



XV Jornadas Europeas de la Castaña 2025

The world sector of chestnut

ARACENA, 10-13 SEPTEMBER 2025

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Gomes-Laranjo, et al., 2025

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Belgium: Willem Van Colen / INAGRO

Chile: Pedro Halcartegary / Viveiro Austral

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Greece: Stephanos Diamandis /

Hungary: Egyed Károly / Sarkpont Cc.

Italy: Giulio Demetrio Perulli / Bologne University

Iran: Mohammadreza Rezapanah, Association of Iranian Plant Protection Scientific Societies

Japan: Norio Takada / Inst. of Fruit Tree and Tea Science, NARO; Eiichi Inoue / Ibaraki University

Malaysia: Hashimah Elias / Universiti Malaysia Sarawak

Slovakia: Michal Pastor / NATIONAL FOREST CENTRE- Forest Research Institute Zvolen

Spain: Beatriz Cuenca / Tragsa; Santiago Pereira / Santiago Compostela University;

Roberto Rubio /CESEFOR

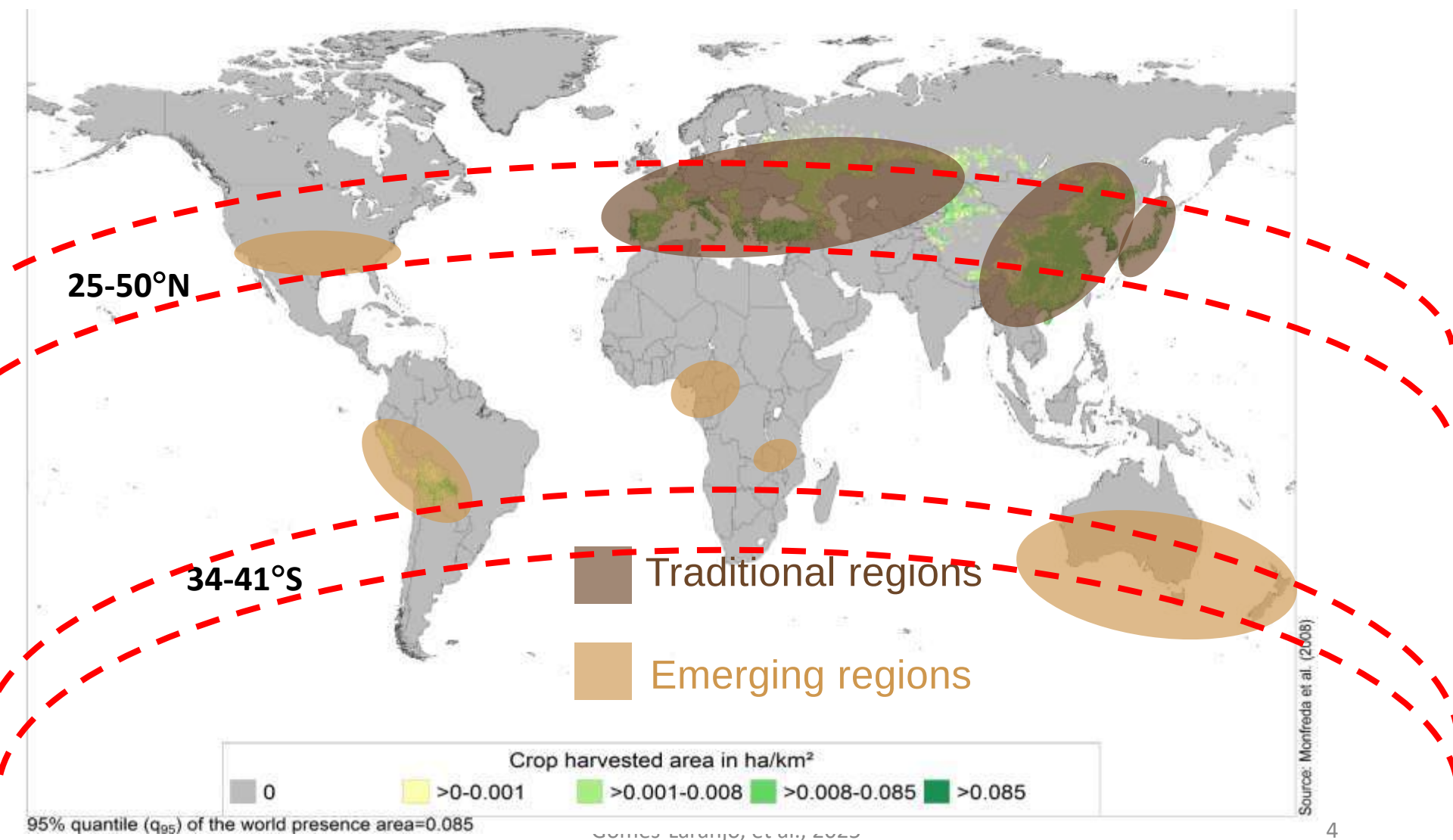
Turkey: Burak Akyuz / Department at Scientific-Research Center of Agriculture, Tbilisi

USA: Gregory L. Reighard / Clemson University

Data about the world and national productions and about trade that are presented were collected from:

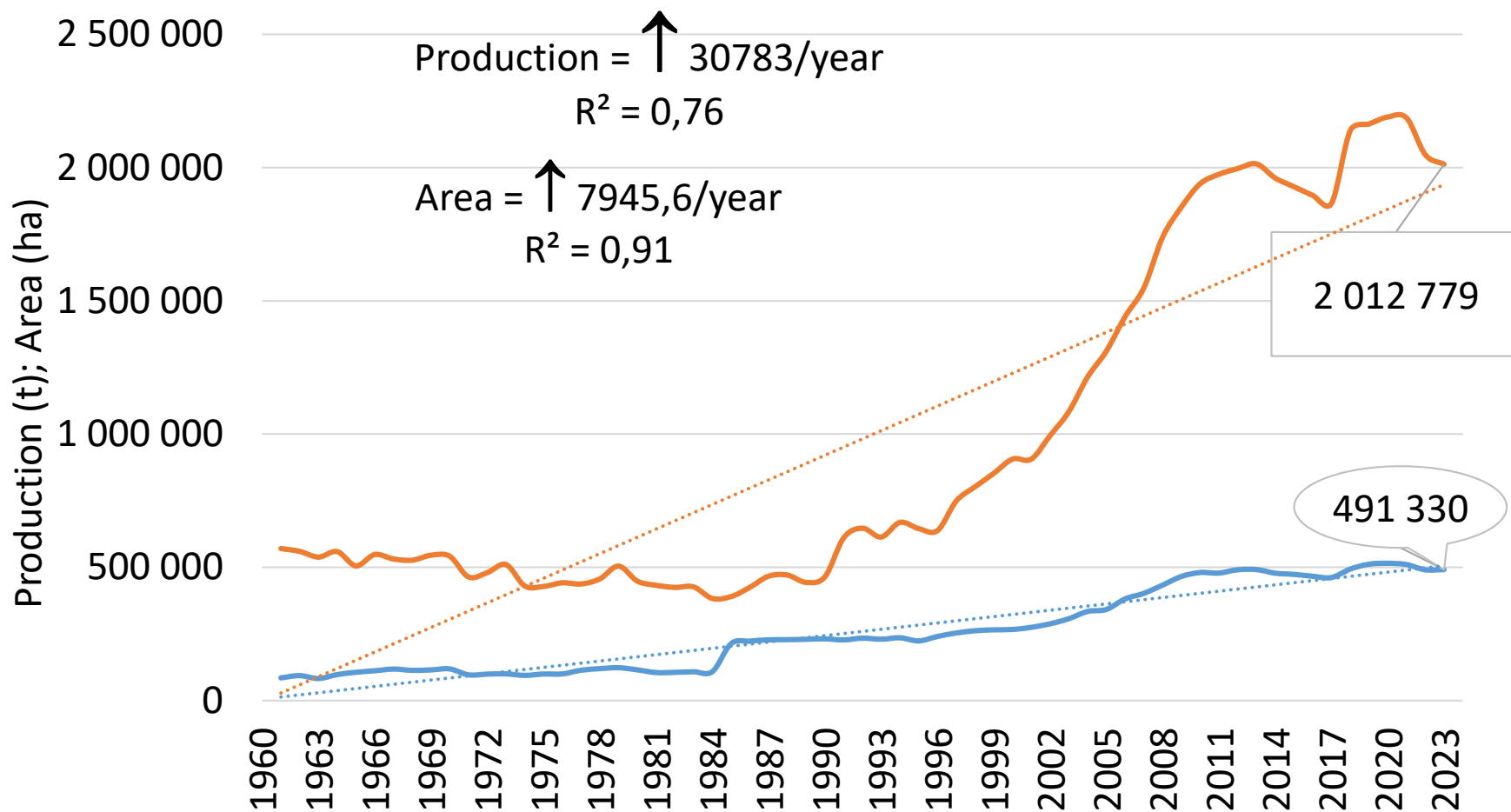
- 1- FAO
- 2- Tridge - Global Sourcing Hub of Food & Agriculture (www.tridge.com)
- 3- White book of Chestnut – Eurocastanea (www.eurocastanea.eu)
- 4- From the collaborators previously cited
- 5- National data bases of country

Chestnut in the World – Latitudes



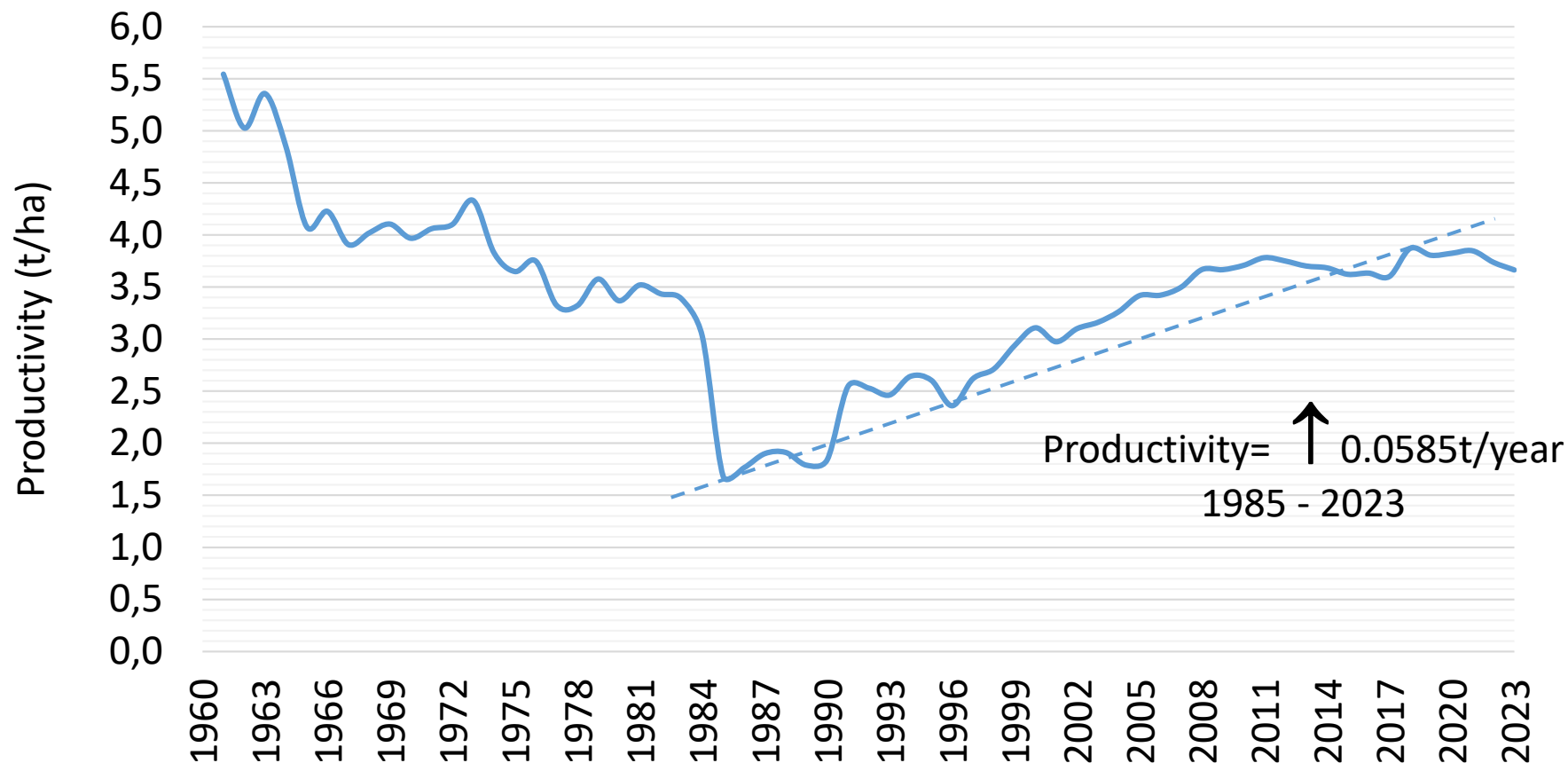
Chestnut in the World

Production vs Area

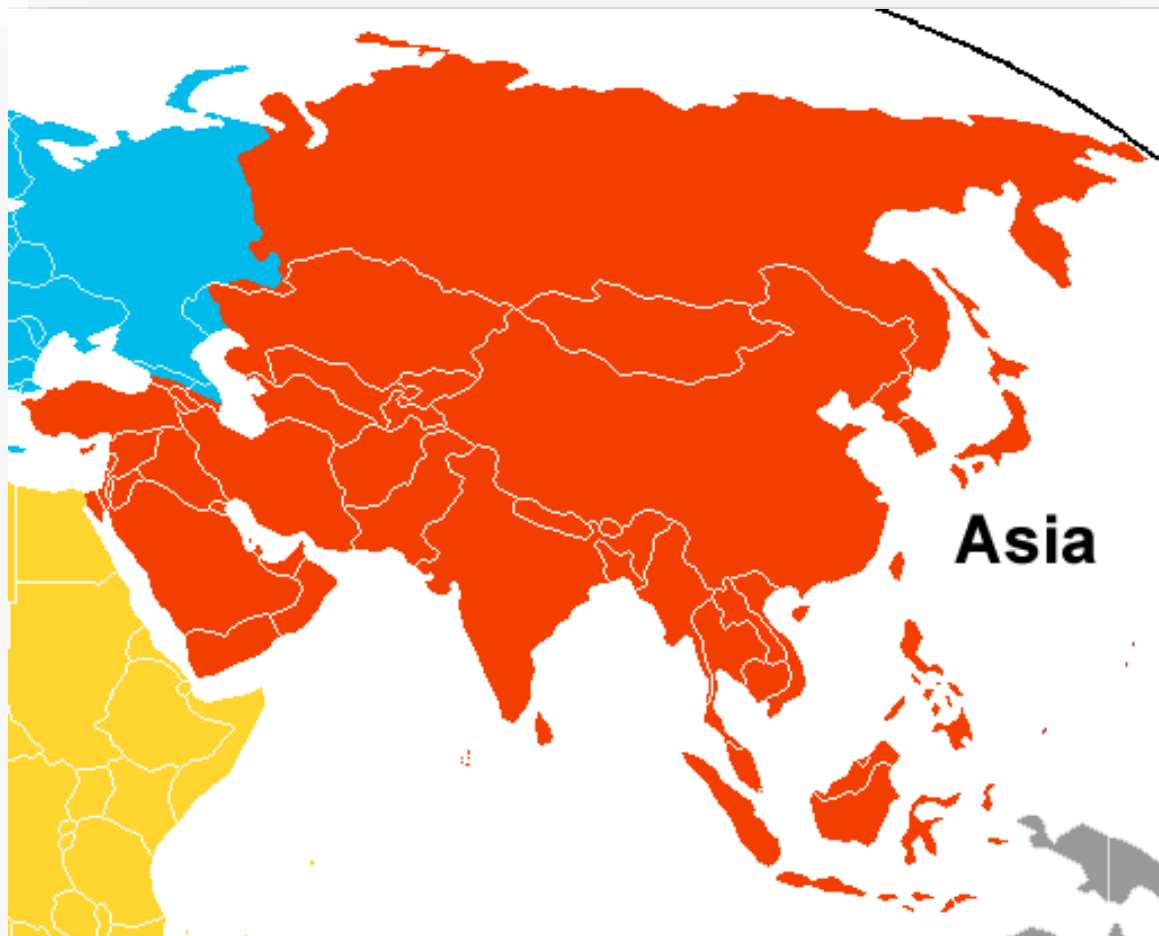


Chestnut in the World

Productivity 1960 - 2023

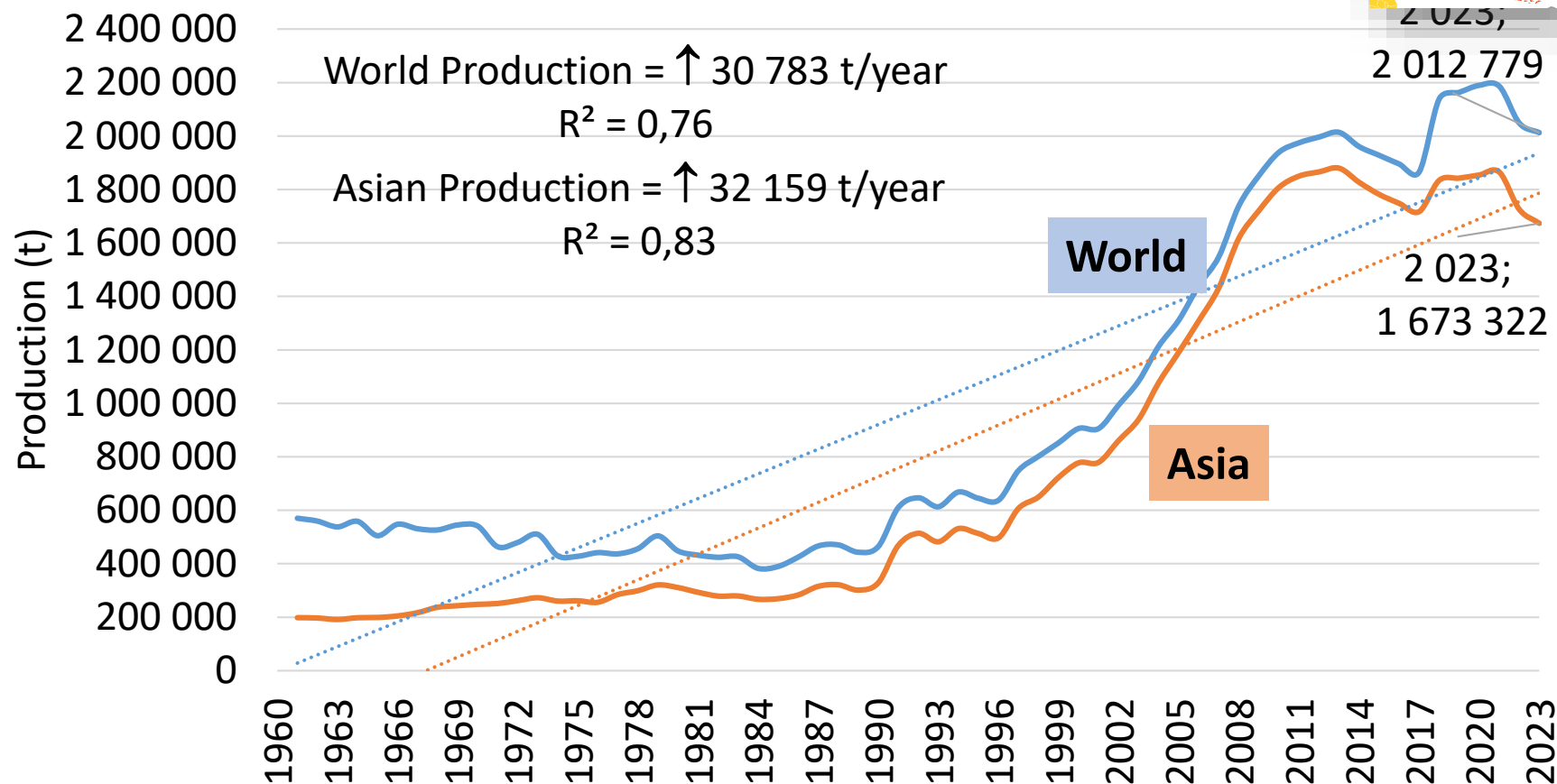


Chestnut in the World - Asia



Chestnut in the World – Asia

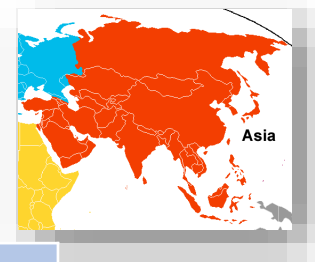
Production 1960-2023



Asian production represents 84% of the world production

Chestnut in the World – Asia

Production (2018-2023) – List of countries



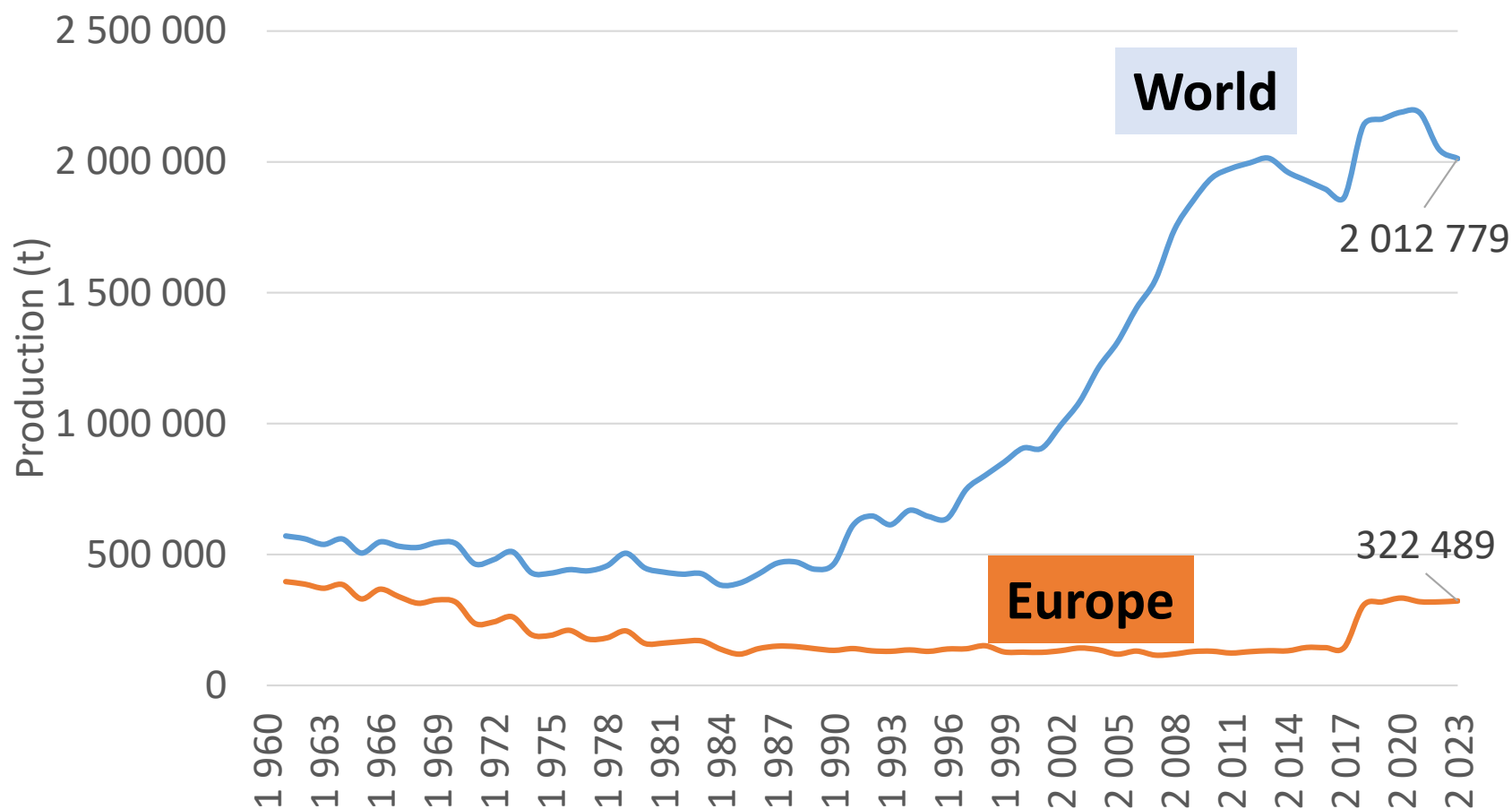
Country	Production (t)	Production (%)
Líbano	470	0,03%
Irão	2400	0,14%
Síria	1400	0,08%
Azerbaijan	668	0,04%
China	1650143	91,3%
Democratic People's Republic of Korea	12619	0,70%
Republic of Korea	53579	2,96%
Türkiye	74236	4,11%
Japan	13160	0,76%
Total	1807154	100%

Chestnut in the World – Europe



Chestnut in the World – Europe

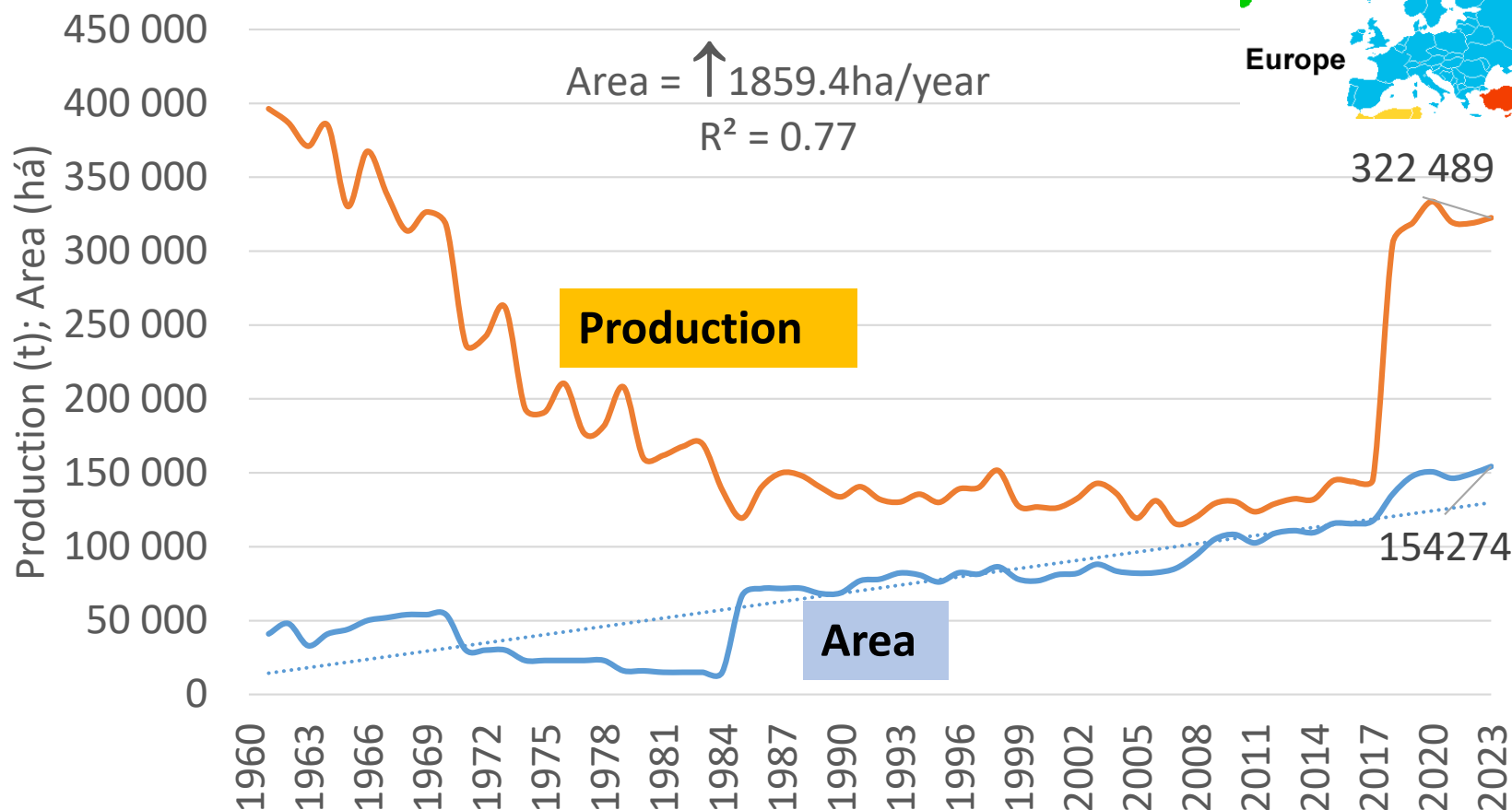
Global Production



Europe's production represents 15.3 % of the world production

Chestnut in the World – Europe

Production



Chestnut in the World – Europe

Europe



Production (average 2017-2022)

Nº	Country	Production (t)	(%)
1	Spain	174 047	52,97
2	Italy	47 344	14,41
3	Greece	34 874	10,61
4	Portugal	33 337	10,15
5	France	9 171	2,79
6	Georgia	8 000	2,43
7	Albania	6 026	1,83
8	Croatia	4 268	1,30
9	Switzerland	4 186	1,27
10	Bosnia and Herzegovina	1 693	0,52
11	Germany	1 500	0,46
12	North Macedonia	1 267	0,39

Nº	Country	Production (t)	(%)
13	Serbia	443	0,13
14	Romania	412	0,13
15	Poland	400	0,12
16	Austria	372	0,11
17	Hungria	254	0,08
18	Ukraine	225	0,07
19	Bulgaria	220	0,07
20	Slovenia	189	0,06
21	Belgium	100	0,03
22	England	100	0,03
23	Chequia	60	0,02
24	Latvia	50	0,02
25	Slovakia	14	0,00
	Europe	328 551	100,00

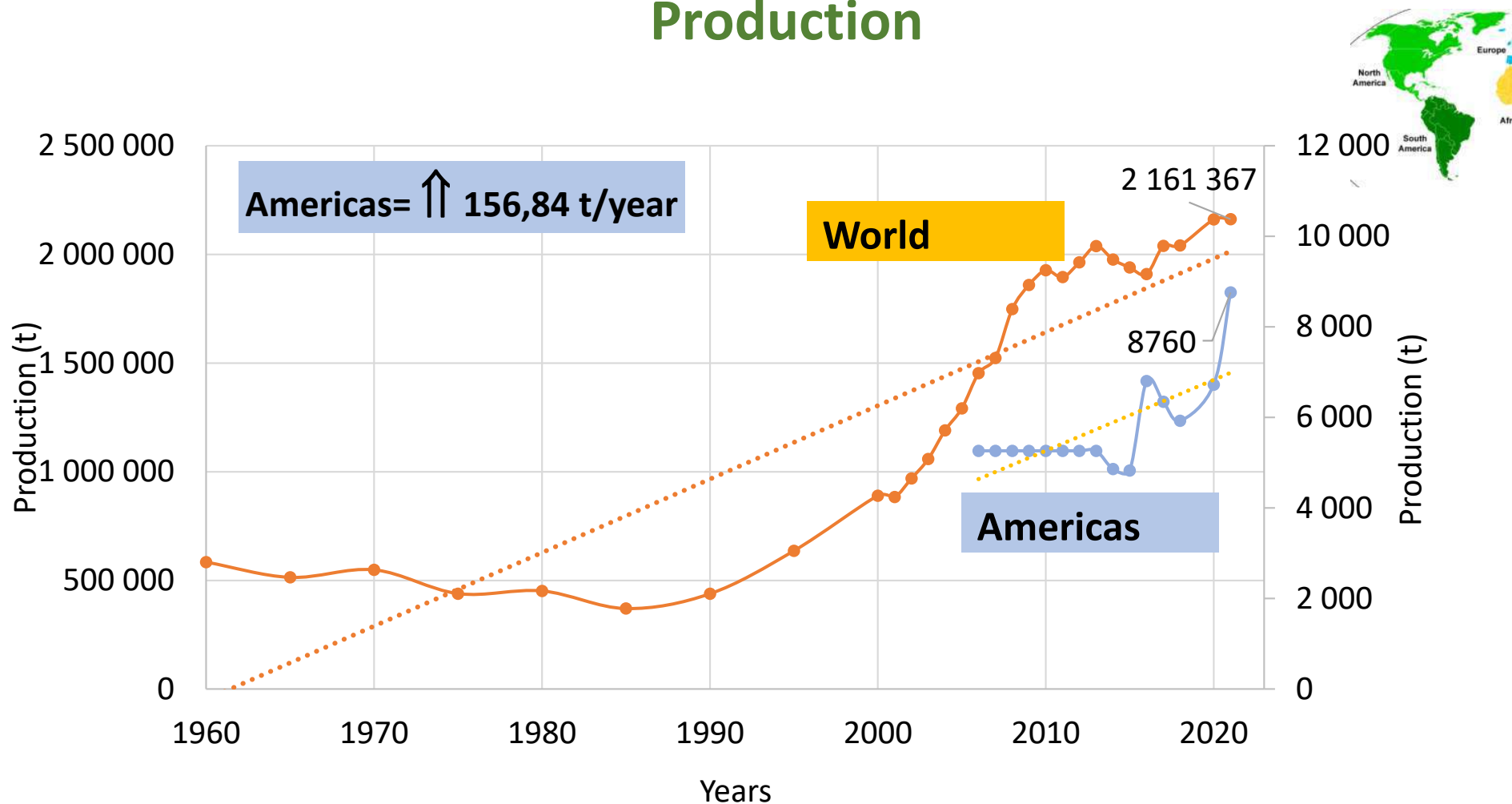
Eurocastanea represents 90 % of the European production

Chestnut in the World – Americas (North|South)



Chestnut in the World – Americas (North|South)

Production



America's production represents 0,5 % of the world production

Chestnut in the World – Americas (North|South)

Production (2018-2023) – List of countries



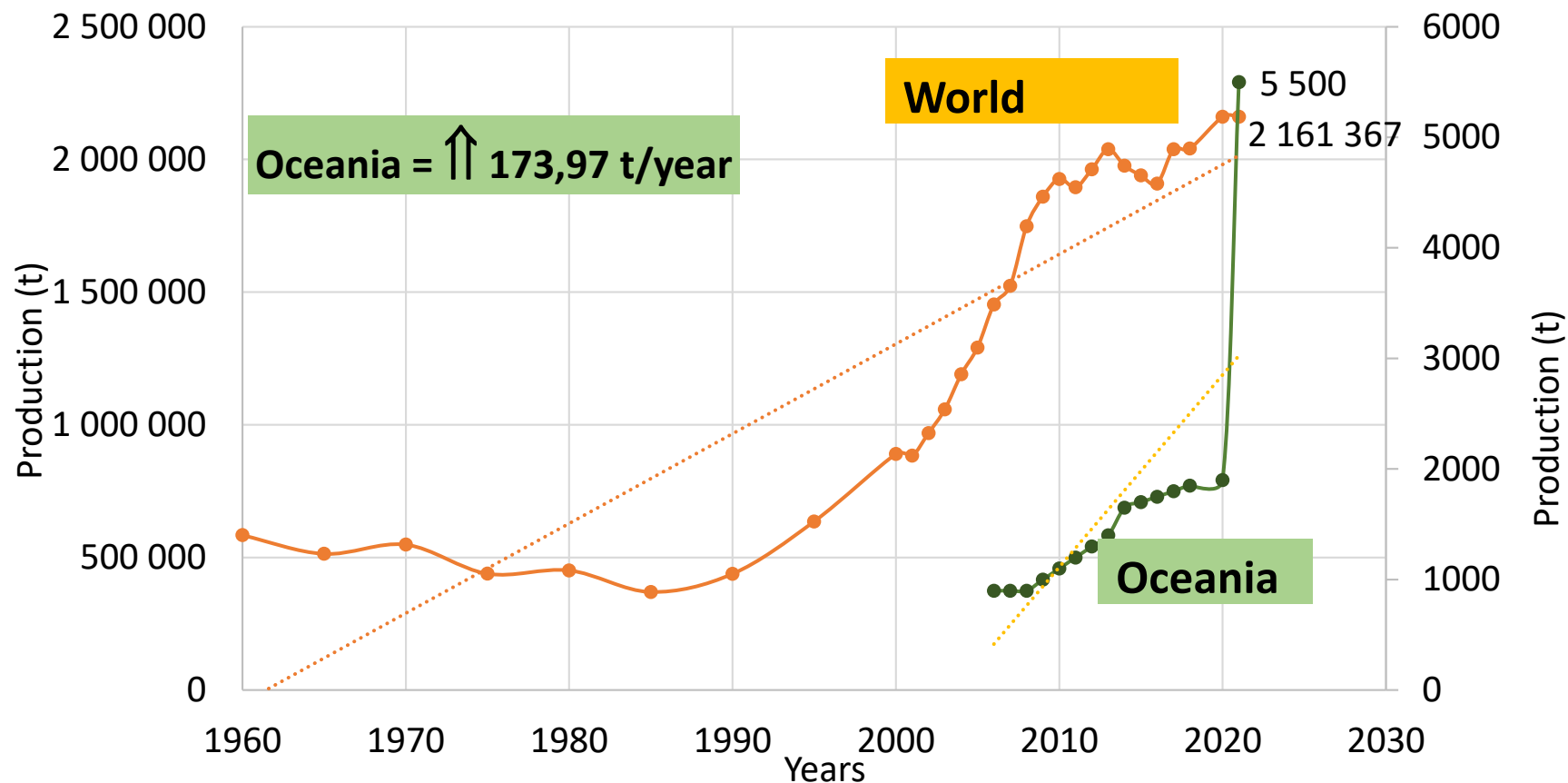
Country	Production (t)	Production (%)
Argentina	160	1,6
Brazil	400	3,9
Chile	3 448	33,9
Canadá	500	4,9
Trinidad and Tobago	100	1,0
USA	3 200	31,5
América	7 808	100

Chestnut in the World – Oceania



Chestnut in the World – Oceania

Production



Oceania's production represents 0,3 % of the world production

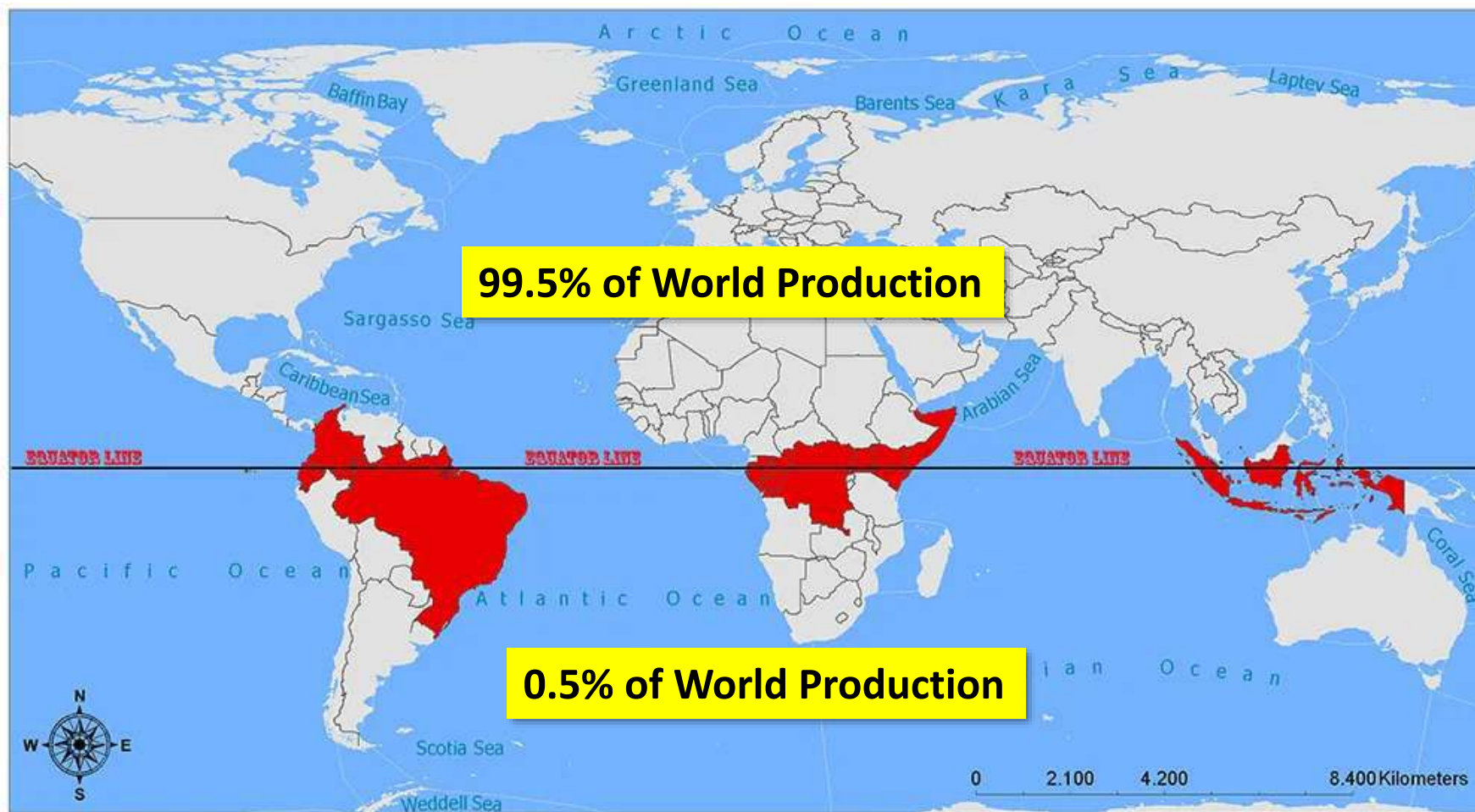
Chestnut in the World – Oceania

Production (2017-2022) – List of countries

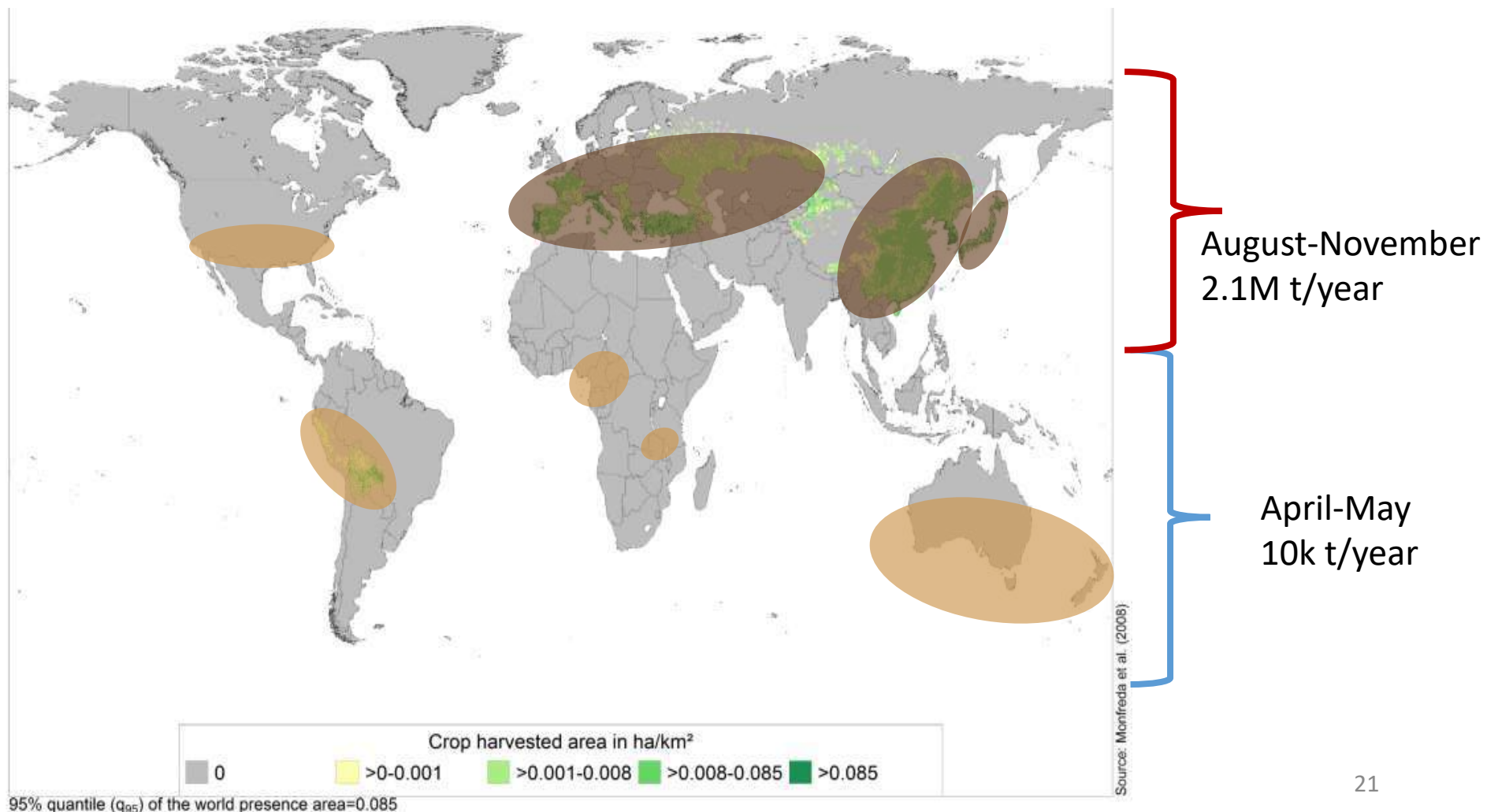


Country	Production (t)	Production (%)
Australia*	2500	45
New Zealand*	350	55
Oceania	2850	100

Chestnut in the World – Production Hemisphere (%)



Chestnut in the World – Production Hemisphere (%)



Chestnut in the World – By Species

Production (2017-2022) vs species

Species	Production (t)	Production (%)
<i>C. sativa</i>	381 574	17,7
<i>C. mollissima</i>	1 650 143	76,7
<i>C. crenata</i>	79 358	3,7
Hybrids	39 901	1,9
total	2 150 976	100,0

Chestnut in the World – Phenology

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Greece												
Portugal												
Turkey												
South Korea												
Italy												
Slovakia												
Spain												
France												
China												
Japan												
Georgia												
Chile												
Australia												
New Zealand												

Bud burst

Pollination

Nut growth

Nut fall

Trade and tradeflows

Chestnut in the World – Price

By country

Country	Price (USD/kg)
Japan	3,76 €
Greece	2,26 €
Portugal	1,97 €
Turkiye	2,35 €
Hungary	0,94 €
Albania	0,94 €
Azerbaijan	2,33 €
China	1,44 €
Spain	1,67 €
Georgia	1,67 €
Italy	4,95 €
Australia	2,12 €
USA	3,90 €
Slovakia	6,91 €
Chile	1,49 €
weighted average	1,63 €

Chestnut in the World – Amount (\$)

Production

País/Região	Volume (t)	Volume (%)	Amount (€)
Europe	328 551	15,29	535 537 928
America	7 808	0,36	12 726 388
Asia	1 808 674	84,19	2 948 138 923
Australia and Oceania	2 850	0,13	4 645 500
Africa	443	0,02	722 090
World	2 148 326	100,00	3 501 770 829

€ 3.5 billion

1€ = 1.17 USD

USD 4.1 billion

Chestnut in the World – Amount (\$) Production



Chestnut Market Size, Share, and Trends by Species Type, Distribution, Region, and Forecast 2025-2033

*Transforming
Ideas into Impact*

*“The global chestnut market size was valued at **USD 3.8 Billion** in 2024. Looking forward, IMARC Group estimates the market to reach **USD 5.0 Billion** by 2033, exhibiting a **CAGR of 3.1% during 2025-2033**. **Asia Pacific** currently dominates the market, holding a significant market share of around 39% in 2024”*

*The chestnut market is **driven by its culinary versatility**, expanding global trade, and a shift towards sustainable and **organic farming practices**, catering to health-conscious consumers and environmentally aware markets, promoting global chestnut demand and production.*

<https://www.imarcgroup.com/chestnut-market>

Chestnut in the World – Amount (\$) Production



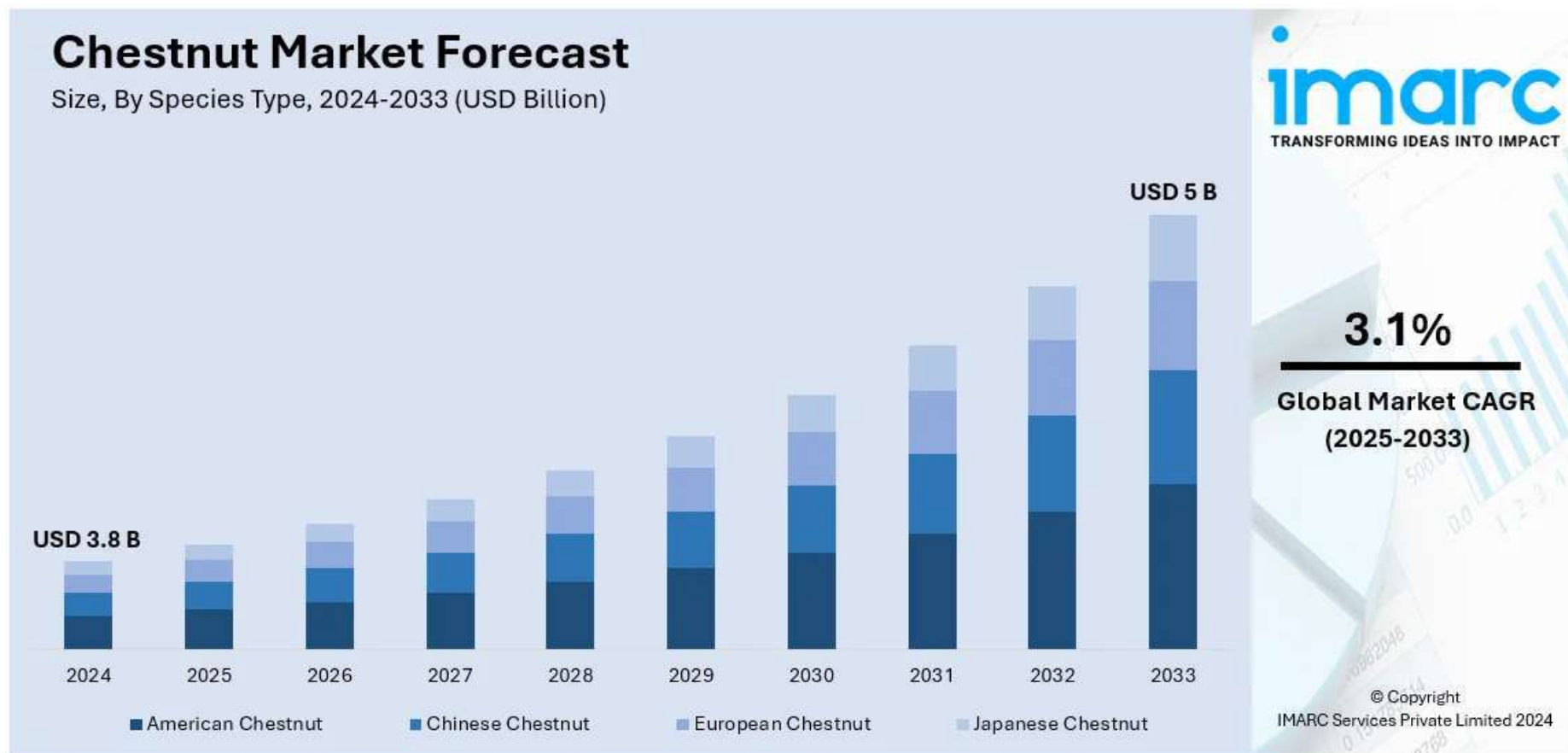
Chestnut Market size is estimated to reach \$4.9 billion by 2030, growing at a CAGR of 3.7% over the forecast period of 2024-2030.

<https://www.industryarc.com/Report/17804/chestnut-market.html>

Chestnut in the World – Amount (\$)

Production

Chestnut Market Size, Share, and Trends by Species Type, Distribution, Region, and Forecast 2025-2033



<https://www.imarcgroup.com/chestnut-market>

Chestnut in the World – Trade export vs import

Chestnuts, in shell fresh or dried

2023

Export:

Quantity - 114 539 t

Value – 290 105€

Quotation – 2,55 €/kg

Import:

Quantity – 112 175 t

Value – 273 625€

Quotation – 2.44€/kg

Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Export and trade flows

2023

Export:

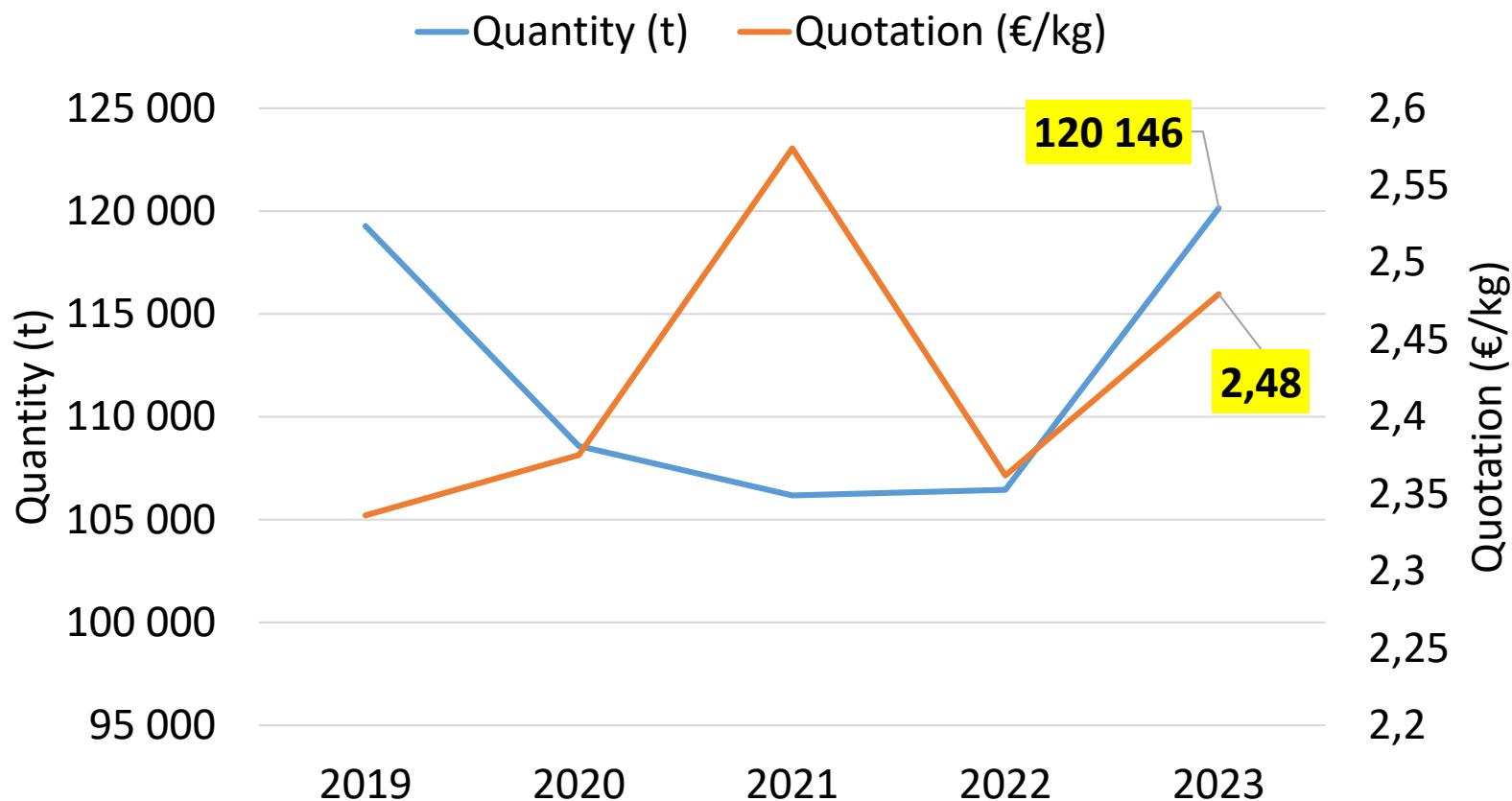
Quantity - 114 539 t

Value – 290 105€

Quotation – 2,55 €/kg

Chestnut in the World – Trade – EXPORT

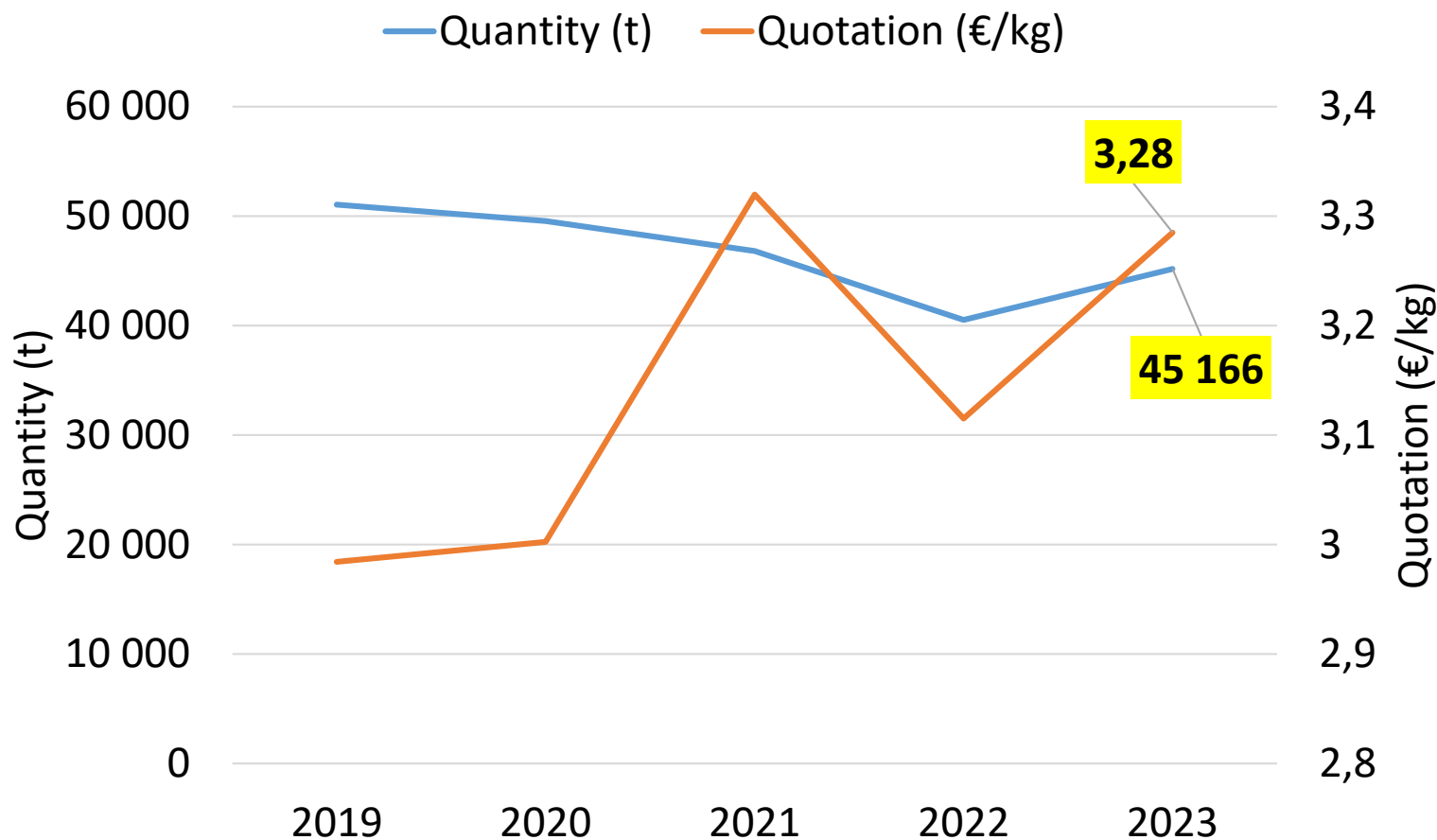
World (2019-2023)



Fonte: <https://www.fao.org/faostat/en/#data/TCL>

Chestnut in the World – Trade – EXPORT

Europe



Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Export 2023

Top 15 Main exporters (Chestnuts. in Shell)

Rank	Country	Value (t)	Value (€)	Amount (%)	Quotation (€/kg)
1	China, mainland	52176	82846	28,4	1,59
2	Italy	13053	60749	20,8	4,65
3	Portugal	11636	24745	8,5	2,13
4	Spain	8244	24979	8,6	3,03
5	Republic of Korea	7453	27820	9,5	3,73
6	Türkiye	6492	23183	7,9	3,57
7	France	4124	17170	5,9	4,16
8	Chile	3917	7111	2,4	1,82
9	Greece	2621	7103	2,4	2,71
10	Albania	1280	1763	0,6	1,38
11	Georgia	752	826	0,3	1,10
12	Japan	721	3410	1,2	4,73
13	North Macedonia	527	598	0,2	1,14
14	Slovenia	473	851	0,3	1,80
15	Austria	386	1987	0,7	5,14
	Other	1964	6725	2,3	4,97
	Total	115821	291868	100	2,55

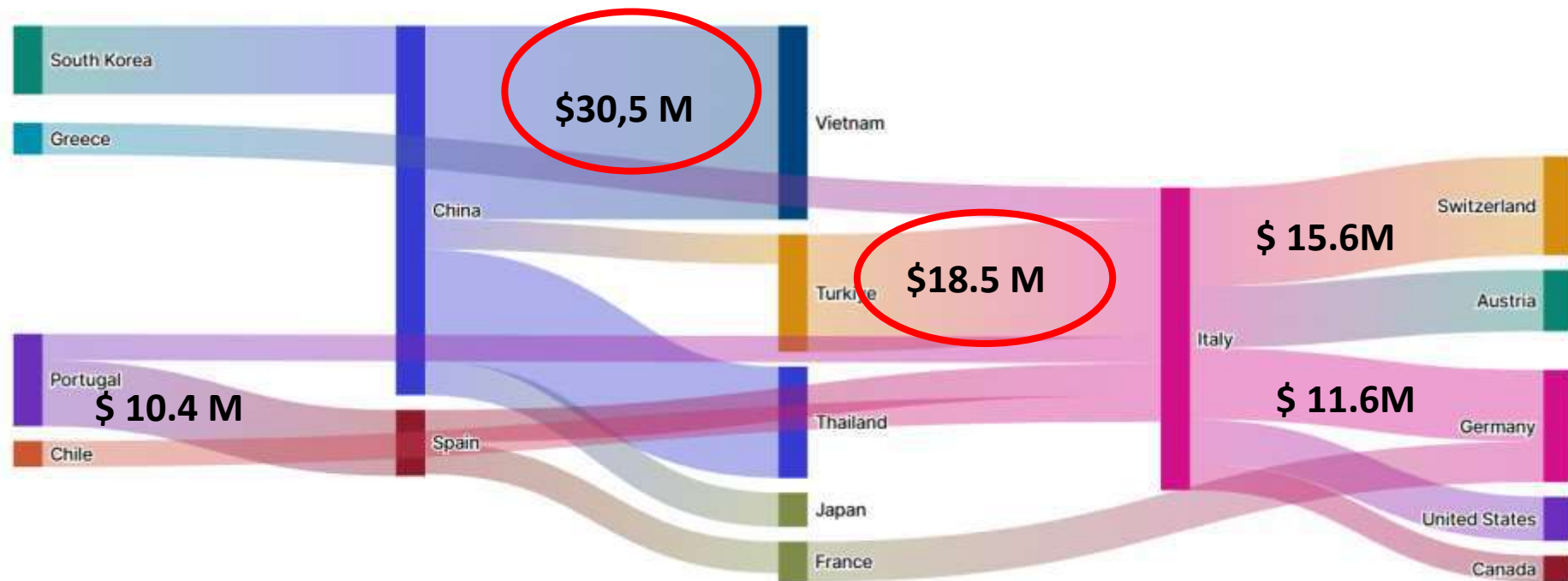
Chestnut in the World – Export 2023



Chestnut in the World – Export 2023

Region	Production (t)	Export (t)	Export (%)
Europe	328 551	45166	13,7
America	7 808	5818	74,5
Asia	1 808 674	69055	3,8
Australia and Oceania	2 850	22	0,8
Africa	443	84	19,0
World	2 148 326	120145	5,6

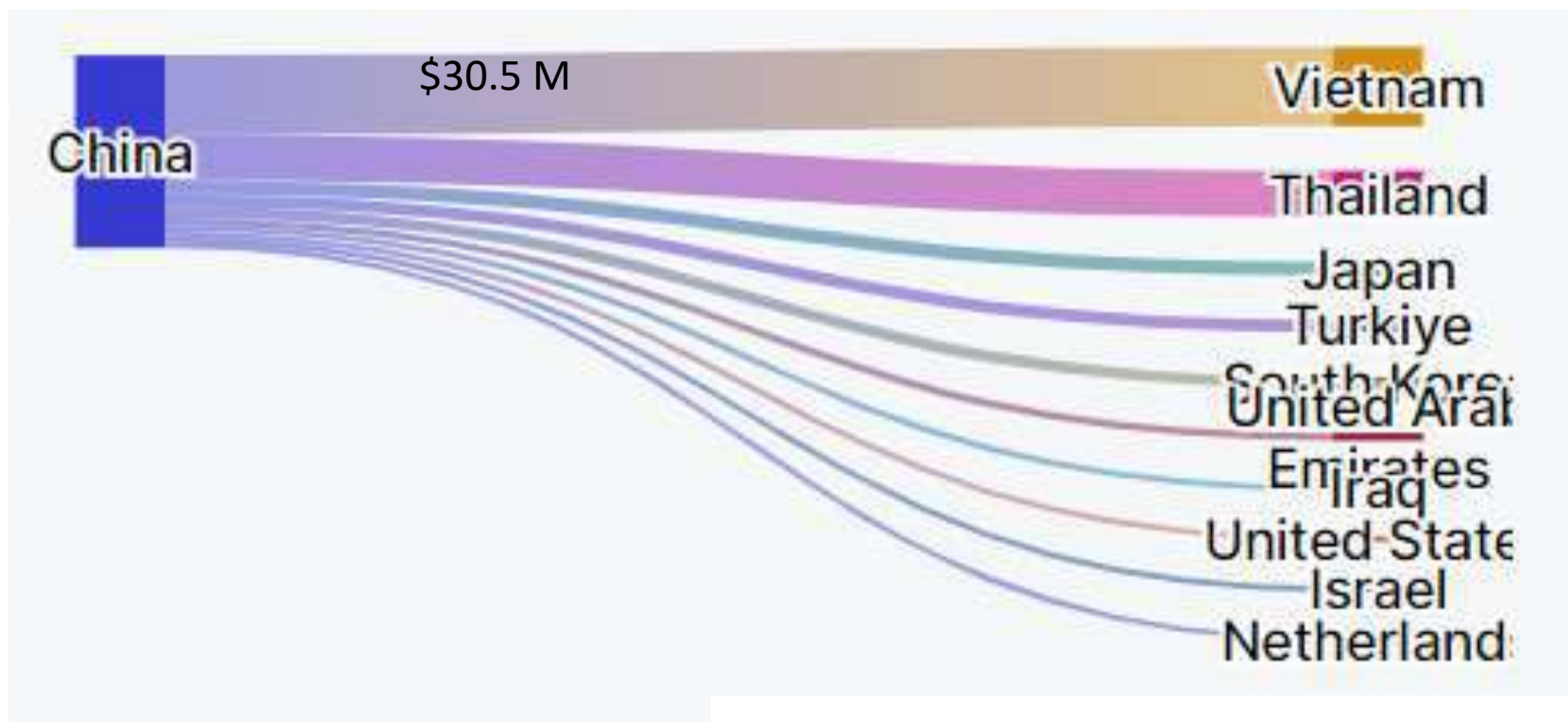
Chestnut in the World – Trade and trade flows 2023



Fonte: <https://www.tridge.com/intelligences/chestnut/export>

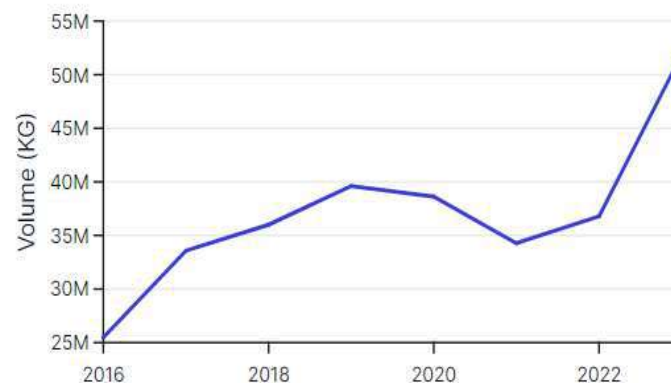
Chestnut in the World – Tradeflow 2023

Export - China



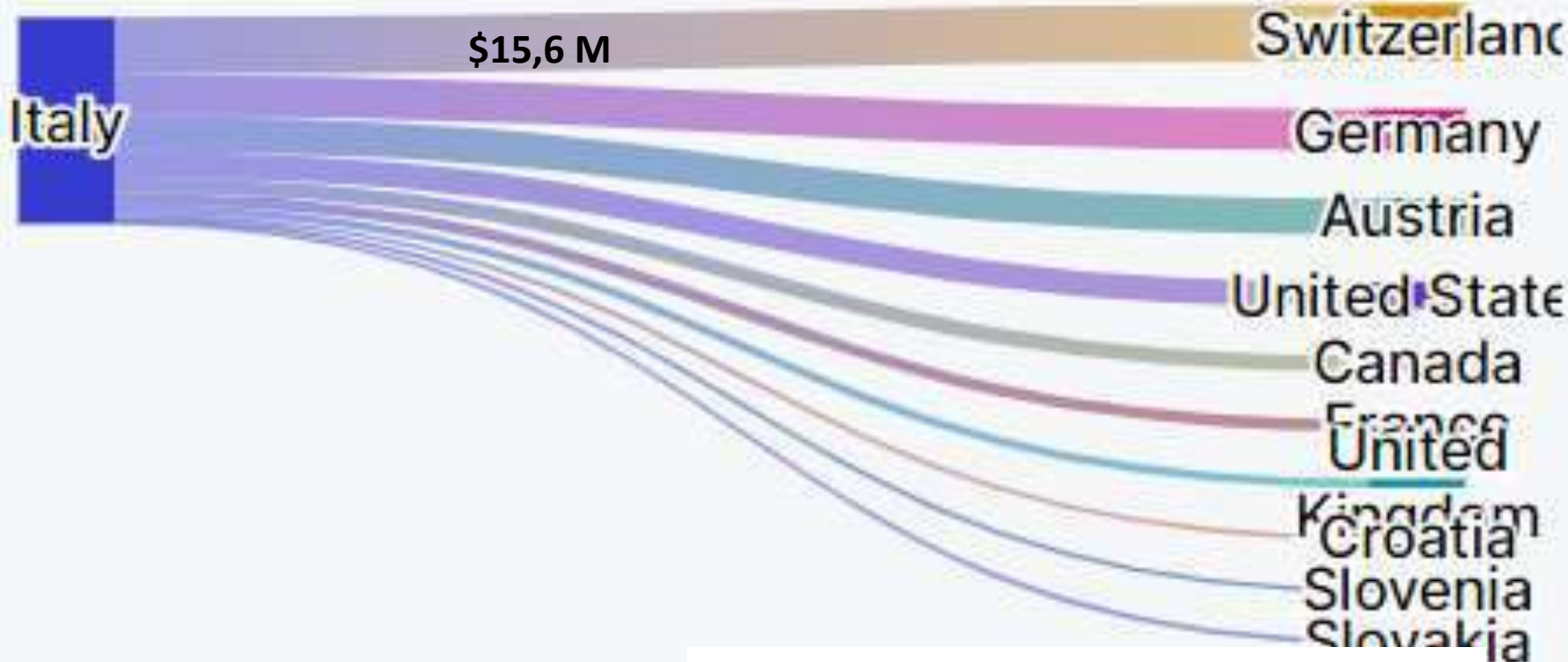
**Total Export Value of
China in 2023
\$96.3 M USD**

51.9M
KG
1Y **+40.95%**
3Y **+34.22%**
5Y **+44.03%**



Chestnut in the World – Trade flows 2023

Export - Italy



**Total Export Value of
Italy in 2023
\$71 M USD**

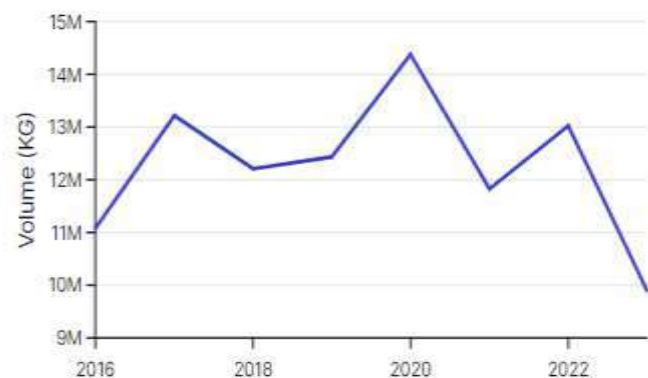
9.9M

KG

1Y -23.98%

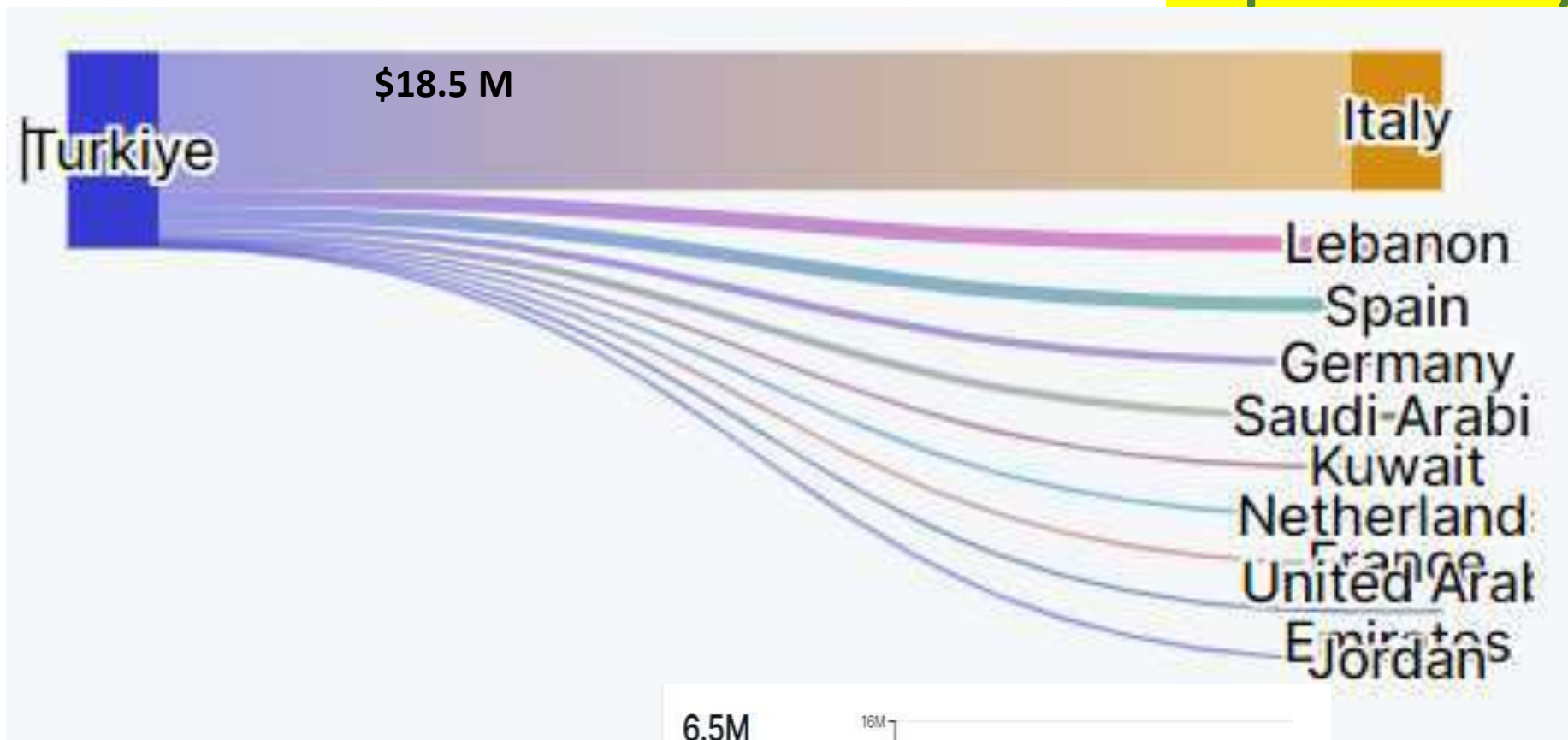
3Y -31.15%

5Y -18.93%



Chestnut in the World – Trade flows 2023

Export - Turkey



**Total Export Value of
Turkey in 2023
\$27,1 M USD**

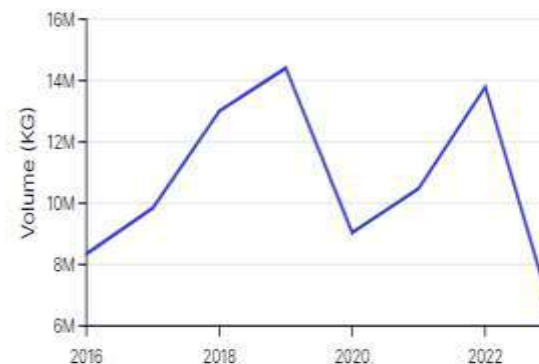
6.5M

KG

1Y -53.00%

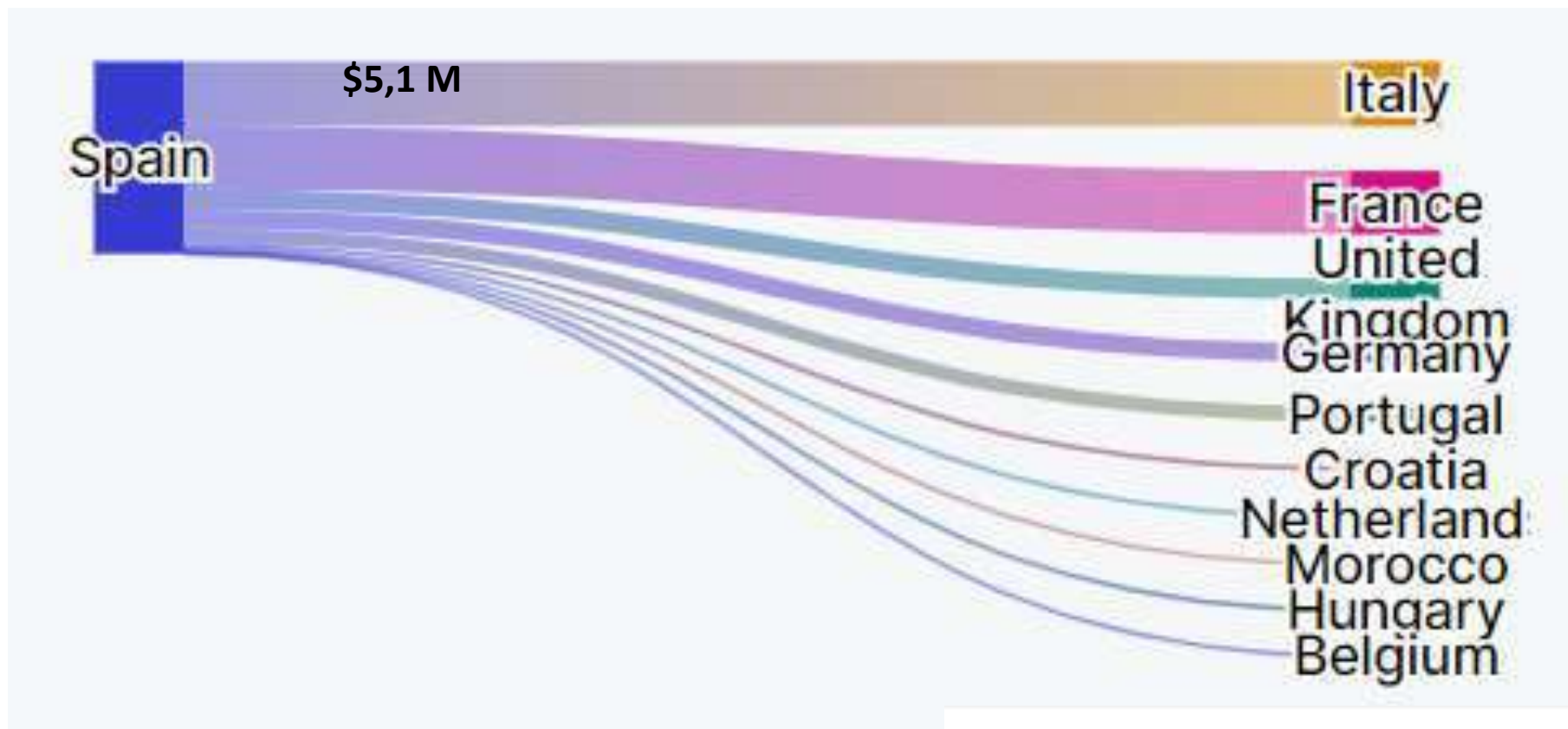
3Y -28.36%

5Y -50.16%



Chestnut in the World – Trade flows 2023

Export - Spain



Total Export Value of
Spain in 2023
\$29,2 M USD

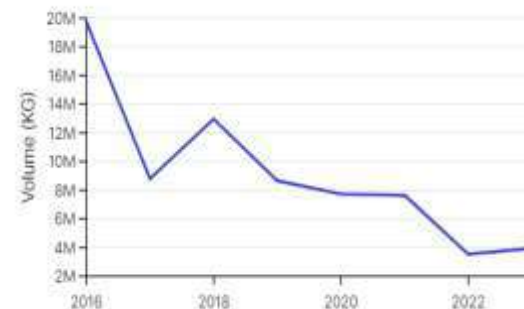
4.0M

KG

1Y +11.38%

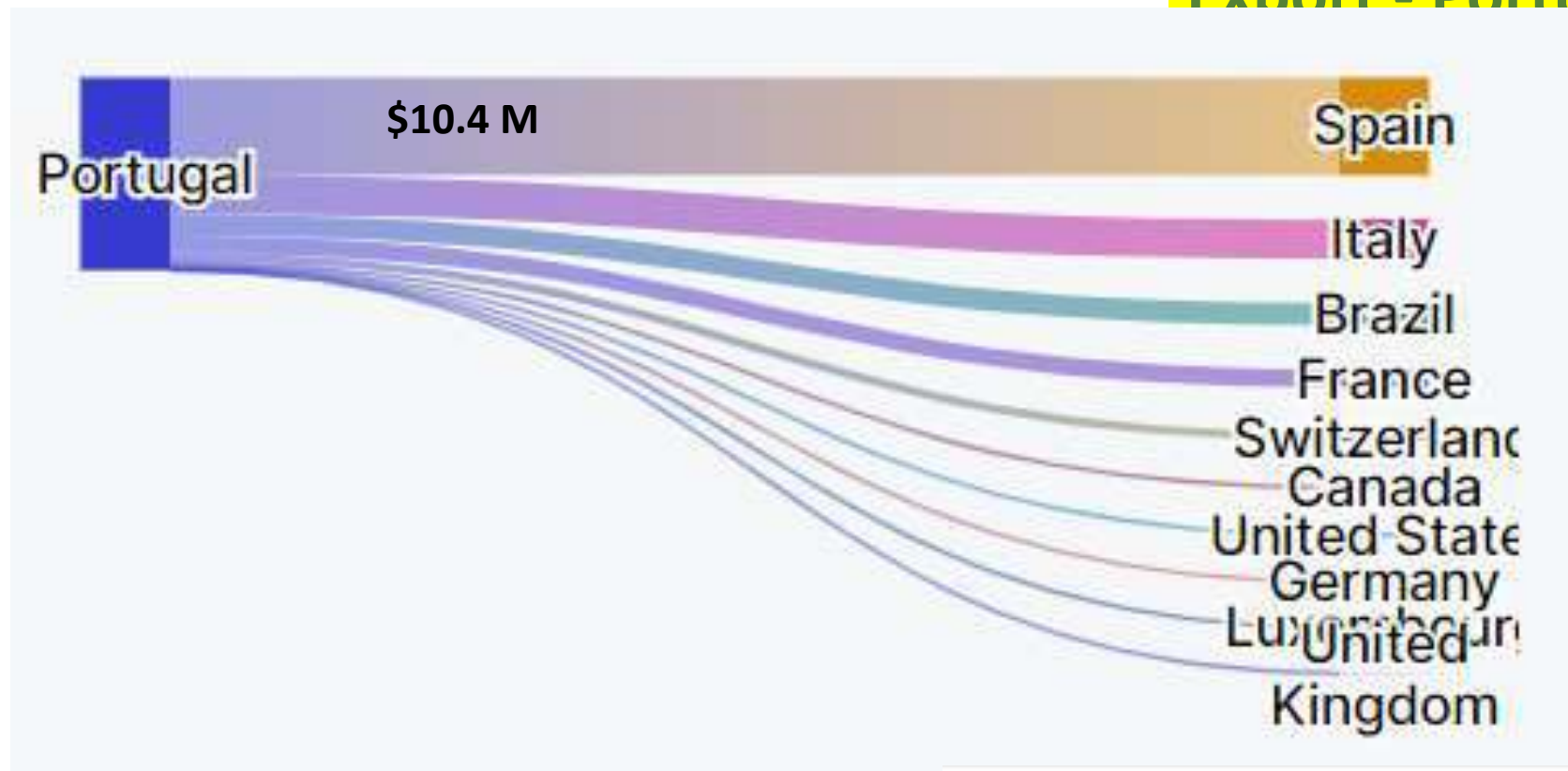
3Y -48.93%

5Y -69.51%



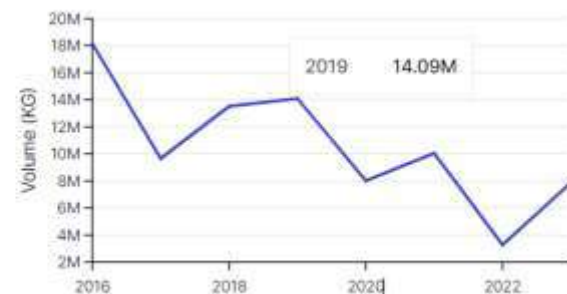
Chestnut in the World – Trade flows 2023

Export - Portugal



**Total Export Value of
Portugal in 2023
\$29.0 M USD**

7.9M
KG
1Y **+140.75%**
3Y **-1.70%**
5Y **-41.72%**



Chestnut in the World – Trade flows 2023

Export - Greece



**Total Export Value of
Greece in 2023
\$8.3 M**

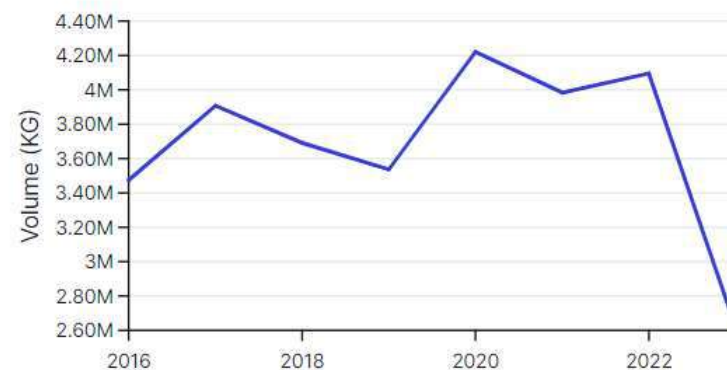
2.6M

KG

1Y **-36.07%**

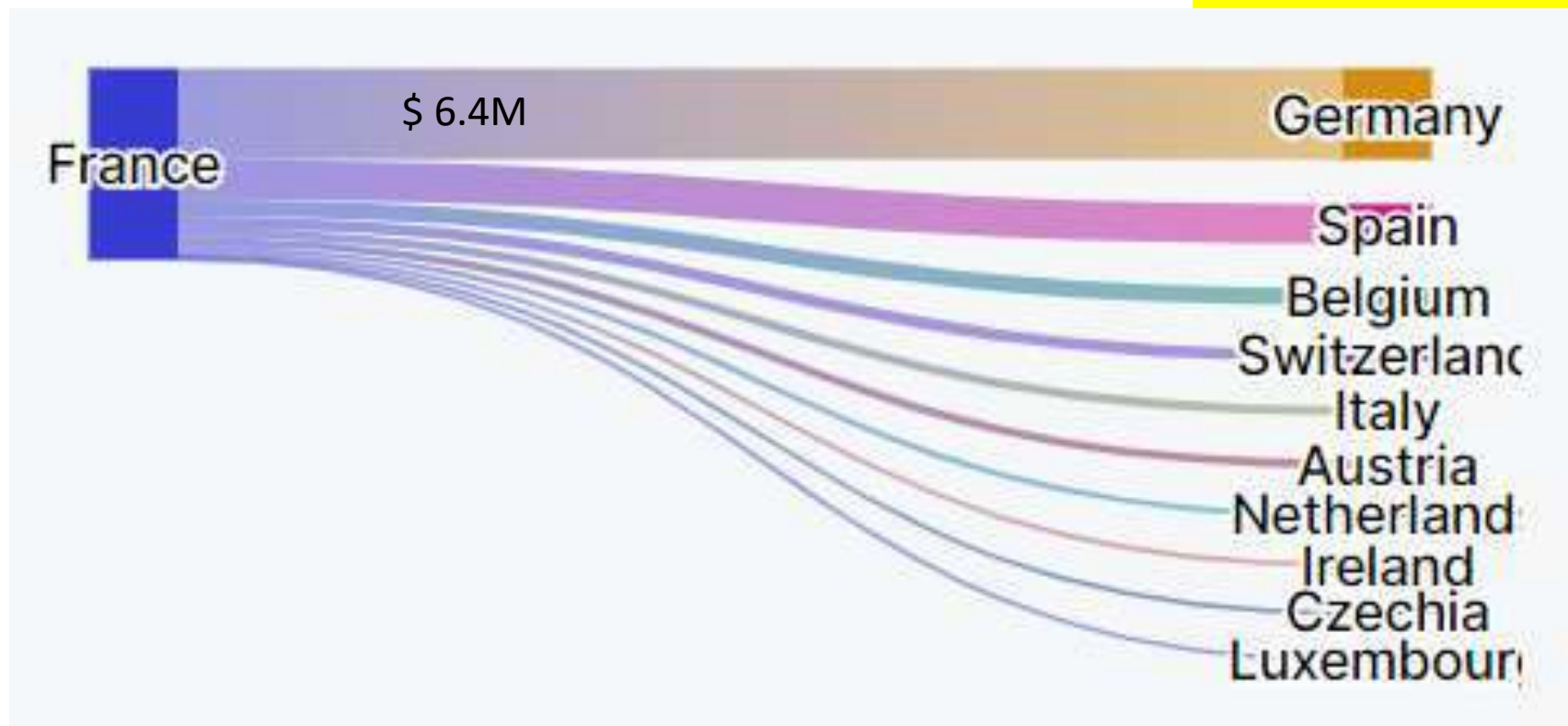
3Y **-37.95%**

5Y **-29.06%**



Chestnut in the World – Trade flows 2023

Export - France



Total Export Value of
France in 2023
\$20,1M USD

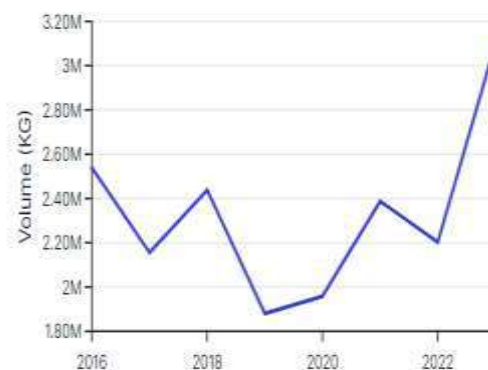
3.1M

KG

1Y +40.61%

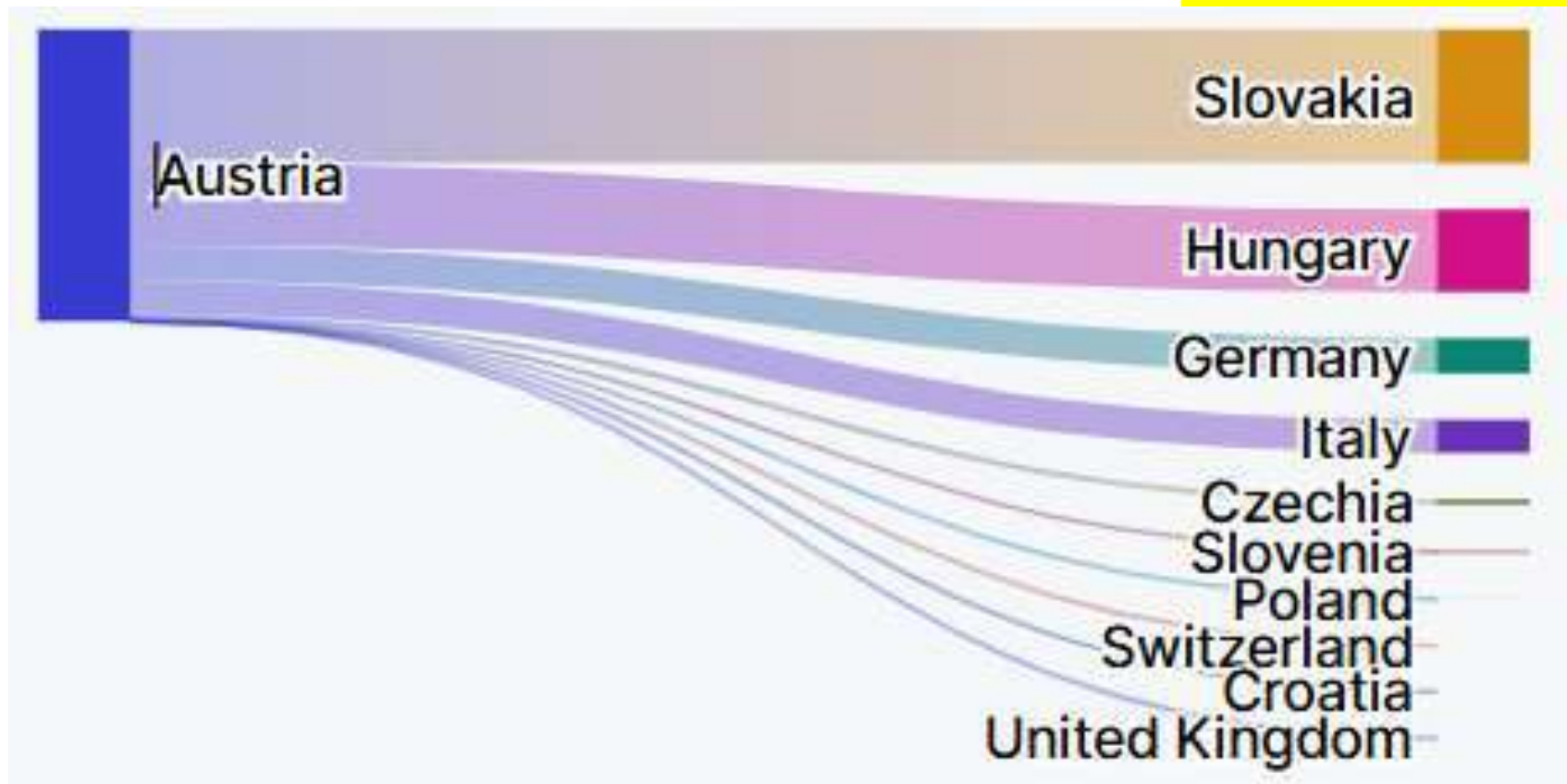
3Y +58.23%

5Y +27.06%



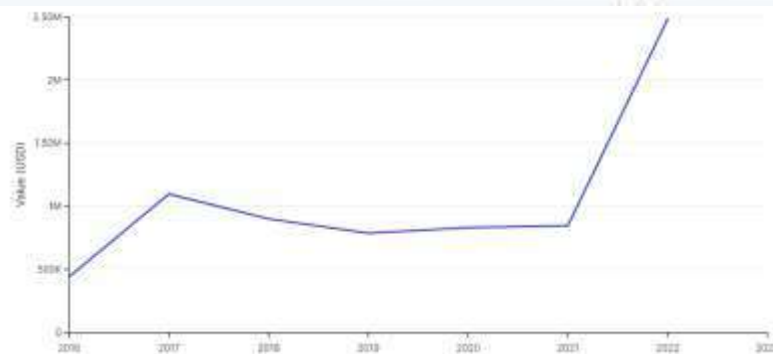
Chestnut in the World – Trade flows 2023

Export - Austria



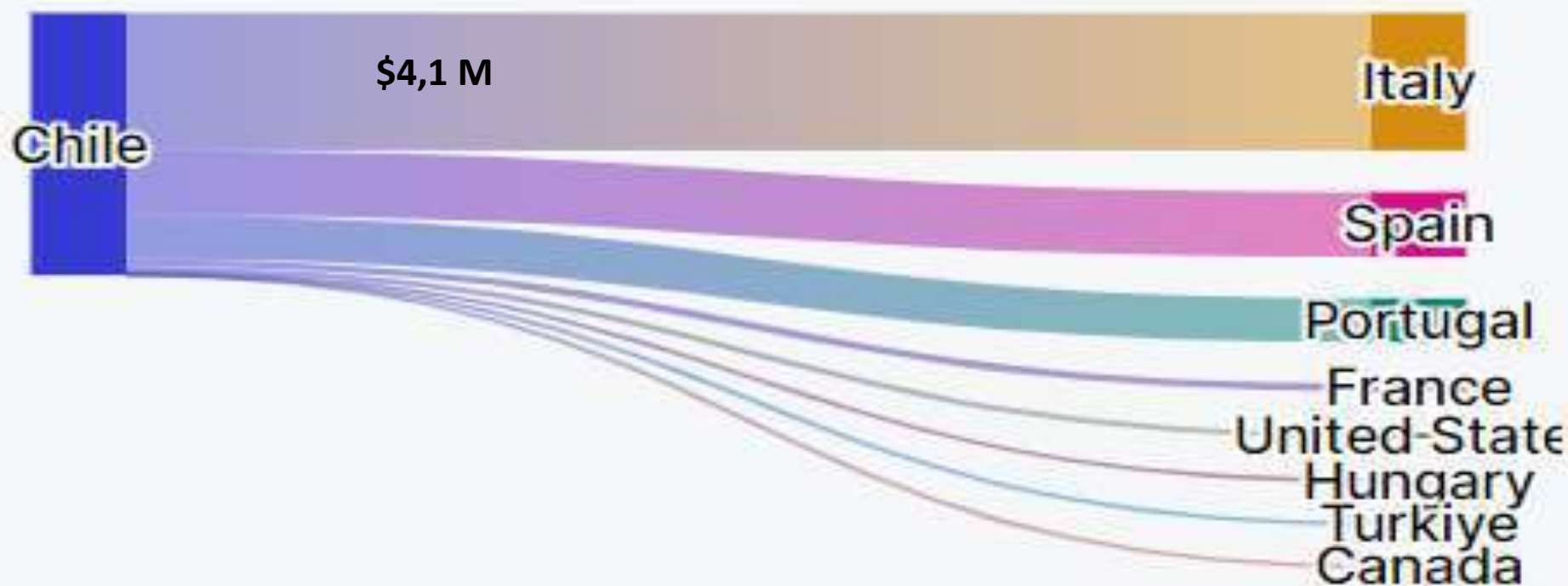
**Total Export Value of
Austria in 2022
\$2.3 M USD**

Fonte: <https://www.tridge.com/intelligences/chestnut/export>



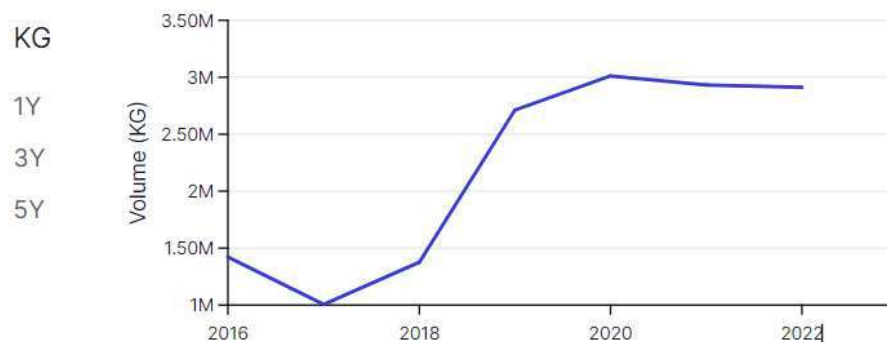
Chestnut in the World – Trade flows 2023

Export - Chile



**Total Export Value of
Chile in 2023
\$8.3 M USD**

Fonte: <https://www.tridge.com/intelligences/chestnut/export>



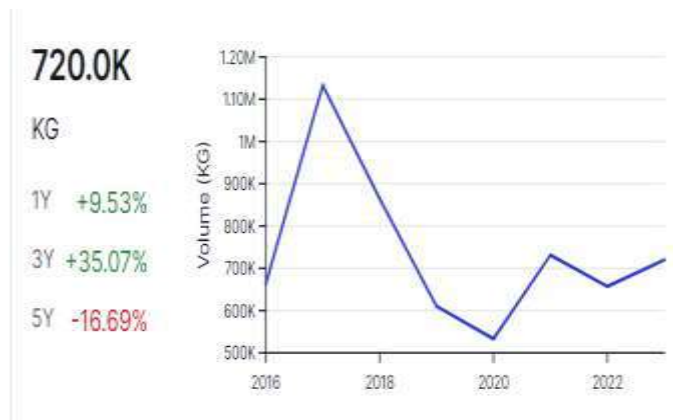
Chestnut in the World – Trade flows 2023

Export - Japan



**Total Export Value of
Japan in 2023
\$4,0 M USD**

Fonte: <https://www.tridge.com/intelligences/chestnut/export>



Chestnut in the World – Trade flows

Production /Export (2019-2023)

Region	production(t)	Export (t)	Export (%)
Europa	328 551	48 481	14,76
North America	3 200	189	5,89
South America	4 008	2 870	71,61
Asia	1 808 674	57 896	3,20
Australia and Oceania	2 850	20	0,72
Africa	443	287	64,87
Mundo	2 143 718	109 743	5,12

Import and trade flows

2023

Import:

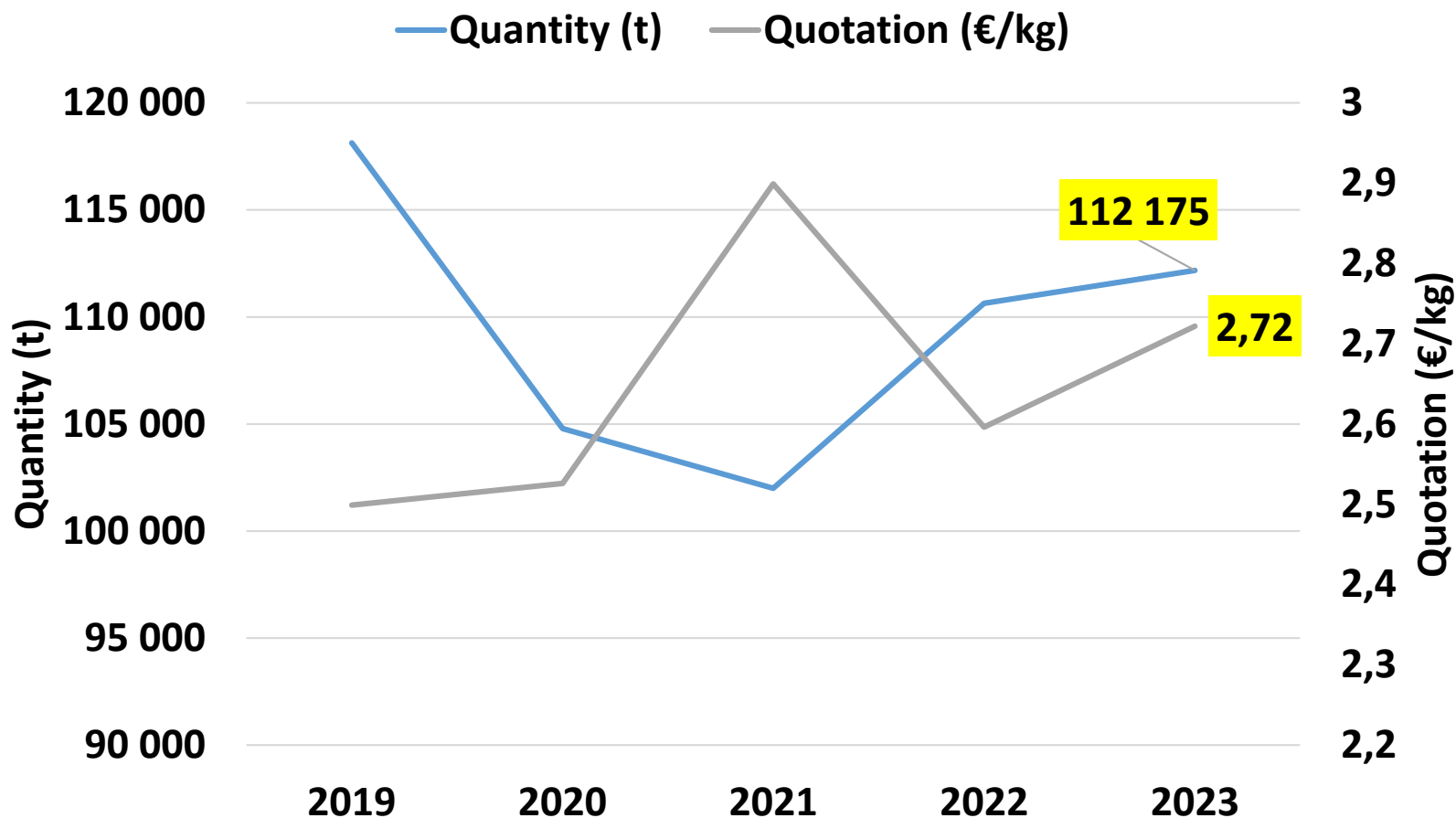
Quantity – 112 175 t

Value – 273 M€

Quotation – 2.72€/kg

Chestnut in the World – Import

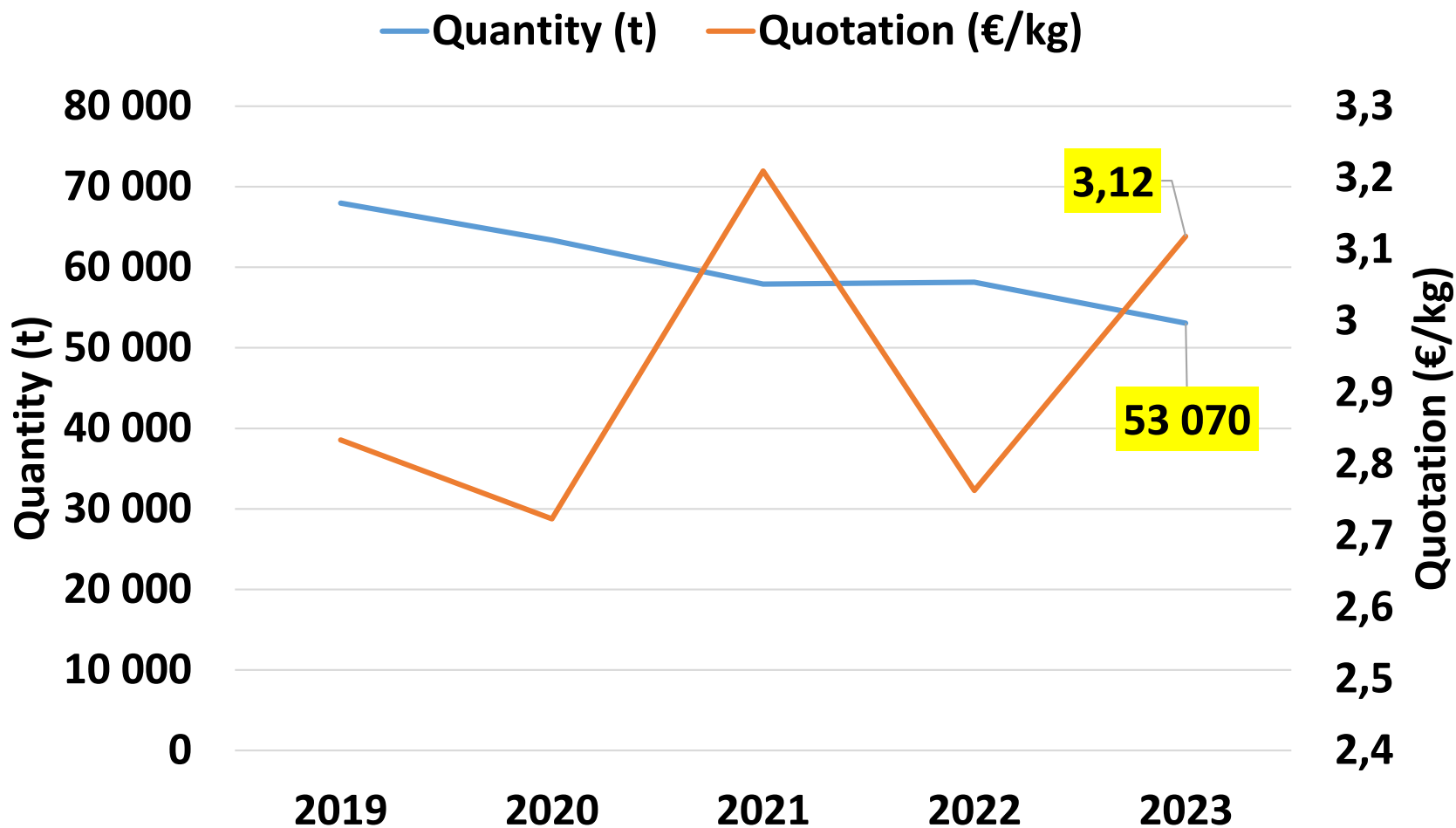
Trend 2019-2023



Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in Europe- Import

Trend 2019-2023



Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Import (2023)

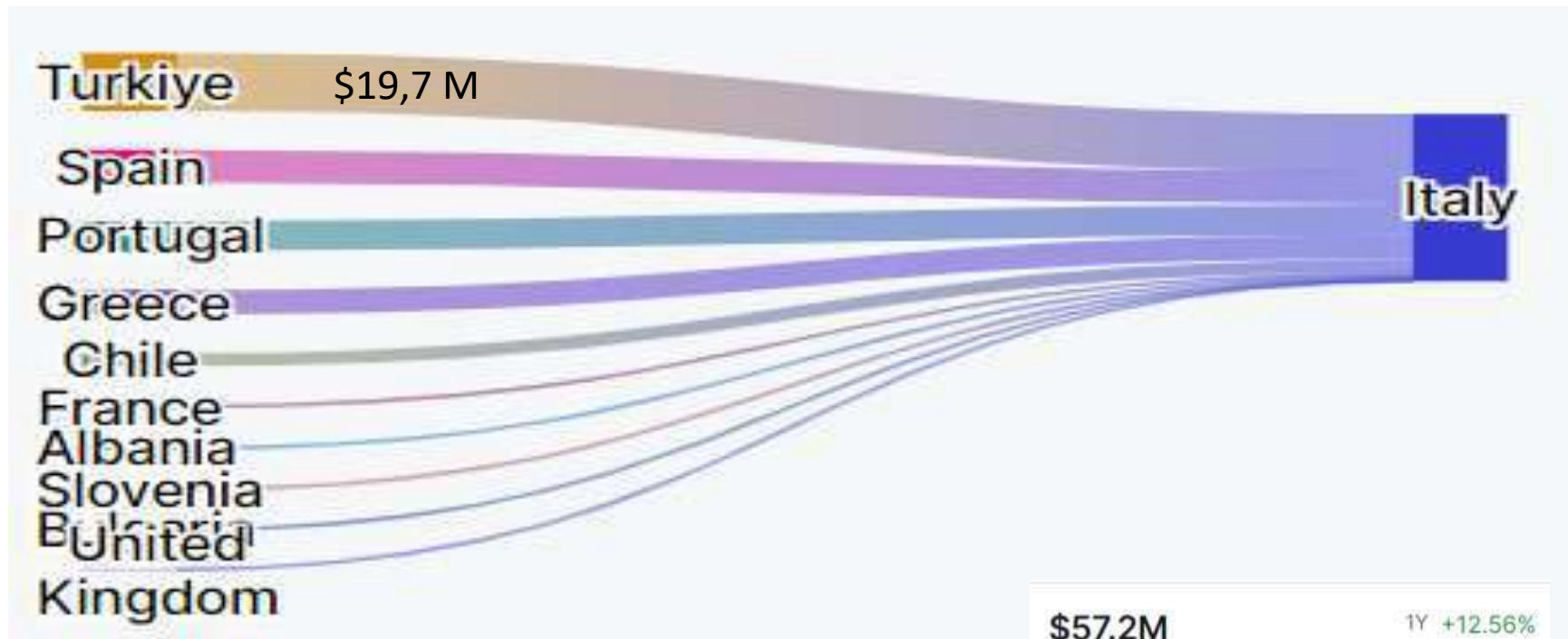
Region	Production (t)	Import (t)	Import (%)
Europe	328 551	53070	16,2
America	7 808	4371	56,0
Asia	1 808 674	54403	3,0
Australia and Oceania	2 850	11	0,4
Africa	443	321	72,5
World	2 148 326	112175	5,2

Chestnut in the World – Import (2023)

Rank	Country	Value (t)	Amount (1000 €)	Amount (%)	Quotation (€/kg)
1	Italy	17 538	50 903	18,60	2,90
2	Viet Nam	14 015	29230	10,68	2,09
3	Thailand	7242	16356	5,98	2,26
4	France	6 204	17 426	6,37	2,81
5	Spain	5 813	13 665	4,99	2,35
6	China, mainland	5155	11060	4,04	2,15
7	Japan	4950	28044	10,25	5,66
8	China, Taiwan Province of	3903	8150	2,98	2,09
9	Germany	3756	18436	6,74	4,91
10	Türkiye	3620	2129	0,78	0,59
11	Portugal	2 943	6 600	2,41	2,24
12	United States of America	2750	11938	4,36	4,34
13	Austria	2 639	14 397	5,26	5,46
14	Republic of Korea	2577	4356	1,59	1,69
15	Switzerland	2533	14 396	5,26	5,68
	Greece	819	1061	0,39	1,30
	Others	25 718	25 476	9,31	2,19
	Total	112176	273 623	100	2,72

Chestnut in the World – Trade flows 2023

Import - Italy



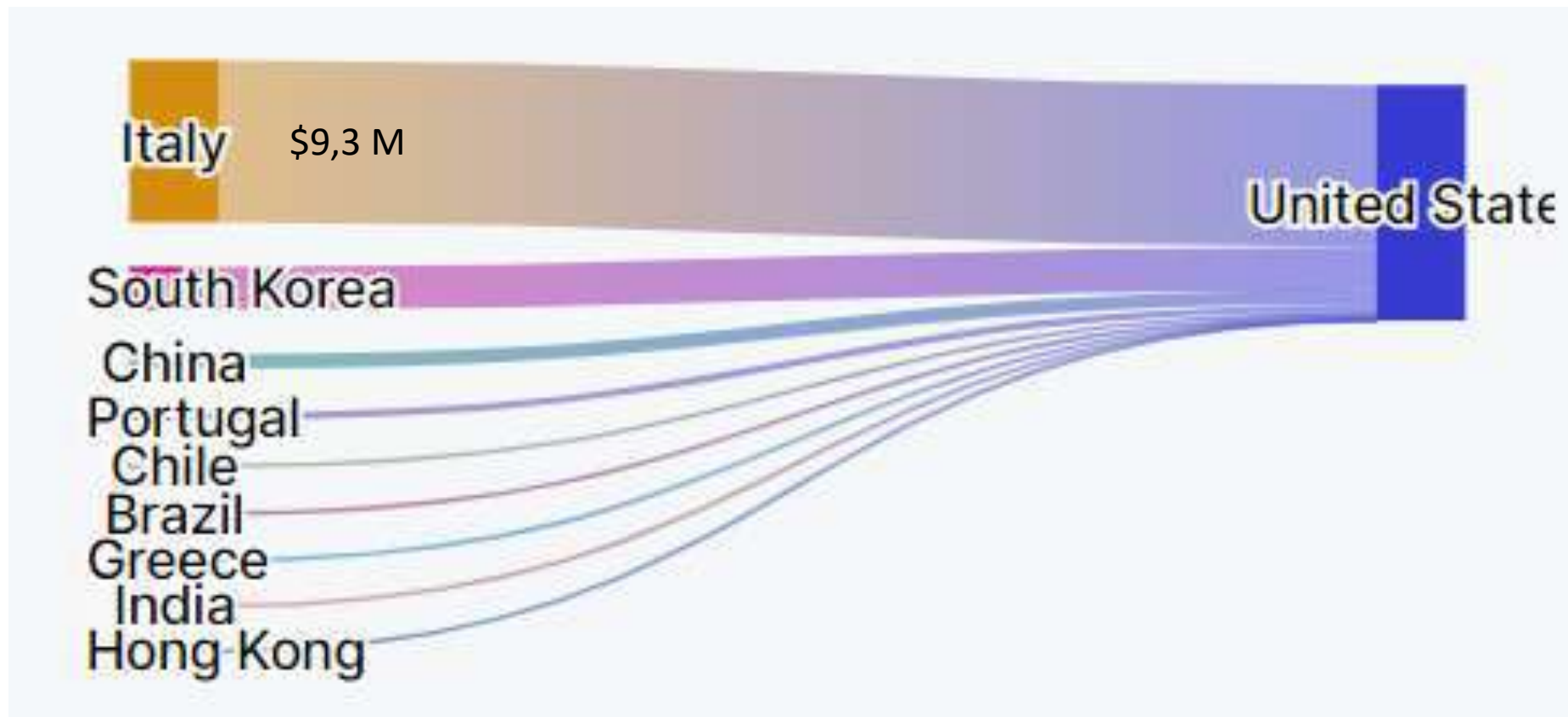
**Total Import Value
of Italy in 2023
\$57,2M**

Fonte: <https://www.tridge.com/intelligences/chestnut/export>



Chestnut in the World – Trade flows 2023

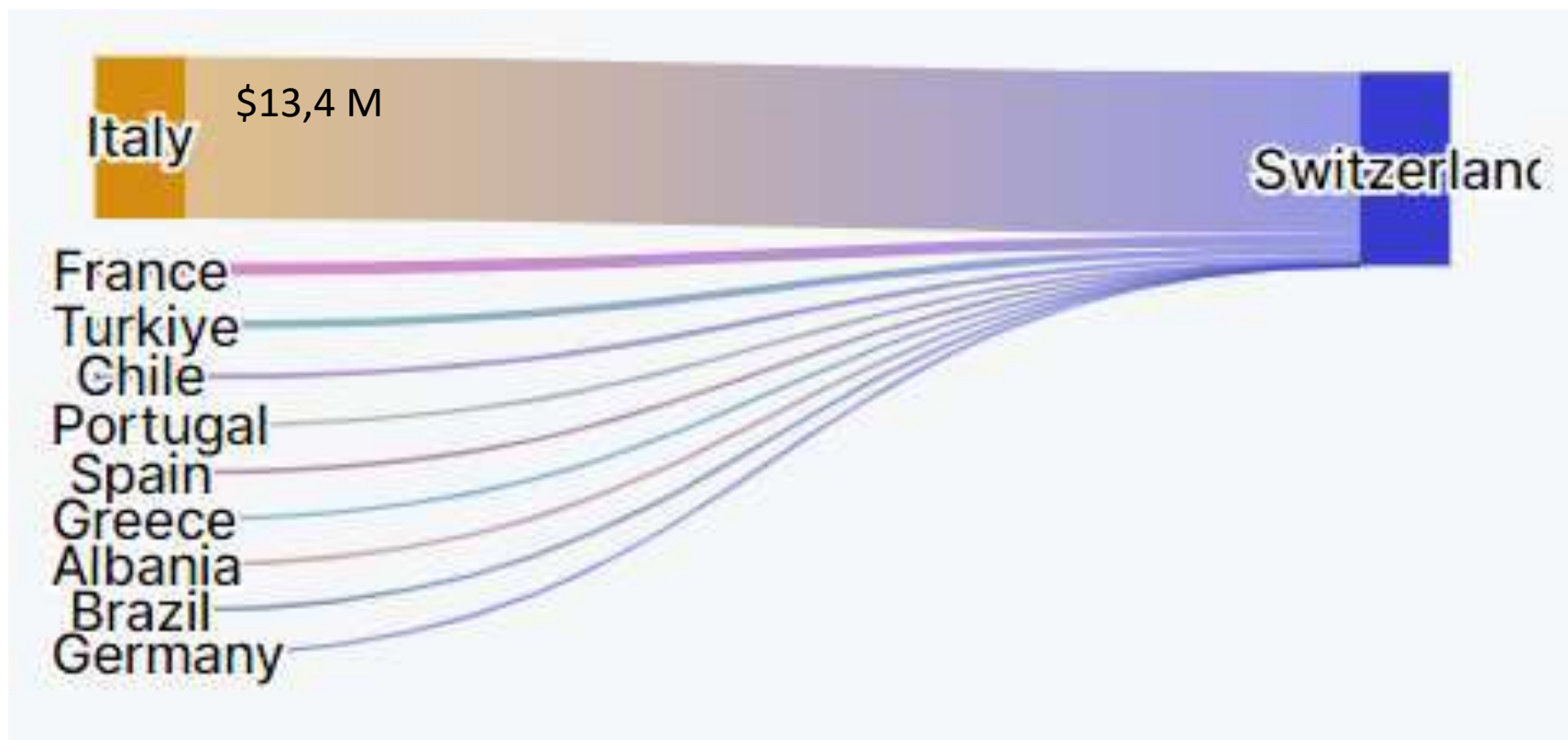
Import - USA



Total Import Value of
USA in 2023
\$13,5M

Chestnut in the World – Trade flows 2023

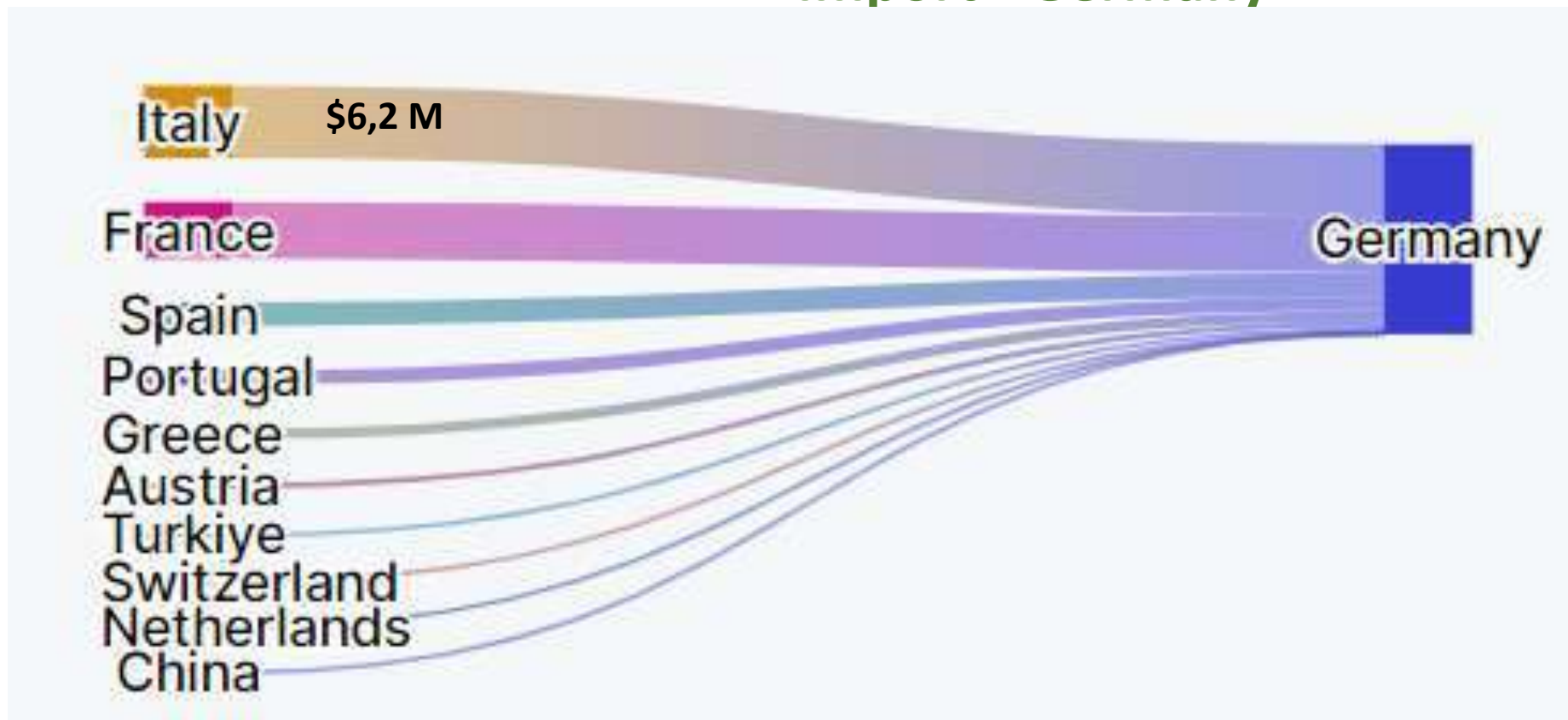
Import - Switzerland



**Total Import Value
of Switzerland in
2021
\$17.0M**

Chestnut in the World – Trade flows 2023

Import - Germany

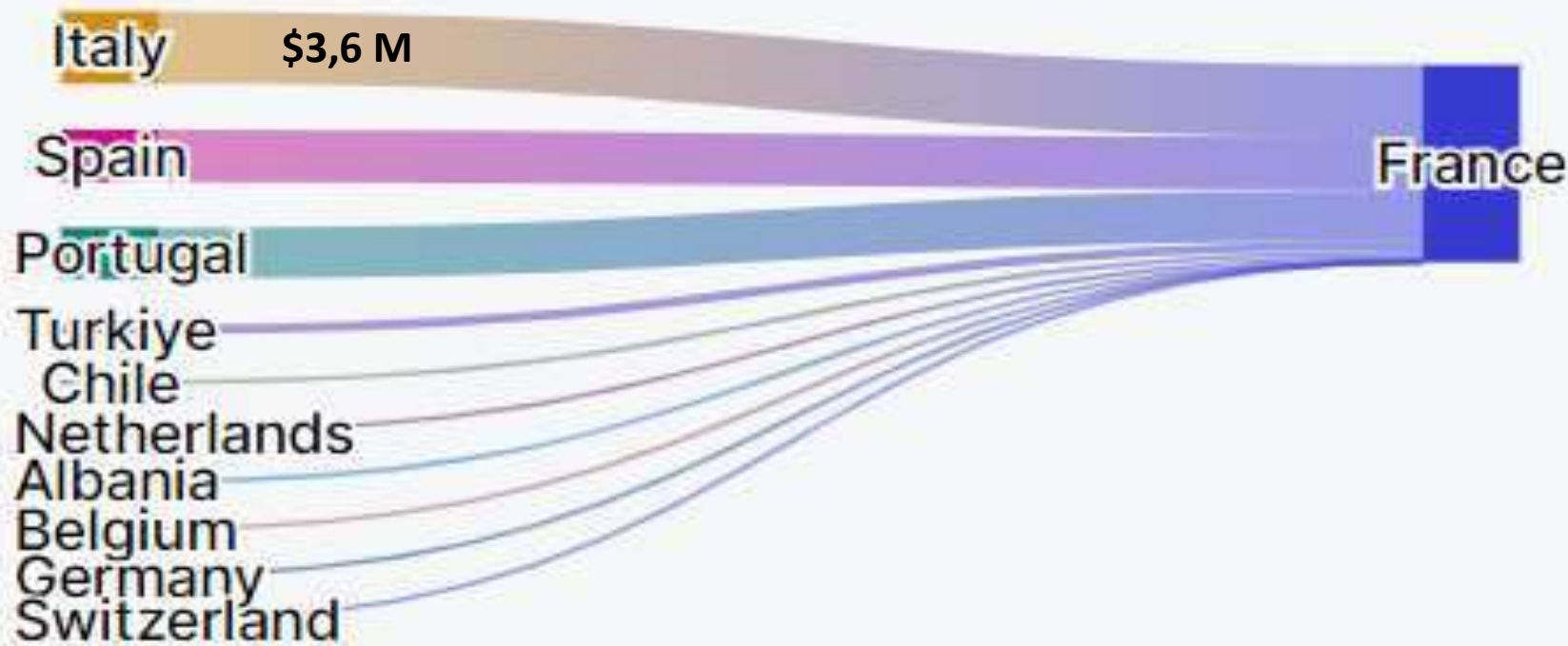


Total Import Value
of Germany in
2023
\$21,5 M USD

Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Trade flows 2023

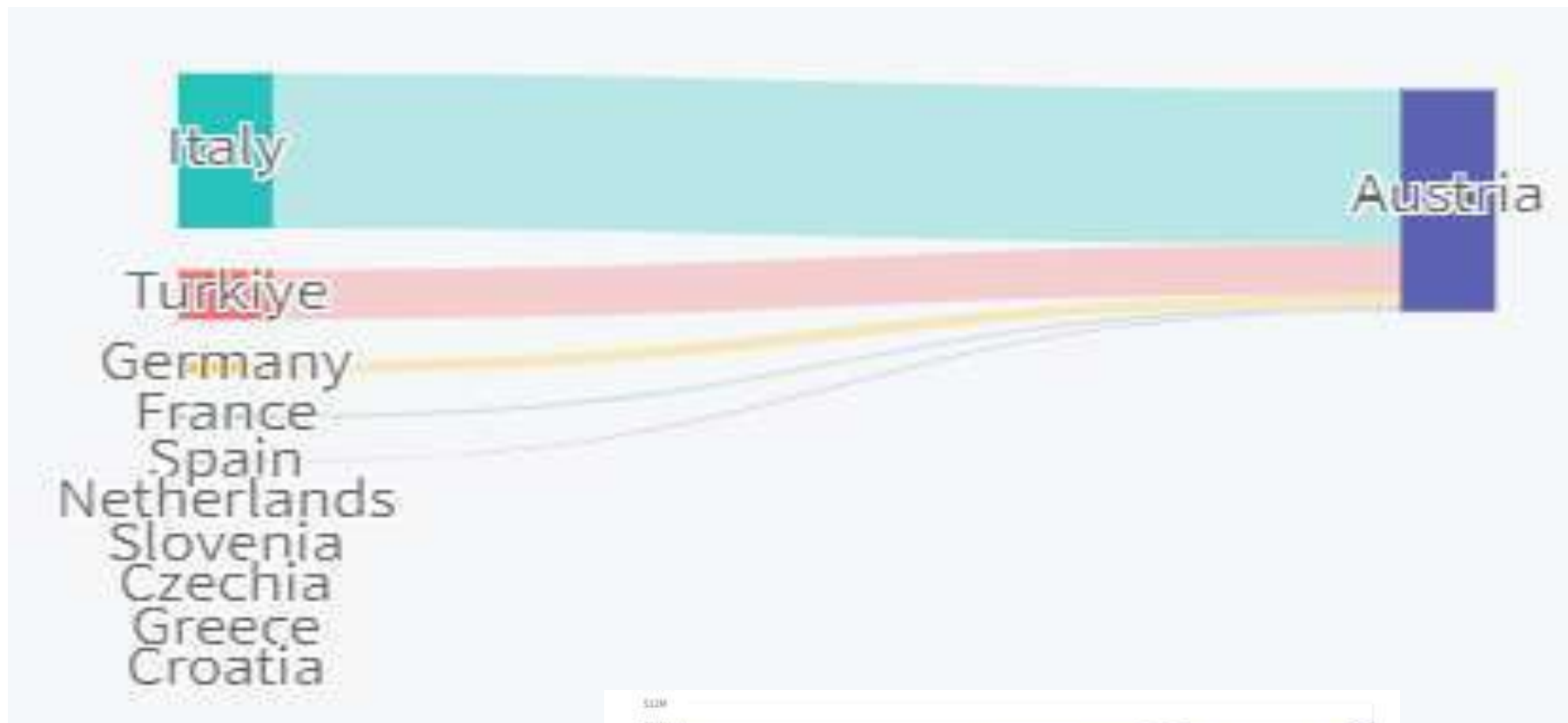
Import - France



Total Import Value of
France in 2023
\$20,4 M USD

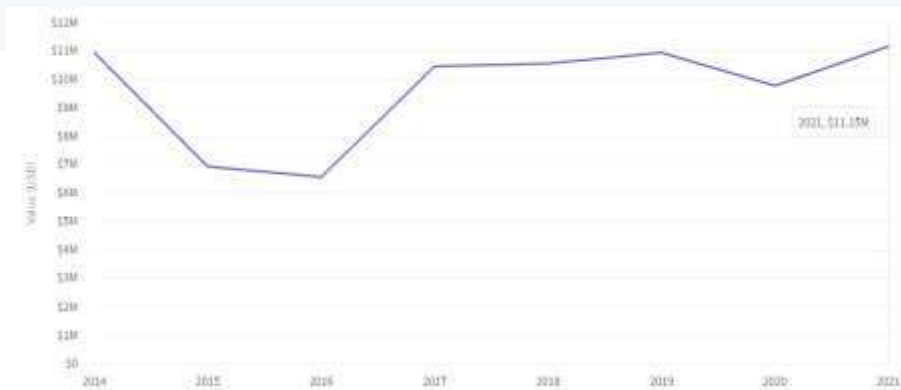
Chestnut in the World – Trade flows 2023

Import - Austria



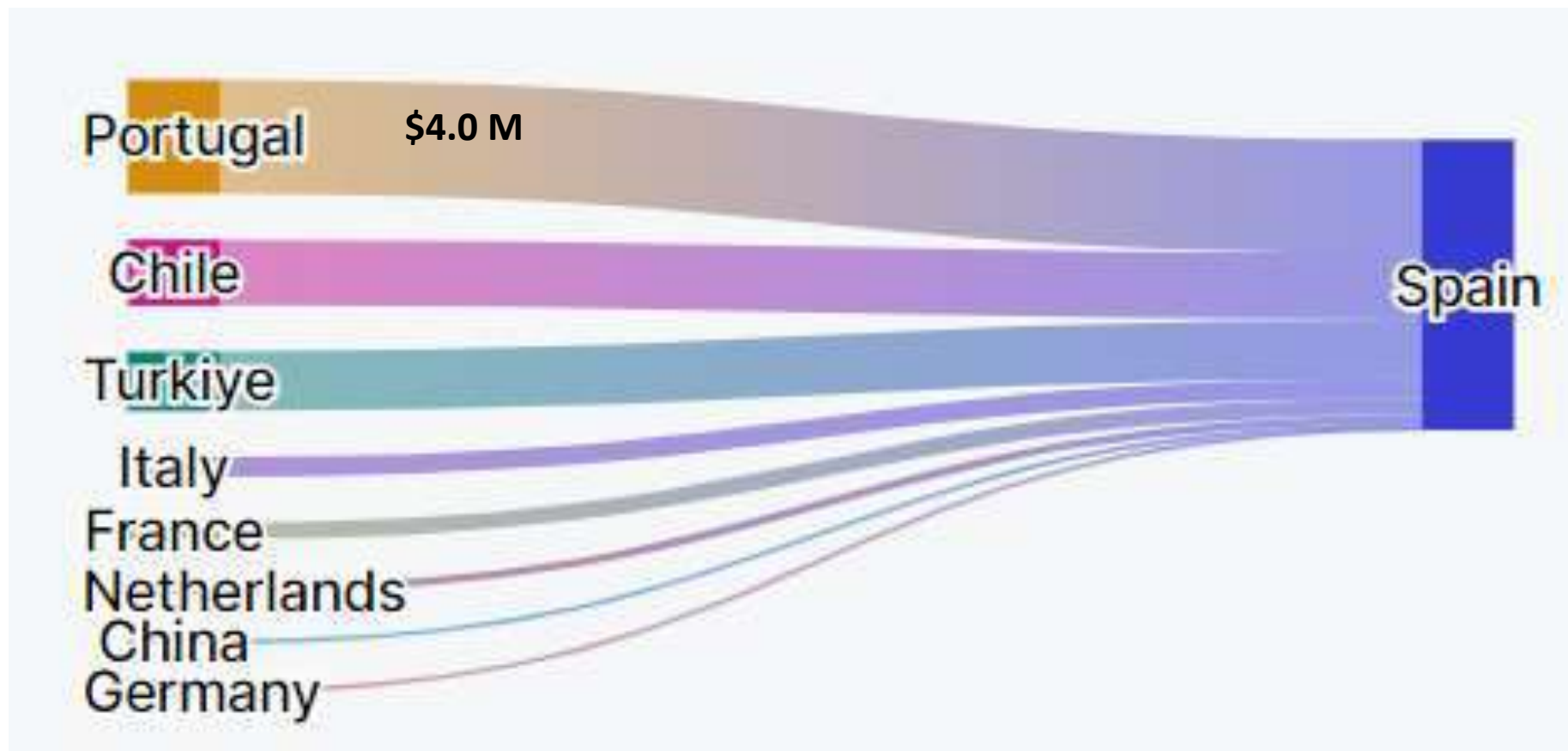
**Total Import Value
of Austria in 2023
\$16.9 M USD**

Fonte: <https://www.tridge.com/intelligences/chestnut/export>



Chestnut in the World – Trade flows 2023

Import - Spain

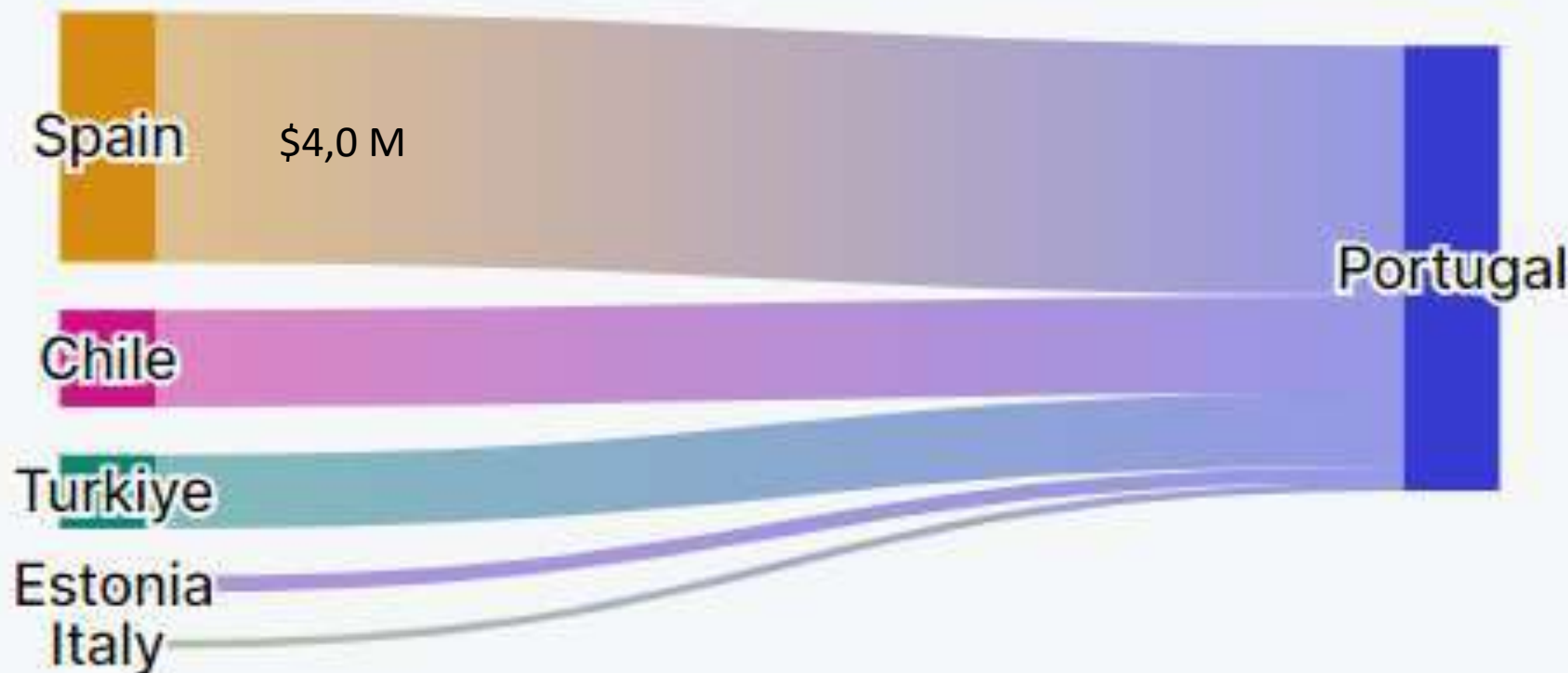


Total Import Value
of Spain in 2023
\$16 M USD

Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Trade flows 2023

Import - Portugal

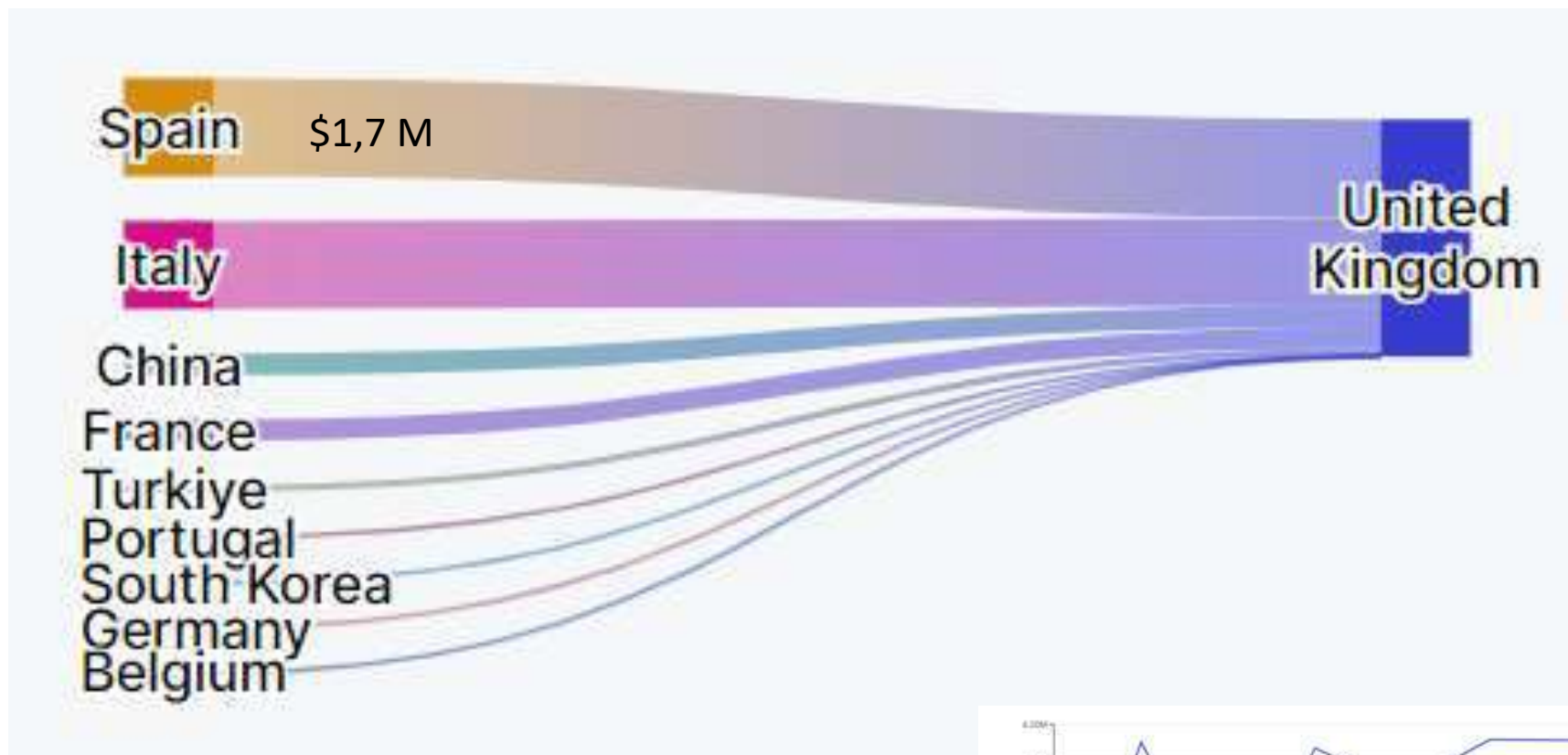


Total Import Value of
Portugal in 2021
\$7.7 M USD

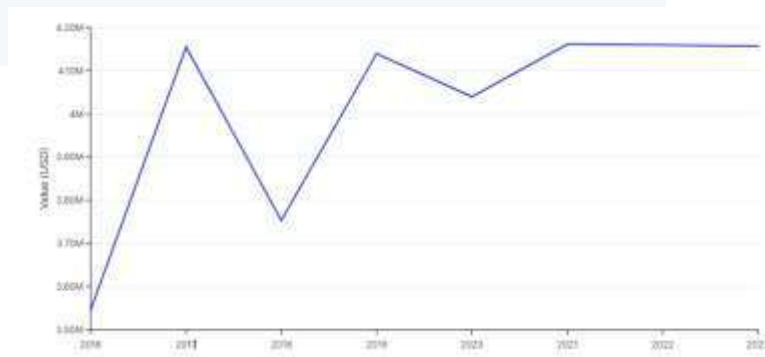
Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Trade flows 2023

Import – United Kingdom

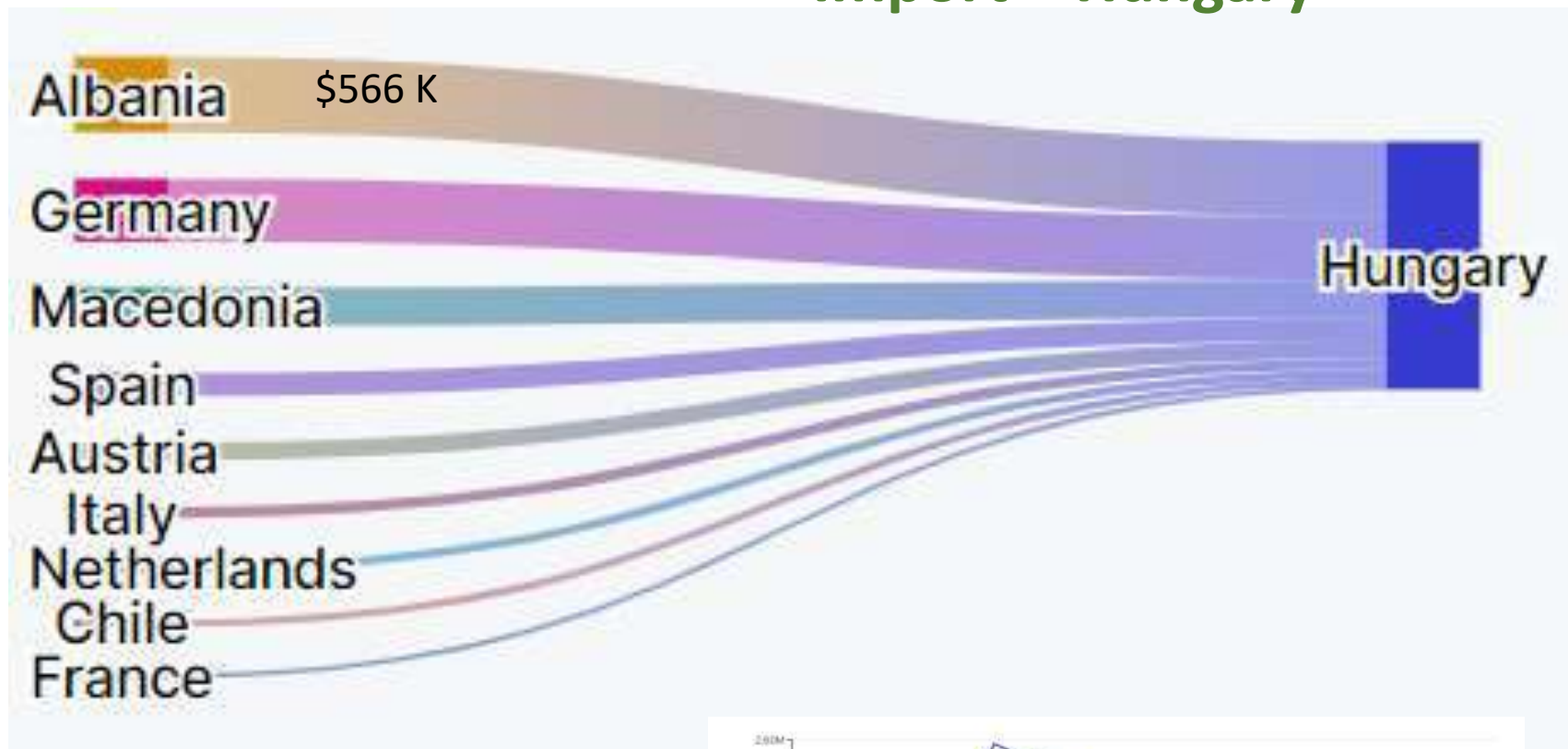


**Total Import Value of
UK in 2023
\$4.2M**

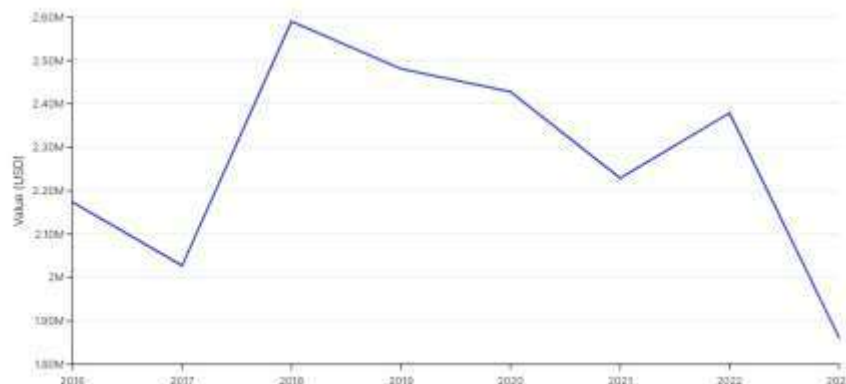


2 Chestnut in the World – Trade flows 2023

Import – Hungary

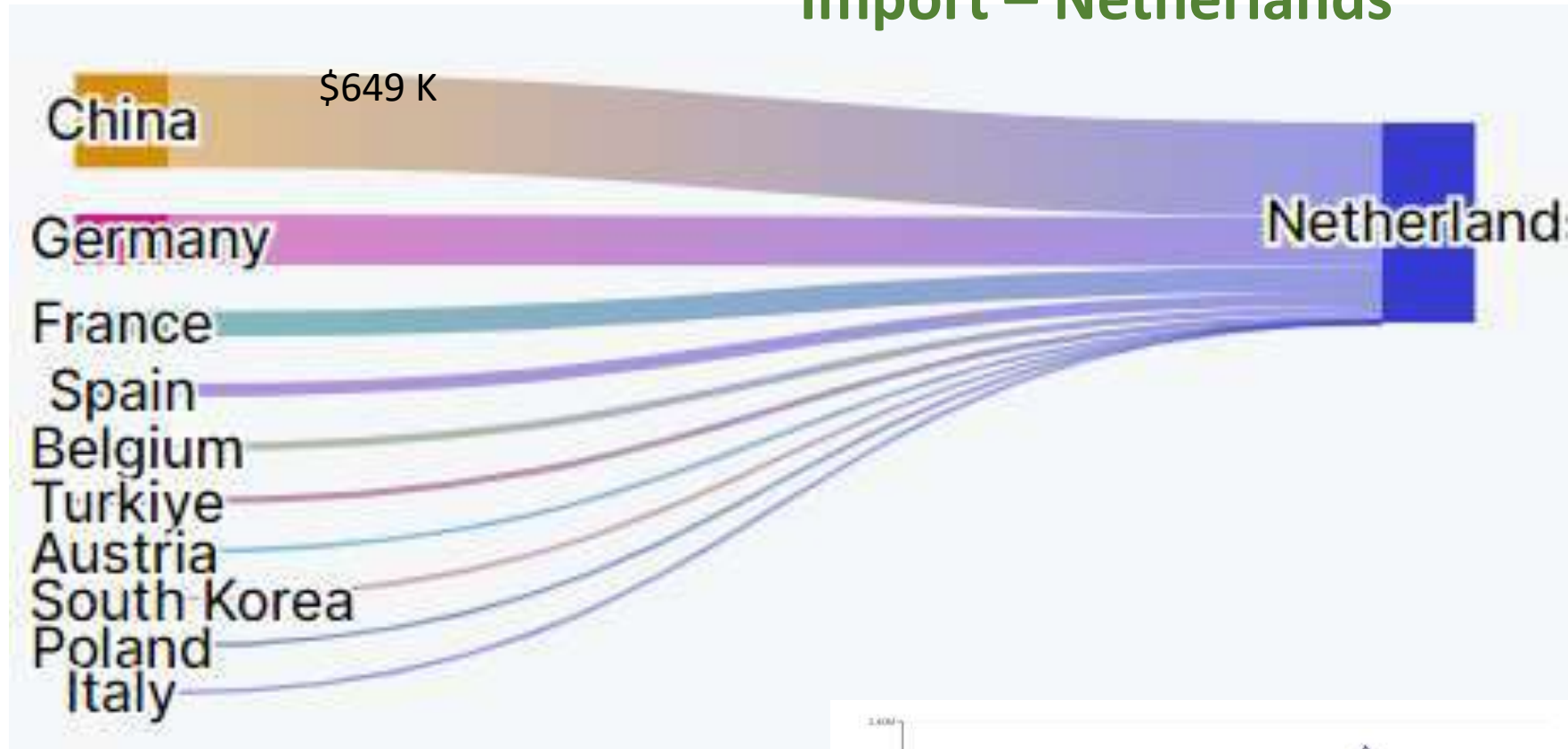


**Total Import Value of
Hungary in 2023
\$3 M USD**



Chestnut in the World – Trade flows 2023

Import – Netherlands



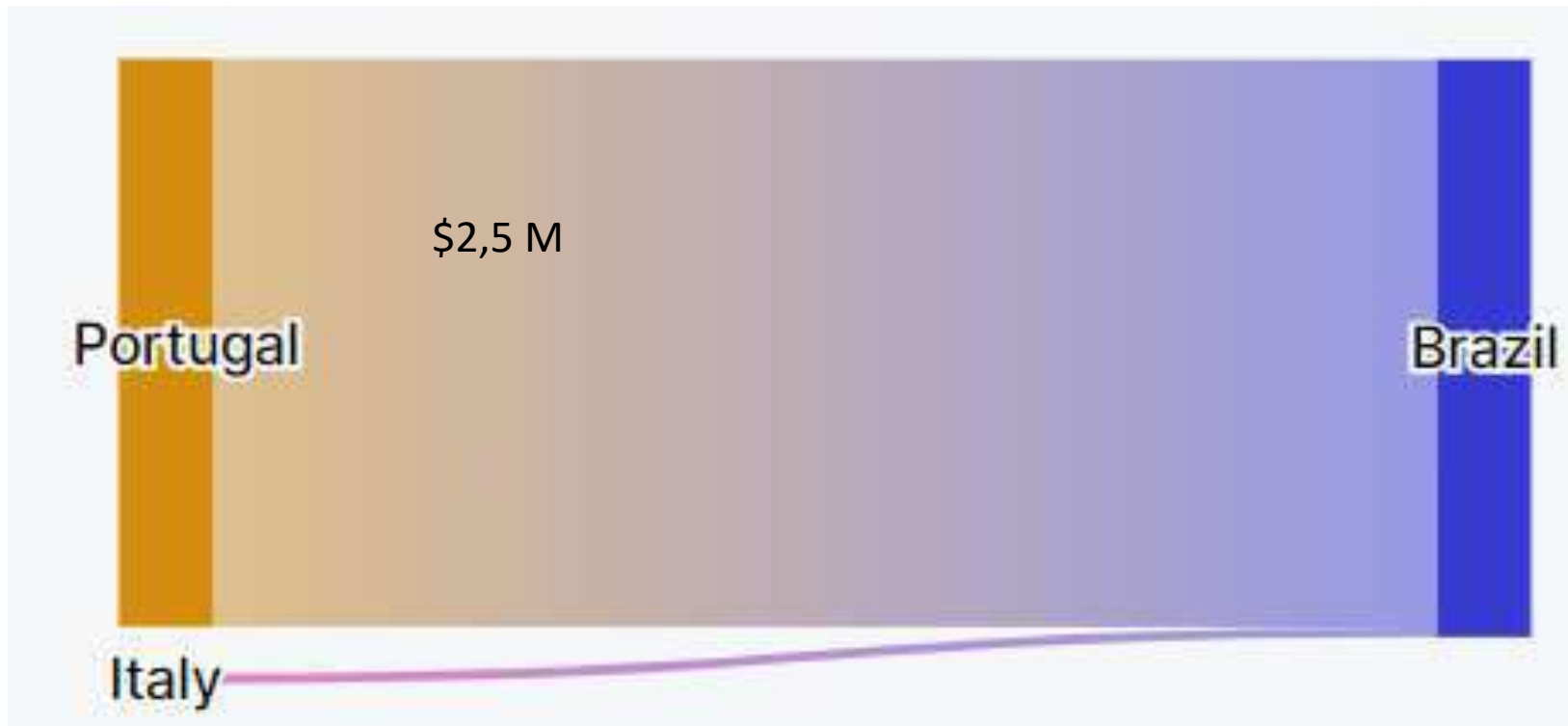
**Total Import Value of
Netherlands in 2023
\$4.6 M USD**



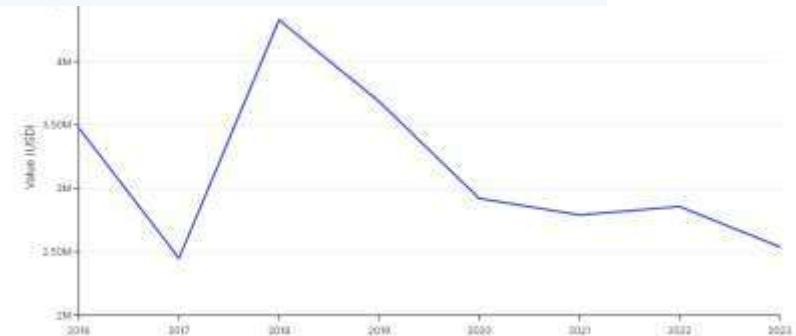
Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Trade flows 2021

Import - Brasil



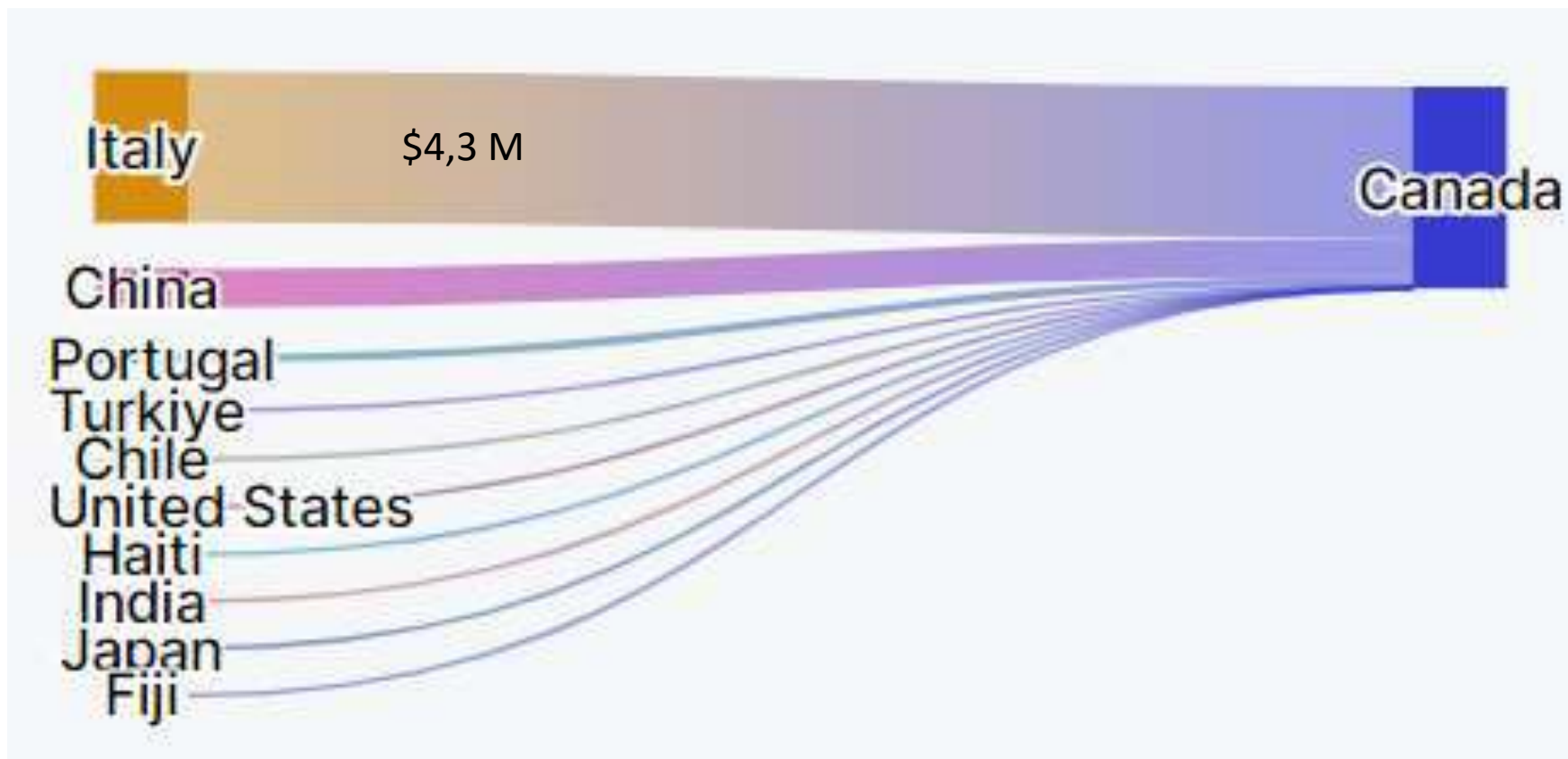
**Total Import Value
of Brazil in 2021
\$3.0M**



Fonte: <https://www.tridge.com/intelligences/chestnut/export>

Chestnut in the World – Trade flows 2021

Import - Canada



Total Import Value
of Canada in 2021
\$5,8M

Fonte: <https://www.tridge.com/intelligences/chestnut/export>

3. Chestnut in the World

Market Drivers and Challenges

<https://www.industryarc.com/Report/15489/packaged-nuts-seeds-market.html>

3. Chestnut in the World

Chestnut Market Drivers

Increase in Global Population with Gluten Intolerance is Projected to Drive Market Growth

The rapid rise in the global population suffering from conditions such as gluten intolerance and celiac disease is anticipated to drive the Chestnut Market.

Chestnut flour is gluten-free and therefore, it is a safe substitute for those who are suffering from such conditions. It is estimated that around 1-2% of the population suffer from celiac disease and up to 6% have gluten intolerance globally.

Gluten intolerance affects the Caucasian race more than others and therefore, North American and European markets are rapidly shifting to gluten-free alternatives such as Chestnuts.

3. Chestnut in the World

Chestnut Market Drivers

Rise in Awareness of Health Benefits Offered by Chestnuts is Anticipated to Boost Product Demand

The increase in global awareness regarding health benefits is driving the market.

Chestnuts are rich in vitamin C. Just half a cup of raw chestnut can provide 35-45% of the daily requirement of vitamin C. They also contain antioxidants such as gallic acid and ellagic acid which are known to reduce risks of cardiovascular diseases, stroke, and some cancers.

Moreover, the high fiber content in chestnuts helps improve digestion and balance blood glucose levels. Chestnut consumption does not lead to a rapid rise in blood sugar as they have a low glycaemic index of 54 on 100.

3. Chestnut in the World

Edible Nuts Market Overview

- Edible Nuts are considered as the most nutritionally concentrated food sources that are high in proteins, energy, minerals and many more.
- There are various types of edible nuts such as chestnuts, peanuts, almond, hazelnuts, pistachios, cashew nuts and walnuts.
- Edible nuts helps to enhance the nutritional value of a dish that increases the usage of edible nuts in food and beverage industry.
- Edible Nuts contains good amount of unsaturated fatty acids that are beneficial for health.
- Edible Nuts are used in various types of mixtures and can be easily stored for 6 Months to 1 year.

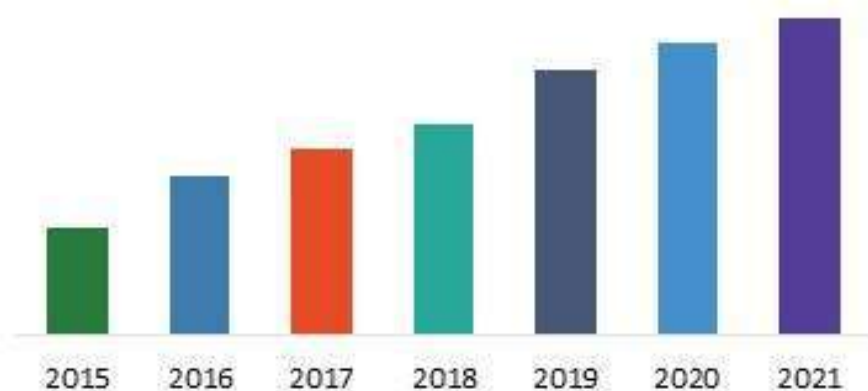
<https://www.industryarc.com/Report/15489/packaged-nuts-seeds-market.html>

3. Chestnut in the World

Packaged Nuts & Seeds Market Size

- Packaged Nuts & Seeds Market Size is forecast to increase at a CAGR of 5.20% during forecast period 2024-2030.
- The worldwide consumption of nuts and seeds is increasing rapidly owing to increasing awareness among consumers regarding benefits of nutritional and healthy food products.
- Proper packaging increases their shelf life and helps in sustaining quality so that the end-users can get clean and fresh product

Packaged Nuts & Seeds Market Revenue, 2015-2021 (\$M)



Source : IndustryARC Analysis, Expert Insights

3. Chestnut in the World

Chestnut Market Challenges

The Susceptibility of Chestnuts to Various Diseases and Insects is Anticipated to Hamper Market Growth

Owing to the stringent regulations regarding the use of chemical pesticides, the risk of diseases and insect infestation has risen significantly.

Chestnut plants are highly vulnerable to insects such as *Dryocosmus kuriphilus* wasps, polyfag moth larvae, chestnut weevil, and diseases like Chestnut blight, Phytophthora disease, and root rot.

Chestnut blight alone was responsible for the destruction of around 4 billion North American Chestnut trees in the early 20th century. These diseases and pests can limit the chestnut output for farmers and thereby, cause a major challenge for the market growth.

<https://www.industryarc.com/Report/15489/packaged-nuts-seeds-market.html>

3. Chestnut in the World

Chestnut Market Challenges

Long Time Required for Producers to Break-Even is Projected to Limit Growth Opportunities

- Even though the initial investment required for starting a small chestnut farm is relatively low, the time required for Chestnut trees to produce nuts takes around 4 or 5 years.
- Moreover, the time by which the producers break-even is estimated to be around 10 to 13 years.
- The low productivity and small size of Chestnut farms is a key reason for the long break-even time. For instance, around 50% of the chestnut farms in North America are only between 2,5 and 10 ha in the area while an average almond farm is around 200 ha.

<https://www.industryarc.com/Report/15489/packaged-nuts-seeds-market.html>

3. Chestnut in the World

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The world sector of chestnut

Authors: J. Gomes-Laranjo, S. Pereira-Lorenzo, G. Marino
Keywords: chestnut, market, export, import
DOI: [10.17660/ActaHortic.2024.1400.1](https://doi.org/10.17660/ActaHortic.2024.1400.1)

XIV European Meeting on Chestnut 2022

Agia, Melivia - Greece

