

AGROVOC and COVID-19

9 September 2020

NKOS Consolidated Workshop 2020 Terminology Development and KOS Mapping





AGROVOC

It is a **controlled vocabulary** covering all areas of interest of FAO. Most used thesaurus in food and agriculture and related sciences in the world.

Promotes **consistency** in preferred terms, and the assignment of the same terms to similar content.

Is used to **tag and index** publications, articles and datasets, to make it **easier** for researchers **to find information** and **semantic links**.

Food and Agriculture Organization of the United Nations		Voc	cabularies About	Feedback H
AGROVOC Multilingual Thesaurus		Content language English -		× Sea
Alphabetical Hierarchy	phenomena > natural phenom	ena > resource depletion > overfishing		
atmospheric circulation	PREFERRED TERM	🛛 overfishing 😼		
-climate -climate change	BROADER CONCEPT	resource depletion (en)		
-cycling -darkness	RELATED CONCEPTS	fishing mortality (en)		
ecological succession	INFLUENCES	stock assessment (en)		
environmental impact	IS CONTROLLED BY	fishery management (en)		
- fire causes - forest fragmentation - geological process - greenhouse effect - ice calving - land cover change - ozone depletion - pollution - radiation - radiation - werfishing - water depletion - shade - soil functions - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - soil transport processes - species extinction - soil genesis - species extinction - species -	IN OTHER LANGUAGES	 سيد جاتر کار کرو به بال کار کره که بال کار کره کار کرم کار کرم کار کرم کار کرم کار کرم کار کرم کار کرم کار کرم کار کرم کار کرم	Arabic Chinese Czech French German Hindi Hungarian Italian Japanese Lao Persian	
		 نفزونماهیگیری () Przełowienie Sobrepesca 		



Based on a Concept Model



Based on a Concept Model

Food and Agriculture Organization of the United Nations

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Linked Open Data

Linked Data is **structured data** which is interlinked with other data becoming more useful through semantic queries.

When data can be **freely used** and **distributed** by anyone (subject only to the requirement to attribute and sharealike), it is called Open Data

AGROVOC **thesaurus content** in English, Russian, French, Spanish, Arabic and Chinese is now released under the international licence CC BY IGO 3.0





AGROVOC usage statistics





AGROVOC: Up to 40* languages

Arabic	Finnish	Khmer	Polish	Telugu
Burmese	French	Korean	Portuguese and	Thai
Catalan	Georgian	Lao	Brazilian Portuguese	Turkish
Chinese	German	Latin	Romanian	Ukrainian
Czech	Greek	Malay	Russian	Vietnamese
Danish	Hindi	Norwegian	Serbian	AGROVOC
Dutch	Hungarian	bokmål	Slovak	PT AR W E
English	Italian	Norwegian	Spanish	
Estonian	Japanese	nynorsk	Swahili	
	I	Persian	Swedish	RU FR HI M

O From 1 000 to 9 999 terms

From 10 000 to 19 999 terms
 20 000 or more terms

*Min 150 terms. Coverage depends on editor network. More languages in system.



AGROVOC Editorial Partners



30 active partners

25 different countries



AGROVOC Editorial Partners

- Chinese Academy of Agricultural Sciences (China)
- Czech General Institute of Agricultural Economics and Information (Czech Republic)
- Iranian Research Institute for Scientific Information and Documentation (Iran)
- CIRAD (France)
- TECHINFORMI (Georgia)
- Gödöllo Agribusiness Centre (Hungary)
- Indian Institute of Technology Kanpur (India)
- Biblioteca Storica Nazionale dell'Agricoltura (Italy)
- AFFRIT (Japan)
- National Agriculture and Forestry Research Institute
 (Laos)
- The Republican Scientific Agricultural Library State Agrarian University **(Republic of Moldova)**
- Central Agricultural Library (Poland)
- Central Scientific Agricultural Library (Russian Federation)
- Matica Srpska Library (Serbia)
- Agroinstitut Nitra (Slovakia)

- Embrapa (Brazil)
- Kasetsart University, Department of Computer Engineering, Thai National AGRIS Centre, Kasetsart University (Thailand)
- Department of Training, Extension and Publications, Ministry of Food Agriculture and Livestock (Turkey)
- Ukrainian Institute for Scientific,Technical and Economic Information (Ukraine)
- Kuratorium f
 ür Technik und Bauwesen in der Landwirtschaft e. V. (KTBL) and Leibniz-Informationszentrum Lebenswissenschaften and BonaRes Centre for Soil Research (Germany)
- Aquatic Sciences and Fisheries Abstracts (ASFA)
 and FAOLEX (FAO)
- Land Portal Foundation (LPF)
- International Center for Agricultural Research in the Dry Areas (ICARDA)
- Belarus Agricultural LIbrary, National Academy of Sciences (Belarus)



Content comes from network



The AGROVOC editor network suggests new concepts, terms and definitions.

Editors represent an institution. Work done on **volunteer** basis. Editors may manage a language, and/or a topic, like soil, fisheries, or land governance. Some have an expert network contributing.

Distributed editing, shared online platform (VocBench) at University of Rome Tor Vergata. Discussions often needed. Suggestions also welcome by email.



New: Specialized schemes



Sub-vocabularies like LandVoc, ASFA and FAOLEX concepts are now part of AGROVOC. These can have different hierarchies, but **shared infrastructure**, so concepts use the same AGROVOC **unique resource identifier (URI), translations and definitions.**

Curation not only of a language but a **subject**: aquatic sciences and fisheries, land governance, law and policies.



AGROVOC and COVID-19 Pandemic

The Coronavirus Disease 2020 pandemic is a global health crisis, and FAO is playing a role in assessing and responding to its potential impacts on people's life and livelihoods, global food trade, markets, food supply chains and livestock.

Data-driven decision making is essential to drive further research, support ongoing investigations and share critical knowledge.

Controlled vocabularies like AGROVOC play a small but important part in ensuring that data and research are accessible, also across languages.

New concepts suggested by AGROVOC editors but also others.



Request for COVID-19 concepts

Sent: 31 March 2020 23:11 To: Agrovoc <<u>Agrovoc@fao.org</u>> Subject: COVID-19 related keywords

Will the next update of AgroVoc have any COVID-19 related keywords. I know Coronavirus is one, but as the disease takes up more and more attention, will you be adding the keywords specific to this kind of coronavirus?

Thank you,



April: First COVID-19 concepts added

AGROVOC added 25 new concepts related to the current world health crisis in an extra release on 10 April 2020.

These included entries for coronavirus disease (alternative term COVID-19) and severe acute respiratory syndrome coronavirus 2 (alternative SARS-Cov-2).



FAO AIMS @FAOAIMS · Apr 10 #AGROVOC #thesaurus adds new concepts related to #COVID-19

This extra release is helpful for those cataloguing, especially as there is a plethora of research being done at the same time on the same topic

Learn more Faims.fao.org/activity/blog/...

AGROVOC Multilingual These	aurus	Content language	Inglish - X
Alphabetical Hierarchy		diseases + infectious diseases + zoonoses +	coronavirus disease
deficiency diseases footborne diseases	PREFERRED TERM	©coronavirus disea	se 🗳
Immunological diseases Indectious diseases Indecting diseases	DEFINITION	constavirus SARS-Cov-2, which had no (an) () Yeni Koronavinis (CDVID-19), ilk oli sonlarında solunum yolu belirtileri (a	caused by the most recently discovered of been previously identified in humans, ank Qin'in Wuhan Eystell'inde Anslik ayron neg, disalintik, nefes darisb) geligan bir grup da 13 Ocak 2020'de tammtanan bir virilotil
viroses waterforme diseases	BROADER CONCEPT	zoonoses (en)	
+ 200noses	ENTRY TERMS IN OTHER LANGUAGES	() COVID-19 (en)	
- brucklosis comarivas disease - Ebola virus disease - hydatidosis - Middle East respiratory syndrome - Q freer - mbies		 2019 Vac.6 Journet John 2019 Jack 2019 Jack 2019 R.R.A.B.A.R. COVID-19 COVID-19 Constativitysgdom 2019 Covid-19 	Arabic Chinese Danish
salmonellosis severe acute respiratory syndrome doxoplasmosis suberculosis folgermia		C coronavirussiekte 2019 C koroonavirussiekte 2019 C maladie à coronavirus 2019 C COVID-19	Dutch Estonian French
non communicable diseases orzanic diseases		③ Coronavirus-Krankheit-2019 ④ COVID-19	German



Adding COVID-19 concepts



Q	Ξ

Home / Emergencies / Diseases / Coronavirus disease (COVID-19) / Technical guidance / Naming the coronavirus disease (COVID-19) and the virus that causes it

Section navigation

Naming the coronavirus disease (COVID-19) and the virus that causes it

Official names have been announced for the virus responsible for COVID-19 (previously known as "2019 novel coronavirus") and the disease it causes. The official names are:

Disease

coronavirus disease (COVID-19)

Virus

severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)

WHO announced "COVID-19" as the name of this new disease on 11 Feb 2020, following guidelines developed with OIE and FAO.

Viruses are named by the International Committee on Taxonomy of Viruses (ICTV). Diseases are officially named by WHO in the International Classification of Diseases (ICD).



International Classification of Diseases

CORONAVIRUS DISEASE #COVID19 #Coronavirus

(World Health Organization Volume 3 with Addition of suspected COVID-19 – April 2020 ICD-11 – ALL INDEX TERMS

- COVID-19
- 2019-new Coronavirus acute respiratory disease
- 2019-nCoV acute respiratory disease [temporary name]
- Coronavirus disease 2019
- Suspected COVID-19

Look for trusted authorities: for concepts and translations.

WHO's International Classification of Diseases April 2020: **Coronavirus disease 2019**. AGROVOC updated accordingly.



Adding COVID-19 concepts

Concepts need to be within scope of AGROVOC: agriculture, fisheries, forestry, food safety, food security, policies.

Yes: MERS, SARS, movement restrictions, agent-based models, non-pharmaceutical interventions, viral shedding, supply chain disruptions.

No: intensive care, ventilators, mortgage holiday

non-pharmaceutical interventions	Non-pharmaceutical interventions (NPIs, also known as non- pharmacological interventions) include all measures or actions, other than the use of vaccines or medicines, that can be implemented to slow the spread of iinfluenza [and other illnesses] llnesses in a population.
physical distancing (alttterm social distancing)	Social distancing, or physical distancing is a set of non- pharmaceutical interventions or measures taken to prevent the spread of a contagious disease by maintaining a physical distance between people and reducing the number of times people come into close contact with each other.
hand washing (altterm hand hygiene)	Hand washing (or handwashing), also known as hand hygiene, is the act of cleaning one's hands for the purpose of removing soil, grease, microorganisms, or other unwanted substances.
movement restrictions	Limitation on the movements of a person or animal who has or is suspected of having an infection. Used as a public health and veterinary health measure.



Adding COVID-19 translations

Sources used for concepts, definitions and translations included World Health Organization (WHO) websites, FAO website and FAOTERM, the UNBIS Thesaurus, EuroVoc and Inter-Active Terminology for Europe (IATE). Trusted sources key.



COVID-19 multilingual terminology available in IATE

270 multilingual entries related to the current pandemic are now available in IATE, the European Union terminology database. With 8 million terms in the 24 official languages, IATE is the terminology referen not only for language professionals, but also for national experts, policy advisers, public administration academics and private sector companies.





Adding COVID-19 translations

National editors also encouraged to use trusted sources, like ministries of health.

Definitions are essential for shared understanding and reducing ambiguity (here, from WHO).

The vocabulary used must be understood by everyone, and it is important that consistent terminology is used.

PREFERRED TERM	Imagination (Imagination) Imagination (Imagination) Imagination (Imagination) Imagination (Imagination) Imagination (Imagination) Imagination) Imagination (Imagination) Imagination (Imagination) Imagination) Imagination (Imagination) Imagination (Imagination) Imagination) Imagination) Imagination (Imagination) Imagination) Im	maceutiques 😼	
DEFINITION	 Non-pharmaceutical interventions (NPIs, also known as non-pharmacological interventions) include all measures or actions, other than the use of vaccines or medicines, that can be implemented to slow the spread of iinfluenza [and other illnesses] llnesses in a population. (en) disease management (en) 		
BROADER CONCEPT			
NARROWER CONCEPTS	distanciation physique (fr)		
INCLUDES	distanciation physique (fr) Isolement (fr) lavage des mains (fr) movement restrictions (en) quarantaine (fr)		
IN OTHER LANGUAGES	③ non-pharmaceutical interventions	English	
	 არაფარმაკოლოგიური ჩარევა არაფარმაკოლოგიური ინტერვენცია 	Georgian	
	③ nicht-pharmazeutische Maßnahme	German	
	 nicht-pharmakologische 		



Relevant concepts

Lessons learned during the Ebola and Zika outbreaks have helped some countries confront the COVID-19 pandemic, so **Ebola virus disease** and **Zika virus disease** have been added to AGROVOC.

More concepts are also suggested by AGROVOC editors, such as **Hamsterkauf** (German for panic buying), relevant to value chains and **market disruptions**.

Goal: include concepts relevant to the **complex socio-economic impacts of COVID-19**, as decision makers and governments need to balance economic and health concerns of reopening economies.



Keywords in use, July 2020

Nutrition and COVID-19



This document captures the information on basic nutrition available to consume fish, vegetables, and other nutritious food. It demonstrates that how less intake of nutrition leads to the malnutrition. Furthermore, the importnance of WASH, hygiene, and hand washing practice was discussed in the document.

Collections	Value chains and nutrition [173]
Download	Pamphlete_Nutrition_and_COVID_19_ENGpdf (577.6Kb)
Date	2020
Author	Rizaldo, Q. Karim, M.
Author(s) ORCID(s)	Manjurul Karim () https://orcid.org/0000-0003-4280-3568
Subject(s)	food fish; wash; fish consumption; coronavirus disease
AGROVOC Keywords	food security 🎇; nutrition 🎇; covid-19 🎇; hand hygiene 🎇
Туре	Brochure
Publisher	WorldFish
Metadata	Show full item record



CGSpace CGIAR A Repository of Agricultural Research Outputs

🏫 CGSpace Home / Alliance of Bioversity International and CIAT / Alliance Bioversity CIAT Reports / View Item

Efecto de la pandemia del COVID-19 en el sector arrocero de América Latina y El Caribe: Un diagnóstico participativo



View/Open Reporte (13.37Mb)

Authors

Urioste Daza, Sergio Graterol Matute, Eduardo Álvarez, María Fernanda Tohme, Joe Escobar, María Ximena González, Carolina

Date 2020-07

Share 🖌 f lin 👭 🖂



Citation

Urioste, Daza S.A.; Graterol, Matute E.; Álvarez, M.F.; Tohme, J.; Escobar, M.X.; González, C. (2020) Efecto de la pandemia del COVID-19 en el sector arrocero de América Latina y El Caribe: Un diagnóstico participativo. Alianza de Bioversity International y el Centro Internacional de Agricultura Tropical (CIAT); Fondo Latinoamericano para Arroz de Riego (FLAR); HarvestPlus. Cali, Colombia 28 p.

Permanent link to cite or share this item: https://hdl.handle.net/10568/108967

Abstract/Description

El reporte consiste en un diagnóstico de los efectos que han tenido las acciones implementadas para frenar Language países de América Latina) es relacionada sobre los im certificada, y en el flujo análisis de las políticas y Type general. La iniciativa hace información liderada por Report International y el CIAT y e HarvestPlus. Los resultado cuyo objetivo fue difundir le Accessibility temas presentados, a carge Open Access

> **Usage rights** CC-BY-4.0

Metadata Show full item record

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AGROVOC Keywords RICE; ARROZ; PRODUCTION; PRODUCCIÓN; COVID-19; ENFERMEDAD POR **CORONAVIRUS 2019**

Subjects AGRICULTURE; ECONOMICS; RICE;

Regions CARIBBEAN; LATIN AMERICA



Lessons learned

Lessons learned after this whole action, from the vocabulary control point of view:

- Not static: Even trusted authorities change names of concepts.
- What is most used? AGROVOC editorial guidelines: "The abbreviated form should be selected (as preferred term) when it has become so well established that the full form is rarely used, mostly the case for acronyms." → August 2020: COVID-19 made preferred term @en.
- Initially a challenge to find other online thesauri to link to, and good translations: now much more available
- Ongoing discussions: what to include? Think about how concepts are used.

contact tracing Tröfcheninfektion border closures lockdown comorbilità gendered impact



Next steps

GROVOC Multilingua	Thesaurus	Content Language English - 😠 Sear
phabetical Hierarchy	> biological pheno	mena > diseases > infectious diseases > zoonoses > COVID-19
henomena biological phenomena	PREFERRED TERM	©COVID-19 🏂
acclimatization adaptation adaptation anaerobiosis behaviour bioloavailability biological activity in soil biological activity in soil biological differences biological differences biological rhythms coll cycle coll cycle death diseases animal diseases	DEFINITION	 () COVID-19 este o boală infecțioasă cauzată de coronavirusul sindromulu respirator acut sever 2 (SARS-CoV-2), care nu a fost identificat anterior la om. (ro) () COVID-19 is the infectious disease caused by the most recently discovered coronavirus SARS-Cov-2, which had not been previously identified in humans. (en) () Yeni koronavirüs hastalığı (COVID 19), daha önce insanlarda tanımlanmamış olan, en son keşfedilen koronavirüs SARS-Cov-2'nin neder olduğu bulaşıcı hastalıktır. (r)
congenital abnormalities deficiency diseases	BROADER CONCEPT	zoonoses (en)
foodborne diseases human diseases immunological diseases	ENTRY TERMS	 © coronavirus disease (en) © coronavirus disease 2019 (en)
+ infectious diseases	IS CAUSED BY	severe acute respiratory syndrome coronavirus 2 (en)
bacterial diseases fungal diseases mycoses parasitoses	CHANGE NOTE	Acronym COVID-19 made preferred label as more prevalent in use (Aug 2020). (en)
prion diseases sexually transmitted diseases viroses attention diseases azoonoses brucellosis COVID-9 Ebola virus disease hydatidosis Middle East respiratory synd Q fever trabies salmonellosis severe acute respiratory synd toxoplasmosis tuberculosis		525 ① 2019 - ふみふ ② 2019 ジェンシーンシーン ③ 2019 ジェンシーンシーン ③ 2019 ジェンシーンシーン ③ 2019 ジェンシーンシーン ③ 2019 ジェンシーン ③ 2019 ジェンシーン ④ 2010 - 19 ④ 2010 - 19 ⑤ 2010 - 19 ⑥ 2010 - 19 ⑧ 2010 - 19 10 10 10 10 10 10 10 10 10 10

The full socio-economic impact of the virus on food security and agricultural food systems is not yet known, so the number of COVID-19 related concepts are expanding.

The AGROVOC monthly releases facilitate responsiveness on emerging topics.

Agreed terminology with definitions is needed, especially to enable correct translations.



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