

Pacific Commodity Trade Database

February 2023

The Pacific Data Hub programme



The **Pacific Data Hub (PDH)** aims to deliver the most comprehensive collection of data and information about the Pacific and from the Pacific, including key areas such as population statistics, fisheries science, climate change adaptation, disaster risk reduction and resilience, public health surveillance, conservation of plant genetic resources for food security, and human rights.

The Pacific Data Hub is an innovative programme of work, led by the [Pacific Community \(SPC\)](#) and supported by the [New Zealand Ministry of Foreign Affairs and Trade](#) and the [Australian Department of Foreign Affairs and Trade](#). It is a regional public good that provides a single authoritative point of entry for data about the Pacific and serves as a vehicle for investment in a sustainable regional data infrastructure.

The goal is to make PACCOMTRADE data available on the Pacific Data Hub



Data Catalogue - an open data repository which manages and publishes all data in the Pacific Data Hub. It is the central component which links to **PDH.stat** and the **Microdata Library**; Most spatial datasets in the Data Catalogue can be visualised with **PacificMap**



PacificMap - a geospatial data exploration tool providing easy-to-use map-based visualisation of spatial data;



PDH.stat - indicator database explorer which contains the 132 Pacific Sustainable Development Indicators (SDGs) as well as a range of economic, health, demographic and environmental datasets (replaces National Minimum Development Indicator Database - NMDI)



Microdata Library - online census and survey documentation and archiving application which also provides access to microdata for some collections.

Open data principles

Tim Berner's Lee 5-stars deployment scheme for Open Data

<https://5stardata.info/en/>



Free to use

Data is published under an open data license



Structured

Directly machine-processable



Open formats

No restriction on software to be used



Referenceable

Each data point is identifiable with a URL



Linked to the Web of Data

Standard concepts and classifications are used

A wide range of users

Graphical User Interface (GUI) - .STAT Data Explorer



Basic user

A powerful search engine allows finding quickly most common statistical tables



Advanced user

User-friendly interface to extract tailored information from voluminous data tables

Application Programming Interface (API) – SDMX Web-service



Statistician and Data Scientist

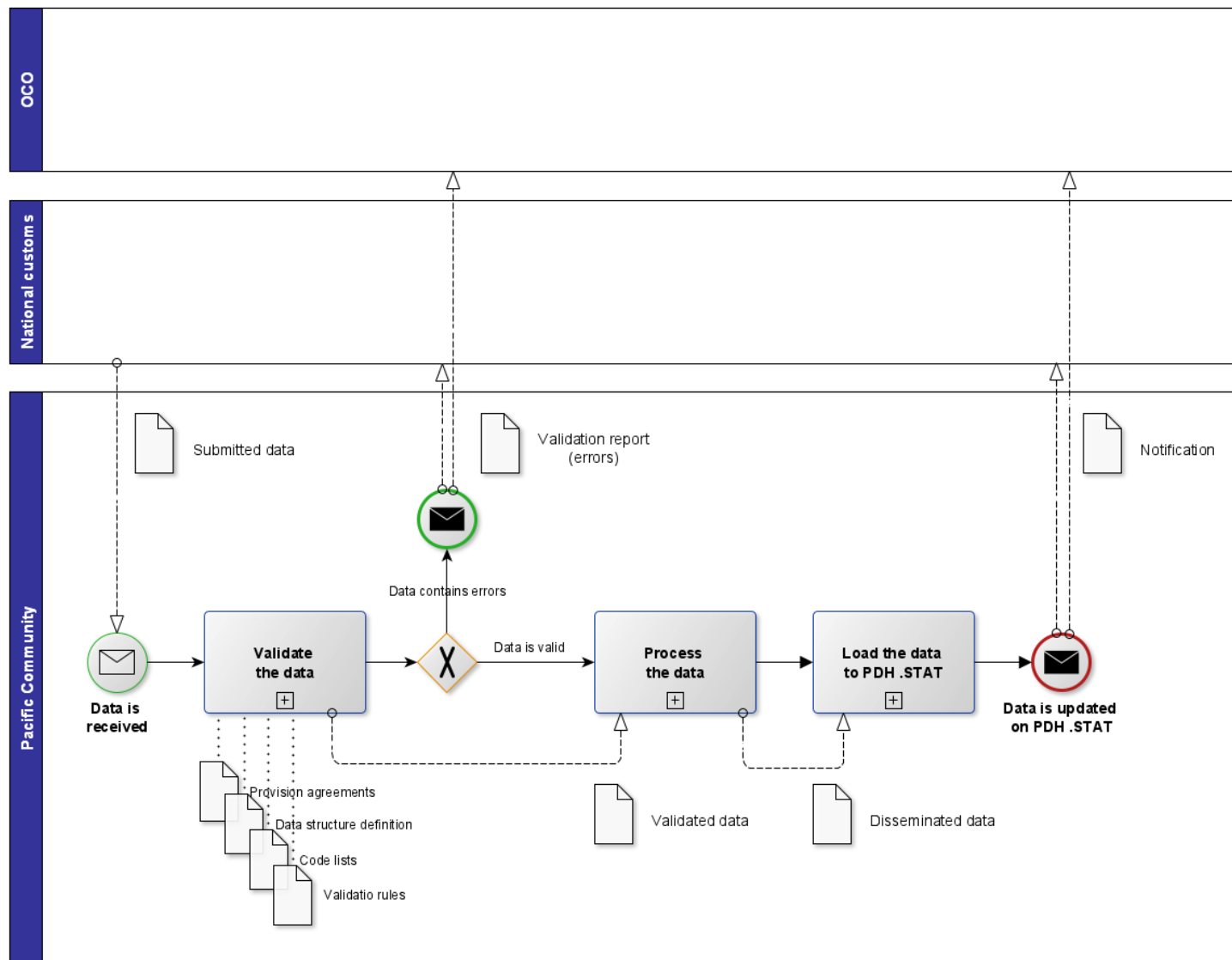
.Stat data is accessible directly from most popular data analysis software (Excel, Power BI, R, Python, Stata)



Web-developer and IT specialist

.Stat data can be included in any IT application using SDMX web services

PACCOMTRADE: Envisioned process



PACCOMTRADE: List of participants

PICTs using ASYCUDAWorld begin of 2022		
FJ	MEL	Fiji
KI	MIC	Kiribati
NC	MEL	New Caledonia
PG	MEL	Papua New Guinea
SB	MEL	Solomon Islands
TV	POL	Tuvalu
VU	MEL	Vanuatu
WS	POL	Samoa
PICTs that should be using ASYCUDAWorld by end of 2022		
CK	POL	Cook Islands
NR	MIC	Nauru
NU	POL	Niue
TO	POL	Tonga
PICTs that might use ASYCUDAWorld later		
FM	MIC	Micronesia (Federated States of)
PW	MIC	Palau
MH	MIC	Marshall Islands
PICTs not mentioned as potential ASYCUDAWorld users		
AS	POL	American Samoa
GU	MIC	Guam
MP	MIC	Northern Mariana Islands
PF	POL	French Polynesia
PN	POL	Pitcairn
TK	POL	Tokelau
WF	POL	Wallis and Futuna

Initial scope of the
PACComtrade database

PACCOMTRADE: Standardised data files

File format	
File name	CC-YYYYDDMM-hhmmss.csv (reporting country and date/time of the extract)
File format	CSV
Encoding	UTF-8
Header	Column names in first row
Separator	Semicolon
Quoting	No quoting of values
Number format	Point as decimal separator No thousands separator

File structure			
Column name	Column description	Cardinality	Representation
DATE	Date of lodgement of the customs declaration	Mandatory, 1 value	ISO 8601 (example "2022-05-16")
COMMODITY	Commodity code	Mandatory, 1 value	8-digits PACHS code
COMMODITY_CLASSIFICATION	Classification used for the commodity code	Mandatory, 1 value	Version of the PACHS classification used
TRADE_FLOW	Type of trade	Mandatory, 1 value	Codes from the IMTS global DSD
VALUE	Statistical value	Mandatory, 1 value	Number (integer or decimal number)
INCOTERMS	International commercial terms	Mandatory, 1 value	Value is "FOB" for exports or "CIF" for
FREIGHT_PAID	Freight paid	Mandatory, 1 value	Number (integer or decimal number)
INSURANCE_PAID	Insurance paid	Mandatory, 1 value	Number (integer or decimal number)
CURRENCY	Currency in which monetary values are expressed	Mandatory, 1 value	ISO 4217
QUANTITY	Quantity	Mandatory, 1 value	Number (integer or decimal number)
QUANTITY_UNIT	Unit of quantity	Mandatory, 1 value	Standard units of quantity recommended for
COUNTRY_ORIGIN	Country of origin	Mandatory, 1 value	ISO 3166-1 alpha-2
COUNTRY_DESTINATION	Country of destination	Mandatory, 1 value	ISO 3166-1 alpha-2
TRADE_AGREEMENT	Trade agreement	Mandatory, 1 value	Code list to be defined by the PACComtrade
TRANSPORT	Mode of transport used	Mandatory, 1 value	Codes from the IMTS global DSD, lowest level

Exhaustive lists of allowed codes is specified as part of the standard.

PACCOMTRADE: Status of the project

DONE:

- ✓ Letter of agreement signed by OCO, PIFS, MSG and SPC.
- ✓ Working group setup with representatives from national and international organisations.
 - Agreed on the list of variables to be collected from customs and stored in the PACComtrade database.
 - Developed a high-level technical design with a dedicated subgroup including members from UNSD, UNCTAD, OCO and SPC.
 - Drafted a Data Licence Agreement (DLA) template to support data provisioning from customs.

NEXT: Conclude a DLA with a first country and pilot the approach.

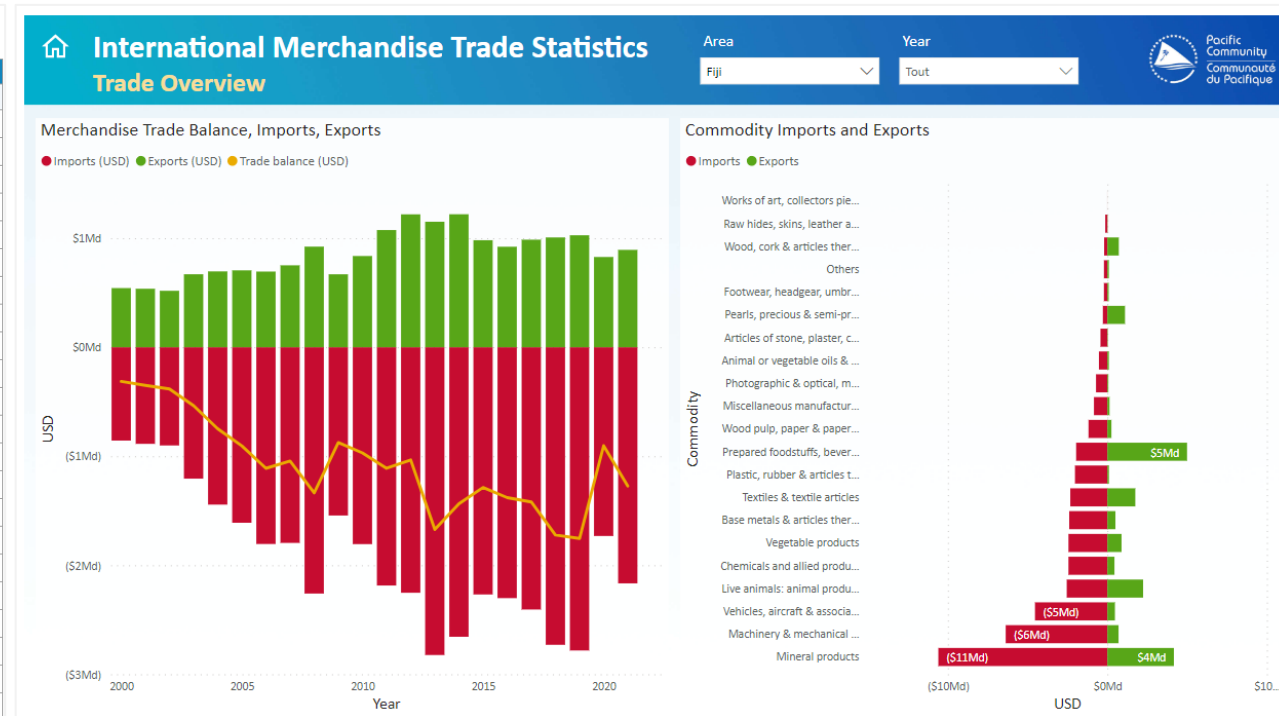
Trade statistics in the Pacific Data Hub

International Merchandise Trade Statistics (IMTS)

Frequency: Annual • Indicator: Amount • Currency: US Dollar

Pacific Island Countries and territories	Time	Combined unit of measure	Trade flow	Trade balance	Imports	Total exports
American Samoa	2019	USD, thousands		-358 352	711 567	353 215
Cook Islands	2021	USD, thousands		* -104 243	* 118 940	* 14 697
Fiji	2021	USD, thousands		P.* -1 272 623	P.* 2 165 765	P.* 893 142
French Polynesia	2021	USD, thousands		* -1 864 779	* 1 984 448	* 119 669
Guam	2021	USD, thousands		444 397
Kiribati	2022	USD, thousands		* -94 128	* 105 582	* 11 453
Marshall Islands	2018	USD, thousands		-75 000	75 000	0
Micronesia (Federated States of)	2018	USD, thousands		-151 210	197 980	46 770
Nauru	2018	USD, thousands		* -38 364	* 47 160	* 8 796
New Caledonia	2021	USD, thousands		* -1 011 342	* 2 779 509	* 1 768 168
Niue	2021	USD, thousands		* -13 115	* 13 885	* 771
Northern Mariana Islands	2021	USD, thousands		-459 044	459 044	0
Palau	2021	USD, thousands		-154 063	156 014	1 951
Papua New Guinea	2018	USD, thousands		* 4 426 017	* 3 471 402	* 7 897 419
Pitcairn	2017	USD, thousands		* -922	* 1 523	* 600
Samoa	2021	USD, thousands		P.* -339 390	P.* 368 225	P.* 28 860
Solomon Islands	2018	USD, thousands		* -31 026	* 600 635	* 569 609
Tokelau	2017	USD, thousands		* -3 027	* 3 027	* 0
Tonga	2022	USD, thousands	
Tuvalu	2021	USD, thousands		* -33 833	* 34 164	* 331
Vanuatu	2022	USD, thousands	
Wallis and Futuna	2021	USD, thousands		* -88 315	* 88 315	* 0

<https://stats.pacificdata.org/>



<https://pacificdata.org/trade-dashboard>

Thank you !

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