

# #TAGCODING HANDBOOK

STRUCTURED HASHTAGS AND WIKIS FOR  
AN ACCELERATED LOCALIZATION OF  
KNOWLEDGE

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JAN GOOSSENAERTS

#sdgs

#cpc

#isic

#cofog

# #tagcoding handbook

Structured hashtags and wikis for an accelerated  
localization of knowledge

Jan Goossenaerts

This book is for sale at <http://leanpub.com/tagpedia>

This version was published on 2022-10-23



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*This book is dedicated to all who lack access to a local public library.*

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The ISIC and COFOG class numbers and names describing the tags are from International Standard Industrial Classification of All Economic Activities, Rev.4 (2008) and Classification of the Functions of Government (2000) by United Nations Department of Economic and Social Affairs, Statistics Division © 2008, 2000 United Nations. The ISIC and COFOG class numbers and names are reprinted with written expresses permission of the United Nations.

# Preface to the fourth edition

Some attention has been given to the role of tagcoding in overcoming the polarizing forces of social media.

The #xy2wiki engagement step was added between the #tagcoding and #tag2wiki steps to highlight the need in any language of a basic wiki explaining all tagcoding topic dimensions, and providing tools for topic-tag search across those dimensions.

For English, the #en2wiki wiki is part of the Ens Wiki (<http://www.ens.wiki/>) which may be considered the English language archetype of an xy2.wiki. As ens-dictionary urls in the third edition became obsolete, they have been replaced by ens.wiki urls in this edition.

After the articulation of the #xy2wiki programme, during 2021 a small team has progressed for these other languages: Spanish (<http://es2.wiki>), French (<http://fr2.wiki>), Chinese (simplified) (<http://zh2.wiki>), Russian (<http://ru2.wiki>), Arabic (<http://ar2.wiki>), German (<http://ger.wiki>), Japanese (<http://ja2.wiki>), Hindi (<http://hi2.wiki>), Swahili (<http://swa.wiki>), Telugu (<http://te2.wiki>), Dutch (<http://nl2.wiki>), Tagalog (<http://tgl.wiki>) and Hiligaynon (<http://hil.wiki>). Native speakers of any of the former languages, Bangla (<http://bn2.wiki>), Hausa (<http://hau.wiki>), Indonesian (<http://id2.wiki>), Portuguese (<http://por.wiki>), Punjabi (<http://pa2.wiki>), Turkish (<http://tur.wiki>) or Urdu (<http://urd.wiki>) are invited to launch additional translation and wiki-editing efforts.

During the two years of the #covid19 pandemic, one kind of #tagcoding hashtag has increasingly been adopted: it is the combination of #covid19, globally with the ISO country code, and in the US with the state name's abbreviation. On a global platform such as Twitter the use of two different conventions leads to homonyms: is #covid19CA for Canada or California, and #covid19IL for Israel or Illinois? These and similar homonyms will discourage individual adopters. Homonyms show the need for a global tag localization convention that avoids them. In the chapter on Territorial Tags such a convention is proposed: for California, the #covid19 localization tag is #covid19US06, and for Illinois, it is #covid19US17.

My special gratitude goes to Jeaneth Trivilegio who has been creating the content for Tagalog (<http://tgl.wiki>) and Hiligaynon or Ilonggo (<http://hil.wiki>), her mother tongue. Note that no translation software is available for Ilonggo.

The author, Malle, January 2, 2022.



# Preface to the third edition

Following the publication of the recommendations by the UN Secretary-General's High-level Panel on Digital Cooperation, it seems fair to claim that by practicing #tagcoding, #xy2wiki and #tag2wiki one shows a commitment to the **Declaration of Digital Interdependence**:

## DECLARATION OF DIGITAL INTERDEPENDENCE

Humanity is still in the foothills of the digital age.

The peaks are yet uncharted, and their promise still untold. But the risks of losing our foothold are apparent: dangerous adventurism among states, exploitative behaviour by companies, regulation that stifles innovation and trade, and an unforgivable failure to realise vast potential for advancing human development.

How we manage the opportunities and risks of rapid technological change will profoundly impact our future and the future of the planet.

We believe that our aspirations and vulnerabilities are deeply interconnected and interdependent; that no one individual, institution, corporation or government alone can or should manage digital developments; and that it is essential that we work through our differences in order to shape our common digital future.

We declare our commitment to building on our shared values and collaborating in new ways to realise a vision of humanity's future in which affordable and accessible digital technologies are used to enable economic growth and social opportunity, lessen inequality, enhance peace and security, promote environmental sustainability, preserve human agency, advance human rights and meet human needs.

The Declaration of Digital Interdependence (June 10, 2019)

In the third edition have been added:

- *Chapter 2.10 #Tagcoding and decision making journeys: Do-Check-Plan-Act* explains how the #tagcoding and #tag2wiki eco-system models could supply knowledge and information to innumerable development partners improving their work systems;
- *Chapter 2.8 Leading in the Age of Digital Interdependence* explains briefly how #tagcoding and #tag2wiki practices fit some of the recommendations of the UN Secretary-General's High-level Panel on Digital Cooperation;
- Chapter 7 on and Annex 4 with the coding hashtags for the Central Product Classification;
- Annex 5 with the coding hashtags for all the sustainable development goals and targets.

The eighty pages of annexes with coding hashtags are not intended for linear reading. The inclusion of the annexes gives support to readers using in-document search to look up #tagcoding hashtags for a topic. The online pages to which links are provided contain additional information that is not included in this e-book, for instance:

- the #tagcoding pivot for over 190 countries in the six official languages of the UN;
- definitions from the COFOG, ISIC, and CPC classifications;
- WWlgu #tagcoding hashtags for tens of thousands local government units around the world;
- for each sustainable development goal, there is information on the functions of government and the economic activities that are best placed to contribute to achieving the goal; and there are links to the engagements for the goal on the [United Nations Partnerships for SDGs platform](#)<sup>1</sup>;
- for each economic activity with #isic hashtag, the wiki page lists corresponding CPC codes and coding hashtags, and vice versa.

In summary, the eighty boring pages of the annexes provide an entrypoint into an online resource of several thousands of wiki pages and links to databases.

My special gratitude goes to Gérard Chenais who translated the second edition of the #tagcoding handbook into French: “[Manual de #tagcodage](#)”<sup>2</sup>. During the translation a small number of readability improvements were included in the French translation of the 2nd edition:

- ISIC and COFOG class urls in the annexes have been replaced by a far smaller number of urls for COFOG divisions and ISIC sections;
- The landing views for the #tagcoding pivots have been redesigned so that they fit on a single screen of a mobile phone (*Chapter 3.5 #Tagcoding pivot pages per country*);
- The figures have been improved.

These improvements have been included also in this third edition of the #tagcoding handbook.

I am aware that the book is rather brief in explaining the figures and tools. Why using many words if a figure says more than a thousand words? Suggestions pointing out which figures or tools need more explanation are most welcome in the [Forum of this book](#)<sup>3</sup> and at the book’s [feedback page](#)<sup>4</sup>.

Following the first translation of the #tagcoding handbook, and referring to the vision of advancing human development through shaping a common digital future, I wish to draw

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<sup>1</sup><https://sustainabledevelopment.un.org/partnerships/>

<sup>2</sup>[https://leanpub.com/tagpedia\\_fr](https://leanpub.com/tagpedia_fr)

<sup>3</sup><https://community.leanpub.com/c/tagpedia>

<sup>4</sup><https://leanpub.com/tagpedia/feedback>

your attention to a call for translators and wiki-editors that will bring the #tagcoding and #xy2wiki skills into practice in as many languages as feasible.

If English isn't your native language, may be you can contribute to affordable and accessible digital technology in your native language. Check it out at the [Global Innovation Exchange](https://www.globalinnovationexchange.org/)<sup>5</sup>: #tagcoding and #tag2wiki for an accelerated localization of knowledge for sustainable development<sup>6</sup>, or contact me via Twitter or LinkedIn.

The author, Malle, June 16, 2019.

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<sup>5</sup><https://www.globalinnovationexchange.org/>

<sup>6</sup><https://www.globalinnovationexchange.org/innovation/75564d5f-6a6f-463d-8408-96e3c24d3654>

# Preface to the second edition

The second edition of the #tagcoding handbook was long overdue after the Sustainable Development Goals were launched at the United Nations General Assembly of September 2015. It comes also at the right time. On October 5, 2018 I received notification that the [Actor Atlas #tagcoding pivots for the 2030 Agenda](#)<sup>7</sup> have been included as resources in the [Global Sustainable Consumption and Production Clearinghouse](#)<sup>8</sup>.

Three new chapters have been added in this edition: the 2nd chapter about pivotal points in the history of knowledge creation and how they lead to the #tagcoding localization model, the 3rd chapter about tools for looking up coding hashtags, the 4th chapter with the coding hashtags for the sustainable development goals and targets, and Chapter 8 and Annex 4 with the coding hashtags for the Central Product Classification. The sustainable development goals and targets are four years old now, but we still have 11 years to go until 2030. It is for those years that #tagcoding will be an essential digital skill.

After reading this book, please use the proposed hashtags when sharing your content. The more people use #tagcoding, the faster we will overcome digital and other divides that slow down the broadbased localization of knowledge for sustainable development. On the internet and social media, #tagcoding empowers the reader.

If reading this book leaves you with questions, do not hesitate to use the [Forum of this book](#)<sup>9</sup>, the book's [feedback page](#)<sup>10</sup>, the comment sections at any of the wikis referenced in this book, or suitable coding hashtags. Ask questions sooner rather than later.

Alongside with #tagcoding also the creation of mutually linked wikis with curated knowledge - **#tag2wiki** - and the authoring and lean publishing of e-books leveraging #tagcoding - **#lean2book** - are important digital skills for the localization and translation of knowledge. Related topics are addressed in posts and wikis, before they will become part of a handbook. More wiki and e-book related insights may be added in later editions of this handbook, or in a new handbook.

The knowledge localization model presented in this handbook, and the handbook itself, build upon a number of great resources. I am grateful to anyone who has put an effort

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<sup>7</sup><https://www.oneplanetnetwork.org/resource/actor-atlas-2030-agenda>

<sup>8</sup><http://www.oneplanetnetwork.org/>

<sup>9</sup><https://community.leanpub.com/c/tagpedia>

<sup>10</sup><https://leanpub.com/tagpedia/feedback>

in creating and improving those resources. The [Wikidot wikifarm](https://www.wikidot.com/)<sup>11</sup> has offered a low cost, yet powerful platform to experiment with the wiki-related ideas that have initiated the journey leading to this handbook. In the handbook you will read about the #tagcoding pivot. It is a single wiki page that contains content that in this book takes about 40 to 50 pages. Without [Twitter](https://twitter.com/)<sup>12</sup> it is fair to say that #tagcoding at the scale envisioned in this handbook wouldn't be thinkable. There is the saying that a picture says more than a thousand words. As my mastery of language may be insufficient to explain in a compelling way the future use of the internet and social media that I envisioned many years ago, building upon past transformations sparked by innovative communications technology. The [ArchiMate standard](http://pubs.opengroup.org/architecture/archimate3-doc/)<sup>13</sup> and the [Archi](https://www.archimatetool.com/)<sup>14</sup> modelling tool were very helpful in drawing up a few small models and make a long story short. Last but not least there is the Leanpub publishing platform that holds a great promise, including for knowledge localization.

My special gratitude goes to Teody Trivilegio who has been creating most of the non-English pages of the Actor Atlas, and most of the local government unit pages, as well as many other pages in the network of wikis that Wikinetix is providing.

Finally, my gratitude goes to my wife and our daughter for the love and patience.

The author, Malle, October 9, 2018.

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<sup>11</sup><https://www.wikidot.com/>

<sup>12</sup><https://twitter.com/>

<sup>13</sup><http://pubs.opengroup.org/architecture/archimate3-doc/>

<sup>14</sup><https://www.archimatetool.com/>

# Introduction

The internet and social media bring vast new possibilities for curiosity, ingenuity, creativity and resilience. And during the past two decades they have transformed how we find and share our ideas, information and knowledge.

Search engines with Google as the trailblazer offer the fastest way to find answers to many questions.

Open online encyclopedia exist in many languages. Wikipedia was launched in 2001 and is available in over 300 languages.

Micro blogs such as Twitter, launched in 2006, offer incredible sharing possibilities as well as great retrieval options when hashtags are used in a smart way.

In spite of all opportunities enabled by the internet, the localization of knowledge, as described by Nobel laureate Joseph Stiglitz for the inauguration of the Global Development Network (2000), progresses at a slow speed. Information overload in the major languages, and an insufficient provision of content in most languages and on many topics contribute to a slow learning for more sustainable and inclusive development.

What can we do to make a better use of the internet and social media? The mission of Wikinetix is to promote and demonstrate the joint impact of four digital skills:

- **#tagcoding** means that one uses standardized hashtags to relate online information to specific topics in order to structure it and retrieve it easily;
- **#xy2wiki** is about creating a wiki that explains the tagcoding hashtags in as many languages as possible;
- **#tag2wiki** is about creating, maintaining, and coordinating wikis for development communications;
- **#lean2book** is about authoring and publishing e-books that leverage #tagcoding and #tag2wiki wikis.

This e-book has integrated links that make navigating the included reference materials as easy as navigating a wiki. At each level of the content hierarchy are tables of contents with links forward to lower level sections and backward to higher levels. In this way, it only takes

three or four clicks to get to the specific content of a part, or to go back to the part from the most specific content.

The **#tagcoding - #xy2wiki - #tag2wiki - #lean2book knowledge localization model** that is elaborated more in chapter 2.7 offers several features for accelerated knowledge localization and public debate. Whereas #tagcoding is a digital skill within the reach of everyone, the #xy2wiki, #tag2wiki and #lean2book skills require some extra investment of time and means. A #xy2wiki mission is the creation of a multi-dimensional topic wiki in any local language via the topic driven translation of a reference wiki. Once such a wiki is available it can support the curation of content - tagged for a country - into the languages of the country, the discovery of neglected topics, and the rapid provision by translation of new reference content.

Hence, a #tagcoding - #xy2wiki - #tag2wiki - #lean2book movement is a *general purpose* collaborative counter-measure for the information overload, (epistemic) polarization into bubbles that no longer meet, and other imperfections of the mainstream internet and social media. The proposed coding hashtags and the related provisioning of wikis will empower users in the instructive and productive use of the internet, it will enable the willingness to listen and it will help overcoming the polarizing forces of social media algorithms.

How *you* will exploit #tagcoding and the other digital skills building upon it, is up to you to explore and learn. It depends on where you are in your personal development and what responsibilities you have been endowed with in business or society. This handbook proposes to be a companion for the first episode in your #tagcoding journey.

Guidance and inspiration on your possible uses of the tags and wikis can also be obtained by exploring one of these open access online resources:

- the [Wikiworx platform](http://www.worx.wiki/initiative-management)<sup>15</sup>;
- the [Actor Atlas](http://www.actor-atlas.info/)<sup>16</sup>;
- the [Social Capital Wikis](http://www.worx.wiki/kc:social-capital-wiki)<sup>17</sup>;
- the videos at the [Wikinetix website](http://www.wikinetix.com/)<sup>18</sup> offering short introductions to #tagcoding for specific topic dimensions and online tools supporting their use.

The “coding hashtags” cover topics that are of interest to active and reflective people in all possible professions and areas of study, in all countries of the world, and in all languages spoken.

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<sup>15</sup><http://www.worx.wiki/initiative-management>

<sup>16</sup><http://www.actor-atlas.info/>

<sup>17</sup><http://www.worx.wiki/kc:social-capital-wiki>

<sup>18</sup><http://www.wikinetix.com/>

By #tagcoding social media and online content, we can make it globally discoverable and retrievable as if it was put in everyone's personal library.

On the internet this library is globally accessible. By using territorial #WWlgu hashtags we can create locally relevant sections in the global online library. The #2030library hashtag and a dedicated part of the [Wikinetix website](http://www.wikinetix.com/lib:2030library)<sup>19</sup> explore this topic in more detail.

If the tagged content is open access, it becomes part of the public part of that #2030library.

As long as there will be social media platforms and search engines supporting hashtags, you, your favourite authors, your students, your teachers and your peers can use coding hashtags to share, discover and retrieve content.

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## Overview

The second chapter elaborates the reasons for #tagcoding and explains the digital skills that are implied if one wants to scale the practice globally. The desire for a global scaling must be understood as a continuation in the history of the creation and making accessible of knowledge. Some pivotal points in that history are described in chapter three and serve as a background for appreciating the benefits of collaborative #tagcoding and wiki creation.

From the third edition onwards, responding to the vision of a platform for collective intelligence described in chapter 3.6, a more elaborate description of the #tagcoding and #xy2wiki theory of change is provided in chapter 3.10 #Tagcoding and decision making journeys.

The fourth chapter presents a number of online tools that I have created in order to simplify finding the coding hashtag for a specific topic. When I am reading articles and posts on the internet, I use these tools to look up the hashtags that I will add in the comment when reposting (usually retweeting). With these hashtags I can retrieve posts even years after I posted them. So why my memory of a post may be vague or gone, by looking up a topic's hashtagcode, I can retrieve earlier posts in seconds.

Each of the following six chapters introduces the coding hashtags for a specific topic dimension.

The fifth chapter presents the tagcoding hashtags for the *sustainable development goals and targets*, and the tools created for looking up these hashtags. Annex 5 lists all goals and targets and includes a hyperlink to an online description for each goal.

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<sup>19</sup><http://www.wikinetix.com/lib:2030library>



The sixth chapter presents the tagcoding hashtags for the classes and divisions of the *Classification Of the Functions Of Government* (COFOG), and the tools for looking them up. Annex 2 lists all classes and divisions and includes a hyperlink to an online description for each Division.

Chapter seven presents the sections and some of the classes of the *International Standard Industrial Classification of All Economic Activities* (ISIC revision 4), and the tools for looking them up. Annex 3 lists all sections and classes and includes a hyperlink to an online description for each of section.

Chapter eight presents the tagcoding hashtags for the sections, divisions, groups and classes of the Central Product Classification. Annex 4 lists all sections, divisions and groups as well as a few classes. It includes a hyperlink to an online description for each of section.

Chapter nine presents the *world wide local government unit* “#WWlgu” hashtags and illustrates them for a few countries. Annex 1 lists all countries and territories of the world, each with its ISO country code and their generic coding hashtags for each dimension covered in this handbook: #sdg, #cofog, #isic and #lgu.

Chapter ten lists over five hundred languages with their language codes and gives examples of CPC tags that can meaningfully be combined with a language code. An example is #cpc843 for online content in Afar (aa): #cpc843aa.

The annexes one to five define the hashtags for

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## The #Tagcoding Handbook: an essential e-book?

In its electronic version, the #tagcoding handbook aspires to be a companion in your exploration of new digital skills that have the potential of transforming how we use the internet and social media. At stake is a digital transformation that equips humanity with tools better suited to tackle the great challenges of our time together.

This handbook provides #tagcoding conventions for a globally shared multi-dimensional topic map with over a hundred thousand topics that matter for development, personal, public, and socio-economic. Codes for sustainable development goals, economic activities, functions of government, can be combined with the codes of countries and local government units so as to form hashtags for specific topics such as fighting poverty in a country, state, district, county or municipality. In fact, depending on the specific interest of the users, a unique tag out of billions can be created to support their knowledge sharing.

In a sense we propose a coordinatization of the topic space, which is similar to the Cartesian coordinate geometry for space and time that we are already familiar with. In the topic space, the topic dimensions are sustainable development goals, economic activities, functions of government, territorial locality and language. The coordinatization of the topic space brings a superior *expressive adequacy* and *computational efficiency* in the social sharing, the knowledge localization, and the articulation of shared and differentiated responsibility.

Search in this handbook may be a first step in a broader engagement with systematized content that already includes tens of thousands of wikipages (less than 800 of which are referenced in the annexes of this handbook), or when you feel like sharing a good read, bright idea, or when you need high quality or recent content or discourse on a sustainable development goal or target, a city, a municipality, a sector of industry or a function of government in a country.

After the first edition of this book was published I have looked into ways to provide a substantial part of the information via online #tagcoding pivots.

Generic and country-specific #tagcoding pivots can be consulted via the internet in a growing number of languages.

In addition to the #tagcoding pivots some other online tools have been defined to support the quick and easy discovery of the coding hashtag for a specific topic. Consult [#tagcoding guidelines](#)<sup>20</sup> for more information about these tools and additional #tagcoding proposals.

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<sup>20</sup><http://www.atria.us/kc:tag-guidelines>

# #tagcoding: why everyone should do it, and how

There are many reasons to start #tagcoding but two are selected to illustrate these reasons: it is a means to overcome the polarizing forces of social media, and it is a means to make the world of knowledge small for everyone.

As #tagcoding is not primarily a skill to practice individually, a number of engagement steps are presented. They address the individual skill and the public tools that make the skill “socially” productive in a digital Public Sphere.

This chapter concludes with a #tagcoding code of conduct and a brief note on the current global “organic” adoption of #tagcoding.

## Overcoming the polarizing forces of social media

Recently, it has been observed that social media algorithms promote the affirmation of one’s own views and polarize empowered citizens into bubbles that no longer meet. A Belgian minister of the Interior stated: “We have invested in *empowerment*, but have forgotten the willingness to listen”.

The resulting issue then is, how to enable the willingness to listen across the bubbles?

The good news is that #tagcoding has been invented with that purpose: the search of a tagcoding hashtag, prior to sharing content or opinion, indicates a willingness to listen, across languages, but also across all kinds of bubbles that social media otherwise would reinforce.

By practicing #tagcoding we can overcome the polarizing forces of social media.

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## Making the world of knowledge small for everyone

The “small-world” argument in social network theory emphasizes that people are, on average, only a few connections away from the information they seek.

Singh et al. (2000) in their paper “*The world is not small for everyone: Inequity in searching for knowledge in organizations*” contrast the “small world” argument with empirical support for the argument that the network structure does not benefit everyone.

For people who have longer search paths in locating knowledge in an organization and in the internet, the world is large.

The drivers for inequality in the access to knowledge include the mechanisms periphery status and homophily, “love of the same”, the tendency of individuals to associate and bond with similar others.

The tools for looking up coding hashtags and the systematized hashtags covering all topics in a topic-dimension (see chapter 3) encourage heterophilous awareness in search. By leveraging internet and wiki services, it will take only a few seconds for finding the coding hashtag for a specific topic in a topic-dimension.

Together, the coding hashtags, the wikis and public content have this purpose: leverage the internet and social media for making the world of knowledge smaller for all members of society.

This is why the systematized content to which this e-book refers are offered without a pay wall. Your contribution for this e-book, enables its author(s) and other volunteers to expand and provide for free a growing collection of systematized content. Together we can demonstrate that #tagcoding of content and the creation of mutually linked wikis are pillars for learning and development and that it lowers the access hurdles for knowledge that matters to people’s livelihood.

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## A first engagement step: #tagcoding

The common search engines and many social platforms support coding hashtags, yet for most social media platforms the use of hashtags is an “intra-platform” feature. For Twitter, in spite of the recent discontinuation of [hashtag based timelines](#)<sup>21</sup>, search for hashtags is open also to non-subscribers via [Twitter Search](#)<sup>22</sup>.

On the social platforms anyone can label content with a tagcoding hashtag for *the topic in the country* to make it part of a domestic discourse which is globally visible.

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<sup>21</sup><https://youtu.be/fHUDD5WizwA>

<sup>22</sup><https://twitter.com/search-home>

This makes the discourse on the topic *inclusive*. Everyone (on the platform) can contribute, without a need to join a specific group or community, or without a need to be “rich or famous” for the contribution to be noticed.

Whereas social media gives you a means to communicate with your social network, the coding hashtags allow you to instantly follow a discourse and to target it with your own insights. This in contrast with being restricted to bubbles (your own network) or content for the broad public. If a discourse progresses at a slow pace, older posts can easily be retrieved and the hashtag helps retrieving posts over a longer period of time.

By having hashtags for finegrained topics, the expected posting intensity per hashtag decreases, and a much better match is possible between content supply and demand. Consider authors or researchers in a community that has adopted #tagcoding. A topic with many posts would indicate an over-supply of content - many authors writing similar stuff, or researchers doing similar research -, while a topic with no posts would indicate neglect of the topic. By #tagcoding their production and search of prior work, the authors and researchers can better allocate their time so that all topics in a topic-dimension receive the appropriate attention.

Language-neutral hashtags cover every sustainable development goal or target, every function of government, every economic activity, every product or service, and every locality. There is a coding hashtag for everyone’s livelihood or public service needs. In the internet and social media, hashtag-coded content is like a word in a dictionary: when looked up via a search engine, it will be found.

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## A second engagement step: #xy2wiki

Bringing a #tagcoding capability to any country’s institutions and millions of citizens using many languages is a major challenge.

As search engines and internet browsers support setting language preferences, a first wiki content objective for any language is the provision of pages that explain the meaning, system and structure of all tagcoding hashtags in the language. This is the objective of the #xy2wiki programme which can be instantiated for any language via its 2 or 3 character ISO 639 code: for instance #bn2wiki (<http://bn2.wiki>) for Bangla, #pa2wiki for Punjabi (<http://pa2.wiki>), #tgl2wiki for Tagalog (<http://tgl.wiki>), #es2wiki (<http://es2.wiki>) for Spanish, etc.

Each #xy2wiki wiki should provide in language “xy” all the tools that this handbook demonstrates in English (#en2wiki with url <http://en2.wiki> or <http://www.ens.wiki>).

To enable a digital Public Sphere and forge the required trust between institutions, citizens, and business, all tagged content, limited to a language or not, merges into a focussed discourse streams, including one for every local government unit. Everyone can have a voice in these streams, and everyone can see what others have shared. Because of their combinatory character tags can be very specialised or rather general. They can be configured to the [level of scope](#)<sup>23</sup> where the public-private discourse occurs.

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## A third engagement step: #tag2wiki

Once the #xy2wiki preparations have been completed, native speaking users of the #tagcoding hashtags can be assured that meaning gets communicated in a wide variety of inclusive [Lifeworld](#)<sup>24</sup> related discourses - a digital [Public Sphere](#)<sup>25</sup>, truly public and inclusive becomes enabled.

Once hashtags have been adopted at scale in a country or for a language, a hashtag search is likely to have a limited horizon in the past. Therefore it is recommended to curate in the #xy2wiki pages the contents of tagged posts that contribute original quality content on the corresponding topics. The use similar page and wiki naming conventions facilitates the aligning of pages in different languages and/or countries.

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## A fourth engagement step: #lean2book

This #tagcoding handbook uses hyperlinks and hashtags to extend the book's storyline with content that is on the internet, in wikis, and on social platforms. Consider that the reading device for the e-book is likely to have access to the internet.

The content that is referenced may have different access regimes. Content in the public domain is referred to as *public content* and is available to all under the same access regime, this is for free and with no restrictions to reuse. Content that is protected by copyright or other rights regimes, much of it will be in printed books (#cpc322) or on-line text based information (#cpc8431), cannot be reused without approval by the copyright holder.

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<sup>23</sup><http://www.ens.wiki/item:level-of-scope>

<sup>24</sup><http://www.ens.wiki/item:lifeworld>

<sup>25</sup><http://www.ens.wiki/item:public-sphere>

Using *hyperlinks* in on-line books or e-books (#cpc84311) such as those published via **Leanpub** has several advantages:

- The author can avoid to reword and repackaging existing content, and can build upon others' work in a direct and transparent manner; the author can focus on the original contributions;
- Content that is in the internet could evolve and improve between the point in time when the e-book was first produced, and the point in time that one is reading it, making use of the hyperlink;
- Where the hyperlinked content is in wikis or blogs that support discussion or comments, readers can give comments, to further improve the state of knowledge of a topic or area of concern;
- Authors can harvest the hashtag-coded discourse to periodically update their topical book or article.

**Systematized public content**<sup>26</sup>, for instance in wikis that are maintained via a #tag2wiki curation approach, draw the attention of authors and readers to the possibility of reusing or referencing such content in their work. By using and expanding the systematized public content, its quality and utility will gradually improve, especially also in languages in which there is as yet little online content.

The expectation of improved content quality gives a reason for later returns to specific "content" via hashtag searches, both to the discourse, the wiki pages and the e-books.

While #tagcoding, #xy2wiki and #tag2wiki are collaborative journeys, the authoring of e-books is often an individual journey.

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## A fifth engagement step: a digital Public Sphere

The "public sphere" is generally conceived as the social space in which different opinions are expressed, problems of general concern are discussed, and collective solutions are developed communicatively. Thus, the public sphere is the central arena for societal communication. In large-scale societies, mass media and, more recently, online network media support and sustain communication in the public sphere.

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<sup>26</sup><http://www.worx.wiki/systematized>

The German Federal President Frank-Walter Steinmeier in his Speech at the opening of the eleventh Bellevue Forum “Democracy and the digital public sphere – A transatlantic challenge” (March 1, 2021) summarizes expectations regarding the digital public sphere: “So much is expected of the public sphere in a democracy. It must reflect the plurality of society and be accessible to all, foster reasoned debate, open up spaces for new ideas and political goals, provide reliable information and empower people to participate responsibly in democratic processes. These ideals have guided us since the Enlightenment”.

Using *#tagcoding* as a means to promote and follow-up a discussion topic has several advantages, including:

- Everyone (with a platform profile that allows tagged posts) is empowered to contribute to a debate or discussion, meaning they are truly *inclusive*;
- When systematically defined hashtags are used, content about very specific topics can be easily retrieved, for instance, marine aquaculture in Indonesia has coding hashtag *#isic0312ID*;
- The use of *#tagcoding* by authors and readers supports collaborative scoping and avoids information overload as well as the bewilderment it causes;
- Each coding hashtag supports a “single-version-of-the-truth” “search” for the discourse on the searched platform, at any point in time, and across languages.

Hashtag-coded discourse supports authors and readers in updating their knowledge about a wide range of topics and related ideas. Also the systematized public content, the reliable information, can easily be updated and expanded.

If there is “public content #xy2wiki” wiki for each language (used in a country), maintained by curators who extend it with new pertinent content from hashtag-coded posts, then this is an important asset for the country’s digital Public Sphere in each of its languages.

In conclusion: the current use of the internet and social media contributes less to the digital Public Sphere than is possible with the intensive use of *#tagcoding*, *#xy2wiki* and *#tag2wiki*.

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## #tagcoding Code of Conduct

By *#tagcoding* we can fight information overload, avoid over-researched topics, and make the world of knowledge small for everyone. The success in this global journey also depends on adhering to certain principles in dealing with content that others have created, and when contributing your own content.



## Respect for copyright

It is rather meaningless to discover content via a coding hashtag, then copy or repeat it, and post it with the same or a neighbouring hashtag (e.g. a different country code). Your content is likely to appear in the same search result as the copied content.

Rather if you wish to strengthen the original author's message, retweet or repost it, or like, favorite, +1 it.

*By #tagcoding a new work, the author expresses confidence his or her content is not infringing the copyright of others, or is not just repeating what is already readily available (online).*

## Avoid spam or aggressive, commercial push of content

A common (social) media practice to reach a larger audience is to repeat the same post regularly or at many places.

For instance in Twitter, some post the same content weekly, daily or more frequently. In LinkedIn or Facebook we may post the same content in multiple groups, etc. #tagcoding in a public platform makes such multiple posting unnecessary to reach your target audience (on the condition #tagcoding conventions have been adopted).

*By using coding hashtags, the author or publisher opts out of spamming-like, excess content-push attitudes addressing readers. He or she posts once, and next let the readers discover the content, via the content's hashtags, when they need it. This is called "on-demand".*

## Contribute to an inclusive, non-polarizing discourse

A discourse has questions and answers. Authors tend to use the print and social media to share their answers and opinions, even without questions being asked.

Where can people express their burning questions? Or opinions that they consider relevant for the public?

People working in an "under-served" economic activity can add fitting coding hashtags to their question. A question can become prominent as it is liked by others, or acknowledged by an expert. And when a person able to answer comes across a prominent question, he or she can be sure that the #tagcoded answer will be appreciated.

The hurdles to joining the discourse are much less on a "open social platform" than in a closed group of app users, or in a closed platform.

By #tagcoding questions they become part of an inclusive discourse, in addition to answers and arguments.

If opinion is destined for a social media bubble away from public debate, then using tags is not recommended: using #tagcoding hashtags indicates that content is not intended to polarize, but rather is intended to serve in public debate.

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## Global adoption of coding hashtags

Adoption of #tagcoding at scale is a societal challenge, especially as there is no (direct) commercial or political interest in such adoption.

Some coding hashtags have been “organically” adopted at a global scale. This is the case for the hashtags for the sustainable development goals: #sdg1, #sdg2 to #sdg17. For these hashtags, on Twitter, over a hundred of shared posts a day, or even per hour, are not uncommon. If you have an interest in a specific topic, say fighting poverty in the Philippines, the #sdg1 hashtag won’t help you much. In contrast if all #sdg1 tagged posts about fighting poverty in the Philippines would also carry #sdg01PH or #sdg1PH, simple search for these tags would retrieve the content that interests you.

Also, some people have intuitively used #sdgKE for sharing content on sustainable development in Kenya.

Since early 2018 some knowledge institutions are using hashtags for sustainable development targets, for instance:

- “#sdt1714 - enhance policy coherence for sustainable development;”
- “#sdt123 - by 2030 halve per capita global food waste at the retail and consumer level, and reduce food losses along production;”
- “#sdt61 or #sdt061 - by 2030, achieve universal and equitable access to safe and affordable drinking water for all;”
- “#sdt055 or #sdt55 - ensure women’s full and effective participation and equal opportunities for leadership at all levels of decision-making.”

The abundance of #covid19 content, in combination with the desire of many to ensure that content reaches a specific target audience, has inspired many people, including public agencies, to combine #covid19, and more recently also #omicron, with the ISO country codes

or US state codes. Due to the pandemic and extensive communication about it via social media, the use of certain forms of #tagcoding has increased.

This increased use has also highlighted the need for “internationally agreed” #tagcoding conventions in order to avoid homonyms in global platforms such as Twitter and LinkedIn.

Consider this: globally two character ISO country codes are much used, usually in combination with #covid19, for instance #covid19CA for Canada, #covid19CO for Colombia, or #covid19IL for Israel. In the US, on the other hand, it is common to use the state abbreviations, such as CA for California, IL for Illinois, CO for Colorado, leading to the same #covid19 tag variants with a very different meaning.

What happens? When “periphery” users of a hashtag discover their distinctive tag codes are already used in a “core”, they are likely to stop their good practice. Which is unhappy because they were doing the right thing. The impact is that periphery users are being deprived of a utility of the platform.

For an equal opportunity use of a global platform, homonyms in hashtags should be avoided .. as a matter of net etiquette. It especially a responsibility of users in the “core”.

The alternative for a US state is a code which starts with #covid19US. Next one could add the state’s abbreviation, for instance to form: #covid19USCA. Or use the state’s census code, which is 06 for California, to form #covid19US06.

Despite their usefulness for organizing content in the internet and social media, structured hashtags do not easily spread organically. That’s why I urge every reader of this handbook to promote them actively in the areas and for the countries and local government units of interest, especially also for domestic and local use, and in your mother tongue.

Note that for the alphabetic part of the hashtag, no distinction is made between upper case and lower case characters. Also you cannot include non-alphanumeric characters except the underscore “\_”. In longer multi-word hashtags it is common to capitalize the first character of each word, such as in #MeToo or #AddisAbabaActionAgenda.

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<sup>27</sup><https://www.theguardian.com/global-development/2013/jul/30/bangladesh-bikes-skype-info-ladies>

<sup>28</sup><https://unstats.un.org/unsd/publications/catalogue?selectID=396>

<sup>29</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev4e.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev4e.pdf)

<sup>30</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev4a.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev4a.pdf)

<sup>31</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev4f.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev4f.pdf)

<sup>32</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev\\_4.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev_4.pdf)

<sup>33</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev4s.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev4s.pdf)

<sup>34</sup>[http://unstats.un.org/unsd/publication/SeriesM/seriesm\\_4rev4r.pdf](http://unstats.un.org/unsd/publication/SeriesM/seriesm_4rev4r.pdf)

<sup>35</sup><https://www.nesta.org.uk/blog/collective-intelligence-and-achieving-sustainable-development-goals/>

<sup>36</sup><https://www.omg.org/spec/VDML/About-VDML/>

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<sup>37</sup><https://daily.jstor.org/internet-before-internet-paul-otlet/>

<sup>38</sup><http://pubs.opengroup.org/architecture/archimate3-doc/>

<sup>39</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=E](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=E)

<sup>40</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=A](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=A)

<sup>41</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=F](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=F)

<sup>42</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=C](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=C)

<sup>43</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=S](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=S)

<sup>44</sup>[http://www.un.org/ga/search/view\\_doc.asp?symbol=A/RES/70/1&Lang=R](http://www.un.org/ga/search/view_doc.asp?symbol=A/RES/70/1&Lang=R)

<sup>45</sup><https://en.wikipedia.org/wiki/Encyclop%C3%A9die>

<sup>46</sup><https://en.wikipedia.org/wiki/Mundaneum>

# Annex 1 - #tagcoding hashtags for all Countries

This annex lists all countries and territories of the world, each with its ISO country code and their generic coding hashtags. Over a hundred thousand topics for discourse are supported by combining the ISO code with the #sdg, #cofog, #isic and #lgu root tags from the previous chapters. Moreover, there will be over a million #lgu tags.

For most countries, the #sdg, #lgu, #cofog and #isic tags are listed in their [Actor Atlas page](#)<sup>47</sup>, as was illustrated in the previous chapters. Those territories for which this is not the case are marked with \*.

| Country   | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|---|----------|-----------|----------|---------|---------|
| <a href="#">Afghanistan</a> <sup>48</sup>         | AF       | #cofogAF  | #isicAF  | #AFlgu  | #sdgAF  |
| Aland Islands*                                    | AX       | #cofogAX  | #isicAX  | #AXlgu  | #sdgAX  |
| <a href="#">Albania</a> <sup>49</sup>             | AL       | #cofogAL  | #isicAL  | #ALlgu  | #sdgAL  |
| <a href="#">Algeria</a> <sup>50</sup>             | DZ       | #cofogDZ  | #isicDZ  | #DZlgu  | #sdgDZ  |
| American Samoa*                                   | AS       | #cofogAS  | #isicAS  | #ASlgu  | #sdgAS  |
| Andorra*  | AD       | #cofogAD  | #isicAD  | #ADlgu  | #sdgAD  |
| <a href="#">Angola</a> <sup>51</sup>              | AO       | #cofogAO  | #isicAO  | #AOlgu  | #sdgAO  |
| Anguilla*   | AI       | #cofogAI  | #isicAI  | #AIlgu  | #sdgAI  |
| Antarctica*                                       | AQ       | #cofogAQ  | #isicAQ  | #AQlgu  | #sdgAQ  |
| <a href="#">Antigua and Barbuda</a> <sup>52</sup> | AG       | #cofogAG  | #isicAG  | #AGlgu  | #sdgAG  |
| <a href="#">Argentina</a> <sup>53</sup>           | AR       | #cofogAR  | #isicAR  | #ARlgu  | #sdgAR  |
| <a href="#">Armenia</a> <sup>54</sup>             | AM       | #cofogAM  | #isicAM  | #AMlgu  | #sdgAM  |

<sup>47</sup><https://www.actor-atlas.info/initiative-books>

<sup>48</sup><http://www.actor-atlas.info/initiative-book:afghanistan>

<sup>49</sup><http://www.actor-atlas.info/initiative-book:albania>

<sup>50</sup><http://www.actor-atlas.info/initiative-book:algeria>

<sup>51</sup><http://www.actor-atlas.info/initiative-book:angola>

<sup>52</sup><http://www.actor-atlas.info/initiative-book:antigua-and-barbuda>

<sup>53</sup><http://www.actor-atlas.info/initiative-book:argentina>

<sup>54</sup><http://www.actor-atlas.info/initiative-book:armenia>

| Country                              | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|--------------------------------------|----------|-----------|----------|---------|---------|
| Aruba*                               | AW       | #cofogAW  | #isicAW  | #AWlgu  | #sdgAW  |
| Australia <sup>55</sup>              | AU       | #cofogAU  | #isicAU  | #AUlgu  | #sdgAU  |
| Austria <sup>56</sup>                | AT       | #cofogAT  | #isicAT  | #ATlgu  | #sdgAT  |
| The Bahamas <sup>57</sup>            | BS       | #cofogBS  | #isicBS  | #BSlgu  | #sdgBS  |
| Bahrain <sup>58</sup>                | BH       | #cofogBH  | #isicBH  | #BHlgu  | #sdgBH  |
| Bangladesh <sup>59</sup>             | BD       | #cofogBD  | #isicBD  | #BDlgu  | #sdgBD  |
| Barbados <sup>60</sup>               | BB       | #cofogBB  | #isicBB  | #BBlgu  | #sdgBB  |
| Belarus <sup>61</sup>                | BY       | #cofogBY  | #isicBY  | #BYlgu  | #sdgBY  |
| Belgium <sup>62</sup>                | BE       | #cofogBE  | #isicBE  | #BELgu  | #sdgBE  |
| Belize <sup>63</sup>                 | BZ       | #cofogBZ  | #isicBZ  | #BZlgu  | #sdgBZ  |
| Benin <sup>64</sup>                  | BJ       | #cofogBJ  | #isicBJ  | #BJlgu  | #sdgBJ  |
| Bermuda <sup>65</sup>                | BM       | #cofogBM  | #isicBM  | #BMlgu  | #sdgBM  |
| Bhutan <sup>66</sup>                 | BT       | #cofogBT  | #isicBT  | #BTlgu  | #sdgBT  |
| Bolivia <sup>67</sup>                | BO       | #cofogBO  | #isicBO  | #BOLgu  | #sdgBO  |
| Bonaire, Sint Eustatius and Saba*    | BQ       | #cofogBQ  | #isicBQ  | #BQlgu  | #sdgBQ  |
| Bosnia and Herzegovina <sup>68</sup> | BA       | #cofogBA  | #isicBA  | #BALgu  | #sdgBA  |
| Botswana <sup>69</sup>               | BW       | #cofogBW  | #isicBW  | #BWLgu  | #sdgBW  |
| Bouvet Island*                       | BV       | #cofogBV  | #isicBV  | #BVlgu  | #sdgBV  |
| Brazil <sup>70</sup>                 | BR       | #cofogBR  | #isicBR  | #BRlgu  | #sdgBR  |
| British Indian Ocean Territory*      | IO       | #cofogIO  | #isicIO  | #IOLgu  | #sdgIO  |
| Brunei Darussalam <sup>71</sup>      | BN       | #cofogBN  | #isicBN  | #BNlgu  | #sdgBN  |
| Bulgaria <sup>72</sup>               | BG       | #cofogBG  | #isicBG  | #BGlgu  | #sdgBG  |
| Burkina Faso <sup>73</sup>           | BF       | #cofogBF  | #isicBF  | #BFLgu  | #sdgBF  |
| Burundi <sup>74</sup>                | BI       | #cofogBI  | #isicBI  | #BIlgu  | #sdgBI  |
| Cambodia <sup>75</sup>               | KH       | #cofogKH  | #isicKH  | #KHLgu  | #sdgKH  |

<sup>55</sup><http://www.actor-atlas.info/initiative-book:australia>

<sup>56</sup><http://www.actor-atlas.info/initiative-book:austria>

<sup>57</sup><http://www.actor-atlas.info/initiative-book:bahamas>

<sup>58</sup><http://www.actor-atlas.info/initiative-book:bahrain>

<sup>59</sup><http://www.actor-atlas.info/initiative-book:bangladesh>

<sup>60</sup><http://www.actor-atlas.info/initiative-book:barbados>

<sup>61</sup><http://www.actor-atlas.info/initiative-book:belarus>

<sup>62</sup><http://www.actor-atlas.info/initiative-book:belgium>

<sup>63</sup><http://www.actor-atlas.info/initiative-book:belize>

<sup>64</sup><http://www.actor-atlas.info/initiative-book:benin>

<sup>65</sup><http://www.actor-atlas.info/initiative-book:bermuda>

<sup>66</sup><http://www.actor-atlas.info/initiative-book:bhutan>

<sup>67</sup><http://www.actor-atlas.info/initiative-book:bolivia>

<sup>68</sup><http://www.actor-atlas.info/initiative-book:bosnia-and-herzegovina>

<sup>69</sup><http://www.actor-atlas.info/initiative-book:botswana>

<sup>70</sup><http://www.actor-atlas.info/initiative-book:brazil>

<sup>71</sup><http://www.actor-atlas.info/initiative-book:brunei-darussalam>

<sup>72</sup><http://www.actor-atlas.info/initiative-book:bulgaria>

<sup>73</sup><http://www.actor-atlas.info/initiative-book:burkina-faso>

<sup>74</sup><http://www.actor-atlas.info/initiative-book:burundi>

<sup>75</sup><http://www.actor-atlas.info/initiative-book:cambodia>

| Country   | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|---|----------|-----------|----------|---------|---------|
| Cameroon <sup>76</sup>                          | CM       | #cofogCM  | #isicCM  | #CMIgu  | #sdgCM  |
| Canada <sup>77</sup>                            | CA       | #cofogCA  | #isicCA  | #CAIgu  | #sdgCA  |
| Cape Verde <sup>78</sup>                        | CV       | #cofogCV  | #isicCV  | #CVIgu  | #sdgCV  |
| Cayman Islands*                                 | KY       | #cofogKY  | #isicKY  | #KYIgu  | #sdgKY  |
| Central African Republic <sup>79</sup>          | CF       | #cofogCF  | #isicCF  | #CFIgu  | #sdgCF  |
| Chad <sup>80</sup>                              | TD       | #cofogTD  | #isicTD  | #TDIgu  | #sdgTD  |
| Chile <sup>81</sup>                             | CL       | #cofogCL  | #isicCL  | #CLIgu  | #sdgCL  |
| China <sup>82</sup>                             | CN       | #cofogCN  | #isicCN  | #CNIgu  | #sdgCN  |
| Christmas Island*                               | CX       | #cofogCX  | #isicCX  | #CXIgu  | #sdgCX  |
| Cocos (Keeling) Islands*                        | CC       | #cofogCC  | #isicCC  | #CCIgu  | #sdgCC  |
| Colombia <sup>83</sup>                          | CO       | #cofogCO  | #isicCO  | #COLgu  | #sdgCO  |
| Comoros <sup>84</sup>                           | KM       | #cofogKM  | #isicKM  | #KMIgu  | #sdgKM  |
| Congo <sup>85</sup>                             | CG       | #cofogCG  | #isicCG  | #CGIgu  | #sdgCG  |
| Congo, Democratic Republic of the <sup>86</sup> | CD       | #cofogCD  | #isicCD  | #CDIgu  | #sdgCD  |
| Cook Islands*                                   | CK       | #cofogCK  | #isicCK  | #CKIgu  | #sdgCK  |
| Costa Rica <sup>87</sup>                        | CR       | #cofogCR  | #isicCR  | #CRIgu  | #sdgCR  |
| Côte d'Ivoire <sup>88</sup>                     | CI       | #cofogCI  | #isicCI  | #CIIgu  | #sdgCI  |
| Croatia <sup>89</sup>                           | HR       | #cofogHR  | #isicHR  | #HRIgu  | #sdgHR  |

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<sup>76</sup><http://www.actor-atlas.info/initiative-book:cameroon>

<sup>77</sup><http://www.actor-atlas.info/initiative-book:canada>

<sup>78</sup><http://www.actor-atlas.info/initiative-book:cape-verde>

<sup>79</sup><http://www.actor-atlas.info/initiative-book:central-african-republic>

<sup>80</sup><http://www.actor-atlas.info/initiative-book:chad>

<sup>81</sup><http://www.actor-atlas.info/initiative-book:chile>

<sup>82</sup><http://www.actor-atlas.info/initiative-book:china>

<sup>83</sup><http://www.actor-atlas.info/initiative-book:colombia>

<sup>84</sup><http://www.actor-atlas.info/initiative-book:comoros>

<sup>85</sup><http://www.actor-atlas.info/initiative-book:congo-rep>

<sup>86</sup><http://www.actor-atlas.info/initiative-book:congo-dem-rep>

<sup>87</sup><http://www.actor-atlas.info/initiative-book:costa-rica>

<sup>88</sup><http://www.actor-atlas.info/initiative-book:cote-d-ivoire>

<sup>89</sup><http://www.actor-atlas.info/initiative-book:croatia>



| Country                          | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|----------------------------------|----------|-----------|----------|---------|---------|
| Cuba <sup>90</sup>               | CU       | #cofogCU  | #isicCU  | #CUlgu  | #sdgCU  |
| Curaçao*                         | CW       | #cofogCW  | #isicCW  | #CWlgu  | #sdgCW  |
| Cyprus <sup>91</sup>             | CY       | #cofogCY  | #isicCY  | #CYlgu  | #sdgCY  |
| Czech Republic <sup>92</sup>     | CZ       | #cofogCZ  | #isicCZ  | #CZlgu  | #sdgCZ  |
| Denmark <sup>93</sup>            | DK       | #cofogDK  | #isicDK  | #DKlgu  | #sdgDK  |
| Djibouti <sup>94</sup>           | DJ       | #cofogDJ  | #isicDJ  | #DJlgu  | #sdgDJ  |
| Dominica <sup>95</sup>           | DM       | #cofogDM  | #isicDM  | #DMLgu  | #sdgDM  |
| Dominican Republic <sup>96</sup> | DO       | #cofogDO  | #isicDO  | #DOlgu  | #sdgDO  |
| Ecuador <sup>97</sup>            | EC       | #cofogEC  | #isicEC  | #EClgu  | #sdgEC  |
| Egypt <sup>98</sup>              | EG       | #cofogEG  | #isicEG  | #EGlgu  | #sdgEG  |
| El Salvador <sup>99</sup>        | SV       | #cofogSV  | #isicSV  | #SVlgu  | #sdgSV  |
| Equatorial Guinea <sup>100</sup> | GQ       | #cofogGQ  | #isicGQ  | #GQlgu  | #sdgGQ  |
| Eritrea <sup>101</sup>           | ER       | #cofogER  | #isicER  | #ERlgu  | #sdgER  |
| Estonia <sup>102</sup>           | EE       | #cofogEE  | #isicEE  | #EElgu  | #sdgEE  |
| Ethiopia <sup>103</sup>          | ET       | #cofogET  | #isicET  | #ETlgu  | #sdgET  |
| Falkland Islands (Malvinas)*     | FK       | #cofogFK  | #isicFK  | #FKlgu  | #sdgFK  |
| Faroe Islands*                   | FO       | #cofogFO  | #isicFO  | #FOlgu  | #sdgFO  |
| Fiji <sup>104</sup>              | FJ       | #cofogFJ  | #isicFJ  | #FJlgu  | #sdgFJ  |
| Finland <sup>105</sup>           | FI       | #cofogFI  | #isicFI  | #FIlgu  | #sdgFI  |
| France <sup>106</sup>            | FR       | #cofogFR  | #isicFR  | #FRlgu  | #sdgFR  |
| French Guiana*                   | GF       | #cofogGF  | #isicGF  | #GFlgu  | #sdgGF  |
| French Polynesia*                | PF       | #cofogPF  | #isicPF  | #PFlgu  | #sdgPF  |
| French Southern Territories*     | TF       | #cofogTF  | #isicTF  | #TFlgu  | #sdgTF  |
| Gabon <sup>107</sup>             | GA       | #cofogGA  | #isicGA  | #GAlgu  | #sdgGA  |
| The Gambia <sup>108</sup>        | GM       | #cofogGM  | #isicGM  | #GMlgu  | #sdgGM  |
| Georgia <sup>109</sup>           | GE       | #cofogGE  | #isicGE  | #GElgu  | #sdgGE  |

<sup>90</sup><http://www.actor-atlas.info/initiative-book:cuba>

<sup>91</sup><http://www.actor-atlas.info/initiative-book:cyprus>

<sup>92</sup><http://www.actor-atlas.info/initiative-book:czech-republic>

<sup>93</sup><http://www.actor-atlas.info/initiative-book:denmark>

<sup>94</sup><http://www.actor-atlas.info/initiative-book:djibouti>

<sup>95</sup><http://www.actor-atlas.info/initiative-book:dominica>

<sup>96</sup><http://www.actor-atlas.info/initiative-book:dominican-republic>

<sup>97</sup><http://www.actor-atlas.info/initiative-book:ecuador>

<sup>98</sup><http://www.actor-atlas.info/initiative-book:egypt-arab-rep>

<sup>99</sup><http://www.actor-atlas.info/initiative-book:el-salvador>

<sup>100</sup><http://www.actor-atlas.info/initiative-book:equatorial-guinea>

<sup>101</sup><http://www.actor-atlas.info/initiative-book:eritrea>

<sup>102</sup><http://www.actor-atlas.info/initiative-book:estonia>

<sup>103</sup><http://www.actor-atlas.info/initiative-book:ethiopia>

<sup>104</sup><http://www.actor-atlas.info/initiative-book:fiji>

<sup>105</sup><http://www.actor-atlas.info/initiative-book:finland>

<sup>106</sup><http://www.actor-atlas.info/initiative-book:france>

<sup>107</sup><http://www.actor-atlas.info/initiative-book:gabon>

<sup>108</sup><http://www.actor-atlas.info/initiative-book:gambia-the>

<sup>109</sup><http://www.actor-atlas.info/initiative-book:georgia>

| Country                              | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|--------------------------------------|----------|-----------|----------|---------|---------|
| Germany <sup>110</sup>               | DE       | #cofogDE  | #isicDE  | #DElgu  | #sdgDE  |
| Ghana <sup>111</sup>                 | GH       | #cofogGH  | #isicGH  | #GHlgu  | #sdgGH  |
| Gibraltar*                           | GI       | #cofogGI  | #isicGI  | #GIlgu  | #sdgGI  |
| Greece <sup>112</sup>                | GR       | #cofogGR  | #isicGR  | #GRlgu  | #sdgGR  |
| Greenland*                           | GL       | #cofogGL  | #isicGL  | #GLlgu  | #sdgGL  |
| Grenada <sup>113</sup>               | GD       | #cofogGD  | #isicGD  | #GDlgu  | #sdgGD  |
| Guadeloupe*                          | GP       | #cofogGP  | #isicGP  | #GPlgu  | #sdgGP  |
| Guam*                                | GU       | #cofogGU  | #isicGU  | #GUlgu  | #sdgGU  |
| Guatemala <sup>114</sup>             | GT       | #cofogGT  | #isicGT  | #GTlgu  | #sdgGT  |
| Guernsey*                            | GG       | #cofogGG  | #isicGG  | #GGlgu  | #sdgGG  |
| Guinea <sup>115</sup>                | GN       | #cofogGN  | #isicGN  | #GNlgu  | #sdgGN  |
| Guinea-Bissau <sup>116</sup>         | GW       | #cofogGW  | #isicGW  | #GWlgu  | #sdgGW  |
| Guyana <sup>117</sup>                | GY       | #cofogGY  | #isicGY  | #GYlgu  | #sdgGY  |
| Haiti <sup>118</sup>                 | HT       | #cofogHT  | #isicHT  | #HTlgu  | #sdgHTG |
| Heard Island and McDonald Islands*   | HM       | #cofogHM  | #isicHM  | #HMIgu  | #sdgHM  |
| Holy See (Vatican City State)*       | VA       | #cofogVA  | #isicVA  | #VALgu  | #sdgVA  |
| Honduras <sup>119</sup>              | HN       | #cofogHN  | #isicHN  | #HNlgu  | #sdgHN  |
| Hong Kong <sup>120</sup>             | HK       | #cofogHK  | #isicHK  | #HKlgu  | #sdgHK  |
| Hungary <sup>121</sup>               | HU       | #cofogHU  | #isicHU  | #HUIgu  | #sdgHU  |
| Iceland <sup>122</sup>               | IS       | #cofogIS  | #isicIS  | #ISlgu  | #sdgIS  |
| India <sup>123</sup>                 | IN       | #cofogIN  | #isicIN  | #INlgu  | #sdgIN  |
| Indonesia <sup>124</sup>             | ID       | #cofogID  | #isicID  | #IDLgu  | #sdgID  |
| Iran, Islamic Rep. of <sup>125</sup> | IR       | #cofogIR  | #isicIR  | #IRlgu  | #sdgIR  |
| Iraq <sup>126</sup>                  | IQ       | #cofogIQ  | #isicIQ  | #IQlgu  | #sdgIQ  |
| Ireland <sup>127</sup>               | IE       | #cofogIE  | #isicIE  | #IELgu  | #sdgIE  |
| Isle of Man*                         | IM       | #cofogIM  | #isicIM  | #IMlgu  | #sdgIM  |

<sup>110</sup><http://www.actor-atlas.info/initiative-book:germany>

<sup>111</sup><http://www.actor-atlas.info/initiative-book:ghana>

<sup>112</sup><http://www.actor-atlas.info/initiative-book:greece>

<sup>113</sup><http://www.actor-atlas.info/initiative-book:grenada>

<sup>114</sup><http://www.actor-atlas.info/initiative-book:guatemala>

<sup>115</sup><http://www.actor-atlas.info/initiative-book:guinea>

<sup>116</sup><http://www.actor-atlas.info/initiative-book:guinea-bissau>

<sup>117</sup><http://www.actor-atlas.info/initiative-book:guyana>

<sup>118</sup><http://www.actor-atlas.info/initiative-book:haiti>

<sup>119</sup><http://www.actor-atlas.info/initiative-book:honduras>

<sup>120</sup><http://www.actor-atlas.info/initiative-book:hong-kong-china>

<sup>121</sup><http://www.actor-atlas.info/initiative-book:hungary>

<sup>122</sup><http://www.actor-atlas.info/initiative-book:iceland>

<sup>123</sup><http://www.actor-atlas.info/initiative-book:india>

<sup>124</sup><http://www.actor-atlas.info/initiative-book:indonesia>

<sup>125</sup><http://www.actor-atlas.info/initiative-book:iran-islamic-rep>

<sup>126</sup><http://www.actor-atlas.info/initiative-book:iraq>

<sup>127</sup><http://www.actor-atlas.info/initiative-book:ireland>

| Country                           | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|-----------------------------------|----------|-----------|----------|---------|---------|
| Israel <sup>128</sup>             | IL       | #cofogIL  | #isicIL  | #ILlgu  | #sdgIL  |
| Italy <sup>129</sup>              | IT       | #cofogIT  | #isicIT  | #ITlgu  | #sdgIT  |
| Jamaica <sup>130</sup>            | JM       | #cofogJM  | #isicJM  | #JMIgu  | #sdgJM  |
| Japan <sup>131</sup>              | JP       | #cofogJP  | #isicJP  | #JPIgu  | #sdgJP  |
| Jersey*                           | JE       | #cofogJE  | #isicJE  | #JElgu  | #sdgJE  |
| Jordan <sup>132</sup>             | JO       | #cofogJO  | #isicJO  | #JOlgu  | #sdgJO  |
| Kazakhstan <sup>133</sup>         | KZ       | #cofogKZ  | #isicKZ  | #KZlgu  | #sdgKZ  |
| Kenya <sup>134</sup>              | KE       | #cofogKE  | #isicKE  | #KElgu  | #sdgKE  |
| Kiribati <sup>135</sup>           | KI       | #cofogKI  | #isicKI  | #KIlgu  | #sdgKI  |
| Korea, DPR <sup>136</sup>         | KP       | #cofogKP  | #isicKP  | #KPIgu  | #sdgKP  |
| Korea, Republic of <sup>137</sup> | KR       | #cofogKR  | #isicKR  | #KRIgu  | #sdgKR  |
| Kuwait <sup>138</sup>             | KW       | #cofogKW  | #isicKW  | #KWlgu  | #sdgKW  |
| Kyrgyzstan <sup>139</sup>         | KG       | #cofogKG  | #isicKG  | #KGlgu  | #sdgKG  |
| Lao, PDR <sup>140</sup>           | LA       | #cofogLA  | #isicLA  | #LAlgu  | #sdgLA  |
| Latvia <sup>141</sup>             | LV       | #cofogLV  | #isicLV  | #LVlgu  | #sdgLV  |
| Lebanon <sup>142</sup>            | LB       | #cofogLB  | #isicLB  | #LBlgu  | #sdgLB  |
| Lesotho <sup>143</sup>            | LS       | #cofogLS  | #isicLS  | #LSlgu  | #sdgLSG |
| Liberia <sup>144</sup>            | LR       | #cofogLR  | #isicLR  | #LRlgu  | #sdgLR  |
| Libya <sup>145</sup>              | LY       | #cofogLY  | #isicLY  | #LYlgu  | #sdgLY  |
| Liechtenstein*                    | LI       | #cofogLI  | #isicLI  | #LIlgu  | #sdgAG  |
| Lithuania <sup>146</sup>          | LT       | #cofogLT  | #isicLT  | #LTlgu  | #sdgLT  |
| Luxembourg <sup>147</sup>         | LU       | #cofogLU  | #isicLU  | #LUlgu  | #sdgLU  |
| Macao*                            | MO       | #cofogMO  | #isicMO  | #MOlgu  | #sdgMO  |
| Macedonia, FYR <sup>148</sup>     | MK       | #cofogMK  | #isicMK  | #MKlgu  | #sdgMK  |
| Madagascar <sup>149</sup>         | MG       | #cofogMG  | #isicMG  | #MGIgu  | #sdgMG  |

<sup>128</sup><http://www.actor-atlas.info/initiative-book:israel>

<sup>129</sup><http://www.actor-atlas.info/initiative-book:italy>

<sup>130</sup><http://www.actor-atlas.info/initiative-book:jamaica>

<sup>131</sup><http://www.actor-atlas.info/initiative-book:japan>

<sup>132</sup><http://www.actor-atlas.info/initiative-book:jordan>

<sup>133</sup><http://www.actor-atlas.info/initiative-book:kazakhstan>

<sup>134</sup><http://www.actor-atlas.info/initiative-book:kenya>

<sup>135</sup><http://www.actor-atlas.info/initiative-book:kiribati>

<sup>136</sup><http://www.actor-atlas.info/initiative-book:korea-north>

<sup>137</sup><http://www.actor-atlas.info/initiative-book:korea-rep>

<sup>138</sup><http://www.actor-atlas.info/initiative-book:kuwait>

<sup>139</sup><http://www.actor-atlas.info/initiative-book:kyrgyz-republic>

<sup>140</sup><http://www.actor-atlas.info/initiative-book:lao-pdr>

<sup>141</sup><http://www.actor-atlas.info/initiative-book:latvia>

<sup>142</sup><http://www.actor-atlas.info/initiative-book:lebanon>

<sup>143</sup><http://www.actor-atlas.info/initiative-book:lesotho>

<sup>144</sup><http://www.actor-atlas.info/initiative-book:liberia>

<sup>145</sup><http://www.actor-atlas.info/initiative-book:libya>

<sup>146</sup><http://www.actor-atlas.info/initiative-book:lithuania>

<sup>147</sup><http://www.actor-atlas.info/initiative-book:luxembourg>

<sup>148</sup><http://www.actor-atlas.info/initiative-book:macedonia-fyr>

<sup>149</sup><http://www.actor-atlas.info/initiative-book:madagascar>

| Country                                | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|--|----------|-----------|----------|---------|---------|
| Malawi <sup>150</sup>                  | MW       | #cofogMW  | #isicMW  | #MWlgu  | #sdgMW  |
| Malaysia <sup>151</sup>                | MY       | #cofogMY  | #isicMY  | #MYlgu  | #sdgMY  |
| Maldives <sup>152</sup>                | MV       | #cofogMV  | #isicMV  | #MVlgu  | #sdgMV  |
| Mali <sup>153</sup>                    | ML       | #cofogML  | #isicML  | #MLlgu  | #sdgML  |
| Malta <sup>154</sup>                   | MT       | #cofogMT  | #isicMT  | #MTlgu  | #sdgMT  |
| Marshall Islands <sup>155</sup>        | MH       | #cofogMH  | #isicMH  | #MHlgu  | #sdgMH  |
| Martinique*                            | MQ       | #cofogMQ  | #isicMQ  | #MQlgu  | #sdgMQ  |
| Mauritania <sup>156</sup>              | MR       | #cofogMR  | #isicMR  | #MRlgu  | #sdgMR  |
| Mauritius <sup>157</sup>               | MU       | #cofogMU  | #isicMU  | #MUlgu  | #sdgMU  |
| Mayotte*                               | YT       | #cofogYT  | #isicYT  | #Ylgu   | #sdgYT  |
| Mexico <sup>158</sup>                  | MX       | #cofogMX  | #isicMX  | #MXlgu  | #sdgMX  |
| Micronesia, Fed. States <sup>159</sup> | FM       | #cofogFM  | #isicFM  | #FMlgu  | #sdgFM  |
| Moldova, Republic of <sup>160</sup>    | MD       | #cofogMD  | #isicMD  | #MDlgu  | #sdgMD  |
| Monaco*                                | MC       | #cofogMC  | #isicMC  | #MClgu  | #sdgMC  |
| Mongolia <sup>161</sup>                | MN       | #cofogMN  | #isicMN  | #MNIgu  | #sdgMN  |
| Montenegro <sup>162</sup>              | ME       | #cofogME  | #isicME  | #MElgu  | #sdgME  |
| Montserrat*                            | MS       | #cofogMS  | #isicMS  | #MSlgu  | #sdgMS  |
| Morocco <sup>163</sup>                 | MA       | #cofogMA  | #isicMA  | #MAlgu  | #sdgMA  |
| Mozambique <sup>164</sup>              | MZ       | #cofogMZ  | #isicMZ  | #MZlgu  | #sdgMZ  |
| Myanmar <sup>165</sup>                 | MM       | #cofogMM  | #isicMM  | #MMlgu  | #sdgMM  |
| Namibia <sup>166</sup>                 | NA       | #cofogNA  | #isicNA  | #NAlgu  | #sdgNA  |
| Nauru*                                 | NR       | #cofogNR  | #isicNR  | #NRlgu  | #sdgNR  |
| Nepal <sup>167</sup>                   | NP       | #cofogNP  | #isicNP  | #NPlgu  | #sdgNP  |
| Netherlands <sup>168</sup>             | NL       | #cofogNL  | #isicNL  | #NLlgu  | #sdgNL  |
| New Caledonia*                         | NC       | #cofogNC  | #isicNC  | #NClgu  | #sdgNC  |
| New Zealand <sup>169</sup>             | NZ       | #cofogNZ  | #isicNZ  | #NZlgu  | #sdgNZ  |

<sup>150</sup><http://www.actor-atlas.info/initiative-book-malawi>

<sup>151</sup><http://www.actor-atlas.info/initiative-book-malaysia>

<sup>152</sup><http://www.actor-atlas.info/initiative-book-maldives>

<sup>153</sup><http://www.actor-atlas.info/initiative-book-mali>

<sup>154</sup><http://www.actor-atlas.info/initiative-book-malta>

<sup>155</sup><http://www.actor-atlas.info/initiative-book-marshall-islands>

<sup>156</sup><http://www.actor-atlas.info/initiative-book-mauritania>

<sup>157</sup><http://www.actor-atlas.info/initiative-book-mauritius>

<sup>158</sup><http://www.actor-atlas.info/initiative-book-mexico>

<sup>159</sup><http://www.actor-atlas.info/initiative-book-micronesia-fed-sts>

<sup>160</sup><http://www.actor-atlas.info/initiative-book-moldova>

<sup>161</sup><http://www.actor-atlas.info/initiative-book-mongolia>

<sup>162</sup><http://www.actor-atlas.info/initiative-book-montenegro>

<sup>163</sup><http://www.actor-atlas.info/initiative-book-morocco>

<sup>164</sup><http://www.actor-atlas.info/initiative-book-mozambique>

<sup>165</sup><http://www.actor-atlas.info/initiative-book-myanmar>

<sup>166</sup><http://www.actor-atlas.info/initiative-book-namibia>

<sup>167</sup><http://www.actor-atlas.info/initiative-book-nepal>

<sup>168</sup><http://www.actor-atlas.info/initiative-book-netherlands>

<sup>169</sup><http://www.actor-atlas.info/initiative-book-new-zealand>

| Country                            | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|------------------------------------|----------|-----------|----------|---------|---------|
| Nicaragua <sup>170</sup>           | NI       | #cofogNI  | #isicNI  | #NIlgu  | #sdgNI  |
| Niger <sup>171</sup>               | NE       | #cofogNE  | #isicNE  | #NElgu  | #sdgNE  |
| Nigeria <sup>172</sup>             | NG       | #cofogNG  | #isicNG  | #NGLgu  | #sdgNG  |
| Niue*                              | NU       | #cofogNU  | #isicNU  | #NULgu  | #sdgNU  |
| Norfolk Island*                    | NF       | #cofogNF  | #isicNF  | #NFLgu  | #sdgNF  |
| Northern Mariana Islands*          | MP       | #cofogMP  | #isicMP  | #MPlgu  | #sdgMP  |
| Norway <sup>173</sup>              | NO       | #cofogNO  | #isicNO  | #NOLgu  | #sdgNO  |
| Oman <sup>174</sup>                | OM       | #cofogOM  | #isicOM  | #OMlgu  | #sdgOM  |
| Pakistan <sup>175</sup>            | PK       | #cofogPK  | #isicPK  | #PKlgu  | #sdgPK  |
| Palau <sup>176</sup>               | PW       | #cofogPW  | #isicPW  | #PWlgu  | #sdgPW  |
| Palestine, State of <sup>177</sup> | PS       | #cofogPS  | #isicPS  | #PSlgu  | #sdgPS  |
| Panama <sup>178</sup>              | PA       | #cofogPA  | #isicPA  | #PALgu  | #sdgPA  |
| Papua New Guinea <sup>179</sup>    | PG       | #cofogPG  | #isicPG  | #PGlgu  | #sdgPG  |
| Paraguay <sup>180</sup>            | PY       | #cofogPY  | #isicPY  | #PYlgu  | #sdgPY  |
| Peru <sup>181</sup>                | PE       | #cofogPE  | #isicPE  | #PElgu  | #sdgPE  |
| Philippines <sup>182</sup>         | PH       | #cofogPH  | #isicPH  | #PHlgu  | #sdgPH  |
| Pitcairn*                          | PN       | #cofogPN  | #isicPN  | #PNlgu  | #sdgPN  |
| Poland <sup>183</sup>              | PL       | #cofogPL  | #isicPL  | #PLlgu  | #sdgPL  |
| Portugal <sup>184</sup>            | PT       | #cofogPT  | #isicPT  | #PTlgu  | #sdgPT  |
| Puerto Rico <sup>185</sup>         | PR       | #cofogPR  | #isicPR  | #PRlgu  | #sdgPR  |
| Qatar <sup>186</sup>               | QA       | #cofogQA  | #isicQA  | #QAlgu  | #sdgQA  |
| Réunion*                           | RE       | #cofogRE  | #isicRE  | #RElgu  | #sdgRE  |
| Romania <sup>187</sup>             | RO       | #cofogRO  | #isicRO  | #ROlgu  | #sdgRO  |
| Russian Federation <sup>188</sup>  | RU       | #cofogRU  | #isicRU  | #RULgu  | #sdgRU  |
| Rwanda <sup>189</sup>              | RW       | #cofogRW  | #isicRW  | #RWlgu  | #sdgRW  |
| St. Barthélemy*                    | BL       | #cofogBL  | #isicBL  | #BLlgu  | #sdgBL  |

<sup>170</sup><http://www.actor-atlas.info/initiative-book:nicaragua>

<sup>171</sup><http://www.actor-atlas.info/initiative-book:niger>

<sup>172</sup><http://www.actor-atlas.info/initiative-book:nigeria>

<sup>173</sup><http://www.actor-atlas.info/initiative-book:norway>

<sup>174</sup><http://www.actor-atlas.info/initiative-book:oman>

<sup>175</sup><http://www.actor-atlas.info/initiative-book:pakistan>

<sup>176</sup><http://www.actor-atlas.info/initiative-book:palau>

<sup>177</sup><http://www.actor-atlas.info/initiative-book:west-bank-and-gaza>

<sup>178</sup><http://www.actor-atlas.info/initiative-book:panama>

<sup>179</sup><http://www.actor-atlas.info/initiative-book:papua-new-guinea>

<sup>180</sup><http://www.actor-atlas.info/initiative-book:paraguay>

<sup>181</sup><http://www.actor-atlas.info/initiative-book:peru>

<sup>182</sup><http://www.actor-atlas.info/initiative-book:philippines>

<sup>183</sup><http://www.actor-atlas.info/initiative-book:poland>

<sup>184</sup><http://www.actor-atlas.info/initiative-book:portugal>

<sup>185</sup><http://www.actor-atlas.info/initiative-book:puerto-rico>

<sup>186</sup><http://www.actor-atlas.info/initiative-book:qatar>

<sup>187</sup><http://www.actor-atlas.info/initiative-book:romania>

<sup>188</sup><http://www.actor-atlas.info/initiative-book:russian-federation>

<sup>189</sup><http://www.actor-atlas.info/initiative-book:rwanda>

| Country   | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|---|----------|-----------|----------|---------|---------|
| St. Helena, Ascension and<br>Tristan da Cunha*                    | SH       | #cofogSH  | #isicSH  | #SHlgu  | #sdgSH  |
| <a href="#">St. Kitts and Nevis</a> <sup>190</sup>                | KN       | #cofogKN  | #isicKN  | #KNlgu  | #sdgKN  |
| <a href="#">St. Lucia</a> <sup>191</sup>                          | LC       | #cofogLC  | #isicLC  | #LClgu  | #sdgLC  |
| St. Maarten (French Part)*  | MF       | #cofogMF  | #isicMF  | #MFlgu  | #sdgMF  |
| St. Pierre and Miquelon*  | PM       | #cofogPM  | #isicPM  | #PMlgu  | #sdgPM  |
| <a href="#">St. Vincent and the<br/>Grenadines</a> <sup>192</sup> | VC       | #cofogVC  | #isicVC  | #VClgu  | #sdgVC  |
| Samoa*  | WS       | #cofogWS  | #isicWS  | #WSlgu  | #sdgWS  |
| San Marino*   | SM       | #cofogSM  | #isicSM  | #SMlgu  | #sdgSM  |

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<sup>190</sup><http://www.actor-atlas.info/initiative-book:st-kitts-and-nevis>

<sup>191</sup><http://www.actor-atlas.info/initiative-book:st-lucia>

<sup>192</sup><http://www.actor-atlas.info/initiative-book:st-vincent-and-the-grenadines>

| Country  | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|--|----------|-----------|----------|---------|---------|
| São Tomé and Príncipe <sup>193</sup>             | ST       | #cofogST  | #isicST  | #STlgu  | #sdgST  |
| Saudi Arabia <sup>194</sup>                      | SA       | #cofogSA  | #isicSA  | #SAlgu  | #sdgSA  |
| Senegal <sup>195</sup>                           | SN       | #cofogSN  | #isicSN  | #SNlgu  | #sdgSN  |
| Serbia <sup>196</sup>                            | RS       | #cofogRS  | #isicRS  | #RSlgu  | #sdgRS  |
| Seychelles <sup>197</sup>                        | SC       | #cofogSC  | #isicSC  | #SClgu  | #sdgSC  |
| Sierra Leone <sup>198</sup>                      | SL       | #cofogSL  | #isicSL  | #SLlgu  | #sdgSL  |
| Singapore <sup>199</sup>                         | SG       | #cofogSG  | #isicSG  | #SGlgu  | #sdgSG  |
| Sint Maarten (Dutch Part)*                       | SX       | #cofogSX  | #isicSX  | #SXlgu  | #sdgSX  |
| Slovakia <sup>200</sup>                          | SK       | #cofogSK  | #isicSK  | #SKlgu  | #sdgSK  |
| Slovenia <sup>201</sup>                          | SI       | #cofogSI  | #isicSI  | #SIlgu  | #sdgSI  |
| Solomon Islands <sup>202</sup>                   | SB       | #cofogSB  | #isicSB  | #SBlgu  | #sdgSB  |
| Somalia <sup>203</sup>                           | SO       | #cofogSO  | #isicSO  | #SOlgu  | #sdgSO  |
| South Africa <sup>204</sup>                      | ZA       | #cofogZA  | #isicZA  | #ZAlgu  | #sdgZA  |
| South Georgia and the South<br>Sandwich Islands* | GS       | #cofogGS  | #isicGS  | #GSlgu  | #sdgGS  |
| South Sudan <sup>205</sup>                       | SS       | #cofogSS  | #isicSS  | #SSLgu  | #sdgSS  |
| Spain <sup>206</sup>                             | ES       | #cofogES  | #isicES  | #ESlgu  | #sdgES  |
| Sri Lanka <sup>207</sup>                         | LK       | #cofogLK  | #isicLK  | #LKlgu  | #sdgLK  |
| Sudan <sup>208</sup>                             | SD       | #cofogSD  | #isicSD  | #SDLgu  | #sdgSD  |
| Suriname <sup>209</sup>                          | SR       | #cofogSR  | #isicSR  | #SRLgu  | #sdgSR  |
| Svalbard and Jan Mayen*                          | SJ       | #cofogSJ  | #isicSJ  | #SJlgu  | #sdgSJ  |

<sup>193</sup><http://www.actor-atlas.info/initiative-book:sao-tome-and-principe>

<sup>194</sup><http://www.actor-atlas.info/initiative-book:saudi-arabia>

<sup>195</sup><http://www.actor-atlas.info/initiative-book:senegal>

<sup>196</sup><http://www.actor-atlas.info/initiative-book:serbia>

<sup>197</sup><http://www.actor-atlas.info/initiative-book:seychelles>

<sup>198</sup><http://www.actor-atlas.info/initiative-book:sierra-leone>

<sup>199</sup><http://www.actor-atlas.info/initiative-book:singapore>

<sup>200</sup><http://www.actor-atlas.info/initiative-book:slovak-republic>

<sup>201</sup><http://www.actor-atlas.info/initiative-book:slovenia>

<sup>202</sup><http://www.actor-atlas.info/initiative-book:solomon-islands>

<sup>203</sup><http://www.actor-atlas.info/initiative-book:somalia>

<sup>204</sup><http://www.actor-atlas.info/initiative-book:south-africa>

<sup>205</sup><http://www.actor-atlas.info/initiative-book:south-sudan>

<sup>206</sup><http://www.actor-atlas.info/initiative-book:spain>

<sup>207</sup><http://www.actor-atlas.info/initiative-book:sri-lanka>

<sup>208</sup><http://www.actor-atlas.info/initiative-book:sudan>

<sup>209</sup><http://www.actor-atlas.info/initiative-book:suriname>

| Country                             | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|-------------------------------------|----------|-----------|----------|---------|---------|
| Swaziland <sup>210</sup>            | SZ       | #cofogSZ  | #isicSZ  | #SZlgu  | #sdgSZ  |
| Sweden <sup>211</sup>               | SE       | #cofogSE  | #isicSE  | #SElgu  | #sdgSE  |
| Switzerland <sup>212</sup>          | CH       | #cofogCH  | #isicCH  | #CHlgu  | #sdgCH  |
| Syrian Arab Republic <sup>213</sup> | SY       | #cofogSY  | #isicSY  | #SYlgu  | #sdgSY  |
| Taiwan <sup>214</sup>               | TW       | #cofogTW  | #isicTW  | #TWlgu  | #sdgTW  |
| Tajikistan <sup>215</sup>           | TJ       | #cofogTJ  | #isicTJ  | #TJlgu  | #sdgTJ  |
| Tanzania <sup>216</sup>             | TZ       | #cofogTZ  | #isicTZ  | #TZlgu  | #sdgTZ  |
| Thailand <sup>217</sup>             | TH       | #cofogTH  | #isicTH  | #THlgu  | #sdgTH  |
| Timor-Leste <sup>218</sup>          | TL       | #cofogTL  | #isicTL  | #TLlgu  | #sdgTL  |
| Togo <sup>219</sup>                 | TG       | #cofogTG  | #isicTG  | #TGlgu  | #sdgTG  |
| Tokelau*                            | TK       | #cofogTK  | #isicTK  | #TKlgu  | #sdgTK  |
| Tonga <sup>220</sup>                | TO       | #cofogTO  | #isicTO  | #TOlgu  | #sdgTO  |
| Trinidad and Tobago <sup>221</sup>  | TT       | #cofogTT  | #isicTT  | #TTlgu  | #sdgTT  |
| Tunisia <sup>222</sup>              | TN       | #cofogTN  | #isicTN  | #TNlgu  | #sdgTN  |
| Turkey <sup>223</sup>               | TR       | #cofogTR  | #isicTR  | #TRLgu  | #sdgTR  |
| Turkmenistan <sup>224</sup>         | TM       | #cofogTM  | #isicTM  | #TMLgu  | #sdgTM  |
| Turks and Caicos Islands*           | TC       | #cofogTC  | #isicTC  | #TClgu  | #sdgTC  |
| Tuvalu*                             | TV       | #cofogTV  | #isicTV  | #TVlgu  | #sdgTV  |
| Uganda <sup>225</sup>               | UG       | #cofogUG  | #isicUG  | #UGlgu  | #sdgUG  |
| Ukraine <sup>226</sup>              | UA       | #cofogUA  | #isicUA  | #UALgu  | #sdgUA  |
| United Arab Emirates <sup>227</sup> | AE       | #cofogAE  | #isicAE  | #AElgu  | #sdgAE  |

<sup>210</sup><http://www.actor-atlas.info/initiative-book:swaziland>

<sup>211</sup><http://www.actor-atlas.info/initiative-book:sweden>

<sup>212</sup><http://www.actor-atlas.info/initiative-book:switzerland>

<sup>213</sup><http://www.actor-atlas.info/initiative-book:syrian-arab-republic>

<sup>214</sup><http://www.actor-atlas.info/initiative-book:taiwan-china>

<sup>215</sup><http://www.actor-atlas.info/initiative-book:tajikistan>

<sup>216</sup><http://www.actor-atlas.info/initiative-book:tanzania>

<sup>217</sup><http://www.actor-atlas.info/initiative-book:thailand>

<sup>218</sup><http://www.actor-atlas.info/initiative-book:timor-leste>

<sup>219</sup><http://www.actor-atlas.info/initiative-book:togo>

<sup>220</sup><http://www.actor-atlas.info/initiative-book:tonga>

<sup>221</sup><http://www.actor-atlas.info/initiative-book:trinidad-and-tobago>

<sup>222</sup><http://www.actor-atlas.info/initiative-book:tunisia>

<sup>223</sup><http://www.actor-atlas.info/initiative-book:turkey>

<sup>224</sup><http://www.actor-atlas.info/initiative-book:turkmenistan>

<sup>225</sup><http://www.actor-atlas.info/initiative-book:uganda>

<sup>226</sup><http://www.actor-atlas.info/initiative-book:ukraine>

<sup>227</sup><http://www.actor-atlas.info/initiative-book:united-arab-emirates>



| Country  | ISO code | cofog tag | isic tag | lgu tag | sdg tag |
|--|----------|-----------|----------|---------|---------|
| <a href="#">United Kingdom</a> <sup>228</sup>                        | GB       | #cofogGB  | #isicGB  | #GBlgu  | #sdgGB  |
| <a href="#">United States of America</a> <sup>229</sup>              | US       | #cofogUS  | #isicUS  | #USlgu  | #sdgUS  |
| United States of America Minor<br>Outlying Islands                   | UM       | #cofogUM  | #isicUM  | #UMlgu  | #sdgUM  |
| <a href="#">Uruguay</a> <sup>230</sup>                               | UY       | #cofogUY  | #isicUY  | #UYlgu  | #sdgUY  |
| <a href="#">Uzbekistan</a> <sup>231</sup>                            | UZ       | #cofogUZ  | #isicUZ  | #UZlgu  | #sdgUZ  |
| <a href="#">Vanuatu</a> <sup>232</sup>                               | VU       | #cofogVU  | #isicVU  | #VUlgu  | #sdgVU  |
| <a href="#">Venezuela, Bolivarian Republic<br/>of</a> <sup>233</sup> | VE       | #cofogVE  | #isicVE  | #VELgu  | #sdgVE  |
| <a href="#">Vietnam</a> <sup>234</sup>                               | VN       | #cofogVN  | #isicVN  | #VNIgu  | #sdgVN  |
| Virgin Islands, British*   | VG       | #cofogVG  | #isicVG  | #VGlgu  | #sdgVG  |
| Virgin Islands, U.S.*  | VI       | #cofogVI  | #isicVI  | #VIlgu  | #sdgVI  |
| Wallis and Futuna*   | WF       | #cofogWF  | #isicWF  | #WFlgu  | #sdgWF  |
| Western Sahara*  | EH       | #cofogEH  | #isicEH  | #EHIgu  | #sdgEH  |
| <a href="#">Yemen</a> <sup>235</sup>                                 | YE       | #cofogYE  | #isicYE  | #YElgu  | #sdgYE  |
| <a href="#">Zambia</a> <sup>236</sup>                                | ZM       | #cofogZM  | #isicZM  | #ZMIgu  | #sdgZM  |
| <a href="#">Zimbabwe</a> <sup>237</sup>                              | ZW       | #cofogZW  | #isicZW  | #ZWlgu  | #sdgZW  |

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<sup>228</sup><http://www.actor-atlas.info/initiative-book:united-kingdom>

<sup>229</sup><http://www.actor-atlas.info/initiative-book:united-states>

<sup>230</sup><http://www.actor-atlas.info/initiative-book:uruguay>

<sup>231</sup><http://www.actor-atlas.info/initiative-book:uzbekistan>

<sup>232</sup><http://www.actor-atlas.info/initiative-book:vanuatu>

<sup>233</sup><http://www.actor-atlas.info/initiative-book:venezuela-r-b>

<sup>234</sup><http://www.actor-atlas.info/initiative-book:vietnam>

<sup>235</sup><http://www.actor-atlas.info/initiative-book:yemen>

<sup>236</sup><http://www.actor-atlas.info/initiative-book:zambia>

<sup>237</sup><http://www.actor-atlas.info/initiative-book:zimbabwe>

# Annex 2 - Classification of the Functions of Government (COFOG)

COFOG is the abbreviation of *Classification of the Functions of Government*. The full structure and definition of each of the over 100 classes can be found in a publication of the United Nations Statistics Division: [Classifications of Expenditure According to Purpose: Classification of the Functions of Government \(COFOG\)](#); [Classification of Individual Consumption According to Purpose \(COICOP\)](#); [Classification of the Purposes of Non-Profit Institutions Serving Households \(COPNI\)](#); [Classification of the Outlays of Producers According to Purpose \(COPP\)](#)<sup>238</sup> at the website of the United Nations Statistics Division. In the below list of the COFOG sections and classes there is a link to their definitions in the [Ens wiki](#)<sup>239</sup>.

A first table lists the sections in the classification. Next the classes are listed for each of the tens sections. In the COFOG class names, four abbreviations are frequently used: CS, IS, R&D and n.e.c. CS means *collective services*, IS means *individual services*, R&D means *Research and Development* and n.e.c. means *not elsewhere classified*.

| cofog #tag | COFOG Section                         |
|------------|---------------------------------------|
| #cofog01   | 01 - General Public Services          |
| #cofog02   | 02 - Defence                          |
| #cofog03   | 03 - Public Order and Safety          |
| #cofog04   | 04 - Economic Affairs                 |
| #cofog05   | 05 - Environmental Protection         |
| #cofog06   | 06 - Housing and Community Amenities  |
| #cofog07   | 07 - Health                           |
| #cofog08   | 08 - Recreation, Culture and Religion |
| #cofog09   | 09 - Education                        |
| #cofog10   | 10 - Social Protection                |

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<sup>238</sup><https://unstats.un.org/unsd/publications/catalogue?selectID=145>

<sup>239</sup><http://www.ens.wiki/item:hashtag-cofog>

## COFOG 01 - General Public Services

The COFOG section **01 - General Public Services**<sup>240</sup> contains the classes in the below table.

| cofog #tag | Class name   |
|------------|--|
| #cofog0111 | Executive and legislative organs (CS)  |
| #cofog0112 | Financial and fiscal affairs (CS)  |
| #cofog0113 | External affairs (CS)  |
| #cofog0121 | Economic aid to developing countries and countries in transition (CS)        |
| #cofog0122 | Economic aid routed through international organizations (CS)                 |
| #cofog0131 | General personnel services (CS)  |
| #cofog0132 | Overall planning and statistical services (CS)                               |
| #cofog0133 | Other general services (CS)  |
| #cofog0140 | Basic research (CS)  |
| #cofog0150 | R&D General public services (CS)   |
| #cofog0160 | General public services n.e.c. (CS)  |
| #cofog0170 | Public debt transactions (CS)  |
| #cofog0180 | Transfers of a general character between different levels of government (CS) |

## COFOG 02 - Defence

The COFOG section **02 - Defence**<sup>241</sup> contains the classes in the below table.

| cofog tag  | Class name                |
|------------|---------------------------|
| #cofog0210 | Military defence (CS)     |
| #cofog0220 | Civil defence (CS)        |
| #cofog0230 | Foreign military aid (CS) |
| #cofog0240 | R&D Defence (CS)          |
| #cofog0250 | Defence n.e.c. (CS)       |

## COFOG 03 - Public Order and Safety

The COFOG section **03 - Public Order and Safety**<sup>242</sup> contains the classes in the below table.

<sup>240</sup><http://www.ens.wiki/item:cofog01>

<sup>241</sup><http://www.ens.wiki/item:cofog02>

<sup>242</sup><http://www.ens.wiki/item:cofog03>

| <b>cofog tag</b> | <b>Class name</b>                   |
|------------------|-------------------------------------|
| #cofog0310       | Police services (CS)                |
| #cofog0320       | Fire-protection services (CS)       |
| #cofog0330       | Law courts (CS)                     |
| #cofog0340       | Prisons (CS)                        |
| #cofog0350       | R&D Public order and safety (CS)    |
| #cofog0360       | Public order and safety n.e.c. (CS) |

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## COFOG 04 - Economic Affairs

The COFOG section **04 - Economic Affairs**<sup>243</sup> contains the classes in the below table.

| cofog tag  | Class name  |
|------------|---|
| #cofog0411 | General economic and commercial affairs (CS)              |
| #cofog0412 | General labour affairs (CS)                               |
| #cofog0421 | Agriculture (CS)  |
| #cofog0422 | Forestry (CS)   |
| #cofog0423 | Fishing and hunting (CS)                                  |
| #cofog0431 | Coal and other solid mineral fuels (CS)                   |
| #cofog0432 | Petroleum and natural gas (CS)                            |
| #cofog0433 | Nuclear fuel (CS)   |
| #cofog0434 | Other fuels (CS)  |
| #cofog0435 | Electricity (CS)  |
| #cofog0436 | Non-electric energy (CS)                                  |
| #cofog0441 | Mining of mineral resources other than mineral fuels (CS) |
| #cofog0442 | Manufacturing (CS)  |
| #cofog0443 | Construction (CS)   |
| #cofog0451 | Road transport (CS)                                       |
| #cofog0452 | Water transport (CS)                                      |
| #cofog0453 | Railway transport (CS)                                    |
| #cofog0454 | Air transport (CS)  |
| #cofog0455 | Pipeline and other transport (CS)                         |
| #cofog0460 | Communication (CS)  |
| #cofog0471 | Distributive trades, storage and warehousing (CS)         |
| #cofog0472 | Hotels and restaurants (CS)                               |
| #cofog0473 | Tourism (CS)  |
| #cofog0474 | Multi-purpose development projects (CS)                   |
| #cofog0481 | R&D General economic, commercial and labour affairs (CS)  |
| #cofog0482 | R&D Agriculture, forestry, fishing and hunting (CS)       |
| #cofog0483 | R&D Fuel and energy (CS)                                  |
| #cofog0484 | R&D Mining, manufacturing and construction (CS)           |
| #cofog0485 | R&D Transport (CS)  |
| #cofog0486 | R&D Communication (CS)                                    |
| #cofog0487 | R&D Other industries (CS)                                 |
| #cofog0490 | Economic affairs n.e.c. (CS)                              |

<sup>243</sup><http://www.ens.wiki/item:cofog04>

## COFOG 05 - Environmental Protection

The COFOG section [05 - Environmental Protection](#)<sup>244</sup> contains the classes in the below table.

| cofog tag  | Class name                                    |
|------------|---|
| #cofog0510 | Waste management (CS)                         |
| #cofog0520 | Waste water management (CS)                   |
| #cofog0530 | Pollution abatement (CS)                      |
| #cofog0540 | Protection of biodiversity and landscape (CS) |
| #cofog0550 | R&D Environmental protection (CS)             |
| #cofog0560 | Environmental protection n.e.c. (CS)          |

## COFOG 06 - Housing and Community Amenities

The COFOG section [06 - Housing and Community Amenities](#)<sup>245</sup> contains the classes in the below table.

| cofog tag  | Class name                                  |
|------------|---|
| #cofog0610 | Housing development (CS)                    |
| #cofog0620 | Community development (CS)                  |
| #cofog0630 | Water supply (CS)                           |
| #cofog0640 | Street lighting (CS)                        |
| #cofog0650 | R&D Housing and community amenities (CS)    |
| #cofog0660 | Housing and community amenities n.e.c. (CS) |

<sup>244</sup><http://www.ens.wiki/item:cofog05>

<sup>245</sup><http://www.ens.wiki/item:cofog06>

## COFOG 07 - Health

The COFOG section [07 - Health](#)<sup>246</sup> contains the classes in the below table.

| cofog tag  | Class name                                  |
|------------|---|
| #cofog0711 | Pharmaceutical products (IS)                |
| #cofog0712 | Other medical products (IS)                 |
| #cofog0713 | Therapeutic appliances and equipment (IS)   |
| #cofog0721 | General medical services (IS)               |
| #cofog0722 | Specialized medical services (IS)           |
| #cofog0723 | Dental services (IS)                        |
| #cofog0724 | General hospital services (IS)              |
| #cofog0732 | Specialized hospital services (IS)          |
| #cofog0733 | Medical and maternity centre services (IS)  |
| #cofog0734 | Nursing and convalescent home services (IS) |
| #cofog0740 | Public health services (IS)                 |
| #cofog0750 | R&D Health (CS)                             |
| #cofog0760 | Health n.e.c. (CS)                          |

## COFOG 08 - Recreation, Culture and Religion

The COFOG section [08 - Recreation, Culture and Religion](#)<sup>247</sup> contains the classes in the below table.

| cofog tag  | Class name                                   |
|------------|--|
| #cofog0810 | Recreational and sporting services (IS)      |
| #cofog0820 | Cultural services (IS)                       |
| #cofog0830 | Broadcasting and publishing services (CS)    |
| #cofog0840 | Religious and other community services (CS)  |
| #cofog0850 | R&D Recreation, culture and religion (CS)    |
| #cofog0860 | Recreation, culture and religion n.e.c. (CS) |

<sup>246</sup><http://www.ens.wiki/item:cofog07>

<sup>247</sup><http://www.ens.wiki/item:cofog08>

## COFOG 09 - Education

The COFOG section **09 - Education**<sup>248</sup> contains the classes in the below table.

| cofog tag  | Class name                                 |
|------------|--|
| #cofog0911 | Pre-primary education (IS)                 |
| #cofog0912 | Primary education (IS)                     |
| #cofog0921 | Lower-secondary education (IS)             |
| #cofog0922 | Upper-secondary education (IS)             |
| #cofog0930 | Post-secondary non-tertiary education (IS) |
| #cofog0941 | First stage of tertiary education (IS)     |
| #cofog0942 | Second stage of tertiary education (IS)    |
| #cofog0950 | Education not definable by level (IS)      |
| #cofog0960 | Subsidiary services to education (IS)      |
| #cofog0970 | R&D Education (CS)                         |
| #cofog0980 | Education n.e.c. (CS)                      |

## COFOG 10 - Social Protection

The COFOG section **10 - Social Protection**<sup>249</sup> contains the classes in the below table.

| cofog tag  | Class name                    |
|------------|-------------------------------|
| #cofog1011 | Sickness (IS)                 |
| #cofog1012 | Disability (IS)               |
| #cofog1020 | Old age (IS)                  |
| #cofog1030 | Survivors (IS)                |
| #cofog1040 | Family and children (IS)      |
| #cofog1050 | Unemployment (IS)             |
| #cofog1060 | Housing (IS)                  |
| #cofog1070 | Social exclusion n.e.c. (IS)  |
| #cofog1080 | R&D Social protection (CS)    |
| #cofog1090 | Social protection n.e.c. (CS) |

<sup>248</sup><http://www.ens.wiki/item:cofog09>

<sup>249</sup><http://www.ens.wiki/item:cofog10>



# Annex 3 - International Standard Industrial Classification (ISIC)

ISIC is the abbreviation of *International Standard Industrial Classification of All Economic Activities*. In this booklet the tags are defined on the basis of the classes in revision 4. The full structure and definition of each of the over 400 classes is at the [website of the United Nations Statistics Division<sup>250</sup>](https://unstats.un.org/unsd/publications/catalogue?selectID=396). The below table lists the sections that group the classes.

| #tag | ISIC Revision 4 Sections   |
|------|--|
| #a1  | A - Agriculture, forestry and fishing                                    |
| #b1  | B - Mining and quarrying   |
| #c1  | C - Manufacturing  |
| #d1  | D - Electricity, gas, steam and air conditioning supply                  |
| #e1  | E - Water supply; sewerage, waste management and remediation activities  |
| #f1  | F - Construction   |
| #g1  | G - Wholesale and retail trade; repair of motor vehicles and motorcycles |
| #h1  | H - Transportation and storage   |
| #i1  | I - Accommodation and food service activities                            |
| #j1  | J - Information and communication  |
| #k1  | K - Financial and insurance activities                                   |
| #l1  | L - Real estate activities   |
| #m1  | M - Professional, scientific and technical activities                    |
| #n1  | N - Administrative and support service activities                        |
| #o1  | O - Public administration and defence; compulsory social security        |
| #p1  | P - Education  |
| #q1  | Q - Human health and social work activities                              |
| #r1  | R - Arts, entertainment and recreation                                   |
| #s1  | S - Other service activities   |
| #t1  | T - Activities of households   |
| #u1  | U - Activities of extraterritorial organizations and bodies              |

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<sup>250</sup><https://unstats.un.org/unsd/publications/catalogue?selectID=396>

## ISIC A - Agriculture, forestry and fishing

The ISIC section **A - Agriculture, forestry and fishing**<sup>251</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic0111 | Growing of cereals (except rice), leguminous crops and oil seeds |
| #isic0112 | Growing of rice  |
| #isic0113 | Growing of vegetables and melons, roots and tubers               |
| #isic0114 | Growing of sugar cane  |
| #isic0115 | Growing of tobacco   |
| #isic0116 | Growing of fibre crops   |
| #isic0119 | Growing of other non-perennial crops                             |
| #isic0121 | Growing of grapes  |
| #isic0122 | Growing of tropical and subtropical fruits                       |
| #isic0123 | Growing of citrus fruits   |
| #isic0124 | Growing of pome fruits and stone fruits                          |
| #isic0125 | Growing of other tree and bush fruits and nuts                   |
| #isic0126 | Growing of oleaginous fruits                                     |
| #isic0127 | Growing of beverage crops  |
| #isic0128 | Growing of spices, aromatic, drug and pharmaceutical crops       |
| #isic0129 | Growing of other perennial crops                                 |
| #isic0130 | Plant propagation  |
| #isic0141 | Raising of cattle and buffaloes                                  |
| #isic0142 | Raising of horses and other equines                              |
| #isic0143 | Raising of camels and camelids                                   |
| #isic0144 | Raising of sheep and goats                                       |
| #isic0145 | Raising of swine/pigs  |
| #isic0146 | Raising of poultry   |
| #isic0149 | Raising of other animals   |
| #isic0150 | Mixed farming  |
| #isic0161 | Support activities for crop production                           |
| #isic0162 | Support activities for animal production                         |
| #isic0163 | Post-harvest crop activities                                     |
| #isic0164 | Seed processing for propagation                                  |
| #isic0170 | Hunting, trapping and related service activities                 |
| #isic0210 | Silviculture and other forestry activities                       |
| #isic0220 | Logging  |
| #isic0230 | Gathering of non-wood forest products                            |
| #isic0240 | Support services to forestry                                     |

<sup>251</sup><http://www.ens.wiki/item:a1>

| isic tag  | Class name             |
|-----------|------------------------|
| #isic0311 | Marine fishing         |
| #isic0312 | Freshwater fishing     |
| #isic0321 | Marineaquaculture      |
| #isic0322 | Freshwater aquaculture |

## ISIC B - Mining and quarrying

The ISIC section [B - Mining and quarrying](#)<sup>252</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic0510 | Mining of hard coal   |
| #isic0520 | Mining of lignite   |
| #isic0610 | Extraction of crude petroleum                               |
| #isic0620 | Extraction of natural gas                                   |
| #isic0710 | Mining of iron ores   |
| #isic0721 | Mining of uranium and thorium ores                          |
| #isic0729 | Mining of other non-ferrous metal ores                      |
| #isic0810 | Quarrying of stone, sand and clay                           |
| #isic0891 | Mining of chemical and fertilizer minerals                  |
| #isic0892 | Extraction of peat  |
| #isic0893 | Extraction of salt  |
| #isic0899 | Other mining and quarrying n.e.c.                           |
| #isic0910 | Support activities for petroleum and natural gas extraction |
| #isic0990 | Support activities for other mining and quarrying           |

<sup>252</sup><http://www.ens.wiki/item:b1>

## ISIC C - Manufacturing

The ISIC section **C - Manufacturing**<sup>253</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic1010 | Processing and preserving of meat   |
| #isic1020 | Processing and preserving of fish, crustaceans and molluscs                       |
| #isic1030 | Processing and preserving of fruit and vegetables                                 |
| #isic1040 | Manufacture of vegetable and animal oils and fats                                 |
| #isic1050 | Manufacture of dairy products   |
| #isic1061 | Manufacture of grain mill products  |
| #isic1062 | Manufacture of starches and starch products                                       |
| #isic1071 | Manufacture of bakery products  |
| #isic1072 | Manufacture of sugar  |
| #isic1073 | Manufacture of cocoa, chocolate and sugar confectionery                           |
| #isic1074 | Manufacture of macaroni, noodles, couscous and similar farinaceous products       |
| #isic1075 | Manufacture of prepared meals and dishes  |
| #isic1079 | Manufacture of other food products n.e.c.   |
| #isic1080 | Manufacture of prepared animal feeds  |
| #isic1101 | Distilling, rectifying and blending of spirits                                    |
| #isic1102 | Manufacture of wines  |
| #isic1103 | Manufacture of malt liquors and malt  |
| #isic1104 | Manufacture of soft drinks; production of mineral waters and other bottled waters |
| #isic1200 | Manufacture of tobacco products   |
| #isic1311 | Preparation and spinning of textile fibres  |
| #isic1312 | Weaving of textiles   |
| #isic1313 | Finishing of textiles   |
| #isic1391 | Manufacture of knitted and crocheted fabrics                                      |
| #isic1392 | Manufacture of made-up textile articles, except apparel                           |
| #isic1393 | Manufacture of carpets and rugs   |
| #isic1394 | Manufacture of cordage, rope, twine and netting                                   |
| #isic1399 | Manufacture of other textiles n.e.c.  |
| #isic1410 | Manufacture of wearing apparel, except fur apparel                                |
| #isic1420 | Manufacture of articles of fur  |
| #isic1430 | Manufacture of knitted and crocheted apparel                                      |
| #isic1511 | Tanning and dressing of leather; dressing and dyeing of fur                       |
| #isic1512 | Manufacture of luggage, handbags and the like, saddlery and harness               |
| #isic1520 | Manufacture of footwear   |
| #isic1610 | Sawmilling and planing of wood  |

<sup>253</sup><http://www.ens.wiki/item:c1>

| <b>isic tag</b> | <b>Class name</b>   |
|-----------------|---|
| #isic1621       | Manufacture of veneer sheets and wood-based panels  |
| #isic1622       | Manufacture of builders' carpentry and joinery  |
| #isic1623       | Manufacture of wooden containers  |
| #isic1629       | Manufacture of other products of wood; manufacture of articles of cork, straw and plaiting materials      |
| #isic1701       | Manufacture of pulp, paper and paperboard   |
| #isic1702       | Manufacture of corrugated paper and paperboard and of containers of paper and paperboard                  |
| #isic1709       | Manufacture of other articles of paper and paperboard   |
| #isic1811       | Printing  |
| #isic1812       | Service activities related to printing  |
| #isic1820       | Reproduction of recorded media  |
| #isic1910       | Manufacture of coke oven products   |
| #isic1920       | Manufacture of refined petroleum products   |
| #isic2011       | Manufacture of basic chemicals  |
| #isic2012       | Manufacture of fertilizers and nitrogen compounds   |
| #isic2013       | Manufacture of plastics and synthetic rubber in primary forms   |
| #isic2021       | Manufacture of pesticides and other agrochemical products   |
| #isic2022       | Manufacture of paints, varnishes and similar coatings, printing ink and mastics                           |
| #isic2023       | Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations |
| #isic2029       | Manufacture of other chemical products n.e.c.   |
| #isic2030       | Manufacture of man-made fibres  |
| #isic2100       | Manufacture of pharmaceuticals, medicinal chemical and botanical products                                 |
| #isic2211       | Manufacture of rubber tyres and tubes; retreading and rebuilding of rubber tyres                          |
| #isic2219       | Manufacture of other rubber products  |
| #isic2220       | Manufacture of plastics products  |
| #isic2310       | Manufacture of glass and glass products   |
| #isic2391       | Manufacture of refractory products  |
| #isic2392       | Manufacture of clay building materials  |
| #isic2393       | Manufacture of other porcelain and ceramic products   |
| #isic2394       | Manufacture of cement, lime and plaster   |
| #isic2395       | Manufacture of articles of concrete, cement and plaster   |
| #isic2396       | Cutting, shaping and finishing of stone   |
| #isic2399       | Manufacture of other non-metallic mineral products n.e.c.   |
| #isic2410       | Manufacture of basic iron and steel   |
| #isic2420       | Manufacture of basic precious and other non-ferrous metals  |
| #isic2431       | Casting of iron and steel   |
| #isic2432       | Casting of non-ferrous metals   |
| #isic2511       | Manufacture of structural metal products  |
| #isic2512       | Manufacture of tanks, reservoirs and containers of metal  |

| <b>isic tag</b> | <b>Class name</b>   |
|-----------------|---|
| #isic2513       | Manufacture of steam generators, except central heating hot water boilers                                   |
| #isic2520       | Manufacture of weapons and ammunition   |
| #isic2591       | Forging, pressing, stamping and roll-forming of metal; powder metallurgy                                    |
| #isic2592       | Treatment and coating of metals; machining  |
| #isic2593       | Manufacture of cutlery, hand tools and general hardware   |
| #isic2599       | Manufacture of other fabricated metal products n.e.c.   |
| #isic2610       | Manufacture of electronic components and boards   |
| #isic2620       | Manufacture of computers and peripheral equipment   |
| #isic2630       | Manufacture of communication equipment  |
| #isic2640       | Manufacture of consumer electronics   |
| #isic2651       | Manufacture of measuring, testing, navigating and control equipment   |
| #isic2652       | Manufacture of watches and clocks   |
| #isic2660       | Manufacture of irradiation, electromedical and electrotherapeutic equipment                                 |
| #isic2670       | Manufacture of optical instruments and photographic equipment   |
| #isic2680       | Manufacture of magnetic and optical media   |
| #isic2710       | Manufacture of electric motors, generators, transformers and electricity distribution and control apparatus |
| #isic2720       | Manufacture of batteries and accumulators   |
| #isic2731       | Manufacture of fibre optic cables   |
| #isic2732       | Manufacture of other electronic and electric wires and cables   |
| #isic2733       | Manufacture of wiring devices   |
| #isic2740       | Manufacture of electric lighting equipment  |
| #isic2750       | Manufacture of domestic appliances  |
| #isic2790       | Manufacture of other electrical equipment   |
| #isic2811       | Manufacture of engines and turbines, except aircraft, vehicle and cycle engines                             |
| #isic2812       | Manufacture of fluid power equipment  |
| #isic2813       | Manufacture of other pumps, compressors, taps and valves  |
| #isic2814       | Manufacture of bearings, gears, gearing and driving elements  |
| #isic2815       | Manufacture of ovens, furnaces and furnace burners  |
| #isic2816       | Manufacture of lifting and handling equipment   |
| #isic2817       | Manufacture of office machinery and equipment (except computers and peripheral equipment)                   |
| #isic2818       | Manufacture of power-driven hand tools  |
| #isic2819       | Manufacture of other general-purpose machinery  |
| #isic2821       | Manufacture of agricultural and forestry machinery  |
| #isic2822       | Manufacture of metal-forming machinery and machine tools  |
| #isic2823       | Manufacture of machinery for metallurgy   |
| #isic2824       | Manufacture of machinery for mining, quarrying and construction   |
| #isic2825       | Manufacture of machinery for food, beverage and tobacco processing  |
| #isic2826       | Manufacture of machinery for textile, apparel and leather production  |
| #isic2829       | Manufacture of other special-purpose machinery  |

| isic tag  | Class name  |
|-----------|---|
| #isic2910 | Manufacture of motor vehicles   |
| #isic2920 | Manufacture of bodies (coachwork) for motor vehicles; manufacture of trailers and semi-trailers |
| #isic2930 | Manufacture of parts and accessories for motor vehicles   |
| #isic3011 | Building of ships and floating structures   |
| #isic3012 | Building of pleasure and sporting boats   |
| #isic3020 | Manufacture of railway locomotives and rolling stock  |
| #isic3030 | Manufacture of air and spacecraft and related machinery   |
| #isic3040 | Manufacture of military fighting vehicles   |
| #isic3091 | Manufacture of motorcycles  |
| #isic3092 | Manufacture of bicycles and invalid carriages   |
| #isic3099 | Manufacture of other transport equipment n.e.c.   |
| #isic3100 | Manufacture of furniture  |
| #isic3211 | Manufacture of jewellery and related articles   |
| #isic3212 | Manufacture of imitation jewellery and related articles   |
| #isic3220 | Manufacture of musical instruments  |
| #isic3230 | Manufacture of sports goods   |
| #isic3240 | Manufacture of games and toys   |
| #isic3250 | Manufacture of medical and dental instruments and supplies                                      |
| #isic3290 | Other manufacturing n.e.c.  |
| #isic3311 | Repair of fabricated metal products   |
| #isic3312 | Repair of machinery   |
| #isic3313 | Repair of electronic and optical equipment  |
| #isic3314 | Repair of electrical equipment  |
| #isic3315 | Repair of transport equipment, except motor vehicles  |
| #isic3319 | Repair of other equipment   |
| #isic3320 | Installation of industrial machinery and equipment  |

## ISIC D - Electricity, gas, steam and air conditioning supply

The ISIC section **D - Electricity, gas, steam and air conditioning supply**<sup>254</sup> contains the classes in the below table.

<sup>254</sup><http://www.ens.wiki/item:d1>

| isic tag  | Class name  |
|-----------|---|
| #isic3510 | Electric power generation, transmission and distribution        |
| #isic3520 | Manufacture of gas; distribution of gaseous fuels through mains |
| #isic3530 | Steam and air conditioning supply                               |

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## ISIC E - Water supply; sewerage, waste management and remediation activities

The ISIC section **E - Water supply; sewerage, waste management and remediation activities**<sup>255</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic3600 | Water collection, treatment and supply                     |
| #isic3700 | Sewerage   |
| #isic3811 | Collection of non-hazardous waste                          |
| #isic3812 | Collection of hazardous waste                              |
| #isic3821 | Treatment and disposal of non-hazardous waste              |
| #isic3822 | Treatment and disposal of hazardous waste                  |
| #isic3830 | Materials recovery   |
| #isic3900 | Remediation activities and other waste management services |

## ISIC F - Construction

The ISIC section **F - Construction**<sup>256</sup> contains the classes in the below table.

| isic tag  | Class name                                       |
|-----------|--|
| #isic4100 | Construction of buildings                        |
| #isic4210 | Construction of roads and railways               |
| #isic4220 | Construction of utility projects                 |
| #isic4290 | Construction of other civil engineering projects |
| #isic4311 | Demolition                                       |
| #isic4312 | Site preparation                                 |
| #isic4321 | Electrical installation                          |
| #isic4322 | Plumbing, heat and air-conditioning installation |
| #isic4329 | Other construction installation                  |
| #isic4330 | Building completion and finishing                |
| #isic4390 | Other specialized construction activities        |

<sup>255</sup><http://www.ens.wiki/item:e1>

<sup>256</sup><http://www.ens.wiki/item:f1>

## ISIC G - Wholesale and retail trade; repair of motor vehicles and motorcycles

The ISIC section **G - Wholesale and retail trade; repair of motor vehicles and motorcycles**<sup>257</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic4510 | Sale of motor vehicles   |
| #isic4520 | Maintenance and repair of motor vehicles   |
| #isic4530 | Sale of motor vehicle parts and accessories  |
| #isic4540 | Sale, maintenance and repair of motorcycles and related parts and accessories  |
| #isic4610 | Wholesale on a fee or contract basis   |
| #isic4620 | Wholesale of agricultural raw materials and live animals   |
| #isic4630 | Wholesale of food, beverages and tobacco   |
| #isic4641 | Wholesale of textiles, clothing and footwear   |
| #isic4649 | Wholesale of other household goods   |
| #isic4651 | Wholesale of computers, computer peripheral equipment and software   |
| #isic4652 | Wholesale of electronic and telecommunications equipment and parts   |
| #isic4653 | Wholesale of agricultural machinery, equipment and supplies  |
| #isic4659 | Wholesale of other machinery and equipment   |
| #isic4661 | Wholesale of solid, liquid and gaseous fuels and related products  |
| #isic4662 | Wholesale of metals and metal ores   |
| #isic4663 | Wholesale of construction materials, hardware, plumbing and heating equipment and supplies                                   |
| #isic4669 | Wholesale of waste and scrap and other products n.e.c.   |
| #isic4690 | Non-specialized wholesale trade  |
| #isic4711 | Retail sale in non-specialized stores with food, beverages or tobacco predominating  |
| #isic4719 | Other retail sale in non-specialized stores  |
| #isic4721 | Retail sale of food in specialized stores  |
| #isic4722 | Retail sale of beverages in specialized stores   |
| #isic4723 | Retail sale of tobacco products in specialized stores  |
| #isic4730 | Retail sale of automotive fuel in specialized stores   |
| #isic4741 | Retail sale of computers, peripheral units, software and telecommunications equipment in specialized stores                  |
| #isic4742 | Retail sale of audio and video equipment in specialized stores   |
| #isic4751 | Retail sale of textiles in specialized stores  |
| #isic4752 | Retail sale of hardware, paints and glass in specialized stores  |
| #isic4753 | Retail sale of carpets, rugs, wall and floor coverings in specialized stores   |
| #isic4759 | Retail sale of elect. household appliances, furniture, lighting equipment and other household articles in specialised stores |

<sup>257</sup><http://www.ens.wiki/item:g1>

| <b>isic tag</b> | <b>Class name</b>   |
|-----------------|---|
| #isic4761       | Retail sale of books, newspapers and stationary in specialized stores                               |
| #isic4762       | Retail sale of music and video recordings in specialized stores                                     |
| #isic4763       | Retail sale of sporting equipment in specialized stores   |
| #isic4764       | Retail sale of games and toys in specialized stores   |
| #isic4771       | Retail sale of clothing, footwear and leather articles in specialized stores                        |
| #isic4772       | Retail sale of pharmaceutical and medical goods, cosmetic and toilet articles in specialized stores |
| #isic4773       | Other retail sale of new goods in specialized stores  |
| #isic4774       | Retail sale of second-hand goods  |
| #isic4781       | Retail sale via stalls and markets of food, beverages and tobacco products                          |
| #isic4782       | Retail sale via stalls and markets of textiles, clothing and footwear                               |
| #isic4789       | Retail sale via stalls and markets of other goods   |
| #isic4791       | Retail sale via mail order houses or via Internet   |
| #isic4799       | Other retail sale not in stores, stalls or markets  |

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## ISIC H - Transportation and storage

The ISIC section [H - Transportation and storage](#)<sup>258</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic4911 | Passenger rail transport, interurban                  |
| #isic4912 | Freight rail transport                                |
| #isic4921 | Urban and suburban passenger land transport           |
| #isic4922 | Other passenger land transport                        |
| #isic4923 | Freight transport by road                             |
| #isic4930 | Transport via pipeline                                |
| #isic5011 | Sea and coastal passenger water transport             |
| #isic5012 | Sea and coastal freight water transport               |
| #isic5021 | Inland passenger water transport                      |
| #isic5022 | Inland freight water transport                        |
| #isic5110 | Passenger air transport                               |
| #isic5120 | Warehousing and storage                               |
| #isic5221 | Service activities incidental to land transportation  |
| #isic5222 | Service activities incidental to water transportation |
| #isic5223 | Service activities incidental to air transportation   |
| #isic5224 | Cargo handling  |
| #isic5229 | Other transportation support activities               |
| #isic5310 | Postal activities                                     |
| #isic5320 | Courier activities                                    |

<sup>258</sup><http://www.ens.wiki/item:h1>

## ISIC I - Accommodation and food service activities

The ISIC section **I - Accommodation and food service activities**<sup>259</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic5510 | Short term accommodation activities                           |
| #isic5520 | Camping grounds, recreational vehicle parks and trailer parks |
| #isic5590 | Other accommodation   |
| #isic5610 | Restaurants and mobile food service activities                |
| #isic5621 | Event catering  |
| #isic5629 | Other food service activities                                 |
| #isic5630 | Beverage serving activities                                   |

## ISIC J - Information and communication

The ISIC section **J - Information and communication**<sup>260</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic5811 | Book publishing   |
| #isic5812 | Publishing of directories and mailing lists                               |
| #isic5813 | Publishing of newspapers, journals and periodicals                        |
| #isic5819 | Other publishing activities   |
| #isic5820 | Software publishing   |
| #isic5911 | Motion picture, video and television programme production activities      |
| #isic5912 | Motion picture, video and television programme post-production activities |
| #isic5913 | Motion picture, video and television programme distribution activities    |
| #isic5919 | Motion picture projection activities                                      |
| #isic5920 | Sound recording and music publishing activities                           |
| #isic6010 | Radio broadcasting  |
| #isic6020 | Television programming and broadcasting activities                        |
| #isic6110 | Wired telecommunications activities                                       |
| #isic6120 | Wireless telecommunications activities                                    |
| #isic6130 | Satellite telecommunications activities                                   |
| #isic6190 | Other telecommunications activities                                       |

<sup>259</sup><http://www.ens.wiki/item:i1>

<sup>260</sup><http://www.ens.wiki/item:j1>

| isic tag  | Class name   |
|-----------|--|
| #isic6201 | Computer programming activities                                    |
| #isic6202 | Computer consultancy and computer facilities management activities |
| #isic6209 | Other information technology and computer service activities       |
| #isic6311 | Data processing, hosting and related activities                    |
| #isic6312 | Web portals  |
| #isic6391 | News agency activities   |
| #isic6399 | Other information service activities n.e.c.                        |

## ISIC K - Financial and insurance activities

The ISIC section **K - Financial and insurance activities**<sup>261</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic6411 | Central banking   |
| #isic6419 | Other monetary intermediation   |
| #isic6420 | Activities of holding companies   |
| #isic6430 | Trusts, funds and similar financial entities  |
| #isic6491 | Financial leasing   |
| #isic6492 | Other credit granting   |
| #isic6499 | Other financial service activities, except insurance and pension funding activities, n.e.c. |
| #isic6511 | Life insurance  |
| #isic6512 | Non-life insurance  |
| #isic6520 | Reinsurance   |
| #isic6530 | Pension funding   |
| #isic6611 | Administration of financial markets   |
| #isic6612 | Security and commodity contracts brokerage  |
| #isic6619 | Other activities auxiliary to financial service activities                                  |
| #isic6621 | Risk and damage evaluation  |
| #isic6622 | Activities of insurance agents and brokers  |
| #isic6629 | Other activities auxiliary to insurance and pension funding                                 |
| #isic6630 | Fund management activities  |

<sup>261</sup><http://www.ens.wiki/item:k1>

## ISIC L - Real estate activities

The ISIC section **L - Real estate activities**<sup>262</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic6810 | Real estate activities with own or leased property |
| #isic6820 | Real estate activities on a fee or contract basis  |

## ISIC M - Professional, scientific and technical activities

The ISIC section **M - Professional, scientific and technical activities**<sup>263</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic6910 | Legal activities   |
| #isic6920 | Accounting, bookkeeping and auditing activities; tax consultancy           |
| #isic7010 | Activities of head offices   |
| #isic7020 | Management consultancy activities  |
| #isic7110 | Architectural and engineering activities and related technical consultancy |
| #isic7120 | Technical testing and analysis   |
| #isic7210 | Research and experimental development on natural sciences and engineering  |
| #isic7220 | Research and experimental development on social sciences and humanities    |
| #isic7310 | Advertising  |
| #isic7320 | Market research and public opinion polling                                 |
| #isic7410 | Specialized design activities  |
| #isic7420 | Photographic activities  |
| #isic7490 | Other professional, scientific and technical activities n.e.c.             |
| #isic7500 | Veterinary activities  |

## ISIC N - Administrative and support service activities

The ISIC section **N - Administrative and support service activities**<sup>264</sup> contains the classes in the below table.

<sup>262</sup><http://www.ens.wiki/item:l1>

<sup>263</sup><http://www.ens.wiki/item:m1>

<sup>264</sup><http://www.ens.wiki/item:n1>

| isic tag  | Class name   |
|-----------|--|
| #isic7710 | Renting and leasing of motor vehicles  |
| #isic7721 | Renting and leasing of recreational and sports goods                               |
| #isic7722 | Renting of video tapes and disks   |
| #isic7729 | Renting and leasing of other personal and household goods                          |
| #isic7730 | Renting and leasing of other machinery, equipment and tangible goods               |
| #isic7740 | Leasing of intellectual property and similar products, except copyrighted works    |
| #isic7810 | Activities of employment placement agencies  |
| #isic7820 | Temporary employment agency activities   |
| #isic7830 | Other human resources provision  |
| #isic7911 | Travel agency activities   |
| #isic7912 | Tour operator activities   |
| #isic7990 | Other reservation service and related activities                                   |
| #isic8010 | Private security activities  |
| #isic8020 | Security systems service activities  |
| #isic8030 | Investigation activities   |
| #isic8110 | Combined facilities support activities   |
| #isic8121 | General cleaning of buildings  |
| #isic8129 | Other building and industrial cleaning activities                                  |
| #isic8130 | Landscape care and maintenance service activities                                  |
| #isic8211 | Combined office administrative service activities                                  |
| #isic8219 | Photocopying, document preparation and other specialized office support activities |
| #isic8220 | Activities of call centres   |
| #isic8230 | Organization of conventions and trade shows  |
| #isic8291 | Activities of collection agencies and credit bureaus                               |
| #isic8292 | Packaging activities   |
| #isic8299 | Other business support service activities n.e.c.                                   |

## ISIC O - Public administration and defence; compulsory social security

The ISIC section **O - Public administration and defence; compulsory social security**<sup>265</sup> contains the classes in the below table.

<sup>265</sup><http://www.ens.wiki/item:o1>



| isic tag  | Class name   |
|-----------|--|
| #isic8411 | General public administration activities   |
| #isic8412 | Regulation of the activities of providing health care, education, cultural services and other social services and other social services, excluding social security |
| #isic8413 | Regulation of and contribution to more efficient operation of businesses   |
| #isic8421 | Foreign affairs  |
| #isic8422 | Defence activities   |
| #isic8423 | Public order and safety activities   |
| #isic8430 | Compulsory social security activities  |

## ISIC P - Education

The ISIC section **P - Education**<sup>266</sup> contains the classes in the below table.

| isic tag  | Class name                                   |
|-----------|--|
| #isic8510 | Pre-primary and primary education            |
| #isic8521 | General secondary education                  |
| #isic8522 | Technical and vocational secondary education |
| #isic8530 | Higher education                             |
| #isic8541 | Sports and recreation education              |
| #isic8542 | Cultural education                           |
| #isic8549 | Other education n.e.c.                       |
| #isic8550 | Educational support activities               |

## ISIC Q - Human health and social work activities

The ISIC section **Q - Human health and social work activities**<sup>267</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic8610 | Hospital activities   |
| #isic8620 | Medical and dental practice activities  |
| #isic8690 | Other human health activities   |
| #isic8710 | Residential nursing care facilities   |
| #isic8720 | Residential care activities for mental retardation, mental health and substance abuse |
| #isic8730 | Residential care activities for the elderly and disabled                              |
| #isic8790 | Other residential care activities   |
| #isic8810 | Social work activities without accommodation for the elderly and disabled             |
| #isic8890 | Other social work activities without accommodation                                    |

<sup>266</sup><http://www.ens.wiki/item:p1>

<sup>267</sup><http://www.ens.wiki/item:q1>

## ISIC R - Arts, entertainment and recreation

The ISIC section [R - Arts, entertainment and recreation](#)<sup>268</sup> contains the classes in the below table.

| isic tag  | Class name   |
|-----------|--|
| #isic9000 | Creative, arts and entertainment activities                        |
| #isic9101 | Library and archives activities                                    |
| #isic9102 | Museums activities and operation of historical sites and buildings |
| #isic9103 | Botanical and zoological gardens and nature reserves activities    |
| #isic9200 | Gambling and betting activities                                    |
| #isic9311 | Operation of sports facilities                                     |
| #isic9312 | Activities of sports clubs   |
| #isic9319 | Other sports activities  |
| #isic9321 | Activities of amusement parks and theme parks                      |
| #isic9329 | Other amusement and recreation activities n.e.c.                   |

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<sup>268</sup><http://www.ens.wiki/item:r1>

## ISIC S - Other service activities

The ISIC section **S - Other service activities**<sup>269</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic9411 | Activities of business and employers membership organizations |
| #isic9412 | Activities of professional membership organizations           |
| #isic9420 | Activities of trade unions                                    |
| #isic9491 | Activities of religious organizations                         |
| #isic9492 | Activities of political organizations                         |
| #isic9499 | Activities of other membership organizations n.e.c.           |
| #isic9511 | Repair of computers and peripheral equipment                  |
| #isic9512 | Repair of communication equipment                             |
| #isic9521 | Repair of consumer electronics                                |
| #isic9522 | Repair of household appliances and home and garden equipment  |
| #isic9523 | Repair of footwear and leather goods                          |
| #isic9524 | Repair of furniture and home furnishings                      |
| #isic9529 | Repair of other personal and household goods                  |
| #isic9601 | Washing and (dry-) cleaning of textile and fur products       |
| #isic9602 | Hairdressing and other beauty treatment                       |
| #isic9603 | Funeral and related activities                                |
| #isic9609 | Other personal service activities n.e.c.                      |

<sup>269</sup><http://www.ens.wiki/item:s1>

## ISIC T - Activities of households

The ISIC section **T - Activities of households**<sup>270</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic9700 | Activities of households as employers of domestic personnel                     |
| #isic9810 | Undifferentiated goods-producing activities of private households for own use   |
| #isic9820 | Undifferentiated service-producing activities of private households for own use |

## ISIC U - Activities of extraterritorial organizations and bodies

The ISIC section **U - Activities of extraterritorial organizations and bodies**<sup>271</sup> contains the classes in the below table.

| isic tag  | Class name  |
|-----------|---|
| #isic9900 | Activities of extraterritorial organizations and bodies |

<sup>270</sup><http://www.ens.wiki/item:t1>

<sup>271</sup><http://www.ens.wiki/item:u1>

# About the author

Jan Goossenaerts is a social media entrepreneur and a business and architecture consultant specialized in aligning ICT and communications solutions to organizational and societal needs. In 2012 he founded Wikinetix which became a finalist in the 2012 Social Media Leadership Awards. In order to catalyse further the instructive and productive use of the internet and social media he invented #tagcoding and launched the Actor Atlas and the #xy2wiki programme.

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