









FALAH WORKSHOP SERIES Sydney event

Monday 21st 3pm to Thursday 24th 5pm (Satellite FALAH – USYD-SDGs workshop Friday 25th 9-10am)

Zoom link: https://uni-sydney.zoom.us/j/86540741554

WIFI access:

Select UniSydney-Guest.

When prompted enter Username: FALAH2022 and Pw: 88556822

EVENT OVERVIEW

Event: European H2020 project FALAH research week

Date/Time: Monday 21st, 3pm to Thursday 24th, 5pm

Satellite FALAH – USYD-SDGs workshop Friday 25th 9-10am

Location: Seminar Room 6.1, Level 6, Charles Perkins Centre, Camperdown

Host: FALAH Australia Team, The University of Sydney in partnership with

Western Sydney University.

MCs: Professor Corinne Caillaud, The University of Sydney and A/Prof

Nichole Georgeou, Western Sydney University

Audience: FALAH researchers and invited colleagues and speakers

Event contacts: Marie Lecoq <u>marie.lecoq@sydney.edu.au</u>

Corinne Caillaud corinne.caillaud@sydney.edu.au (0433955175)











ATTENDANCE LISTS

- Professor Jean-Marie Fotsing, University of New Caledonia, Scientific coordinator FALAH project
- A/Professor Olivier Galy, University of New Caledonia, Scientific co-coordinator FALAH project
- Professor Corinne Caillaud, Coordinator FALAH Australia, The University of Sydney
- A/Prof Nichole Georgeou, Western Sydney University
- FALAH researchers from The University of New Caledonia, The Institut Agronomique Néo-Calédonien, Ministry of Education and Training Vanuatu, Solomon Islands National University, The University of the South Pacific, University of Wollongong, Western Sydney University, University of New South Wales, Germany-based Kula e.V, a non-profit organisation, The Pacific Community, The University of Goroka
- Representatives from Tonga Christ's University of the Pacific
- Charles Perkins Centre researchers

EVENT OBJECTIVES

- Welcome delegates and open the Sydney FALAH week.
- Feature and celebrate the FALAH network and its capacity building strategy
- Provide an opportunity for the FALAH team to come together, present, discuss and finalise FALAH methodology before data collection starting next year
- Consolidate collaborations and partnership

PROGRAM BACKGROUND

Link to FALAH project: https://falah.unc.nc/en

SPECIAL EVENT DETAILS

Zoom link: https://uni-sydney.zoom.us/j/86540741554

Social media (twitter): @FALAHpacific, @Sydney_Univ, @syd_health

Website: https://falah.unc.nc/

Facebook profile











PROGRAM

All activities will take place at the **Charles Perkins Centre (CPC)**, Camperdown (*see map on last page*). The smoking ceremony will take place at 3pm downstairs, in the outdoor area. The opening ceremony and workshops will be held in Seminar Room 6.1, Level 6 or level 1 seminar rooms on Tuesday morning.

Program										
Date & Time	Activities	Facilitator and attendees								
Monday 21 st November 3-5pm CPC, level 6 Seminar room	Opening ceremony Smoking ceremony and Welcome to country Official welcome talks Networking drinks	Metropolitan Local Aboriginal Land Council All attendees								
Tuesday 22 nd November Morning CPC Seminar Rooms 1.02, CPC Seminar Rooms 1.04	PRESENTATIONS 9:30-10:30am Overview of FALAH — FALAH tools and methodologies: objectives for the week 10:30-10:45am: Morning tea 10:45am-12pm WP2: Family farming, food production and food security in the Pacific Methodological workshop Part 1: description of selected methodological tools	Presentations by Olivier GALY (UNC¹), Jean-Marie Fotsing (UNC) Facilitated by Severine Bouard (IAC²), Nichole Georgeou (WSU³) FALAH team								
Tuesday 22/11 Afternoon CPC, level 6 Seminar room	WORKSHOP 1pm-3pm WP2: Family farming, food production and food security in the Pacific Methodological workshop Part 2: discussion and consolidation	Facilitated by Severine Bouard (IAC), Nichole Georgeou (WSU)								
Tuesday 22/11 Afternoon	3pm-4pm Funding opportunity <u>RERIPA Call 3</u> : "Living Labs for Innovative solutions to address Climate Change Impact in the Pacific"	Presented by Mathilde Souchon (PIURN ⁴)								

¹ UNC: University of New Caledonia

² IAC: Institut agronomique Néo-calédonien

³ Western Sydney University

⁴ Pacific Islands Universities Research Network











CPC, level 6 Seminar room		
Wednesday 23/11 Morning CPC, level 6 Seminar room	WORKSHOP 9am - 11pm WP3: Family farming practices in the Pacific: impacts on diets, lifestyles and health Methodological workshop	Facilitated by Olivier GALY (UNC), Corinne Caillaud (USYD)
Wednesday 23/11 Morning CPC, level 6 Seminar room	PRESENTATION 11am-12am WP3: Tools, methods and metrics for a better understanding of food systems in Melanesia	Presentation by David Raubenheimer (USYD)
Wednesday 23/11 Afternoon CPC, level 6 Seminar room	WORKSHOP 1-3pm Digital technologies and artificial intelligence applied to the study of food intake and physical activity patterns in the Pacific	Facilitated by Kalina Yacef (USYD), Guillaume Wattelez (UNC)
Wednesday 23/11 Afternoon Chau Chak Wing Museum (Sydney Campus)	Activity with Chau Chak Wing Museum 3:30-5pm Pacific cultures from the Museum collections	Facilitated by Rebecca Conway and Jude Philip All FALAH delegates
Thursday 24/11 Morning CPC, level 6 Seminar room	WORKSHOP 9am-12pm Session about scoping and systematic review Several sessions in parallel	Facilitated by Nichole Georgeou (WSU), Corinne Caillaud (USYD) All FALAH delegates
Thursday 24th November Afternoon	All FALAH delegates	
Friday 25 th November Morning CPC, level 6 Seminar room	WORKSHOP - FALAH / SDG grant joint session 9-11:30 Discussing with young people diets, physical activity and health: a co-design approach	Corinne Caillaud (USYD), Olivier Galy (UNC) and USYD SDGs team

This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 873185









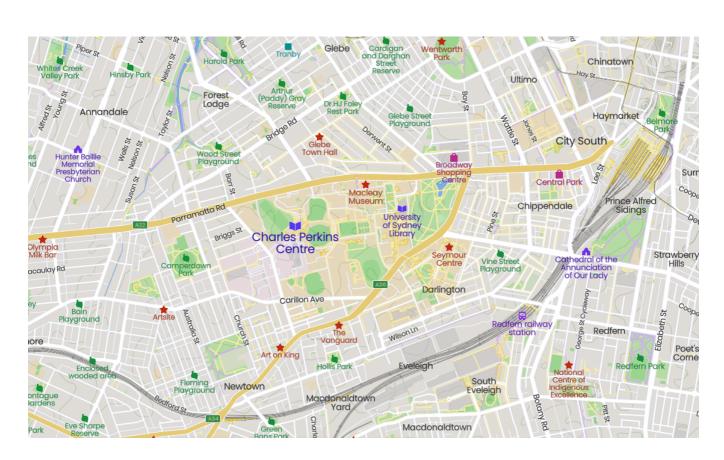


Access to Charles Perkins Centre



Address

Charles Perkins Centre, John Hopkins Drive, The University of Sydney NSW 2006 You can get to Charles Perkins Centre by Bus, Train or Light rail. These are the lines and routes that have stops nearby - Bus: 412, 422, 438X, 440, 461X Train: SCO, T1, T4, T9















Food & Agriculture Workshop

21st to 25th of November 2022 University of Sydney, Australia

FALAH overview: tools and methodologies of the workshop

Dr Olivier Galy
Pr Jean-Marie Fotsing
Dr Severine Blaise

Disclaimer: the views expressed in this presentation are purely those of the author and may not in any circumstances be regarded as stating an official position of the Research Executive Agency













Plan:

1-What has been done?

2-Where are we now?

3-What are the next steps?

4-Scientific valorisation & communication



Research project (reminder)

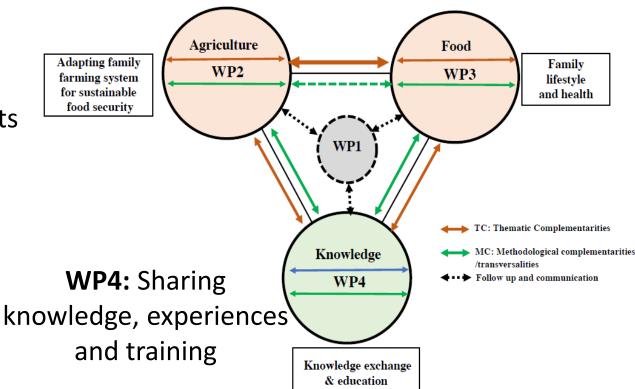
Scientific organisation (3 WPs)





WP2

From gardens to markets



WP3

From gardens to markets.... to kitchens.... even to the hospital



- Multi-thematic approaches
- Comparative studies
- Involvement of several disciplines



Methodological innovations

Sharing Knowledge and experiences



Transversalities

Complementarities



Research project (reminder)

Fields of application for transversalities



4 PICT

NC (AC)

SI (TC)

Van (TC)

Fiji (TC)

PNG (TC)

Spatial comp.

Rural

Urban

Peri-urban

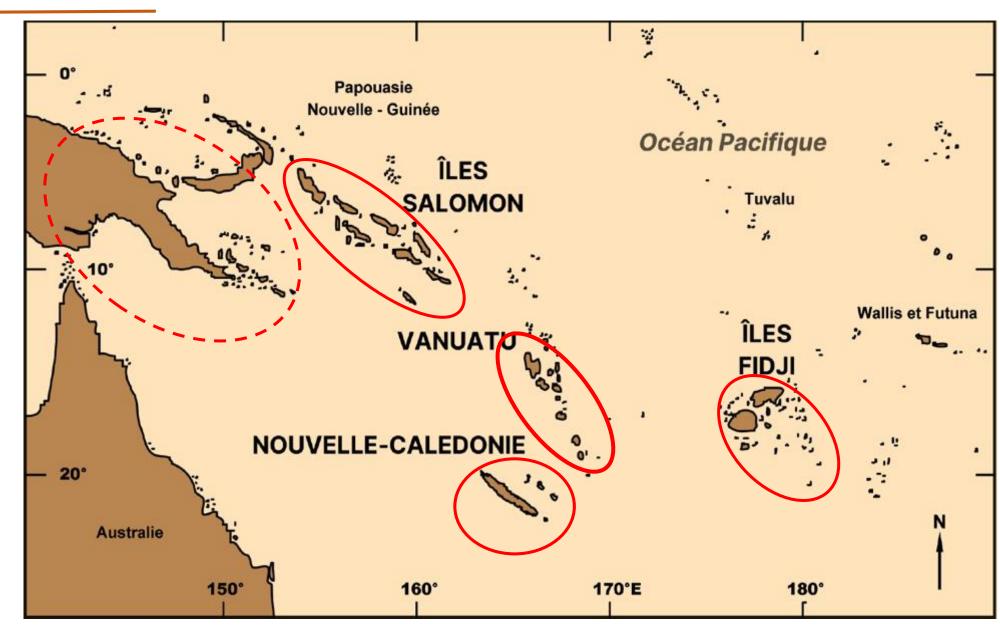
Coastal

Social comp.

Children

Families

Commiunities...



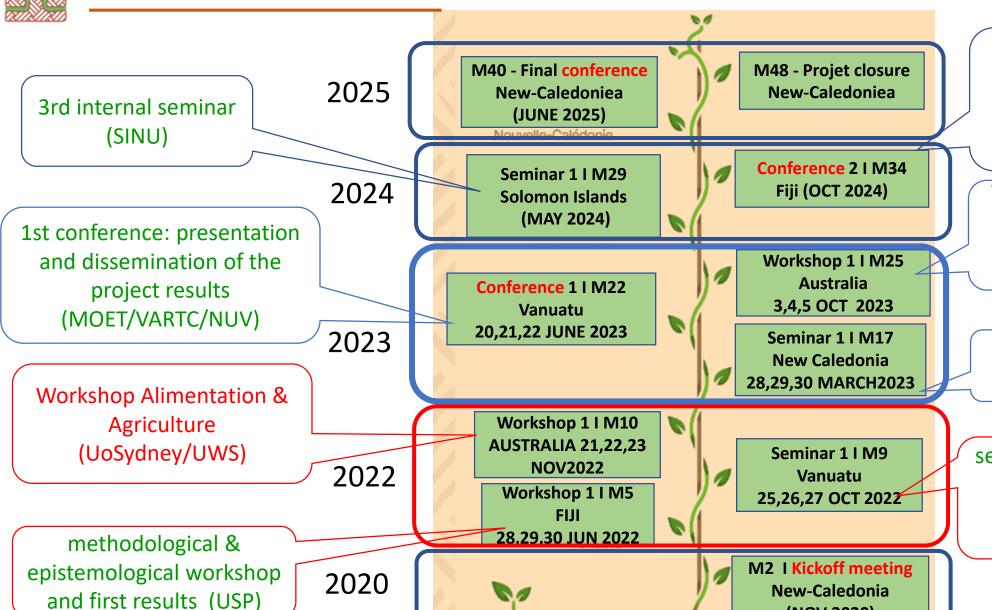


What has been done?



(NOV 2020)





2nd conference: presentation and dissemination of the project results (USP)

Workshop enrichment & methodological intersection (UOW/UNSW)

2nd seminar + 2 workshops on WP2&3

seminar with 2 WS on WP2 & 3 + methodological orientation test (MOET/VARTC/NUV)



Program of the workshop





Where are we now?

Tuesday 22 nd November	PRESENTATIONS 9:30-10:30am Overview of FALAH —	Presentations by Olivier GALY (UNC¹), Jean-Marie Fotsing (UNC)						
Morning	FALAH tools and methodologies: objectives for the week							
	10:30-10:45am: Morning tea							
	10:45am-12pm WP2: Family farming, food production and food security in the Pacific Methodological workshop Part 1: description of selected methodological tools	Facilitated by Severine Bouard (IAC²), Nichole Georgeou (WSU³) FALAH team						
Tuesday 22 nd November Afternoon	WORKSHOP 1pm-3pm WP2: Family farming, food production and food security in the Pacific Methodological workshop Part 2: discussion and consolidation	Facilitated by Severine Bouard (IAC), Nichole Georgeou (WSU)						
Tuesday 22 nd November Afternoon	3pm-4pm Funding opportunity <u>RERIPA Call 3</u> : "Living Labs for Innovative solutions to address Climate Change Impact in the Pacific"	Presented by Mathilde Souchon (PIURN ⁴)						



Program of the workshop





Where are we now?

Wednesday 23 rd November Morning	WORKSHOP 9am - 11pm WP3: Family farming practices in the Pacific: impacts on diets, lifestyles and health Methodological workshop	Facilitated by Olivier GALY (UNC), Corinne Caillaud (USYD)
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Program of the workshop

THE UNIVERSITY OF SYDNEY



Where are we now?

Thursday 24th November Morning	WORKSHOP 9am-12pm Session about scoping and systematic review Several sessions in parallel	Facilitated by Nichole Georgeou (WSU), Corinne Caillaud (USYD) All FALAH delegates				
Thursday 24th November Afternoon	Discovering Sydney Gardens 1-4pm Visit Sydney Botanical Garden	All FALAH delegates				
Friday 25 th November Morning	WORKSHOP - FALAH / SDG grant joint session 9-11:30 Discussing with young people diets, physical activity and health: a co-design approach	Corinne Caillaud (USYD), Olivier Galy (UNC) and USYD SDGs team				

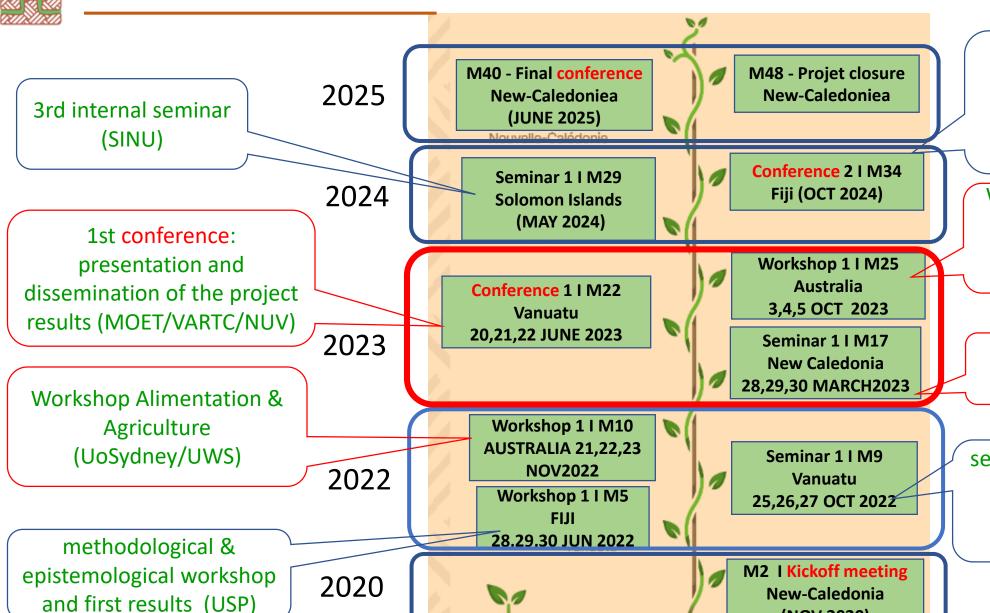


What are the next steps (2023, 2024, 2025)?



(NOV 2020)





2nd conference: presentation and dissemination of the project results (USP)

Workshop enrichment & methodological intersection (UOW/UNSW)

2nd seminar + 2 workshops on WP2&3

seminar with 2 WS on WP2 & 3 + methodological orientation test (MOET/VARTC/NUV)







Scientific valorisation & communication (1)

Identification label FALAH

Mandatory mention:

"This study has been funded by the European Commission through the RISE program (Research and Innovation Staff Exchange) H2020 – MSCA – RISE – 2019 Grant Agreement: 873185: FALAH: "Family farming, lifestyle and health in the Pacific"

Disclaimer: the views expressed in this presentation are purely those of the author and may not in any circumstances be regarded as stating an official position of the Research Executive Agency







Scientific valorisation & communication (2)

Principles of valorisation

Type of production	Valorisation mode
Data collection and processing	Co-authoring a working paper, then an article
Synthesis of internal seminars / workshops	FALAH website
Conference proceedings	FALAH website Open Access Publishing House
Results of research work (literature review, protocols, methods, etc.)	FALAH website Open Access Referenced Peer-reviewed journals

NB: LinkedIn, Twitter and other social networks also mobilized







Scientific valorisation & communication (3)

https://open-research-europe.ec.europa.eu/about/

Rules of publication for H2020 programs:

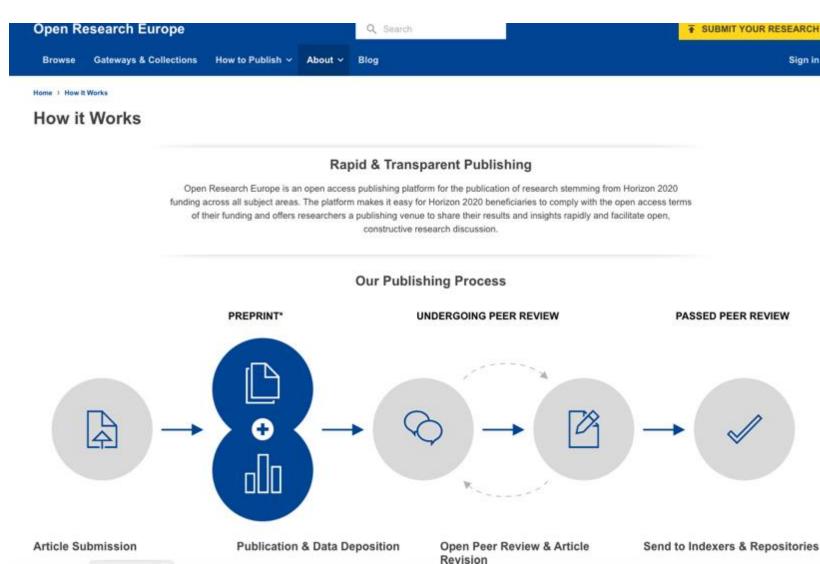
Publish in open access journals

Acknowledgements to EU

Proposal from EU:

Open Research Europe Journal

Dedicated to H2020 grantees

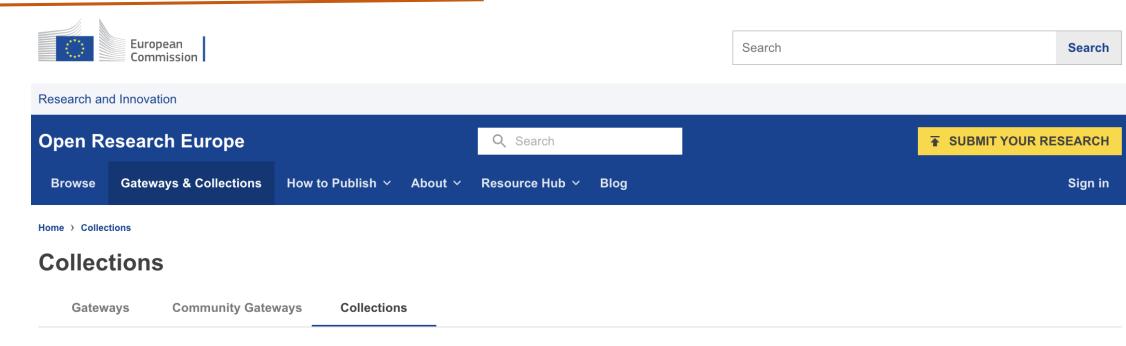




Scientific valorisation & communication (4)







Collections are compilations of content relating to a specific Horizon 2020 or Horizon Europe-funded community, project or conference.





Adaptation to Climate Change

This collection draws on the interdisciplinary nature of climate research in the Horizon funding programmes, looking at both current



Advances in Optics

Optics is concerned with studying and understanding the behavior and properties of light, specifically in relation to its interaction with different media. This



Advances in Photonics

Photonics is the science of light waves, specifically relating to the generation, detection and manipulation of light. The field focuses on the creation and



Scientific valorisation & communication (5)



Co-authors' rules and copyright

An author is a person who has made a substantial contribution including:

- the conception of the work; or the acquisition, analysis or interpretation of data for work; AND
- writing the work or critically revising it for important intellectual content; AND
- final approval of the version to be published; AND
- agreement to be responsible for all aspects of the work by ensuring that issues related to the accuracy or integrity of any part of the work are investigated and appropriately addressed.



Scientific valorisation & communication (6)



Co-authors' rules and copyright

Rule 1: Name of authors in descending order, according to the actual contribution to the writing of the article and the production of the data (processing and analysis).

Rule 2: Acknowledgements for people who do not fulfill the co-author rules cited above.

Rule 3: Name of authors in descending order, according to the actual contribution to the writing of the article and the production of the data (processing and analysis). The leaders of the publication in question can be at the top or end of the list depending on their involvement.

There may also be 2 co-first authors and/or 2 co-last authors, this is the case in some publications where very large teams are involved (can be specified at the bottom of the article).



Call for papers for the 1st FALAH conference



Family farming, food and health in intertropical SIEs

Axis 1 – Which family farming to ensure the sustainability and resilience of SIEs in the face of global changes?

- a) What agriculture for tomorrow: productivist industrial agriculture versus agroecology?
- b) High tech versus low-tech agriculture?
- c) Towards a more inclusive agriculture?
- d) Agriculture and local trading systems

Axis 2 – Evolution of lifestyles: what impacts on food and the health of populations?

- a) Urbanization, industrialization and local food systems
- b) Globalization of food systems and systemic risks
- c) Industrial food and population health
- d) Diets and lifestyles

Axis 3 – Cooperation policies and the role of education in the formulation of public agricultural policies: what place for local knowledge?

- a) Development aid and agricultural policies
- b) The challenges of the growing role of the private sector in cooperation policies
- c) Local agronomic knowledge in the face of global changes
- d) Knowledge exchange and education for sustainable agriculture



Merci pour votre attention













































Food & Agriculture Workshop

21st to 25th of November 2022 University of Sydney, Australia

WP2: Family farming, food production and food security in the Pacific Methodological workshop Part 1: description of selected methodological tools

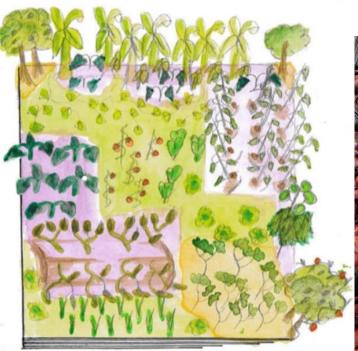
Séverine Bouard (IAC) & Nichole Georgeou (WSU) in collaboration with Séverine Blaise (UNC), Arno Pascht (LMU)

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Part 1: description of selected methodological tools

- Surveys and interviews on Family Farming, on the place of FF in household's strategies, markets, working balance between genders, etc.

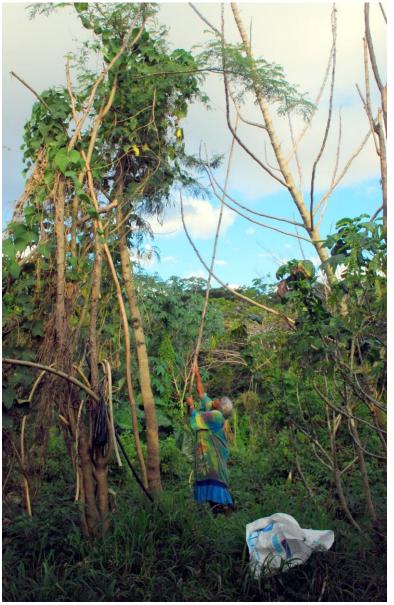














1. First short survey: defining FF for the different stakeholders and scales





What does family farming significate for people who live on several family activities?

- > How is the term "family farming" perceived by the people of the Pacific?
- > Does this perception correspond to the official definition of the term, proposed by the FAO?







Interview's guide on FF definition(s)





> 5 main questions to ask to various actors in 2 or more states/islands

- 1. General question: if I say "family farming", what do you mean?
- 2. Type of activities: for you, what does family farming include in terms of activities?
- 3. Subsistence activities: Does this include all activities that provide food?
- 4. Other activities: What are the other activities than the cultivation of the field that allow you to feed yourself? what should we add to our list of important activities to eat?
- 5. Hunting/fishing: for example, is hunting or fishing considered family farming in your opinion?



2. Household survey





Objectives:

- To update and understand stakes, issues, and the place of Family farming in the contemporary household strategies
- To assess how family farming contribute to markets and is a way to connect rural, periurban and urban areas
- To assess whether the non-market agriculture (self-consumption and donation) can contribute to improve the adequacy with guidelines on food group consumption

 To put it in a nutshell: to better understand the place of Family farming within the agriculture-health (food habits and lifestyle)- environment

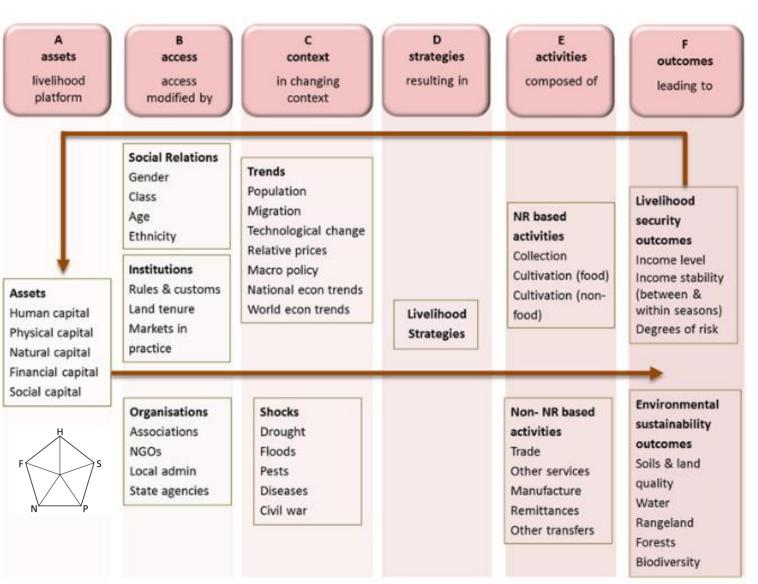


Household surveys: a SRL theoretical background framework





« Sustainable Rural Livelihoods »





Collection of data that will allow us to « score » the assets





Scoring the assets

Type of assets	Variables	Description of the variable	Scoring				
Physical	Farming equipment	Value of agricultural equipment in XPF/Vatu/AUD/etc.	Standardisation of the variable				
	Presence of livestock or farm buildings	Yes if there are buildings Not otherwise	1 for Yes 0 for No				
	Presence of irrigation infrastructure	Yes if there is at least one drip, ramp or pivot type infrastructure Not otherwise	1 for Yes 0 for No				
Natural	Distance to home	5 modalities: -Less than 15 minutes on foot -From 15 to 30 minutes on foot -Less than 15 minutes by car -From 15 to 30 minutes by car -More than 30 minutes by car					
	Quantity of hunting and fishing products	Quantity in kg of products hunted, fished or harvested in 2018	Standardisation of the variable				
	Accessible surfaces	Accessible areas in ha (excluding pasture)	Standardisation of the variable				

tract from Sourisseau, Gaillard,Bouard & al. 202



How to do that in FALAh with households surveys?





- Population
 - Demography
 - Activities
- Productions
 - Crops
 - Livestock
 - Fishing
 - Hunting
- Functions of activities
 - Autoconsumption
 - Gifts & customs (kastom)
 - Sales
- Incomes



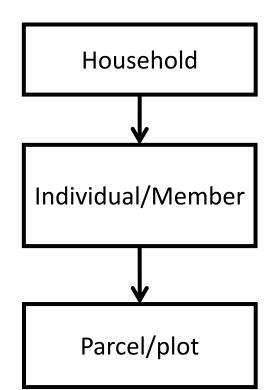
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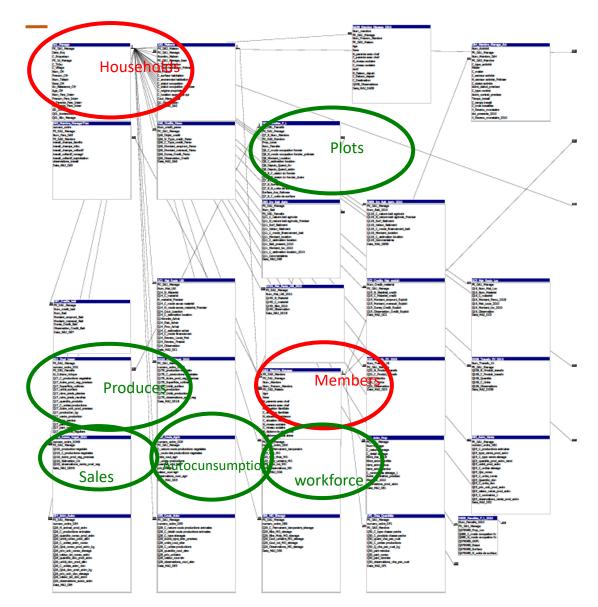


Population: the embeddedness of statistical units





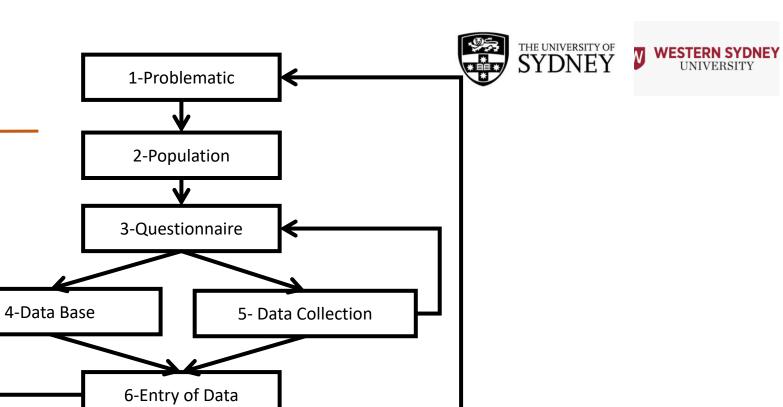








The process



7-Data cleaning

8-Data processing

9-Analysis

10-Restitutions

11-Back to the problematic



The questionnaire on Family Farming: introduction, legal rights, RGPD, consent









Household survey
Date:/2017 Name of the investigator
Household number II_I_I_I_I
Village name
HH's surname:
Phone number :
If the surveyed person is different of Household's Head :
Name Surname :
Kinship with the HH:
ANONYMOUS SURVEY: "Family farming in the Pacific"
This questionnaire has been validated by the ethics committee in your country.
In accordance with the applicable law on data processing, files and freedoms, the questionnaire is anonymous and the results are confidential. The link between your identity and your answers will be destroyed when the results are analysed. You have rights relating to your personal data such as the right of access, rectification, deletion of your data that you can exercise by contacting:

by email to : olivier.galy@unc.nc

Your data will be kept by University of New-Caledonia for 24 months following the end of the study. In case of non-compliance, you have the right to lodge a complaint with the supervisory authority, the CNIL (Commission Nationale de l'Informatique et des Libertés).

This questionnaire will not be used by other organisations or administrative services (tax department, insurance, etc.)



The questionnaire Family Farming: house, equipment





	How many households are covered by the survey? II											
	Comments on Travel	Comments on the place of residence : Travel time to village: II (*1)										
		Type 1= Hard standing 2= sheet metal 3= hut 4= Other, specify	Nbr. Of Livi roo are ms (*3 (*2)	a Dewling	Occupancy status (*5)		d, monthly ost l	Observation				
	House 1	1										
	House 2											
	House 3											
	House 4											
	House 5											
	Outdoor sanita Household equi			/ 1= yes)								
	Main	water supply	?	Access	to electricity?		Sanitary fac	cilities and equipmen				
	1. Running/ta			🛮 l. General e	lectricity suppl	ly □1	Private toilet	t in the house				
	☐ 2. Individual (well, ciste	ern)		□2. Individua	l generator	□2.	. Bathtub or s	shower in the house				
	☐3. Collective well, tank)		orehole,	□3. Solar				ir-conditioned room				
	□ 4. Catchment			☐4. Other spe	eify:		. Water heate					
	☐ 5. Outdoor fr ☐ 6 Other	esh water supp	oly				. Fridge and/					
See A se						□6.	. Internet acc	ess				
	1						Fixed phone					
						□ 8	3. Mobile pho	one (Number)				
	Comments:											

General presentation Residence/houses

Vehicles owned by the household(s)

How many vehicles do you own? Cars: I____I; Motorcycles: I____I; Mopeds: I____I; quad bikes: I____I



The questionnaire on Family Farming: members of the houshold





Members of the household

Q1. Who had lived and eaten in the household last year more than 6 months?

Num Pers	NAME Surname	Age (-1)	Sex 1=Male	Head of Household 0=No 1= Yes	nead of	Family Situa (*2)	tion	residence situation (*	School lev achieved (The highest diploma (*5)		Observations	
1													
2					ĺ								
3					ĺ								
4]								
5													
6													
7													
8													
9													
10													
11]								
12													
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14													
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16]								
17													
18													
19													
20													
21													
22													







The questionnaire on Family Farming: pluriactivity at the heart of household strategies



















Activities of 'active' household members in last year (fill in one line per activity and take additional sheets if necessary)

	Num active member	Activity 1= primary.	Type of occupation		Sector		Stat	us	types of contra	work	workin	g time	Mor wor	ked	Monetary income	Observations
		2= second.		Code (*1)		Code (*2)		Code (*3)		Code (*4)		Code (*5)		Code (*6)	Allivat	
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15															_	



The questionnaire on Family Farming: land issues, coping with land pressure





an		

How much land does this Household owns? (in hectares)	
Are all the hectares in one plot? Yes [] No []	

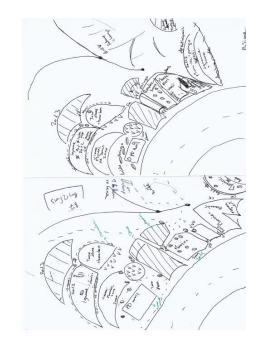
if no how many plots do you have...........and what are the sizes (in hectares) of each plot?

			7.1		The state of the s				1	T
Crop Plot N°	Land Statu (*1)	ıs	Surface	Unit (*2)	How did you acquire that I ? (*3)	land	If rental, price ?	Currency	Uses (*5)	Observations
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										

Have you lost land or reduced garden size in the last 5 years? Yes [] No [] If yes, why has this happened? (tick appropriate box or boxes)

Population increase	· ·
1	
Division of land for inheritance	
Land dispute	
Shortage of labour	
Sale or lease of land for other purposes (specify	
Other (specify)	

Do you	u encounter land pressure issue? Yes [] No []
	If yes, in your own opinion







The questionnaire on Family Farming: equipment, physical asset





Agricultural machinery and equipment

Machinery and equipment used for agricultural, livestock, hunting and fishing activities last year

List first the owned equipment, then the rented equipment

	Name and characteristic	c of	Ţ. '		If owned, purcha	ased		
	materials or equipmen Code (*1)	at	(*2)	If rented, cost	Price purchase	Financing (*4)	If rented : income last year	Observation
1								
2								
3								
4								
5								
6								
7								
8								
9								
10			<i></i>					







The questionnaire on Family Farming: the heart of the questionnaire, measuring the crop production





Crop production last year

Crop	, [Q	uantity of Food	crop h	arvested	Did you sell	art of the Sale for cash duction?			Customary			
Plot N°(*:	Food crop, name Code (*2)	Nbre of plants		Units (*3)	Total KG	production? 0= no / 1=			(%)		Proportion for seeding (%)	Proportion to feed livestock (%)	Observations
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														







The questionnaire on Family Farming: marketing of plant production





Marketing of crop production or processed products last year (Possibility of several marketing methods per production)

П	Production or processed				Vente	25			Principal	
	product concerned Code (*1)	Marketing. (*2)	Quantity	Unit (*3)	Unit Price (*4)	Total Kilos	Prix Kilos	estimated value	constraint to marketing (*5)	Observations
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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17										
18										
19										
20										

















Quantity and Puchase value t Costs Observations Price U(*2) Total Value Seeds 1 (crop: Seeds 2 (crop: Seeds 3 (crop: Seeds 3 (crop: Fertilizer 1 (type : Fertilizer 2 (type: Fertilizer 3 (type : 8 Fertilizer 4 (type: 9 Pesticides 1 (type: 10 Pesticides 2 (type : 11 Pesticides 3 (type : 12 Pesticides 4 (type : 13 Stakes (100) 14 Fuel (101) 15 Electricity/energy (127) 16 Miscellaneous supplies (strings, pouch) (102) 17 Services provided 1; type:

Farming costs last year

18 Services provided 2; type :......
19 Services provided 3; type :.....
21 Various contributions 1; type :
22 Various contributions 1; type :

23 Insurances (110)
24 Other costs 1.....
25 Other costs 2.....
26 Other costs 3.....

(*3) Units. 1=Kg /2=unit /3=packs /4=baskets /5=regime /6=cageot /7=boot /8=tas /9=hand / 10=Leader Price bag /11=25 kg bag / 12=50 kg bag / 13=drum / 14=dumpster /15=Basket / 16=Bucket / 17=Fruit tray / 18=Jar / 19=Sachet / 20=Litre / 21=Bottle / 22=Time / 23=100L tub / 24=Other / 25=Bag / 26=Tons









Livestock Production last year

Do you keep livestock? Yes [] No []

If yes, answer the questions in tables below

Poultry: (if duck, turkey, etc ...: put in "other animals")

		0= no / 1= yes	Total Number Jan n-1	Total Number Déc n-1	Number of Animals Purchased n-1	No. of Animals Received (Offered))	No. of Animals lost animals	Contraints to production (*3)	Observations
F	Freely								
(Chickens of flesh								
ī	Laying hence in henhouse								

Pigs:

	0= no / 1= yes	Total Number Jan n-1	Total Number Déc n-1	Number of Animals Purchased n-1	No. of Animals Received (Offered))	No. of Animals lost animals	Contraints to production (*3)	Observations
Wild Breeding								
Breeding and rearing								
Rearing								

Cattle:

	0= no / 1= yes	Total Number Jan n-1	Total Number Déc n-1	Number of Animals Purchased n-1	No. of Animals Received (Offered))	No. of Animals lost animals	Contraints to production (*3)	Observations
Wild Breeding								
Breeding								
Beeding fattening								
Fattening								

Other animals:

	0= no / 1= yes	Total Number Jan n-1	Total Number Déc n-1	Number of Animals Purchased n-1	No. of Animals Received (Offered))	No. of Animals lost animals	Contraints to production (*3)	Observations
Deer								
Horses								
Goats								
Sheep								
Other, to specify:								

Beekeeping:

0= no / 1= yes	number of hives in dec 2017	Owner of the hives (*1)	Constraints to production (*3)	Observations



Household income

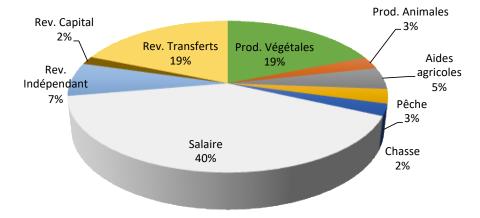
Last year, apart from agriculture, is there other income generating activities (IGA) that your household member(s) engage in? Yes [] No [] If yes, fill in the table below

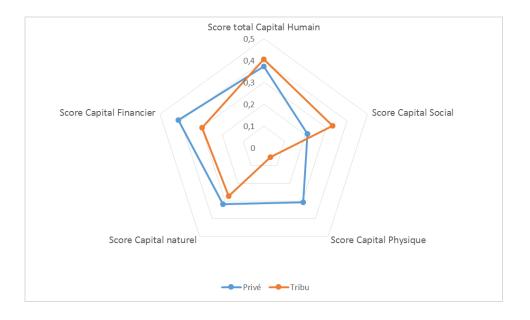
	Num of the active	Describe exactly the status and the economic sector,							Annual Monetary income			
	person	indicate the type of contract	Code (*1)	Code (*2)	Code (*3)	Working time	Code (*5)	Code (*6)			Observations	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
18												





Revenus totaux (monétaires et non monétaires) 5,84 millions FCFP











Social assistance, other income and taxes

Social assistance, other income and taxes

Within the household, was there any social income in 2018? Note the amount

Г	Num.		Annual income											
	pers.	Famil	Education Allowance (scholarship) Elderl				derly sup	port	Observations					
		Monthly Amount	Nbr months	Total annual	Monthly Amount	Nbr months	Total annual	Monthly Amount	Nbr months	Total annual	Monthly Amount	Nbr months	Total annual	
1														
2														
3														
4														
5														
П	Num.	Inva	lidity per	ision	I	Retiremer	nt	Unemployement School Allowance					lowance	Observations
Н	pers.		Nbr			. Nbr	Т		37	- 1				
Ш		Monthly Amount	months	Total annual	Monthly Amoun	months	Total annual	Monthly Amou	mt mon		ıal	Total a	nnual	
1														
2														
3													•	
4														
5														

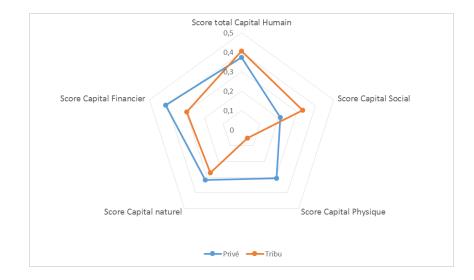
Did any members of the household receive last year? Note the estimated amount

	Nu m pers	Pension alimentair e	Property income	Land incomer	Inhéritance (monetary)	Gambling winnings	Insurance payment	Damage and interest	Loan repayment	Money from sale of property	Money from family	Money from outside the family	Exceptional customs (wedding)	Observations
1														
2														
3														
4														
5														

How much income tax did you pay in last year? (FCFP): I_____I



Source: https://blogs.worldbank.org/eastasiapacific/labor-mobility-and-remittances-pacific-during-covid-19

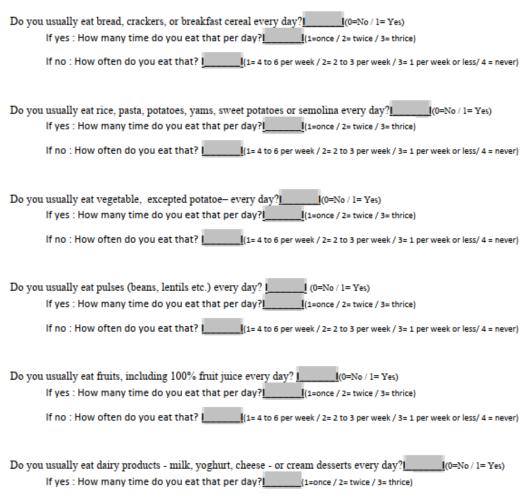


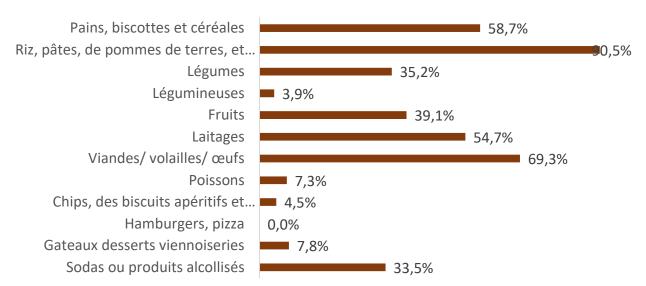


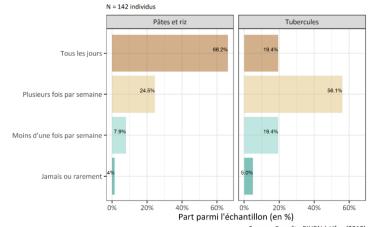




Consumption approaches





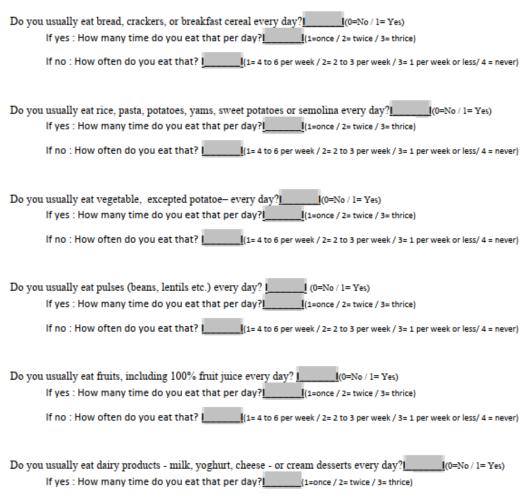


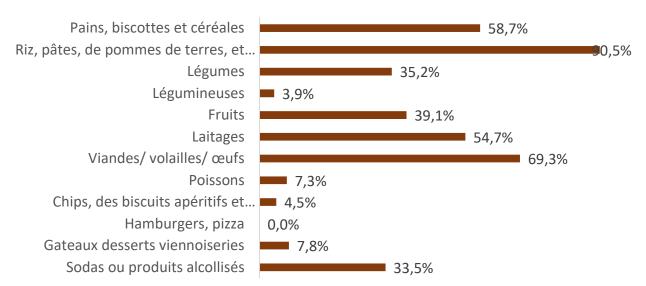


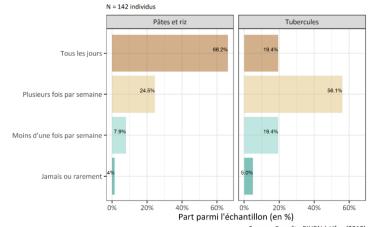




Consumption approaches









Tools, methods and metricsTools and Data management





- To avoid these kinds of issues, permit database construction and standardization, we will use the Redcap software for Data collection.
- Permit offline data collection on phones/tablets and improve data sharing.
- Adaptations (at the margin) of questionnaires for the different countries.
- We plan to provide a training on this tool for everybody in March 2023.

Tablets

Digital questionnaires / survey

- ✓ Descriptive & Health outcome variables
- √ Family farming and livelihoods
- √ Physical activity
- ✓ Etc.



RESEARCHER INTERFACE

- Research Database Access (Log in)
- 2. eCohorte Database
- 3. Participant inclusion (UUID)
- 4. Participant recorded
- 5. Participant consent
- 6. Participant follow-up
- 7. Online dashboard
- 8. Attachment file
- Online data export and analysis











3. Markets surveys: what are the place and role of market in the family farming/food nexus?





What place for markets in livelihoods & food security, how markets do they link rural and urban area and contribute to the food system of Pacific Islands?

- In Solomon Islands, opportunity to reuse data that already exists (Georgeou et al., 2020):
 - Market surveys
 - post harvest data ACIAR
- In Fiji, does the data already exist?
- In Vanuatu: PhD student Adeline Mweleul on the markets of Port Vila and looking for data already available?
- In NC, several qualitative stules and data on Loyalty Islands that show the strong embeddedness of market within social networks (Bouard & al., 2020)









4. Qualitative studies





- Qualitatives studies lead by researchers in their initial/long term research field on Family Farming,
 perceptions of climate change and impacts on Family farming and livelihoods, fisheries
 - CLIPSSA (Pacific Climate, local knowledge & adaptation strategies) in Vanuatu & NC
 - Maybe RESICO "Biodiversity conservation to strengthen the resilience of rural communities in the Loyalty Islands and Vanuatu"
 - → Studies in Loyalty islands and Vanuatu on the place/role model of women in farm work and food habits
 - → Participatory mapping on land uses
 - Other qualitatives studies: with other methodological tools as children drawing, anthropological studies

Illustration from Arno Pascht



5. Collecting national & regional data to understand the context, public policies & donor's strategies (2) Séverine Blaise (UNC)





- World Development Indicators
 - Human Development Index
 - Rate of openess
 - Fertilizer consumption (kilograms per hectare of arable land)
- FAO data:
 - Food security indicator (*Food Import Capability Index*: food imports as a % of total exports)
- ODA statistics (OECD DAC / Lowi Institute Pacific Aid database):
 - Aid to agriculture, forestry and fishing (percentage of total aid), by donor and by recipient
 - Food assistance



5. Collecting national & regional data to understand the context, public policies & donor's strategies (3)





Dataset: GeoBook: Geographical flows to developing countries

Who gives aid?

nows to developing countries							
Series T	otal ODA I	<u>Net</u>					
Year 2	019						
Unit U	S Dollar, I	Millions					
Recipient	Fiji		Solomon I	slands	Vanuat	tu	
Donor		% of total		% of total		% of total	
Official Donors, Total	139,07	-	223,89		130,59		
DAC Countries, Total	82,83		176,27	78,73		58,06	
Australia	41,54		119,61	53,42		32,74	
Austria	0,00			,		•	
Canada	0,37	0,3	0,30	0,13	0,59	0,45	
Finland					0,02	0,02	
France	0,36	0,3	0,02	0,01	3,22	2,47	
Germany	1,72	1,2	0,40	0,18			
Hungary	0,01	0,0					
Iceland	0,01	0,0					
Italy			0,38	0,17	0,31	0,24	
Japan	10,49	7,5	8,15	3,64	7,10	5,44	
Korea	6,35	4,6	2,74	1,22	0,23	0,18	
New Zealand	14,81	10,6	22,21	9,92	17,21	13,18	
Spain			••		0,01	0,01	
Sweden	-0,11	-0,1	0,05	0,02	0,05	0,04	
Switzerland	0,07	0,1	0,01	0,00	0,09	0,07	
United Kingdom	4,38	3,1	1,02	0,46	1,85	1,42	
United States	2,83	2,0	21,38	9,55	2,39	1,83	



5. Collecting national & regional data to understand the context, public policies & donor's strategies (4)





Who	gives	aid?
	(11)	

Recipient Fiji		Solomon Is	Jianias	Vanua	Ju
Dames:	0/ -64-4-1		% of		% of
	% of total	47.50	total	E / 40	total
Multilaterals, Total 55,98 EU Institutions 11.66	40,3		21,26	54,48	,
,	8,4	11,89	5,31		2,02
Asian Development Bank, Total 0,95	0,7	4,42	1,97	9,45	-
United Nations, Total 23,88	17,2	4,70	2,10	1,14	0,87
Food and Agriculture Organisation [FAO] 0,25 International Atomic Energy Agency [IAEA]	0,2	0,19	0,08	0,04	0,03
O,20	0,1			0.12	0,09
IFAD	0, 1	-0,08		0,12	0,00
International Labour Organisation [ILO] 0,48	0,3	0,01	0,00	0,00	0,00
UNAIDS 0,19	0,1	.,	-,	.,	- ,
UNDP 1,27	0,9	0,75	0,33		
UNICEF 20,38	14,7		,		
UN Peacebuilding Fund [UNPBF]	,	2,40	1,07		
World Health Organisation [WHO] 1,11	0,8	1,43	0,64	0,98	0,75
World Bank Group, Total		9,50	4,24	38,61	29,57
Other Multilateral, Total 19,49	14,0	17,08	7,63	2,64	2,02
Climate Investment Funds [CIF]		4,33	1,93	0,35	0,27
Global Alliance for Vaccines and Immunization					
		2,14	0,96		
Global Environment Facility [GEF] 2,05	1,5	0,02	0,01	0,03	0,02
Global Fund -0,07	-0,1	2,59	1,16		
Global Green Growth Institute [GGGI] 0,37	0,3			0,15	0,11
Green Climate Fund [GCF] 17,14	12,3	8,00	3,57	2,11	1,62
Non-DAC Countries, Total 0,26	0,2	0,03	0,01	0,29	0,22
Private Donors, Total 0,31	0,2	0,13	0,06		
Bill & Melinda Gates Foundation 0,10	0,1				
Charity Projects Ltd (Comic Relief)		0,13	0,06		
John D. & Catherine T. MacArthur Foundation 0,21	0,2				

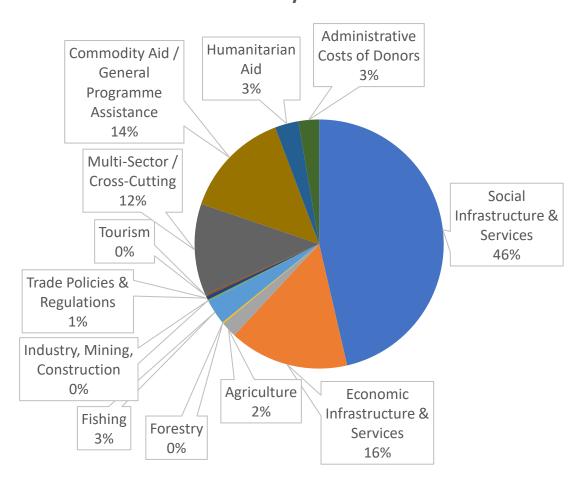


5. Collecting national & regional data to understand the context, public policies & donor's strategies (5)





ODA to Oceania by sector in 2020





5. Collecting national & regional data to understand the context, public policies & donor's strategies (6)





Composition of aid flows in the sector of agriculture....

First recipients:

- 1) Agricultural research
- 2) Agricultural development
- 3) Plan and post-harvest protection and pest control

ODA gross disbursments, in 2020 (constants US\$)	Vanutatu	Solomon I.	Fiji
Agriculture, Forestry, Fishing, Total	3,976	8,140	5,174
Agriculture, Total	2,823	2,085	4,122
Agricultural policy and administrative management	0,002	0,322	0,030
Agricultural development	0,095		1,358
Agricultural land resources			
Agricultural water resources			
Food crop production		0,005	0,311
Industrial crops/export crops	0,182		
Livestock			0,001
Agricultural extension	0,236		
Agricultural education/training			0,145
Agricultural research	1,524	0,938	2,277
Agricultural services	0,172	0,047	
Plant and post-harvest protection and pest control	0,604	0,774	
Agricultural co-operatives	0,009		
Livestock/veterinary services			
Forestry, Total	0,147	1,150	0,014
Forestry policy and administrative management	0,020	0,525	0,014
Forestry development	0,128	0,160	
Forestry research			
Forestry services		0,465	
Fishing, Total	1,005	4,904	1,038
Fishing policy and administrative management	0,973	2,377	0,403
Fishery development	0,032	2,508	0,610
Fishery education/training		0,005	0,013
Fishery research		0,014	
Fishery services			0,012

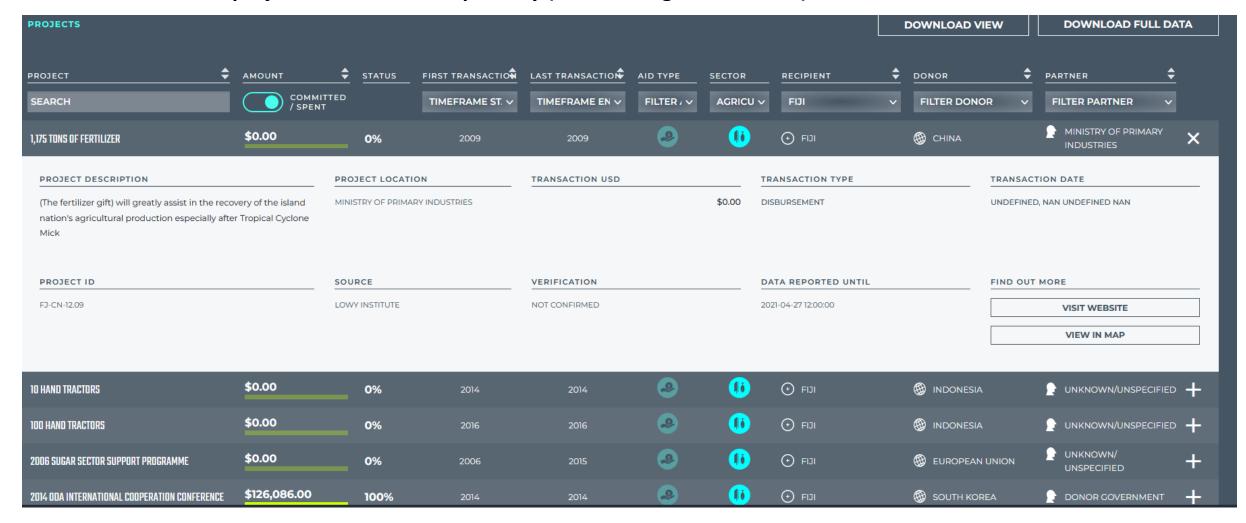


5. Collecting national & regional data to understand the context, public policies & donor's strategies (7)





Detailed aid projects: a lack of transparency (conf. Stronge et al., 2020)





Needs & Adaptations?





- We need data on agriculture, vegetal production to estimate quantities to have a link between FF and food habits, global household income
- Need to collect data that already exist and that is already available (ACIAR, WB, SPC, etc.)
- Data adapted to Livelihood approach for international comparison
- → If we create or own data we need surveyors, students and fieldwork
 - → Trainings: the guide for interviewer, simulations and training sessions for digital tools but also to acquire good habits for asking questions (first session in March 2023)
 - → Surveyors: local students, internships, etc.
 - → The need for other projects that can found surveyors and training sessions
- → If we collect data that already exist I need to negociate access



Diversity of surveys, tools and data needed for FALAH: we have to list all the projects and try to classify them on Miro?

of FF with Aid Policies

Collecting data and analysis on the place





24h - RECALL

Young children perspectives project

SPAR

Household Surveys

Markets surveys

Qualitatives studies changes in FF and livelihoods (CLIPSSA, RESICO, Individual research, etc.)

Qualitatives studies/explorations on the place of Women in farming work, and food habits

Children drawings on family farming and Fisheries

	Each	participant is alloca	ted an ID number -	Data in th	ne platform are de identified	
Theme	Level of observation	Variables	Tools	Methods	Units	Time of observation
	Members of the household	Farming-related activities of each member	Questionnaire/interview	mixed	N/A	
		Land use/cultivated area	Questionnaire	Quantitative	sq meters or acre	
		Agricultural equipment, fishing gear	Questionnaire	Quantitative	local currency & USD	1- Data collected at
Family farming and livelihoods	Household	Crop, Livestock production, tisheries, hunting	Questionnaire	Quantitative	kg	home in the family; 2- time scale: one day
livelinoods	Household	Destination (auto- consumption, gift, sell)	Questionnaire	Quantitative	local currency & USD, kg	per year
		Crop production, livestock, hunting and fishing costs	Questionnaire	Quantitative	local currency & USD, kg	
		Monetary incomes	Questionnaire	Quantitative	local currency & USD	
		Diet & nutrition	24hr dietary intake survey (Digital)	Mixed	Categories, % of diet, mg, g, calories	1- Data collected at
	Members of the household	Diet & nutrition	Food Frequency Questionnaire	quantitative	portions, unit/week	home in the family ;
Nutrition		Assessment of processed food consumed	NOVA classification	Mixed	% in each NOVA category	2- time scale is of one day (can be repeated
	Household	Number and time of meals	Questionnaire	Quantitatif	number of occurrence	over the year)
	Community	Food environement (shops selling food)	Questionnaire/existing database	Quantitatif	NOVA classification for food available in shops	
Physical activity	Members of the household	Physical activity (Type of activities, mode of transportation etc) and sleep	Questionnaires, Wrist Accelerometry, heart rate sensors and GPS	Mixed	Nature of activities, duration (min), frequency, time (min/day), Heart rate variability (day), Distance (m or km/day) and area of daily activities (m2/day)", sleep duration (hr) and quality	Data collected at community level, Time scale if one year"
	Household	Physical activity equipment	Questionnaire / interview	Qualitative	Number and nature of equipment	
	Community	Land use	Questionnaire / interview	Mixed	Equipment / natural and built environement with regards to physical activity	
		Descriptive variables: Age, gender, education, occupation	Questionnaire/interview	mixed	year, N/A	
Descriptive	Members of the	Health questionnaire	Questionnaire	Qualitative	N/A	1- Data collected at
variables & Health outcome variables	household	Body composition	Bioimpedancemetry/scale	Quantitative	Kg, Body Fat %, Total Body Water %, Muscle Mass, Physique Rating, Bone Mineral Mass, Basal Metabolic Rate, Metabolic Age, Body Mass Index, Visceral Fat	home in the family 2-time scale: day of measure
		Body height	Height gauge/ruler	Quantitative	cm	1
		Well being	Well being index	Quantitative	index	
		Waist	Measuring tape	Quantitative	cm	ĺ

Strenghts & weaknesses in FF





PART 2

Diversity of surveys, tools and data needed for FALAH: looking for global but complete view and building protocols

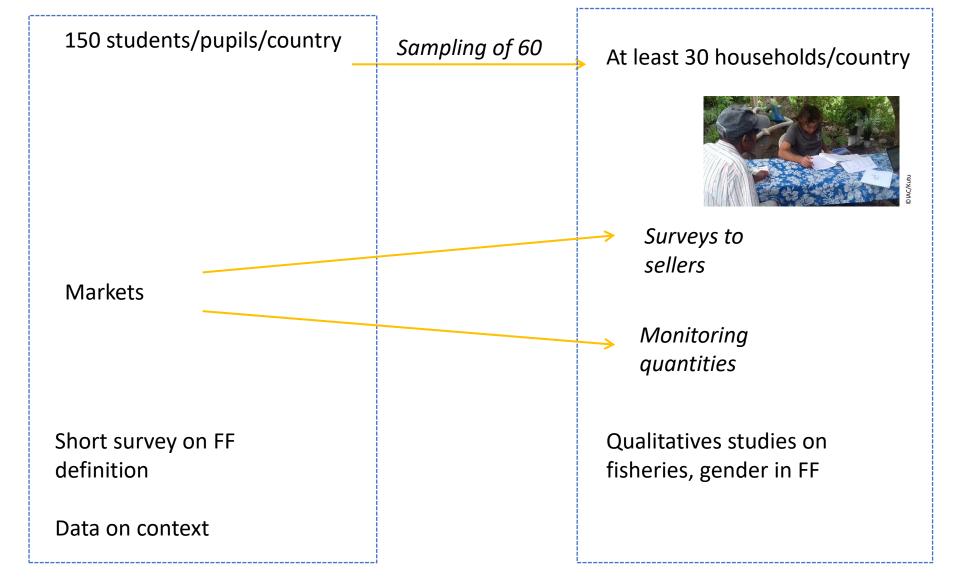
We have to list all the projects and try to classify them on Miro?



Protocols









Protocols





For Family farming

- From students/school surveys
- Sampling at least 30 families/households per country, (60 households with objective of 30 households surveyed).

For markets



















Food & Agriculture Workshop

21st to 25th of November 2022

University of Sydney, Australia

PACIFIC ISLANDS UNIVERSITIES RESEARCH NEWORK & Grant proposals



Mathilde Souchon PIURN Coordinator

Disclaimer: the views expressed in this presentation are purely those of the author and may not in any circumstances be regarded as stating an official position of the Research Executive Agency







Founded in 2013, the network aims to enable closer collaboration among researchers while addressing social priorities, economic growth and environmental challenges in the Pacific Region.

University of New Caledonia and the University of the South Pacific are the co-chairs of the network.

PIURN brings together 14 Members Universities of Pacific Islands Countries and Territories.

PIURN is labelled by the United Nations as a Sustainable Development Goal's Action: #SDGAction39993

PIURN has identified four strategic research themes:

- Food security, Nutrition, Health and Non-Communicable Diseases
- Climate change and Biodiversity
- Capacity building, Data and Statistics
- Social Development, Gender Equality and Education



































The network hosts a biannual Conference. These conferences highlight the work of the Pacific researchers, showcase the PIURN projects and establish new collaborations. The Solomon Islands National University hosted virtually the 4th PIURN Conference, in 2021, exploring the theme of "Shaping our Tomorrow Today: Research, Innovation and Practice in the Pacific".

The 5th PIURN Conference will be hosted by the USP Cook Islands Campus, 4-5-6 July 2023.









4 PIURN Universities are members of the FALAH Consortium

- University of New Caledonia
- The University of the South Pacific
- National University of Vanuatu
- Solomon Islands National University









2 PIURN Universities from Papua New Guinea have joined the FALAH dynamic, thanks to a successful call for projects from the **Pacific Fund** (French Ministry of Foreign Affairs)

- Divine Word University
- University of Goroka













RERIPA Call 3: Living Labs for Innovative Solutions to Address Climate Change Impacts

https://www.pidf.int/reripa-call-3-living-labs-for-innovative-solutions-to-address-climate-change-impacts/



Objective: Create Living Labs (multidisciplinary regional public/private consortia) to address the Impact of Climate Change (CCI) in the Pacific SIDS, through innovative and sustainable user-centred solutions founded on research based evidence, with a focus on:

- Coastal Vulnerability
- Lagoon and Ocean Health
- Sea level rise

Budget: Between 300 000 and 350 000 euros – Can finance Human Resources, Travel, Equipment's & Supplies, Local Office and Other costs and services.

Deadline for the Expression of Interest : 9th of December







RERIPA Call 3: Living Labs for Innovative Solutions to Address Climate Change Impacts



Criteria of Eligibility:

Applicants (legal entities) from the following ACP Countries are eligible to apply as **Lead Applicant or Co-Applicants**: Cook Islands, East Timor, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

Australia and New Caledonia are not eligible to receive funding but can participate to the proposal as Collaborators.

Consortium must have at least 3 Applicants.

Lead applicant: the organization has to demonstrate that it has managed at least 2 R&I granted projects of <u>at least 75 000</u> <u>euros each</u>, between 2017 and 2021







RERIPA Call 3: Living Labs for Innovative Solutions to Address Climate Change Impacts



FALAH RERIPA CALL 3 Proposal

Lead Applicant: Ministry of Education and Training Vanuatu

Co-Applicants: The University of the South Pacific, Solomon Islands National University, National University of

Vanuatu, NGO in Vanuatu

Collaborators: University of New Caledonia, others....

Objective: Work closely with the **communities** subjects **to coastal vulnerability and sea-level rise** (flooding), due to Climate Change Impacts, on **family farming, diet, and health**, in Fiji, New Caledonia, Vanuatu and Solomon Islands







Asia-Pacific Network for Global Change Research (APN)



Call for Proposals 2022 - Pacific

- Displacement, relocation, food security and water security using global knowledge and/or traditional and local knowledge;
- Adaptation and disaster risk reduction in the context of global knowledge and/or traditional and local knowledge;
- Climate change and climate variability and their related impacts in national and regional contexts, including
 projections/downscaling; remote sensing; extreme events; Asia-Pacific Climate Change Adaptation Platform (AP-PLAT); knowledge/technology transfer; etc.;
- Global change and its impacts on marine ecosystems and livelihoods in the Pacific, including the impacts of microplastics on fisheries and food security; marine plastic debris; conservation and protection; impacts of ocean warming, ocean acidification, harmful algal blooms on food security; etc.







Asia-Pacific Network for Global Change Research (APN)



Eligibility:

Researchers, academics, practitioners working in institutions based in APN member countries and approved countries are eligible to apply for APN grants. Details of eligibility criteria are outlined in the Guide for Proponents attached in the APNIS supporting documentation.

https://www.apn-gcr.org/apnis/public/calls/25

Deadline: Sunday, 4th of December 2022

Costs NOT supported:

The running costs of institutions; **the salaries** of administrative staff; the salaries of researchers who receive or are to receive full-time salary support; the salaries of consultants (project leaders and collaborators should have the expertise to conduct the activities); the maintenance of long-term observation and monitoring systems; and **general purpose equipment** such as personal computers, laptops, smartphones, tablets or fixed office structures (desks, chairs, etc).







MOPGA 2023: VISITING FELLOWSHIP PROGRAM FOR YOUNG RESEARCHERS



This sixth Make Our Planet Great Again (MOPGA) call for applications is intended to welcome **40 young researchers** wishing to carry out their research in France. The program is funded by the French Ministry for Europe and Foreign Affairs, in collaboration with the French Ministry for Higher Education and Research, and implemented by Campus France.

Five broad Research Themes are eligible:

- Earth systems
- Climate change and sustainability
- Energy transition
- Societal challenges of environmental issues
- Human, animal and ecosystem health as part as a "One Health" approach.

/www.campusfrance.org/en/mopga-2023







MOPGA 2023: VISITING FELLOWSHIP PROGRAM FOR YOUNG RESEARCHERS



Criteria of eligibility:

Foreign researchers holding a **doctoral degree for less than 5 years** and no nationality restrictions (except France) **40 fellowships** will be awarded for a **12-month period** from September 2023.

This fellowship includes the following benefits:

- Monthly allowance of 2,500 euros
- Moving allowance of 500 euros
- Support for social security coverage and for health insurance

Timeline

Deadline: 16 Jan 2023 23:59 (CET)

End of June 2023: Notification of the results

Between September 2023 and December 2023 (at the latest): Arrival in France and start of the fellowship

Apply here: https://campusfrance.smapply.io/prog/MOPGA-2023.







Marie Skłodowska-Curie Actions (MSCA) Postdoctoral Fellowships 2023

Objective:

The objective of PFs is to support researchers' careers and foster excellence in research. The Postdoctoral Fellowships action targets researchers holding a PhD who wish to carry out their research activities abroad, acquire new skills and develop their careers.

European Postdoctoral Fellowships: They are open to researchers moving within Europe or coming to Europe from another part of the world to pursue their research career. These fellowships take place in an EU Member State or Horizon Europe Associated Country and can last between 1 and 2 years. **Researchers of any nationality can apply.**

Criteria of Eligibility:

- Should have a PhD degree at the time of the deadline for applications. Applicants who have successfully defended their doctoral thesis but who have not yet formally been awarded the doctoral degree will also be considered eligible to apply
- Must have a maximum of eight years experience in research, from the date of the award of their PhD degree.

The Call is not published yet. More information on:

https://marie-sklodowska-curie-actions.ec.europa.eu/actions/how-to-apply













Food & Agriculture Workshop

21st to 25th of November 2022 University of Sydney, Australia

Family farming practices, lifestyles and health in the Pacific WP3

Dr Olivier Galy
Dr Juliana Chen
Pr Corinne Caillaud



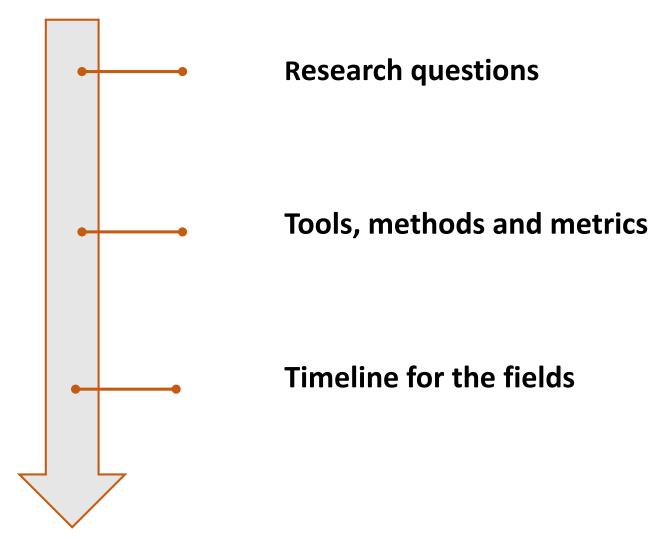
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Summary









WP 3, WP4 and research questions





-Reminder-

WP2

- 2.1 Gather and summarize knowledge on cropping practices, consumption, innovation and the dynamics of family farming
- 2.2 Improve understanding of how family farming functions through ecological, economic, sociological and spatial dimensions and how it adapts to the environment

WP3

- 3.1 Examine the effects of family farming on lifestyle and its impact on the health and well-being
- 3.2 Explore diet and physical activity in families practicing family farming
- 3.3 Analyze inter-generational benefit on family farming lifestyle

WP4

- 4.1 Compare traditional family farming practices, its adaptation to the environment and identify best practices to disseminate
- 4.2 Examine the role of school in promoting food education, physical activity, and changing dietary habits
- 4.3 Share new knowledge to develop sustainable intervention strategies that can help people from other regions
- 4.4 Accumulate, cross and share traditional and scientific knowledge on small-scale farming and eating habits to establish production and consumption strategies adapted to the socio-cultural context.



What is lifestyle? Epistemology -Reminder-



WP3

Lifestyle

Lifestyle of a person can be understood as the combination of **daily physical activity, diet and sleep behaviors** that are influenced by social, spatial and temporal components in which the person lives

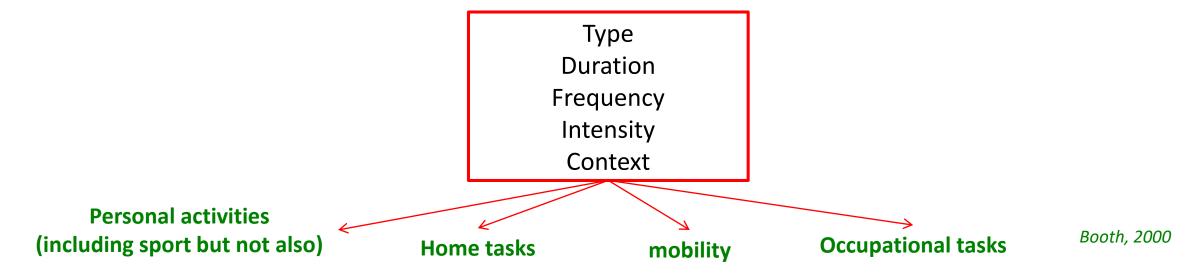


What is lifestyle? Physical activity -Reminder-





WHO defines **physical activity** as any bodily movement produced by skeletal muscles that requires energy expenditure. Physical activity refers to all movement including during leisure time, for transport to get to and from places, or as part of a person's work. Both moderate- and vigorous-intensity physical activity improve health.





What is lifestyle? Diet -Reminder-



Diets comprise the individual foods that a person consumes and dietary patterns are the quantities, proportions, and combinations of different foods and beverages in diets and the frequency of how they are habitually consumed (Hu, 2002)

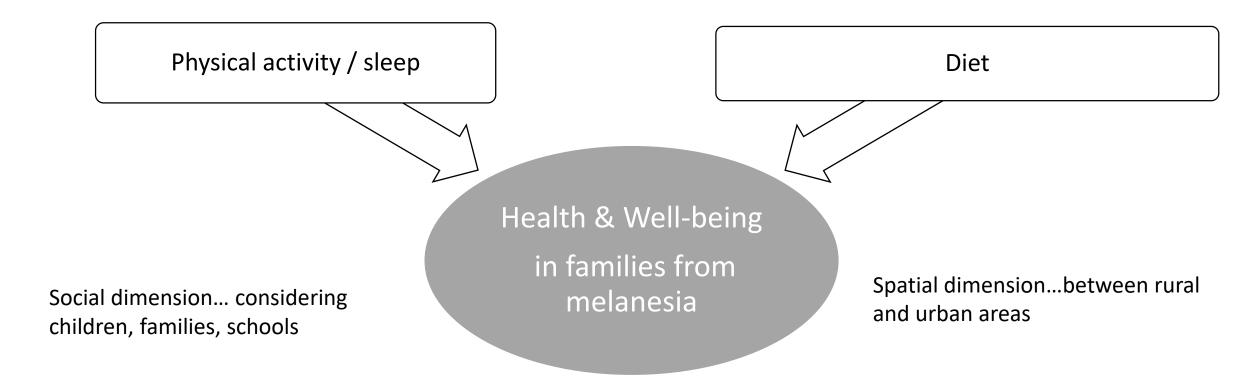




What are the effects of family farming on health and well-being?

Understand individual lifestyle in melanesia

Inter-generational benefits



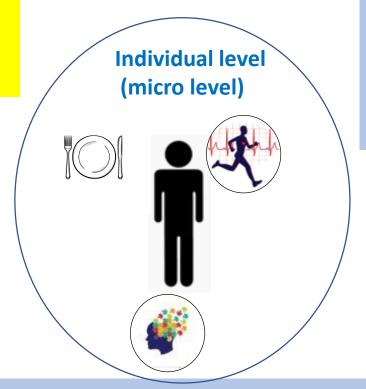
Temporal dimension ...across generations



What are the effects of family farming on health and well-being?

NUTRITION/DIET

- -Food intake (Irecall24 Pacific)&/or
- -Food frequency (?)



PHYSICAL ACTIVITY

- -Measuring Physical activity (accelerometry): intensity, inactivity and temporality of the day/night
- -Sleep
- -Physical fitness



Qualitative approach

- Individual interviews
- -focus group

SPATIAL DIMENSIONS

Socio professional categories Ethnic identity



HEALTH AND WELL-BEING

Anthropometry (Eight, Weight, Waist, Bioimpedencemetry, Tanner) SATAQ (satisfaction questionnaire)

Body perception

Body image (Pendersen)

Well being index

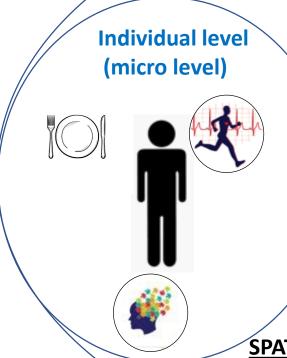
Perception on biological sample





What are the effects of family farming on health and well-being?





PHYSICAL ACTIVITY

-Barriers and facilitators to PA

NUTRITION/DIET

- -Food environment
- -Map food store
- -Inlfuence of medias on diet

SOCIAL DIMENSIONS

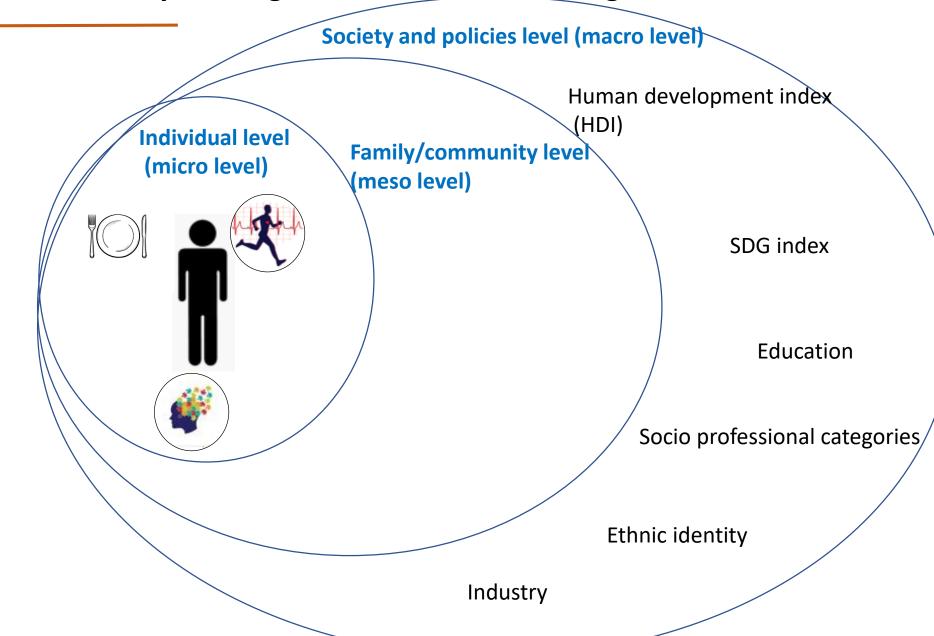
- -Friends,
- -Family,
- -religion,
- -culture

SPATIAL DIMENSIONS

Place of living
Accessibility of food, of a place for
PA, mobilities (to go to the garden)



What are the effects of family farming on health and well-being?





Tools, methods and metricsTools and Data management

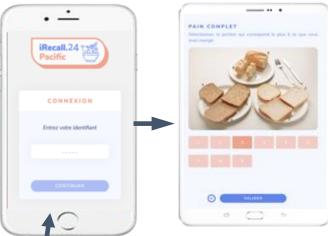


Tablets

Digital questionnaires / survey

- ✓ Descriptive & Health outcome variables
- ✓ Family farming and livelihoods
- ✓ Physical activity
- ✓ Etc.

iRecall 24 App



RESEARCHER INTERFACE

- 1. Research Database Access (Log in)
- 2. eCohorte Database
- 3. Participant inclusion (UUID)
- 4. Participant recorded
- 5. Participant consent
- 6. Participant follow-up
- 7. Online dashboard
- 8. Attachment file
- 9. Online data export and analysis



Google Play

App Store



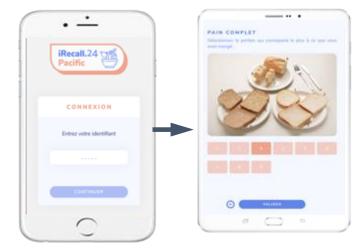
Tools, methods and metricsFor Diet

iRecall 24 App













Tools, methods and metricsFor Physical activity







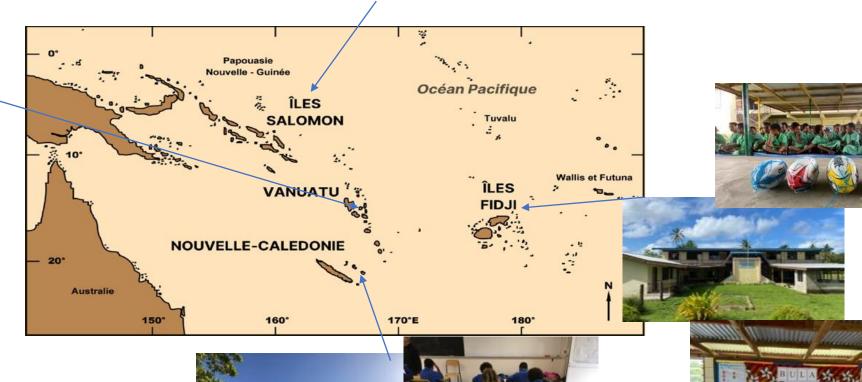


VANUATU (3 JUNE -3 July 2023) SOLOMON ISLANDS (SEPT 2023)

FIJI (to be determined) NC (2022, 2023) PNG (to be det.)

















Thank you for your attention



Research articles here



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 873185



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Food & Agriculture Workshop

21st to 25th of November 2022 University of Sydney, Australia

Food Systems:

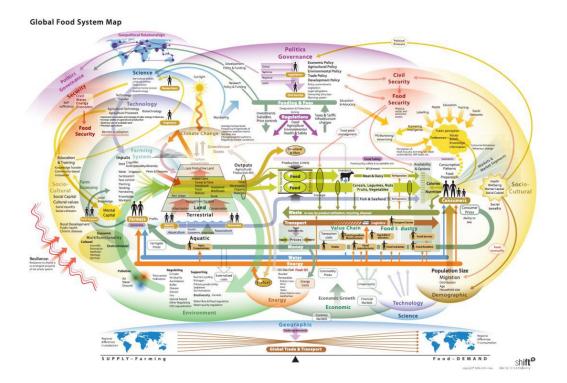
Definition, Importance, Challenges & Solutions

David Raubenheimer (USYD)
Olivier Galy (UNC)

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Definition







Food Systems – Definition, Concept and Application for the UN Food Systems Summit

Joachim von Braun*, Kaosar Afsana**, Louise O. Fresco**, Mohamed Hassan**, Maximo Torero***

A paper from the Scientific Group of the UN Food Systems Summit

March 5, 2021¹

A General Food Systems Concept

Food systems embrace the entire range of actors and their interlinked value-adding activities involved in the production, aggregation, processing, distribution, consumption, and disposal (loss or waste) of food products that originate from agriculture (incl. livestock), forestry, fisheries, and food industries, and the broader economic, societal, and natural environments in which they are embedded.

A sustainable food system is one that contributes to food security and nutrition for all in such a way that the economic, social, cultural, and environmental bases to generate food security and nutrition for future generations are safeguarded.



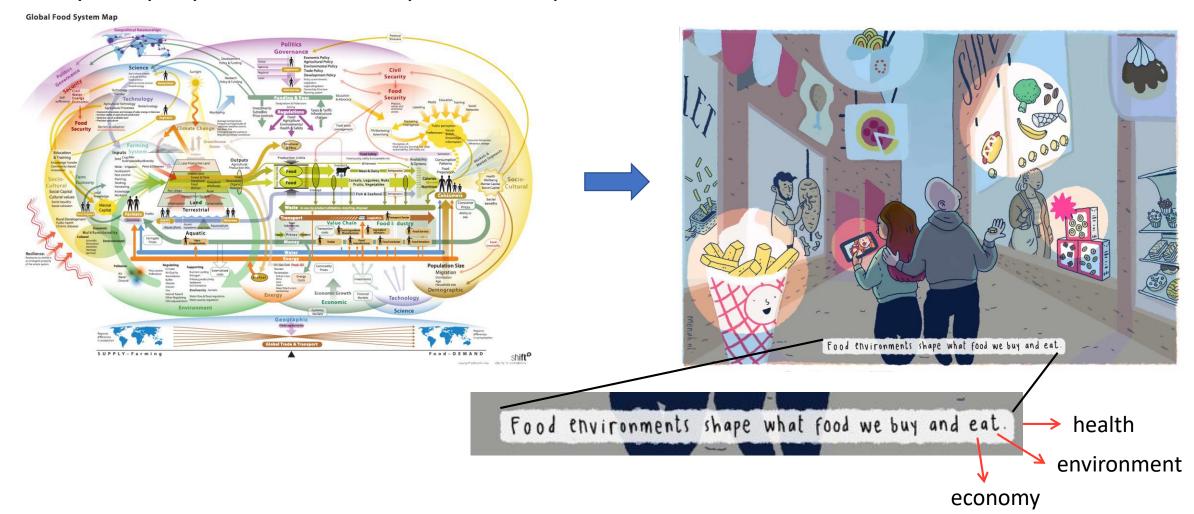
Importance





i. Food environments

Food system perspective links with important concepts





Importance

i. Food environments

More formally

Concept Paper

Food Environment Typology: Advancing an Expanded Definition, Framework, and Methodological Approach for Improved Characterization of Wild, Cultivated, and Built Food Environments toward Sustainable Diets

Shauna M. Downs ¹, Selena Ahmed ²,* D, Jessica Fanzo ³ and Anna Herforth ⁴

We thus defined the food environment

as: the consumer interface with the food system that encompasses the availability, affordability, convenience, and desirability of foods [57].

The food environment is a critical place in the food system to implement interventions to support sustainable diets and address the global syndemic of obesity, undernutrition, and climate change, because it contains the total scope of options within which consumers make decisions about which foods to acquire and consume.









Importance





ii. Nutrition transitions

NT are a form of food systems transition

Over the past 50 years, food systems worldwide have shifted from predominantly rural to industrialized and consolidated systems, with impacts on diets, nutrition and health, livelihoods, and environmental sustainability.

Global food systems transitions have enabled affordable diets but had less favourable outcomes for nutrition, environmental health, inclusion and equity

Ramya Ambikapathi ¹¹

Kate R. Schneider², Benjamin Davis³, Mario Herrero ¹

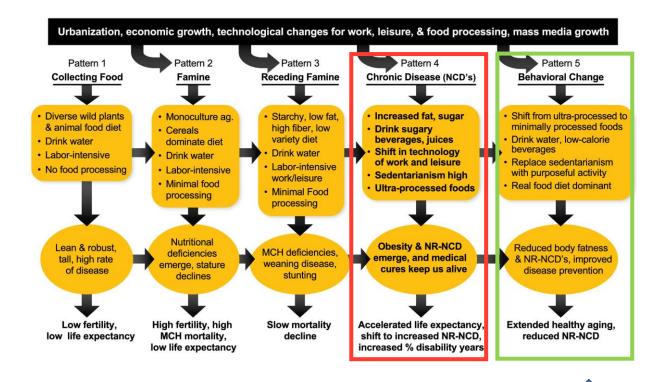
Apaul Winters⁵ and Jessica C. Fanzo ¹

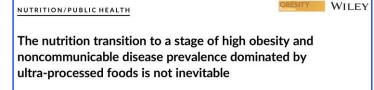
Jessica C. Fanzo ¹

Ramya Ambikapathi ¹

Ramya Ambikapa

- Nutrition transitions are:
 - i. not new
 - ii. currently the most important global health challenge
 - iii. not necessarily bad
 - iv. they need to be actively managed for positive outcomes





Barry M. Popkin [9] | Shu Wen Ng [9]







i. Powerful drivers

Nutrition transitions are strongly associated with economic transitions

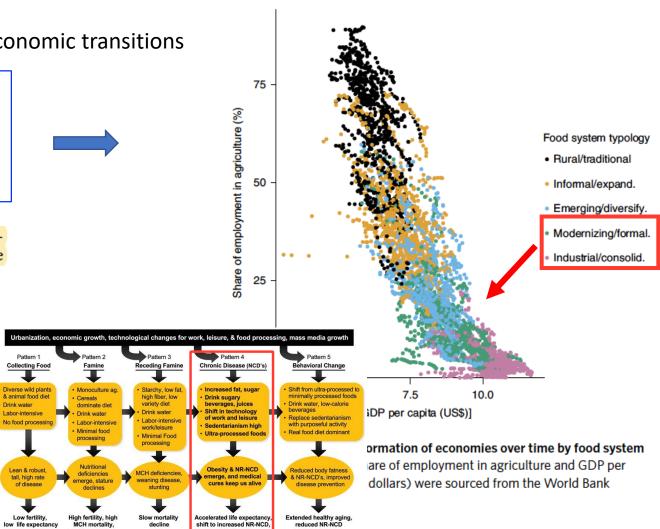
Global food systems transitions have enabled affordable diets but had less favourable outcomes for nutrition, environmental health, inclusion and equity

Ramya Ambikapathi ¹², Kate R. Schneider², Benjamin Davis³, Mario Herrero ⁴, Paul Winters⁵ and Jessica C. Fanzo ^{26,7}

Figure 4 shows the established pattern of structural transformation in which the share of the population employed in agriculture declines with GDP.

- the cause

Higher incomes increase demands for goods and services^{45,46}. Convenience takes greater importance in food preferences as wage workers have less time, creating demand for convenient retail (supermarkets) and for processed and prepared foods^{43,47,48}.



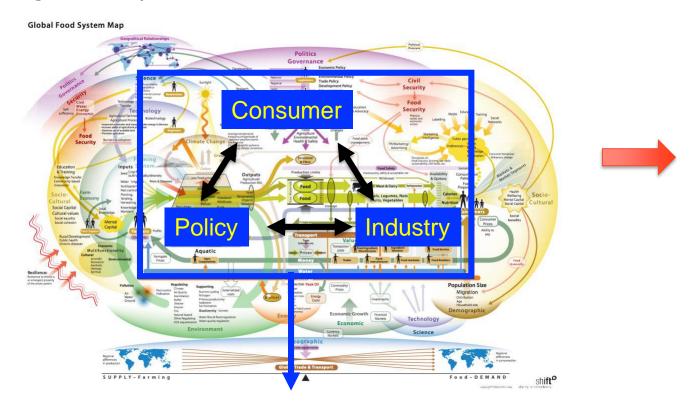




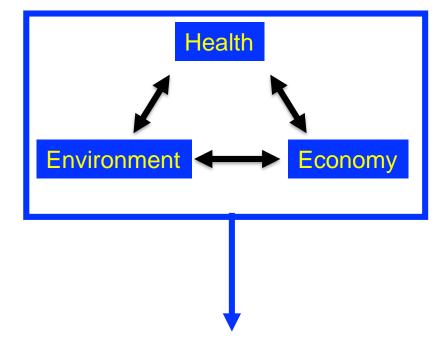


ii. Interacting drivers, competing outcomes

• Nutrition transitions are driven by *interactions* among the components



 And give rise to competing outcomes



ii. these interactions are *Complex*

i. must deal with *Trade-offs*





Within systems theory, a



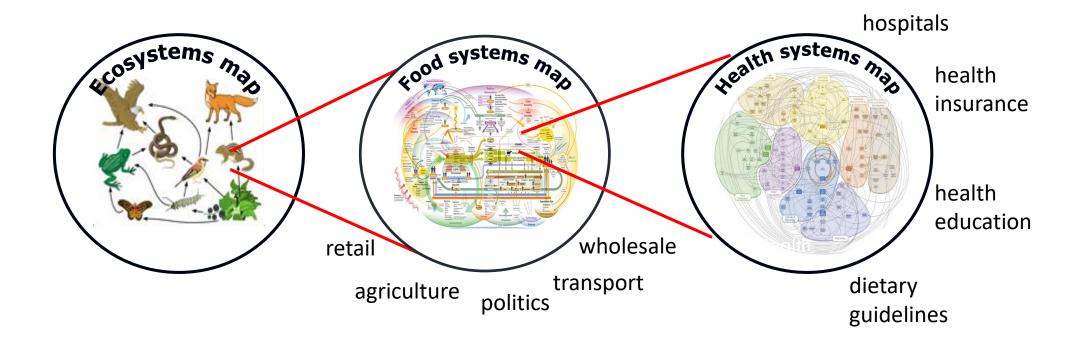
iii. Non-linear dynamics

The Importance of a Food Systems
Approach to Low and Middle Income
Countries and Emerging Economies:
A Review of Theories and Its
Relevance for Disease Control and
Malnutrition

Pablo Alarcon 1*, Paula Dominguez-Salas 2,3, Eric M. Fèvre 3,4* and Jonathan Rushton



food system can be considered as a complex system (Mesarovic and Takahara, 2009), as each of its components can be classified as a system on its own.







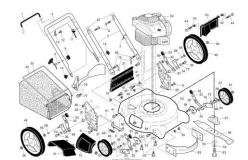


iii. Non-linear dynamics

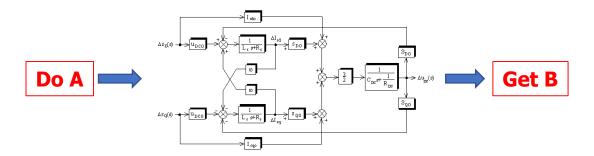
Non-linear systems are very different from "linear" systems

LINEAR:

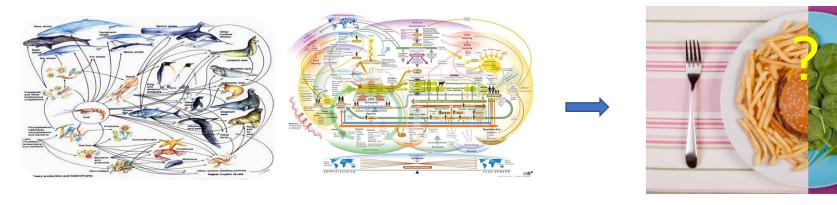
- clearly defined components



- that interact in simple and predictable ways



NON-LINEAR:



- the system is a *dynamic process*

- interactions of parts both shape and are shaped by the system

- outcomes of interventions can be nonintuitive and hard to predict



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GOOD INTENTIONS

BAD OUTCOMES



iii. Non-linear dynamics

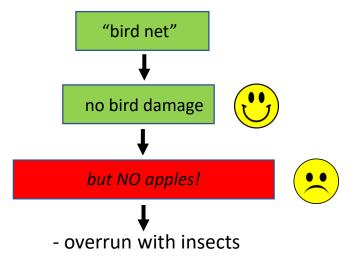
- Non-linear systems cannot be managed as if they were linear systems
- 1) Ecological example
 - birds ate 50% of my apples





I treated an (eco)system like a linear system

My management approach







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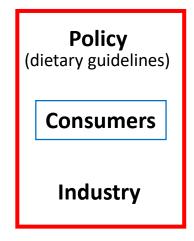


iii. Non-linear dynamics

2) A human food systems example

- eating too much fat causes heart disease and obesity

Management approach GOOD INTENTIONS "eat less fat" targeted low fat foods marketed low fat foods **OUTCOMES** increased carb consumption BAD more obesity & disease



Treated a complex system like a linear system

Complex systems approach

- Problem wasn't "caused" by any one component: people eating too much fat
- But EMERGED from the interactions of components: government, consumers, industry
- Solution requires a different approach:
 - understand motives & constraints of the key stakeholders
 - and how these interact to drive the problem
 - identify win-win solutions
 - model, test, implement

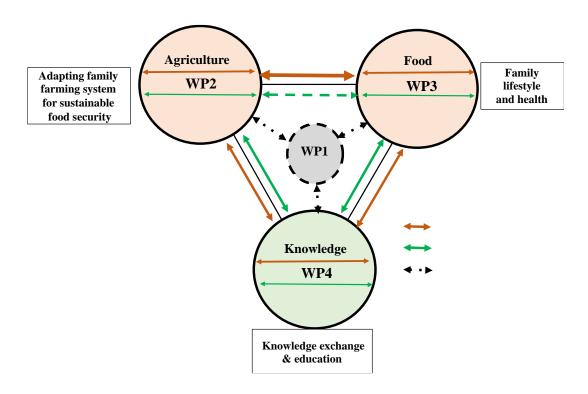






Can we implement Food systems approach in FALAH?

We already are working in a food systems framework



• There also are many research resources we can draw on to increase the effectiveness of the research



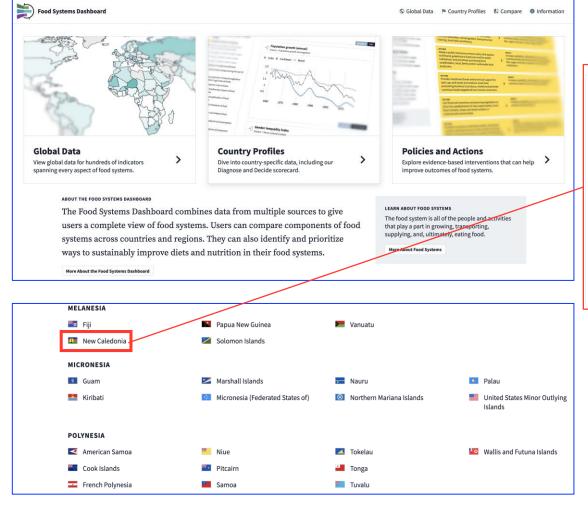


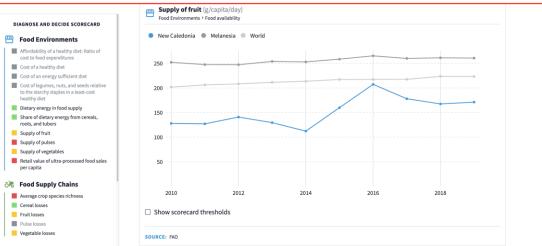


Resources:

i. Data

Food Systems Dashboard











Resources:

Building a Global Food Systems Typology: A New Tool for Reducing Complexity in Food Systems Analysis

Quinn Marshall 1*, Jessica Fanzo², Christopher B. Barrett³, Andrew D. Jones⁴, Anna Herforth⁵ and Rebecca McLaren⁶

Food systems have a profound impact on diets, nutrition, health, economic development, and environmental sustainability. Yet their complexity poses a persistent challenge in identifying the policy actions that are needed to improve human and planetary health outcomes. Typologies are a useful classification tool to identify similarities and differences among food systems, while reducing this analytical complexity. This study presents a new

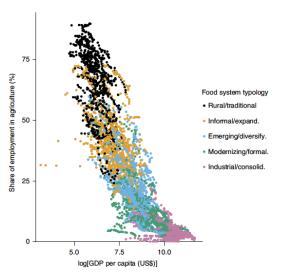


Fig. 4 | Structural transformation of economies over time by food system typology. The data on share of employment in agriculture and GDP per capita (using current US dollars) were sourced from the World Bank for analyses [129,133].

ii. Classifications

Concept Paper

Food Environment Typology: Advancing an Expanded Definition, Framework, and Methodological Approach for Improved Characterization of Wild, Cultivated, and Built Food Environments toward Sustainable Diets

Shauna M. Downs 1, Selena Ahmed 2,* 0, Jessica Fanzo 3 and Anna Herforth 4

FOOD ENVIRONMENT TYPOLOGY





THE FOOD ENVIRONMENT TRANSITION



Figure 4. Transition of food environment typology with development. The types of food environments that communities and countries have access to may shift over time with development. This figure depicts how the food environment types change aligned to Popkin's nutrition transition [4]. A sixth pattern of food environment types was added to indicate a transition to societies with concerns for sustainable diets and planetary health (Pattern 6).



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Resources:

The Importance of a Food Systems
Approach to Low and Middle Income
Countries and Emerging Economies:
A Review of Theories and Its
Relevance for Disease Control and
Malnutrition

Pablo Alarcon 1*, Paula Dominguez-Salas 2,3, Eric M. Fèvre 3,4* and Jonathan Rushton 4

Our review explores the changing food production, distribution and consumption environment in low and middle-income countries and emerging economies as a basis for framing how to study food systems in order to address public health issues of food safety and nutrition. It presents the state of knowledge on existing food systems science and its

as a system on its own. A food system study implies assessing the connections and interdependence of people and organizations across the system, to allow to: (1) determine system efficiency, (2) quantify externalities, (3) understand people's behaviors; (4) understand the evolution of food systems, (5) assess the consequence of changes (policy, intervention, or shocks), and (6) identify risk-hotspots and intervention target points. The importance of these objectives are indicated in Table 1.

iii. Research frameworks

General objectives of food systems studies	System component to be discussed	Consequences of not addressing the objective	Outcome if addressed appropriately
Determining the efficiency of the system	Adequate use of resources (optimisation); efficiency of the reach of chains to all population groups where there is demand and/or need; Understanding of where and why the inefficiencies occur and their consequences	Overuse of resources; reduction in productoon; increase of wastage (and subsequent environmental concerns) and loss in quality; reduce competitiveness, profitability, and capacity to upgrade; inequality of distribution and food insecurity	Increase production and distribution; better access and affordability of products; increase profitability and capacity to upgrade and controrrisks; reduction of wastage and contamination
Quantifying externalities	Health, food security and safety, financial, social, and environmental externalities of food systems	Externalities are borne by the wider society and the costs are not internalized by the food system. In the case of public health this can lead to acute food borne disease, transmission of zoonotic pathogen, and poor nutritional outcomes	Government and industry better able to prioritize investment and regulation or policies to minimize negative externalities. Capacity to monitor effectiveness of interventions or policies. Transparency of real cost of production and incentive generation for change
Understanding people's behaviors and purposes	The reasons for the existence of any given food chain and the activities within it. Identify who and why people undertake risky behaviors in the food system	Policies and their implementation to manage risk, food safety or nutrition, have a low probability of success. Public health problems continue and money to manage them is used inefficiently	Better understanding of effectiveness of potential interventions or policies in the food system. Allow to generate changes that increase stakeholders and consumer satisfaction for participating in the chains
Understanding the evolution of the system	Understand past changes and how and why the current system has evolved to its current format. Detect and predict trends, and their potential consequences	Not knowing the factors that have driven past changes will restrict the capacity to generate effective policies or interventions. Risk of generating changes that can threaten existing cultural and societal order. Not able to prevent food system failures, insecurity, risks or health impacts	Better planning and control of food system changes and growth. Allow for the prevention of food system risks, and better preparedness. Ensure future sustainability of the food system
Assessing the consequences of changes	Consequences of shocks (e.g., disease, climate, etc.), interventions, policies or other changes in the system (e.g., changes in technology or people preferences)	Lack of capacity to inform decision on policies or interventions. Lack of preparedness to system shocks, increase system vulnerability and risk of health, financial, livelihood and environmental losses	Better inform decisions on interventions and policies. Better preparedness to system shocks creates a more sustainable food system
Identifying the potential risk-hotspots	Identify actual and potential risk-hotspots, quantify their magnitude and their consequences when removed or controlled	Limited ability to plan and implement mitigation actions that are successful. Public health does not improve with chronic problems and deteriorates with acute ones	Support the identification of suitable target points for interventions to ensure cost-effective use of resources Improved public health outcomes







Resources:

- these interactions are Complex

Interacting drivers Competing outcomes Health Environment Economy

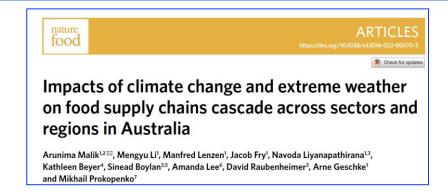
Macronutrient (im)balance drives energy intake in an obesogenic food environment: An ecological analysis

Amanda Grech^{1,2} | Zhixian Sui^{1,2} | Anna Rangan^{1,2} | Stephen J. Simpson^{1,2} | Sean C. P. Coogan^{1,2} | David Raubenheimer^{1,2} |

iv. System analysis tools

Nutrient-sensitive approach for sustainability assessment of different dietary patterns in Australia

Navoda Nirmani Liyanapathirana, ^{1,2} Amanda Grech, ¹ Mengyu Li, ² Arunima Malik, ² Manfred Lenzen, ² and David Raubenheimer ¹







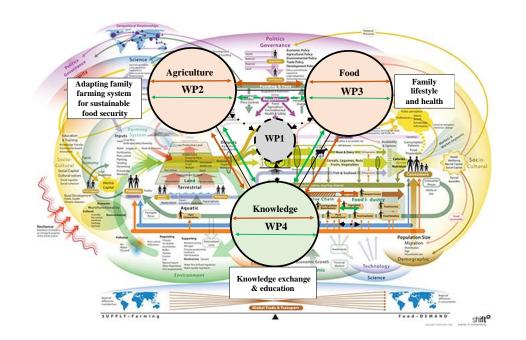




How can we best use these resources in FALAH?

- i. Data
- ii. Classifications
- iii. Research frameworks
- iv. System analysis tools

v. LOCAL EXPERT KNOWLEDGE



- Narrows the focus and directs the analysis
 - by identifying the most important issues
 - relevant to each country
 - and common to all countries

The survey





"Strengths weaknesses and resilience for family farming, lifestyle and health in Pacific islands"

Olivier Galy, David Raubenheimer, Séverine Bouard

SO, the aim is to survey stakeholders about FF, lifestyle and health to contribute towards identifying socially and politically sustainable routes to well being with improved cultural, health, environmental and economic outcomes and identify priority areas for FALAH research program.



Protocol









25,26,27 Oct 2022 VANUATU Workshop





22,23,24 Nov 2022 SYDNEY Workshop

Develop the paper and present results at the Sydney workshop

THE LANCET Planetary Health A new open access journal dedicated to informing and challenging our understanding of the lines between the environment and human health. We www.fieldnot.com/glanetary-health THE LANCET Regional Health Western Pacific Open Research Europe

European F1000 Research

Participants:

*95 FALAH members of consortium + other researchers with expertise related to FALAH to participate (effective contribution of a FALAH member=co-author)

*the FALAH focal point (NC, VAN, FIJI, SI, PNG) manage participants with a minimum of:

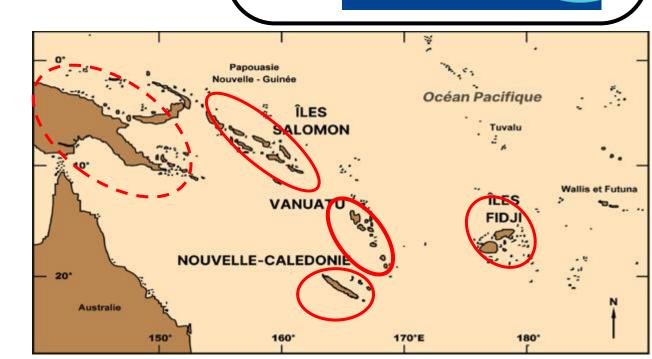
5 family farmer group (families and households) per country

5 community leader group (customary authorities, associations, clusters, spirituality,...) per country,

5 policy maker group (districts, cities, provinces, governments, ...)
per country

What each team has to do:

Share the questionnaire in the scientific network Identify families, community leaders and policy makers group





25,26,27 Oct 2022 VANUATU Workshop 22,23,24 Nov 2022 SYDNEY Workshop (A)







March 2023

Survey addressed to family farmers, community leaders, and policy makers



Start the survey by following the steps below.

1.) Go to this web address:

https://redcap.unc.nc/surveys/

2.) Then enter this code:

RTMEEA7MY





Survey addressed to experts on Pacific region

Enter the Survey Access Code

Start the survey by following the steps below.

1.) Go to this web address:

https://redcap.unc.nc/surveys/

2.) Then enter this code:

DN7M3E7EP











Survey addressed to family farmers (families and households), community leaders (customary authorities, associations, clusters, spiritual,...) and policy makers (districts, cities, provinces, governments, ...):

Q1-Your Country: NC, Fiji, Vanuatu, Solomon Islands, Papua New Guinea, etc.

Q1bis- You are: A male, A female, Not specified

Q2-In this survey, you consider to represent:

- -family farmer group (families and households),
- -community leader group (customary, spirituality, associations, clusters,...),
- -policy maker group (districts, cities, provinces, governments, ONG, inter-governemental institution,...)



PART 1: Family farming

- Q3.1- According to you, what are the big challenges of your society that you are facing regarding family farming?
- Q3.2-According to you, what are the causes?
- Q3.3-What are the possible ways to manage the situation for positive change?
- Q3.4-What means do you think are most missing/needed to understand the situation and manage the situation?

PART 2: LIFESTYLE Definition: Lifestyle of a person can be understood as the combination of daily physical activity, diet and sleep behaviors that are influenced by social, spatial and temporal components in which the person lives

- Q4.1-According to you, what are the big challenges of your society that you are facing regarding lifestyle?
- Q4.2- According to you, what are the causes?
- Q4.3-What do you think about the possible ways to manage the situation for positive change?
- Q4.4 -What means do you think are most missing/needed to understand the situation and manage the situation?

Survey addressed to experts on Pacific region (academics, scientists, engineers, ...):

Q1-Your Country:

Q1bis- You are: A male, A female, Not specified

Q2- You are: researcher, phd student, post doc, engineer, academic,...









PART 1: FAMILY FARMING

Q3.1- According to you, what are the biggest challenges facing society with regard to family farming? If you are involved in different pacific countries, please be precise it for each country.

Q3.2- According to you, what are the <u>causes?</u>

If you are involved in different pacific countries, please be precise for each country.

Q3.3- What do you think about the possible ways that could be implemented to manage the situation for positive change?

If you are involved in different pacific countries, please be precise for each country.

Q3.4- What means do you think are most missing/needed to understand the situation and manage the situation? If you are involved in different pacific countries, please be precise for each country

PART 2: LIFESTYLE

Q4.1- According to you, what are the biggest challenges facing society with regard to lifestyle?

If you are involved in different pacific countries, please be precise for each country.

Q4.2- According to you, what are the causes?

If you are involved in different pacific countries, please be precise for each country.

Q4.3- What do you think about the possible ways that could be implemented to manage the situation for positive change?

If you are involved in different pacific countries, please be precise for each country.

Q4.4 - What means do you think are most missing/needed to understand the situation and manage the situation?

If you are involved in different pacific countries, please be precise for each country.

