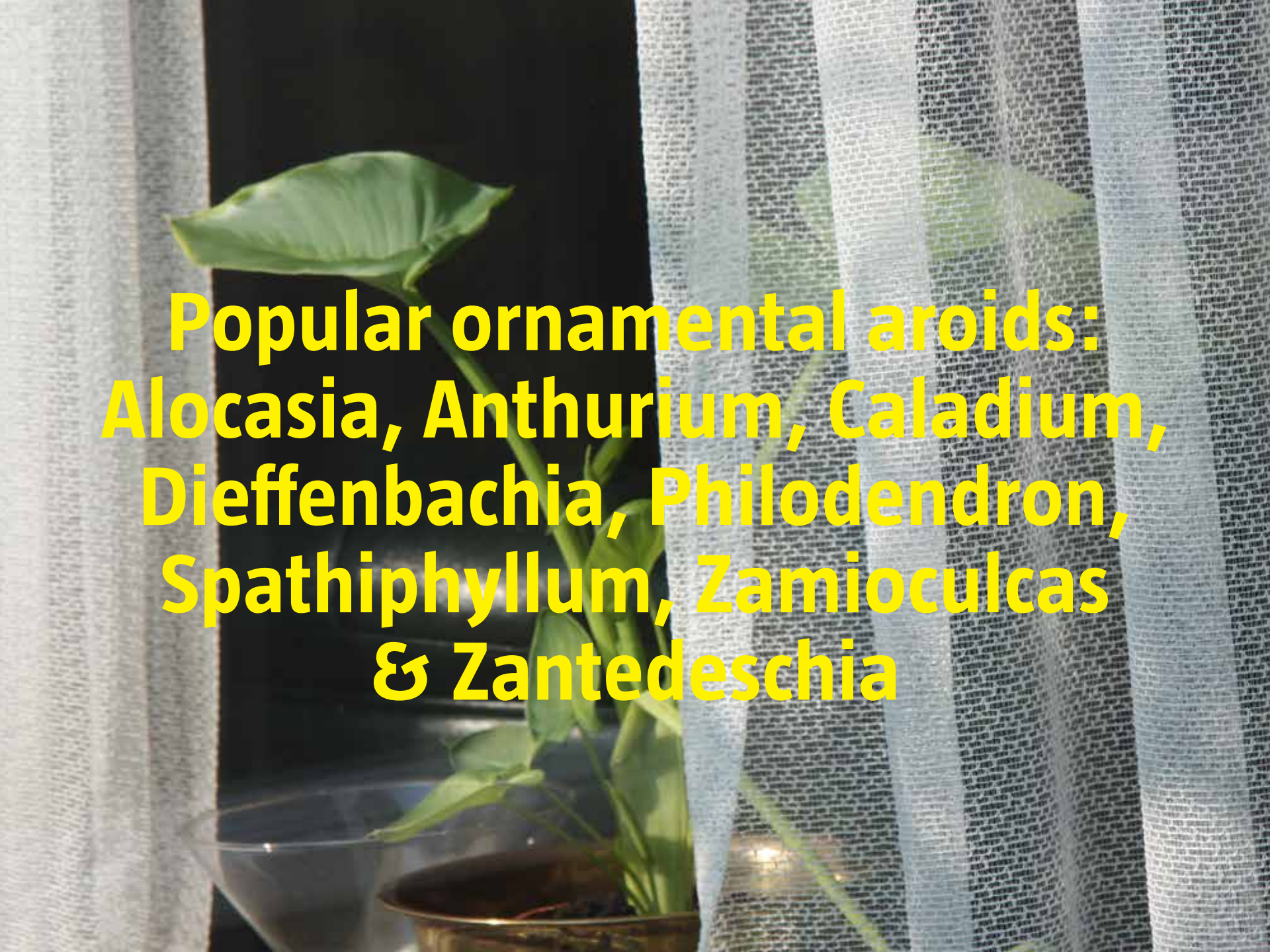


**Aroids are
among the world's
most popular
ornamentals**

A photograph of a nursery display featuring several potted aroid plants. In the foreground, a large plant with dark green leaves and prominent white variegation is prominent. Behind it, there are plants with deep red or maroon foliage. The plants are arranged on a metal shelving unit. In the background, other nursery items and price tags are visible, including one for 150, 69.95, and 124.95. A blue umbrella is partially visible on the left side of the frame.

**Annually around
50 million aroids are sold
worldwide**



A green plant with large, heart-shaped leaves is shown in a clear glass vase. The plant is positioned on the left side of the frame. The background consists of a newspaper with dense, printed text, which is slightly out of focus. The text is in a yellow color, making it stand out against the green of the plant and the grey of the newspaper.

**Popular ornamental aroids:
Alocasia, Anthurium, Caladium,
Dieffenbachia, Philodendron,
Spathiphyllum, Zamioculcas
& Zantedeschia**



AROIDS ART & DESIGN



Never grow up 8 - Yu Xiao



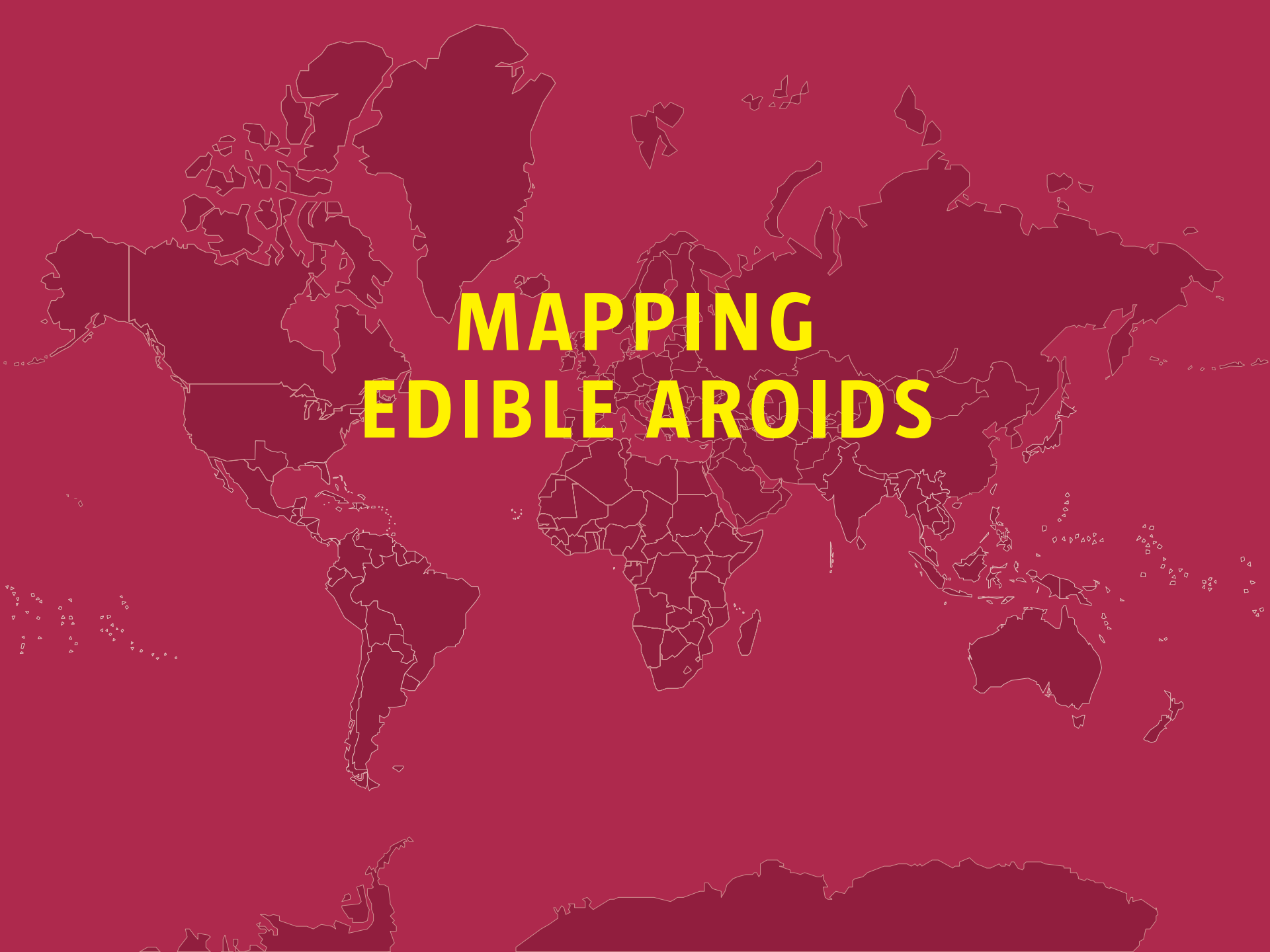
'Voyage Botanique' - Paul den Hollander



'Between romantic and rebellious' - Pieter Claessen

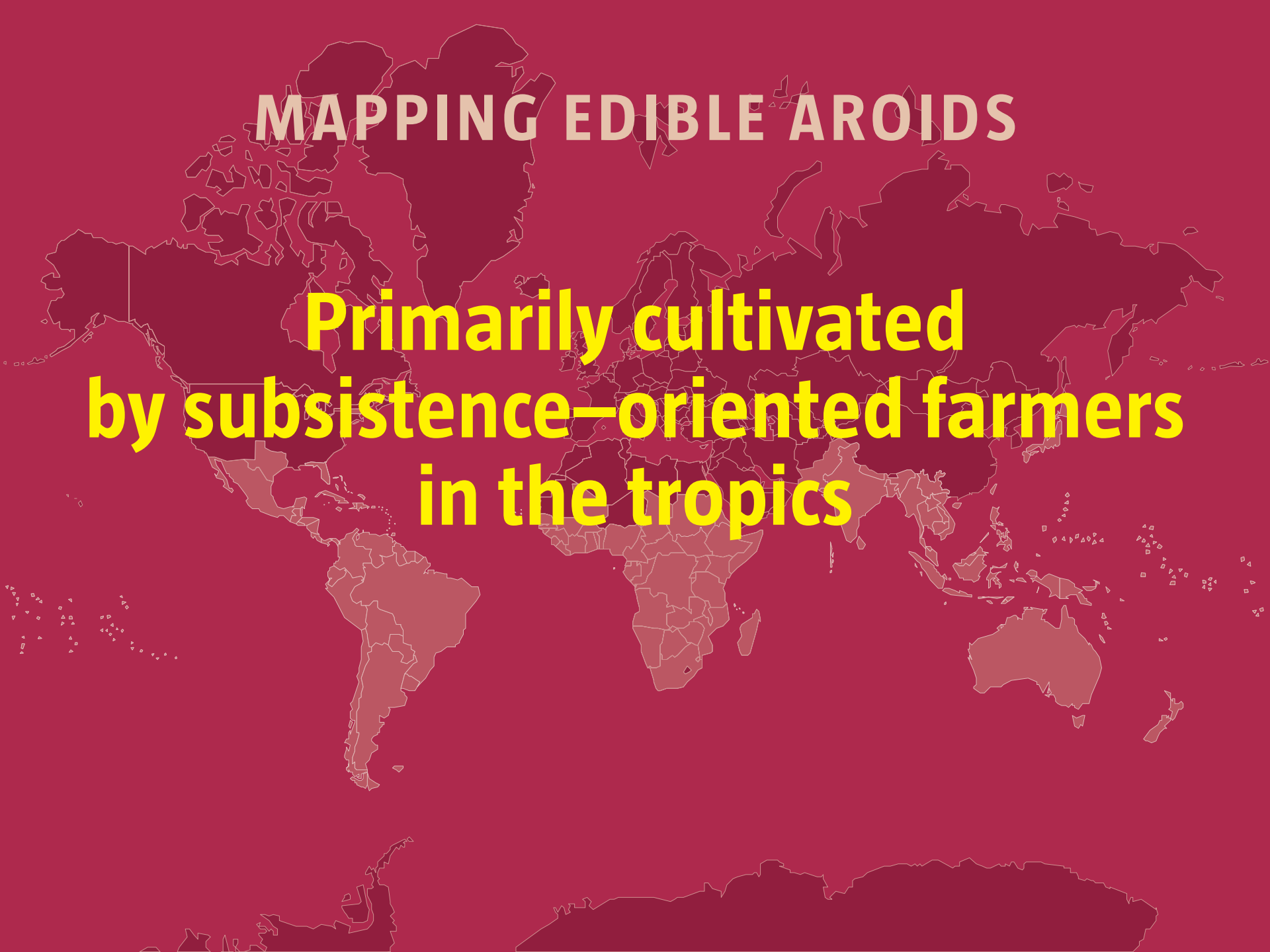


Felt plants - Driessens & Van den Baar, www.wandschappen.nl

A world map with a light beige background. The continents are outlined in dark grey. Numerous small, semi-transparent icons of aroids are scattered across the map, primarily concentrated in Central and South America, the Caribbean, and parts of Africa and Asia. The text "MAPPING EDIBLE AROIDS" is centered over the map in a large, bold, black sans-serif font.

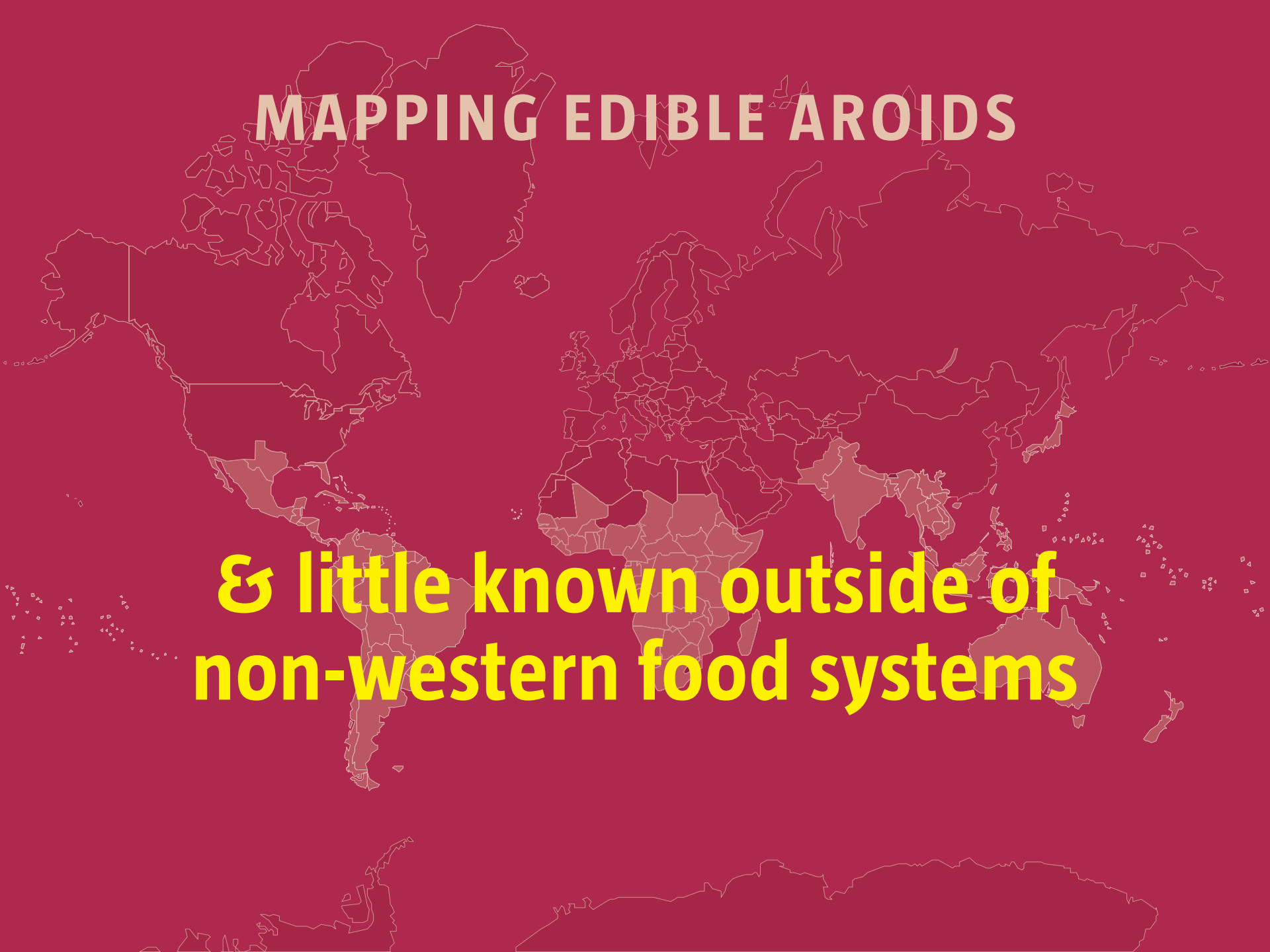
MAPPING EDIBLE AROIDS

MAPPING EDIBLE AROIDS

A world map with a light beige background and dark grey outlines of continents and countries. The map is centered on the Atlantic Ocean, showing North America, South America, Europe, Africa, Asia, and Australia.

**Primarily cultivated
by subsistence-oriented farmers
in the tropics**

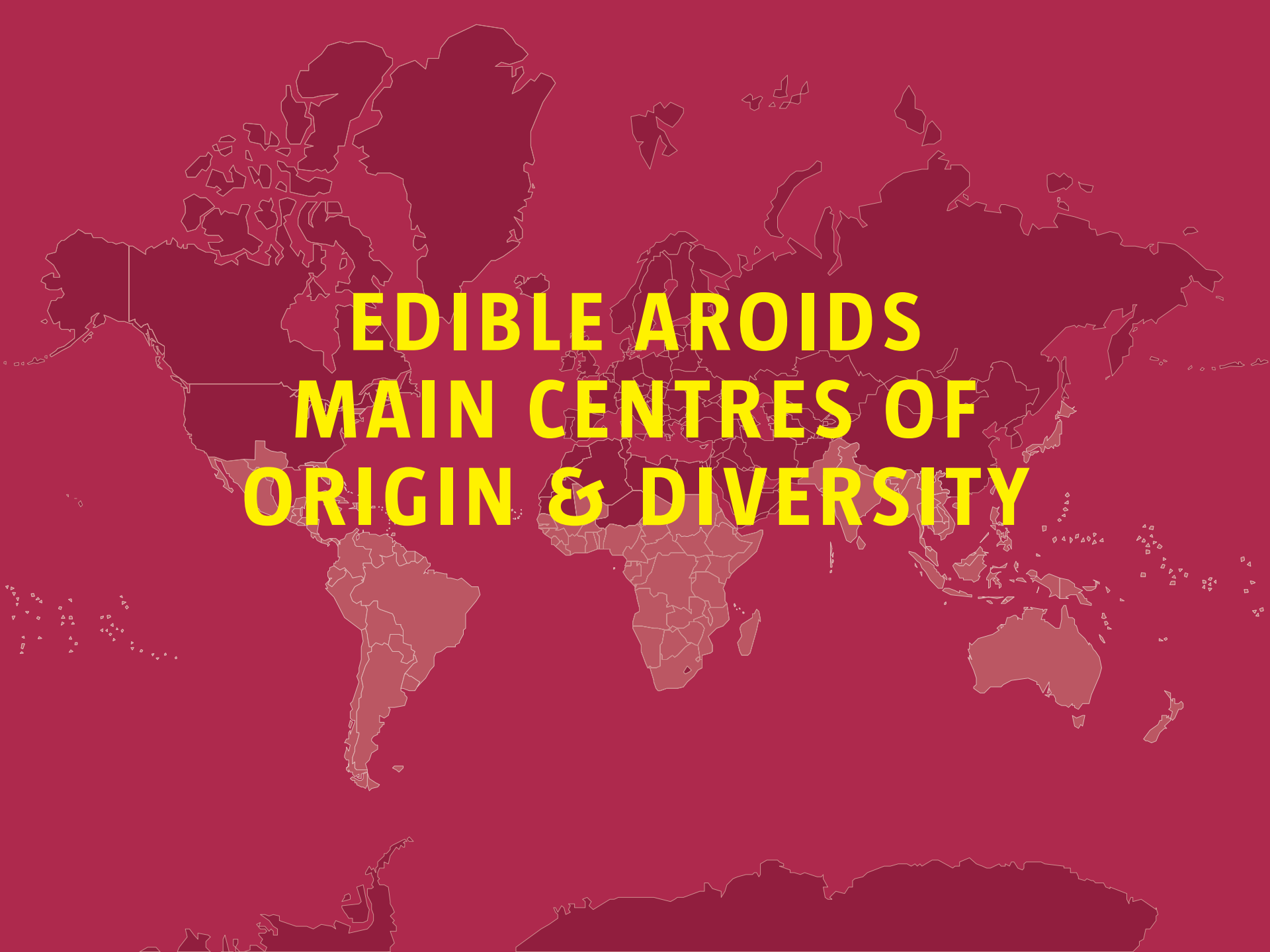
MAPPING EDIBLE AROIDS

A world map with a light beige background. The landmasses are outlined in a darker beige color. The map shows the distribution of edible aroids, with a concentration in the Americas, Europe, and parts of Africa and Asia. The text 'MAPPING EDIBLE AROIDS' is written in a bold, black, sans-serif font across the top of the map.

**& little known outside of
non-western food systems**

A photograph of three young women of African descent sitting outdoors in a lush, tropical environment. They are holding large, dark-skinned root vegetables with green stalks, likely cassava. The woman on the left wears a blue sleeveless top and a black skirt with a white floral pattern. The woman in the middle wears a yellow sleeveless top. The woman on the right wears a grey t-shirt and a light green skirt with a floral pattern, and a red beaded necklace. The background is filled with dense green foliage and trees. Overlaid on the image is yellow text.

**In the tropics,
small farming is directly and
indirectly related to
75% of the poverty
in rural areas**

A world map with a light beige background. The landmasses are outlined in dark grey. Various regions are highlighted in different colors: North America (USA and Canada) is light blue; Mexico is light green; Central America and the Caribbean are light orange; South America (primarily Brazil) is light green; Europe and North Africa are light blue; West and Central Africa are light orange; East Africa and Madagascar are light green; India and Southeast Asia are light orange; China and Japan are light blue; Korea is light green; the Philippines and Indonesia are light orange; Malaysia and Brunei are light green; Australia is light orange; New Zealand is light green; and Antarctica is light blue. Numerous small symbols are scattered across the map: blue squares are concentrated in North America, Europe, and Australia; green triangles are found in South America, East Africa, and Southeast Asia; orange diamonds are located in Central America, the Caribbean, and parts of Africa and Asia; and red circles are seen in Europe, Africa, and Asia. The text 'EDIBLE AROIDS' is centered over North America, 'MAIN CENTRES OF' is centered over Europe, and 'ORIGIN & DIVERSITY' is centered over Africa and Asia.

EDIBLE AROIDS MAIN CENTRES OF ORIGIN & DIVERSITY

EDIBLE AROIDS MAIN CENTRES OF ORIGIN & DIVERSITY

Southeast Asia:

**Elephant Ear, Elephant Foot Yam,
Swamp Taro & Taro**



EDIBLE AROIDS MAIN CENTRES OF ORIGIN & DIVERSITY

Latin America:

Tannia



AROIDS FOOD CROPS

Elephant Ear

[*L. Alocasia*]



AROIDS FOOD CROPS

Elephant Foot Yam

(*L. Amorphophallus*)



AROIDS FOOD CROPS

Taro (*L. Colocasia*)



AROIDS FOOD CROPS

Swamp Taro

(*L. Cyrtosperma*)



AROIDS FOOD CROPS

Tannia

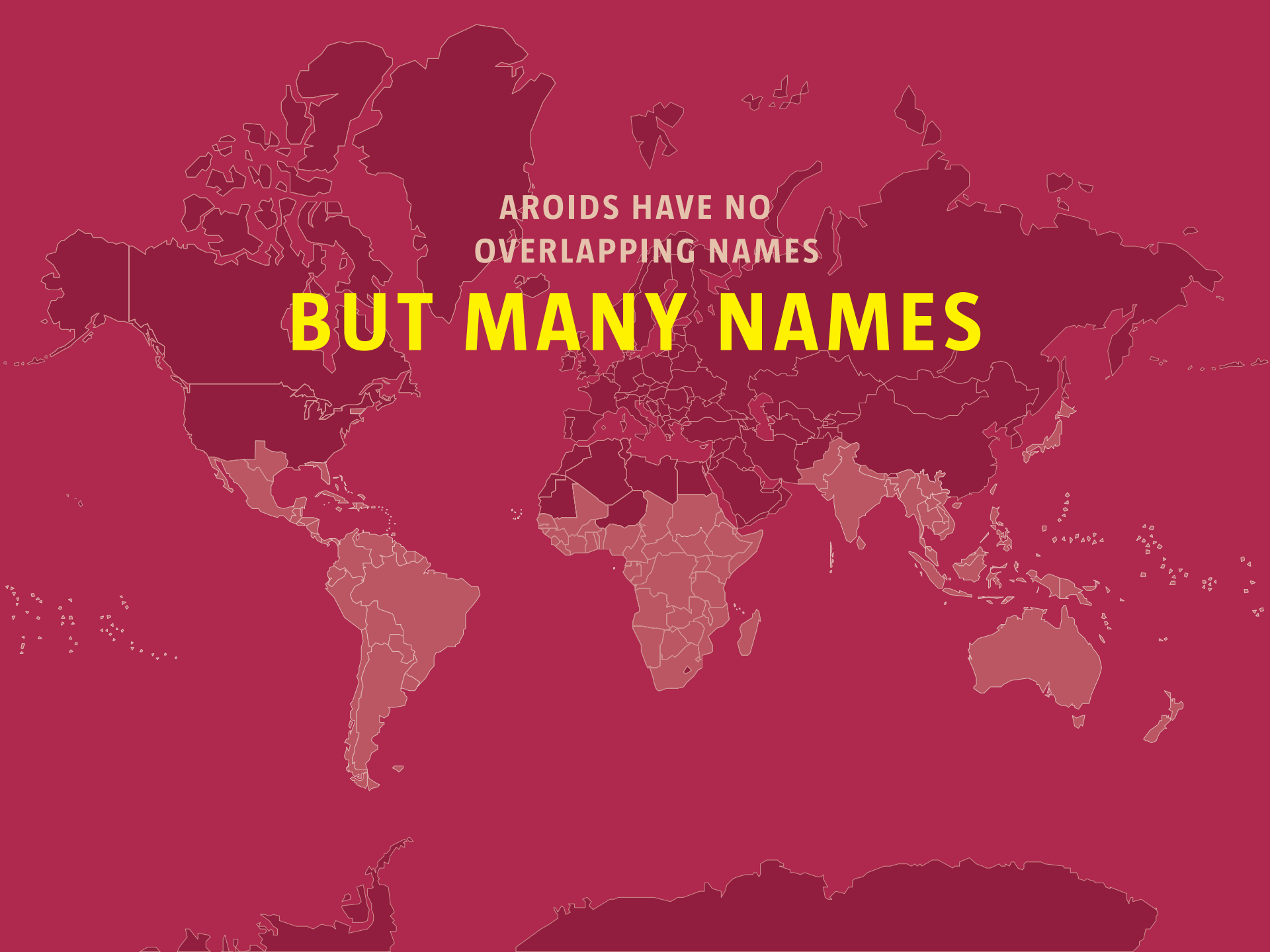
(*L. Xanthosoma*)





A world map with a light beige background and dark grey outlines of continents and countries. The map is centered on the Atlantic Ocean. Overlaid on the map is the text "AROIDS HAVE NO OVERLAPPING NAMES" in a bold, yellow, sans-serif font. The text is arranged in two lines, with "AROIDS HAVE NO" on the top line and "OVERLAPPING NAMES" on the bottom line. The text is centered horizontally and vertically on the map.

**AROIDS HAVE NO
OVERLAPPING NAMES**

A world map with a light beige background. The continents are outlined in a darker beige color. Overlaid on the map is text in white and yellow. The text is centered horizontally and vertically. The first line is in white, the second line is in white, and the third line is in yellow. The map shows the outlines of all major landmasses, including North America, South America, Europe, Africa, Asia, and Australia. The text is positioned over the Atlantic and European regions.

AROIDS HAVE NO
OVERLAPPING NAMES

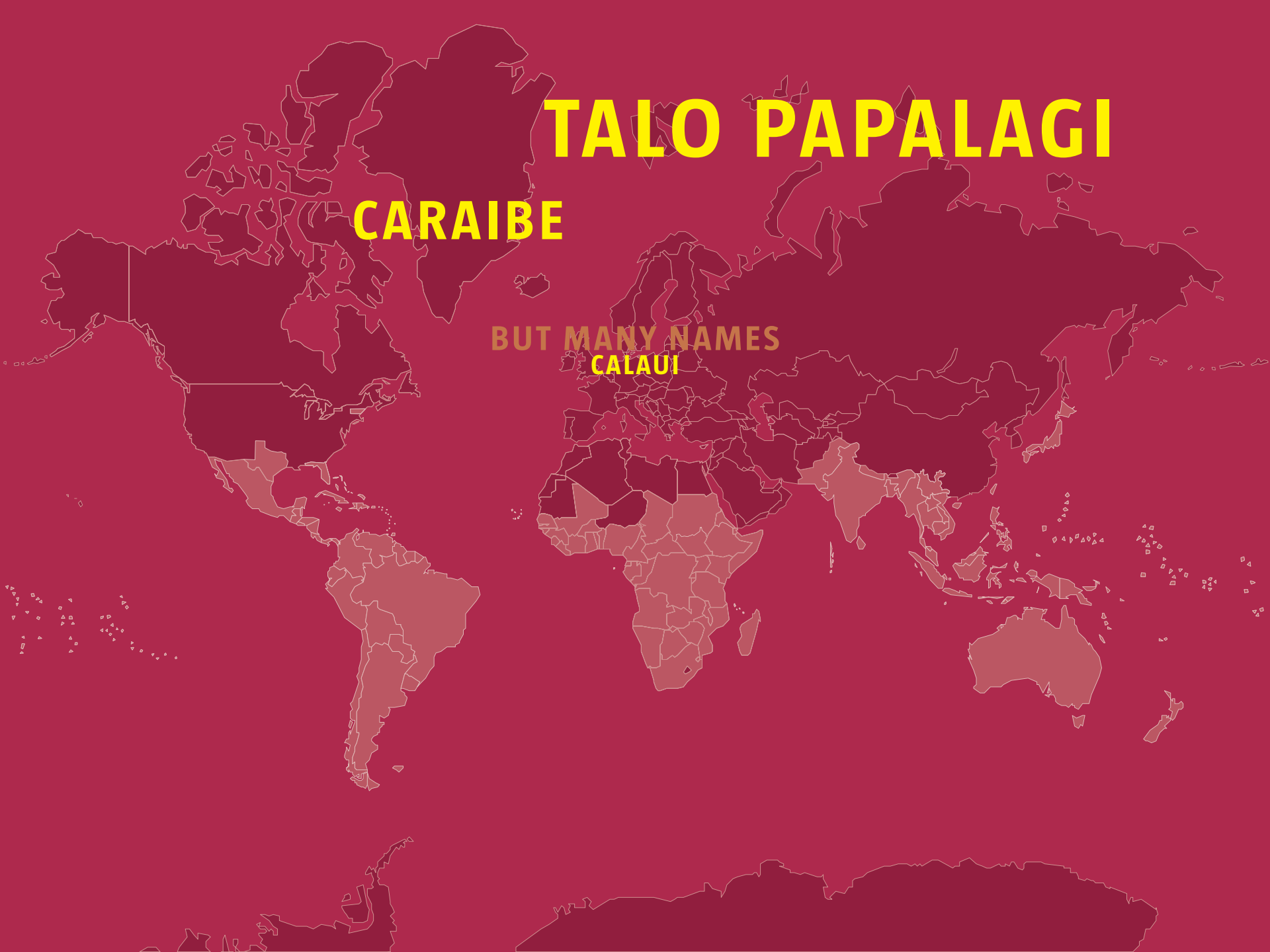
BUT MANY NAMES



CARAIBE

BUT MANY NAMES

CALAUI



TALO PAPALAGI

CARAIBE

BUT MANY NAMES

CALAUI



CARAIBE

MONG SAP VANG

BOGOLO

TANIER

YANTAS

YAHIBÍAS

TALO PAPALAGI

GALANGA

MALANGA

CALAUI

TARO TARU

BALUZA

TALO PAPALAGI

CARAIBE

MONG SAP VANG

GALANGA

MALANGA

GUAGÜI

CALAUI

DIAHUTIA

MACABO

BOC

YANTAS

TANIER

YAHIBÍAS

SAVAHN ANALULU

OTEN JAPAN

KIMPOOL



TARO TARU

KUTAK MOKIL

BALUZA

TALO PAPALAGI

CALUSA

CARAIBE

BADOO

GALANGA

MONG SAP VANG

MALANGA

GUAGÜI

CALAUI

DIAHUTIA

MACABO

BOO

QUEQUESQUE

TAHIA

ONI SAPAN

TANIA

TANIER

YANTAS

YAHIBÍAS

SAVAHN ANALULU

WOTEN SAPAN

OTEN JAPAN

KIMPOOL



TARO TARU

KUTAK MOKIL

SAVAHN AWAI

BALUZA

TARO

TALO PAPALAGI

CALUSA

CARAIBE

BADOO
GALANGA

YAUTÍA

MONG SAP VANG

MALANGA

OSH

GUAGÜI

CALAUI

SAVAHN AWAI

BOGOLO

DIANUTIA

MACABO

AL

QUEQUESQUE

AHIA

ONI SAPAN

KELADI

TANIER

YANTAS

TANIA

TIQUISQUE

SAVAHN ANALULU

YAHIBÍAS

WOTEN SAPAN

MOULAVIKACHU

WOTOPWU WA

OTEN JAPAN

KIMPOOL

EBALL



TARO TARU

KUTAK MOKIL

SAVAHN AWAI

BALUZA

TARO

TALO PAPALAGI

CALUSA

TAYO

BLUE 'APE'

CARAIBE

BADOO

YAUTÍA

GALANGA

MONG SAP VANG

AMANKANI

MALANGA

OSH

GUAGÜI

CALAUÍ

SAVAHN AWAI

AL

BOGOLO

DIAHUTIA

MACABO

BISECH RA RUK

QUEQUESQUE

ONI SAPAN

YABANE-IMO

AFRICA

TANIA

KELADI

TIQUISQUE

TANIER

YANTAS

YAHIBÍAS

KONTOMIRE

WOTEN SAPAN

SAVAHN ANALULU

WOTOPWU WA

OTEN JAPAN

EBALL

KIMPOOL



TARO TARU

KUTAK MOKIL

SAVAHN AWAI

BALUZA

TARO

TALO PAPALAGI

CALUSA

BLUE 'APE'

TAYO

CHINESE TARO

CARAIBE

MARUMI

BADOO

YAUTÍA

SEIBAN IMO

MONG SAP VANG

PURPLE TARO

GALANGA

AMANKANI

VIDOLODOLO

KHOAI MÙNG

MALANGA

OSH

GUAGÜI

TARO IMO

CALAUI

SAVAHN AWAI

SAIBAL

MON SAP VANG

BOGULO

OCUMO CUMAN

BISECH RA RUK

MACABO

QUEQUESQUE

TAHIA

BIRAH HITAM

TANIA

ONI SAPAN

ALOKLÖK

KELADI

YABANE-IMO

KRADAT DAM

YANTAS

SINGAPORE TARO

TIQUISQUE

TANIER

SAWAN. (YAP)

HONOLULU TARO

KONG-KONG TARO

YAHIBÍAS

UNCUCHA PAPA

KONTOMIRE

WOTEN SAPAN

SAVAHN ANALULU

MOULAVIKACHU

WOTOPWU WA

OTEN JAPAN

EBALL

KIMPOOL



TARO TARU

KUTAK MOKIL

SAVAHN AWAI

BALUZA

TARO

TALO PAPALAGI

CALUSA

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TARO IMO

CALAUI

SAVAHN AWAI

SAIBAL

MON SAP VANG

BOGULO

DAHIMAT

MACABO

MADUMBE

OCUMO CUMAN

BISECH RA RUK

QUEQUESQUE

TAHIA

BIRAH HITAM

TANIA

ONI SAPAN

ALÖKLÖK

YABANE-IMO

SINGAPORE TARO

TIQUISQUE

KELADI

KRADAT DAM

YANTAS

TANIER

SAWAN. (YAP) HONOLULU TARO

YAHIBÍAS

UNCUCHA PAPA

KONTOMIRE

WOTEN SAPAN

SAVAHN ANALULU

MOULAVIKACHU

WOTOPWU WA

OTEN JAPAN

EBALL

KIMPOOL

MAPPING TANNIA



MAPPING TANNIA

Taro & Tannia are the most widely grown and consumed aroids



MAPPING TANNIA

Tannia is the only indigenous American aroid widely used for food

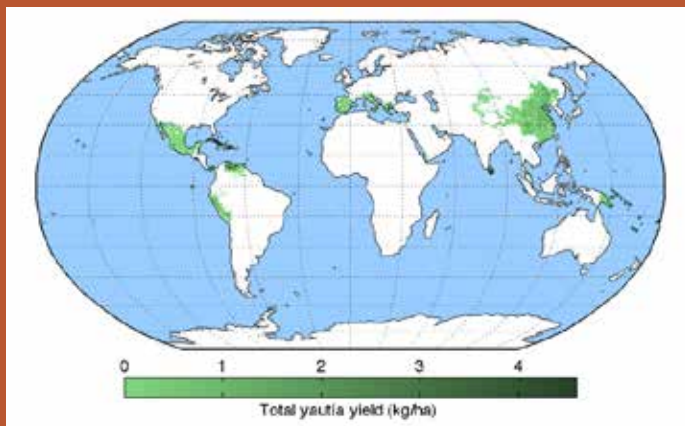


EDIBLE AROIDS

Where in the World is Taro Grown?



EDIBLE AROIDS: THE EXISTING MAPS



MAPPING TANNIA

Legend:

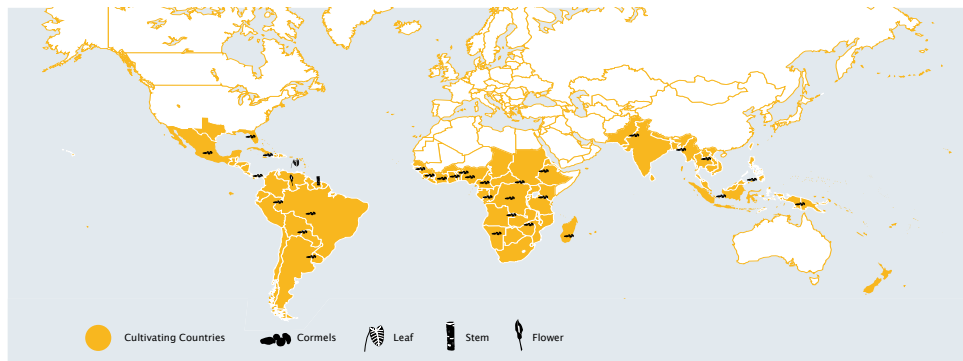
- Countries where taro is grown
- Low income food-deficit countries
- Low income food-deficit countries where taro is grown

Drafts

Legend:

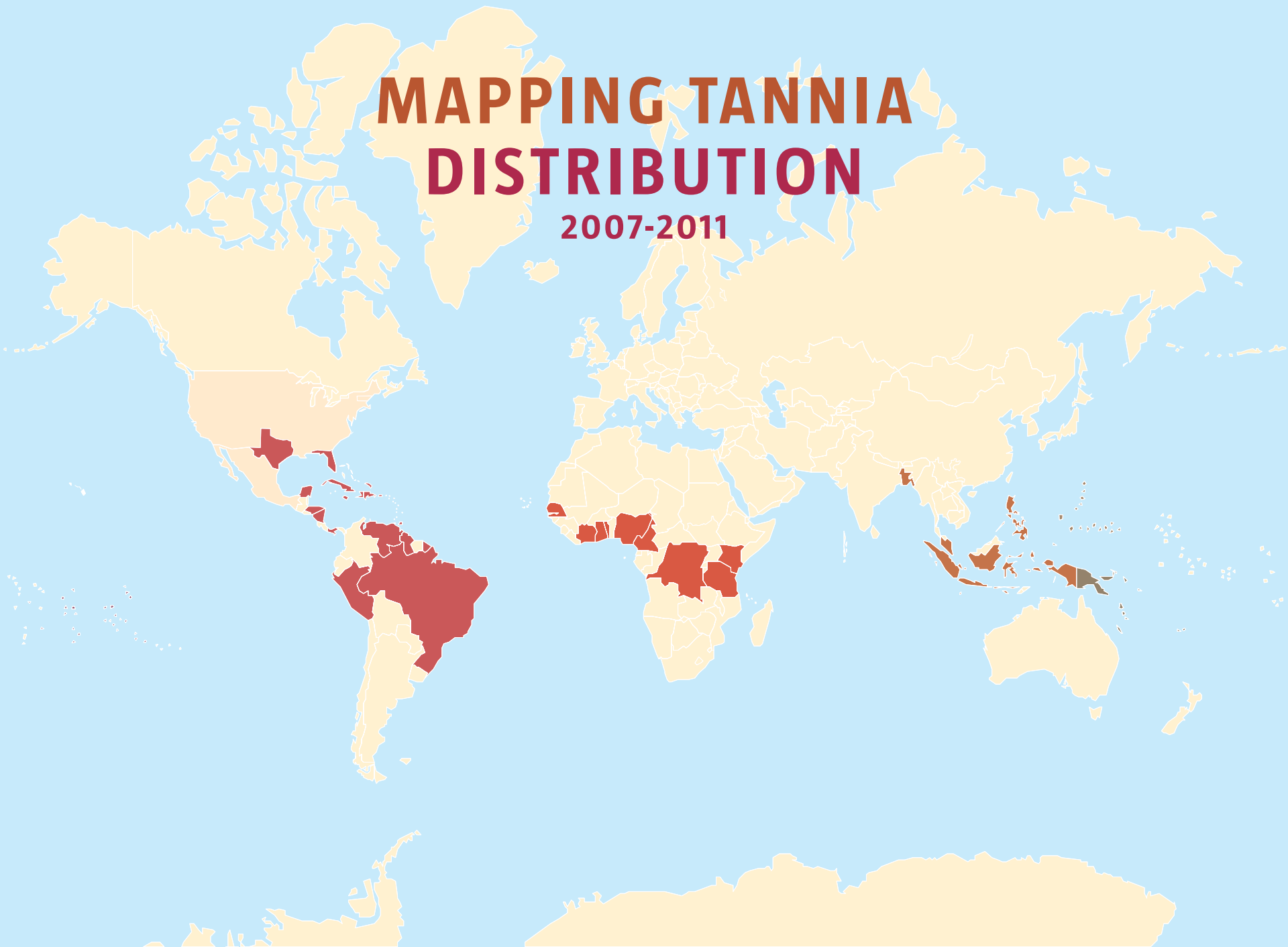
- Countries where taro is grown
- Low income food-deficit countries
- Low income food-deficit countries where taro is grown

Drafts



MAPPING TANNIA DISTRIBUTION

2007-2011



MAPPING TANNIA



MAPPING TANNIA

CULTIVATING COUNTRIES

NORTH AMERICA

- 1 Antigua and Barbuda - St. Johns
- 2 Bahamas - Nassau
- 3 Barbados - Bridgetown
- 4 Belize - Belmopan
- 5 Cayman Islands - George Town
- 6 Costa Rica - San José
- 7 Cuba - Havana
- 8 Dominica - Roseau
- 9 Dominican Republic (Republica Dominicana) - Santo Domingo
- 10 El Salvador - San Salvador
- 11 Grand Turk - Cockburn
- 12 Grenada - St. Georges
- 13 Guatemala - Guatemala
- 14 Haiti - Port-au-Prince
- 15 Honduras - Tegucigalpa
- 16 Jamaica - Kingston, Jamaica
- 17 Mexico (México) - Mexico City
- 18 Nicaragua - Managua
- 19 Panama (Panamá) - Panama City
- 20 Puerto Rico - San Juan
- 21 Saint Kitts and Nevis - Basseterre
- 22 Saint Lucia - Castries
- 23 Saint Vincent and the Grenadines - Kingstown
- 24 Trinidad and Tobago - Port of Spain
- 25 United States - Washington DC (Florida, Texas, Massachusettes)

POLYNESIA

- 1 American Samoa - Pago Pago
- 2 Cook Islands - Avarua
- 3 French Polynesia - Papeete
- 4 Niue - Alofi
- 5 Pitcairn Islands - Adamstown
- 6 Samoa - Apia
- 7 Tokelau - Nukunono
- 8 Tonga - Nuku'alofa
- 9 Tuvalu - Funafuti
- 10 Wallis and Futuna Islands - Mata-Utu

SOUTH AMERICA

- 1 Argentina - Buenos Aires
- 2 Bolivia - La Paz, Sucre
- 3 Brazil (Brasil) - Brasília
- 4 Chile - Santiago
- 5 Colombia - Bogotá
- 6 Ecuador - Quito
- 7 French Guiana - Cayenne (part of France)
- 8 Guyana - Georgetown
- 9 Paraguay - Asuncion
- 10 Peru - Lima
- 11 Suriname - Paramaribo
- 12 Uruguay - Montevideo
- 13 Venezuela - Caracas

AFRICA

- 1 Angola - Luanda
- 2 Benin - Porto Novo, Cotonou
- 3 Botswana - Gaborone
- 4 Burkina Faso - Ouagadougou
- 5 Burundi - Bujumbura
- 6 Cameroon (also spelled Cameroun) - Yaoundé
- 7 Cape Verde - Praia
- 8 Central African Republic (Centrafrique) - Bangui
- 9 Chad (Tchad) - N'Djamena
- 10 Comoros - Moroni
- 11 Republic of the Congo - Brazzaville
- 12 Democratic Republic of the Congo - Kinshasa
- 13 Côte d'Ivoire (Ivory Coast) - Yamoussoukro
- 14 Djibouti - Djibouti
- 15 Equatorial Guinea - Malabo
- 16 Eritrea - Asmara
- 17 Ethiopia (Itiopia) - Addis Ababa
- 18 Gabon - Libreville

- 19 The Gambia - Banjul
- 20 Ghana - Accra
- 21 Guinea - Conakry
- 22 Guinea-Bissau - Bissau
- 23 Kenya - Nairobi
- 24 Liberia - Monrovia
- 25 Madagascar - Antananarivo
- 26 Malawi - Lilongwe
- 27 Mali - Bamako
- 28 Mozambique - Maputo
- 29 Namibia - Windhoek
- 30 Nigeria - Abuja
- 31 Rwanda - Kigali
- 32 São Tomé and Príncipe - São Tomé
- 33 Senegal - Dakar
- 34 Sierra Leone - Freetown
- 35 Somalia - Mogadishu
- 36 South Africa - Cape Town, Pretoria, Bloemfontein
- 37 South Sudan
- 38 Sudan - Khartoum
- 39 Swaziland - Mbabane
- 40 Tanzania - Dar es Salaam, Dodoma
- 41 Togo - Lomé
- 42 Uganda - Kampala
- 43 Zambia - Lusaka
- 44 Zimbabwe - Harare

ASIA

- 1 Bangladesh - Dhaka
- 2 Cambodia (Kampuchea) - Phnom Penh
- 3 China, People's Republic of - Beijing (Yunnan)
- 4 China, Republic of (a.k.a. Taiwan) - Taipei
- 5 East Timor (Timor Leste) - Dili
- 6 India (Hindi: Bharat) - New Delhi
- 7 Indonesia - Jakarta
- 8 Japan (Nihon) - Tokyo
- 9 Laos - Vientiane
- 10 Malaysia - Kuala Lumpur
- 11 Maldives - Malé
- 12 Myanmar (Burma) - Yangon
- 13 Nepal - Kathmandu
- 14 Pakistan - Islamabad
- 15 Philippines - Manila
- 16 Sri Lanka - Sri Jayawardenapura Kotte, not Colombo now
- 17 Thailand (Muang Thai) - Bangkok
- 18 Vietnam - Hanoi

MICRONESIA

- 1 Guam - Hagåtña
- 2 Kiribati - Tarawa atoll
- 3 Marshall Islands - Majuro
- 4 Federated States of Micronesia - Palikir
- 5 Nauru - Yaren
- 6 Northern Mariana Islands - Saipan
- 7 Palau - Koror

MELANESIA

- 1 Fiji - Suva
- 2 New Caledonia - Nouméa
- 3 Papua New Guinea - Port Moresby
- 4 Solomon Islands - Honiara
- 5 Vanuatu - Port Vila

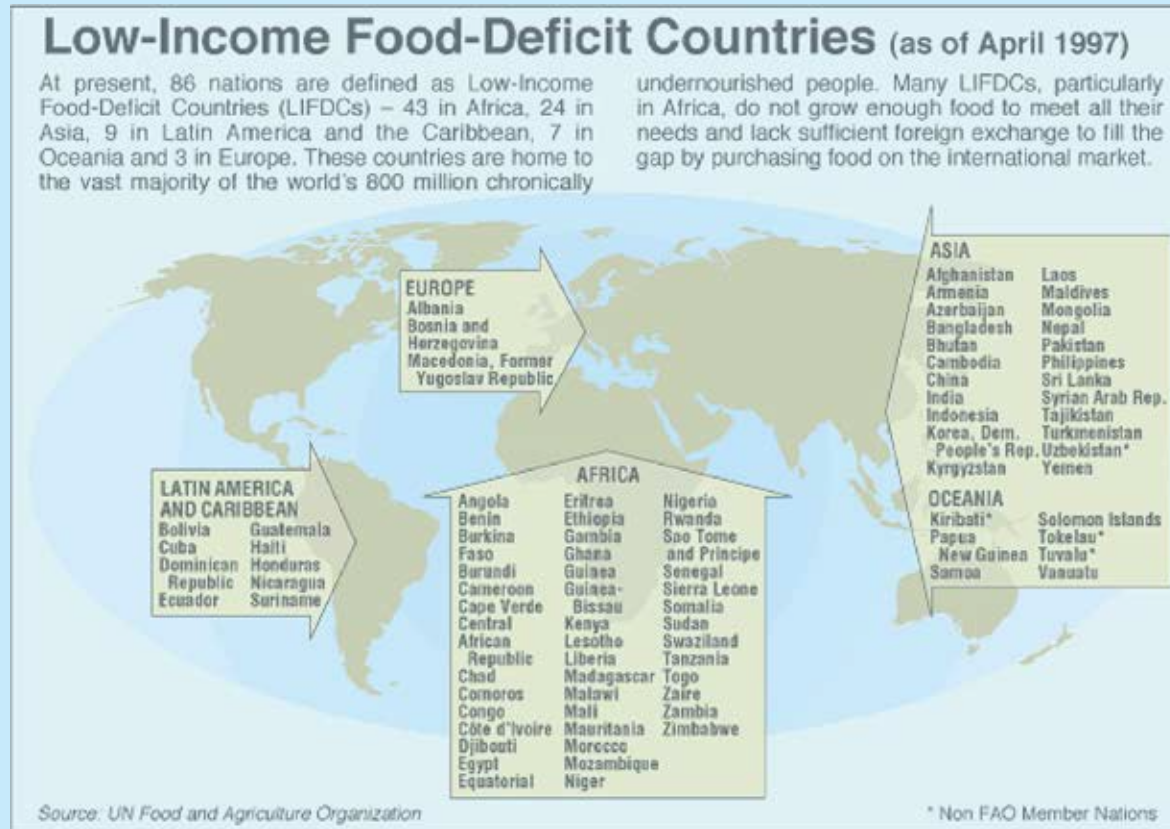
AUSTRALIA AND NEW ZEALAND

- 1 Australia - Canberra
- 2 New Zealand (Aotearoa) - Wellington
- 3 Christmas Island - The Settlement

MAPPING EDIBLE AROIDS

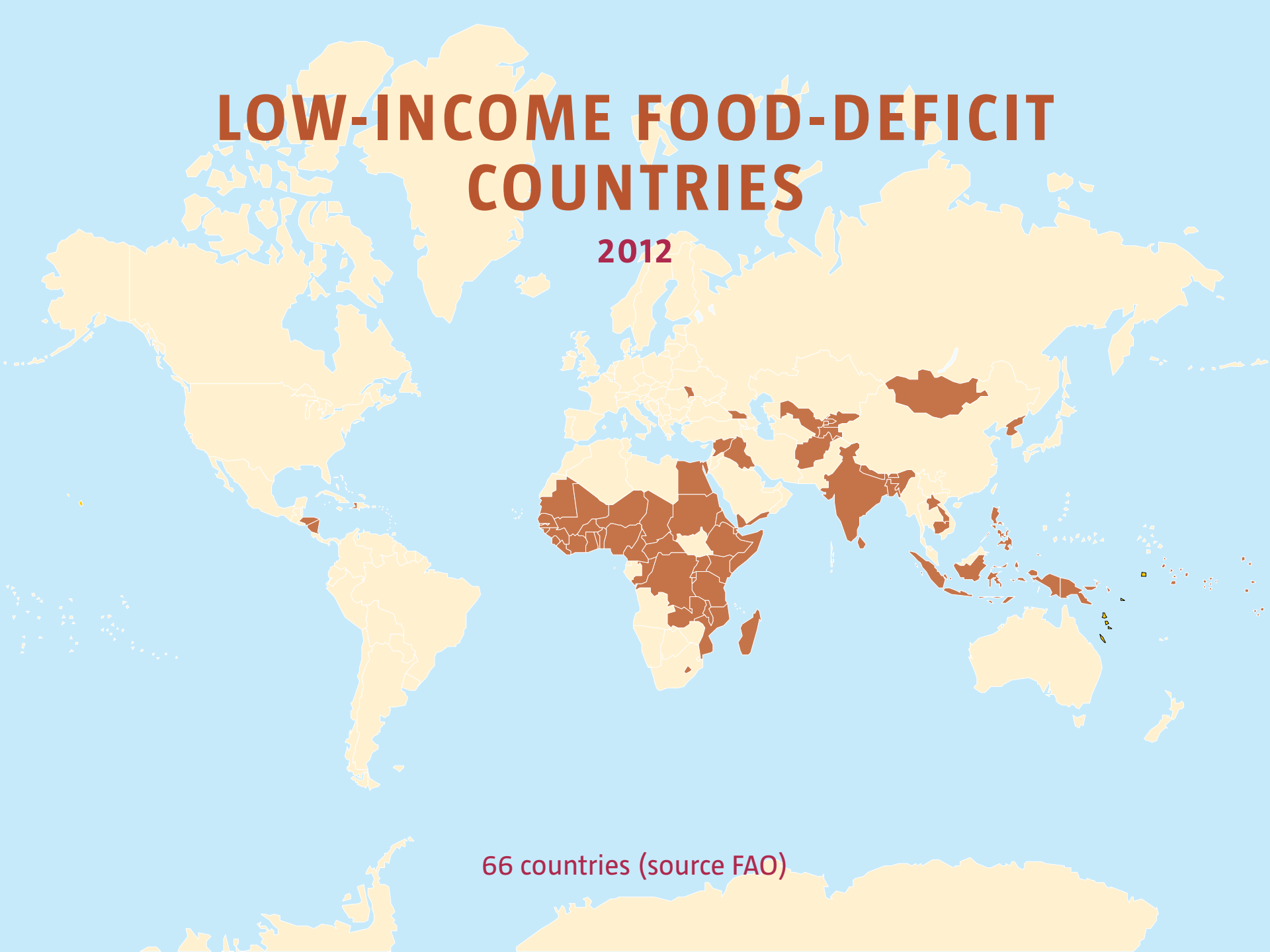
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

[FAO]



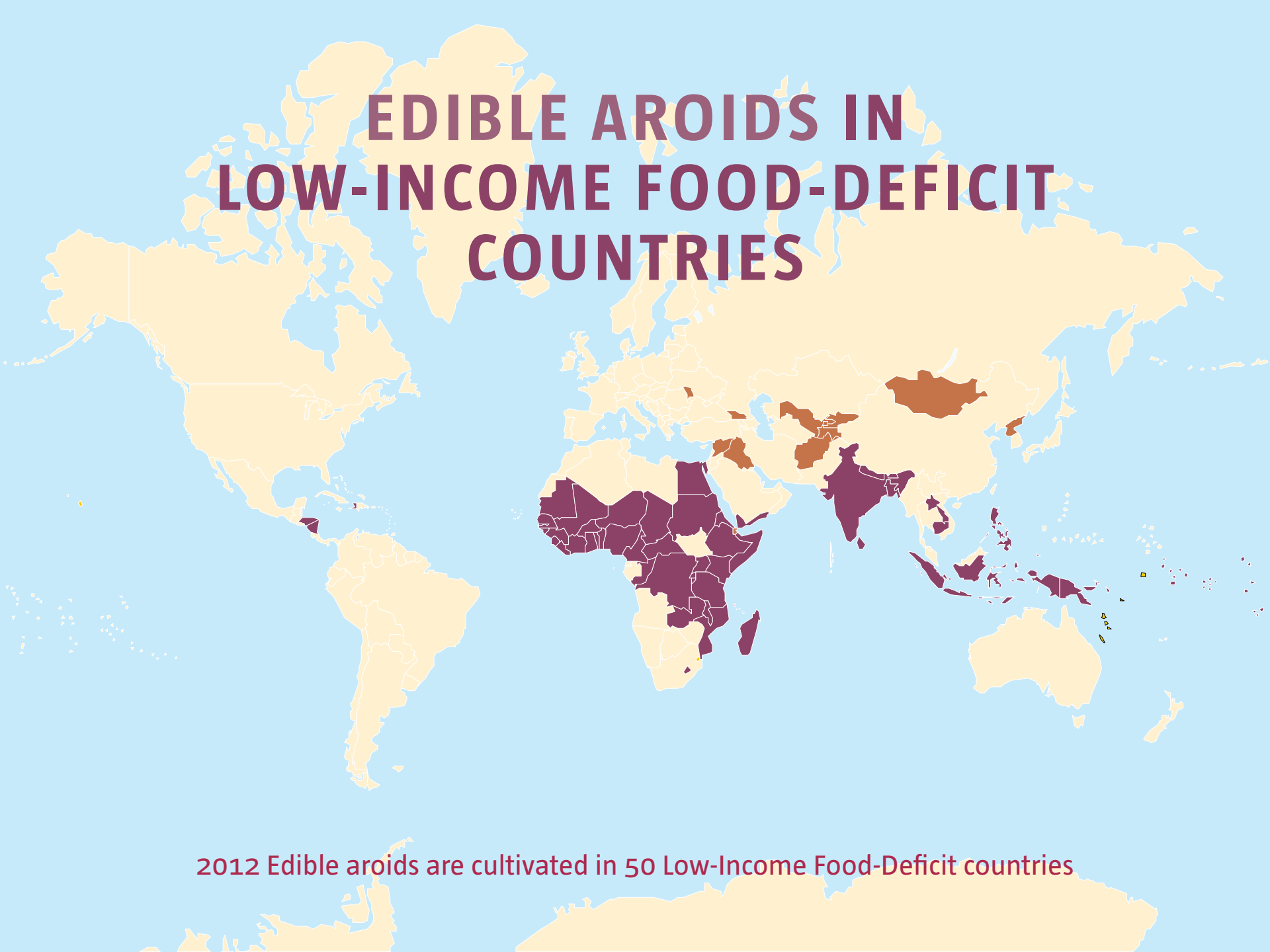
LOW-INCOME FOOD-DEFICIT COUNTRIES

2012



66 countries (source FAO)

EDIBLE AROIDS IN LOW-INCOME FOOD-DEFICIT COUNTRIES



2012 Edible aroids are cultivated in 50 Low-Income Food-Deficit countries

MAPPING EDIBLE AROIDS & LOW-INCOME FOOD-DEFICIT COUNTRIES

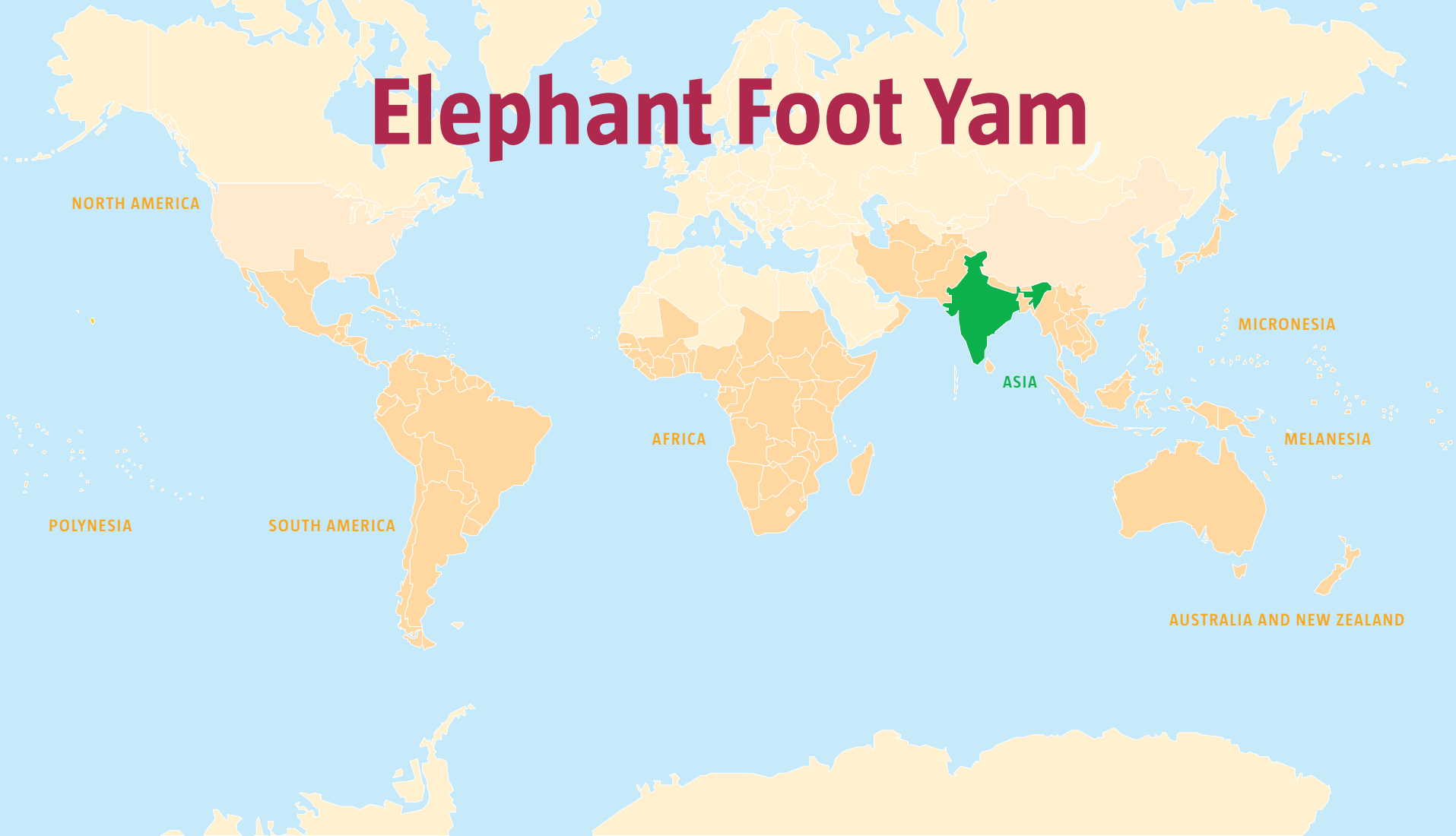
Elephant Ear





MAPPING EDIBLE AROIDS & LOW-INCOME FOOD-DEFICIT COUNTRIES

Elephant Foot Yam



OL-Chingrir Dalna
(Elephant yam & Prawn curry)



MAPPING EDIBLE AROIDS & LOW-INCOME FOOD-DEFICIT COUNTRIES

Swamp Taro





MAPPING EDIBLE AROIDS & LOW-INCOME FOOD-DEFICIT COUNTRIES

Taro





MAPPING EDIBLE AROIDS & LOW-INCOME FOOD-DEFICIT COUNTRIES

Tannia

NORTH AMERICA

POLYNESIA

SOUTH AMERICA

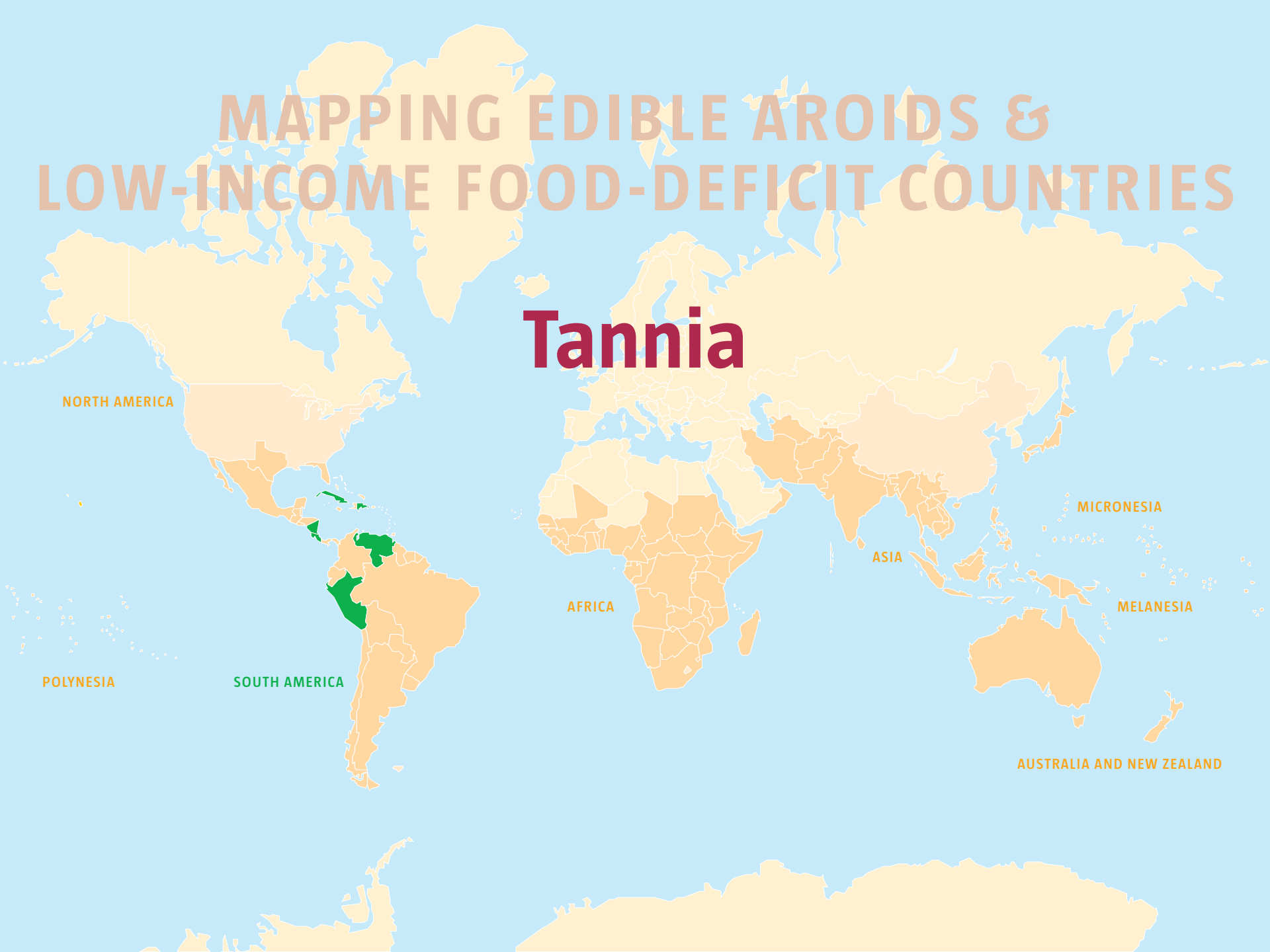
AFRICA

ASIA

MICRONESIA

MELANESIA

AUSTRALIA AND NEW ZEALAND



A group of people, likely agricultural workers, are shown in a field. The image is overlaid with a strong red and orange gradient. The text is white and bold, centered over the image.

**“¡se ha olvidado la malanga!,
a pesar de las veces que hemos
dicho que si no hay nada que comer
comeremos malanga.”**

[APLAUSOS]

**“¡the malanga has been forgotten!,
despite the time we have said that if there is nothing to eat
we will eat malanga.”**

[Applause]

Fidel Castro (1961)

ACKNOWLEDGEMENTS

Thank you

Glide'12

Peer reviewers

Grahame Jackson

International Network for Edible Aroids (INEA)

www.Ediblearoids.org

Raj Shekhar Misra

Central Tuber Crops Research Institute, India (CTCRI)

Charlotte Lusty

Global Crop Diversity Trust

Ieva Laurina

Isabel Serval

Paul den Hollander

Kahmann Gallery, Amsterdam

Pieter Claessen

Nicole Driessens & Ivo van den Baar

www.wandschappen.nl

Yu Xiao

Flatland Gallery, Utrecht

Flatland Gallery

KARIN VANEKER & ERWIN SLAATS
AMSTERDAM, THE NETHERLANDS

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FOOD, NUTRITION, AND HEALTH

KARIN VANEKER & ERWIN SLAATS
AMSTERDAM, THE NETHERLANDS

MAPPING EDIBLE AROIDS

Thank you



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