

EXECUTIVE SUMMARY

The Collaborative Arrangement for the Prevention and Management of Public Health Events in Civil Aviation (CAPSCA) is a voluntary, cross-sectorial, multi-organizational collaboration programme managed by the International Civil Aviation Organization (ICAO) in partnership with the World Health Organization (WHO).

Established in 2006, it brings together international, regional, national and local organizations to combine efforts to improve preparedness planning and response to public health events that affect the aviation sector, such as communicable diseases (pandemic influenza, Zika, Ebola, Coronavirus); chemical events (nuclear power-plant accidents); bioterrorism; volcanic ash; water and food safety; hygiene and waste management; drones in humanitarian operations; and assistance provided during natural or man-made disasters.

The most recent communicable diseases outbreak (COVID-19) have demonstrated the pivotal role of aviation in the spread of communicable disease; and its subsequent impact on the economy e.g. travel restrictions impacting on trade and tourism. The COVID-19 outbreak to date has had significant impact on global human health and a severe economic impact on the aviation sector, resulting in flight cancellations, travel and trade restrictions as well causing further economic losses in several other sectors.

Mitigating the health and economic impacts of COVID-19 can only be achieved by adopting a multi-sectorial, multi-organizational approach. Such an approach requires multidisciplinary resources (public health and aviation experts, first responders, customs and immigration officers, security officers, airport and aircraft personnel) as well as substantial investment to support:

- 1. Programme implementation;
- 2. Capacity-building initiatives; and
- 3. The development of training, tools, manuals and other guidance material.

In an effort to mitigate the impact of COVID-19 in the aviation sector, ICAO has developed a project plan in alignment with the global CAPSCA programme by identifying several activities which need to be implemented over a three year period. The required funds for these activities are estimated at USD 3.5 million.

This document provides a brief overview of the CAPSCA programme, the global health impact of COVID-19, the economic impact of COVID-19 on civil aviation, the ICAO CAPSCA strategy for COVID-19, the proposed implementation plan and the risks should the project plan not be implemented.





























INTRODUCTION TO CAPSCA

Transporting 10 million passengers and USD 18 billion worth of goods every day, global connectivity is a powerful dynamic for human and economic development. By mid-2030s about 200,000 flights per day are expected all over the world.

The growth of international traffic of passengers and goods has increased the risk of the spread of infectious diseases, therefore, protection of global health becomes even higher priority not only to airlines and airports in terms of the passengers, pilots and other personnel, but also to governments concerning their health, safety and security oversight responsibilities under the Chicago Convention and the International Health Regulations (IHR).

Infectious diseases such as influenza, malaria, dengue, Zika, coronavirus and more, are reported in over 100 countries, and up to 60% of the world's population is at risk of infection. Numerous examples illustrate this situation including the SARS epidemic in 2003, the H1N1 influenza pandemic in 2008-2009, the emergence of the MERS-coronavirus in 2013, the Ebola crisis in 2014-2015, the emergence and international spread of a new neuro-pathogenic strain of Zika virus and more recently, the Ebola and COVID-19 disease outbreaks, both of which were declared Public Health Emergencies of International Concern (PHEIC) by the Director General of the World Health Organization (WHO).

Apart from loss of lives, outbreaks of infectious disease are estimated to cost the world \$60 billion each year. Economists estimate that, in coming decades, pandemics will cause average annual economic losses of 0.7% of global GDP – a threat similar in scale to that estimated for climate change.

The lack of preparedness and the need for a coordinated global response (multi-sectorial, multi-organizational approach) were identified as the biggest challenges of the international community regarding the management of a public health events in aviation.

Purpose and objectives of CAPSCA

The purpose of CAPSCA is to address these challenges by ensuring collaboration between the aviation and public health sectors; facilitating safe and economically viable air transport while contributing to public health protection.































The objectives of CAPSCA with specific reference to COVID-19 are:

- 1. **Health protection** of air travellers, aviation personnel and the general public by implementation of aviation-specific programmes to manage COVID-19 (ICAO duty of care);
- 2. Support States/Territories with implementing **national aviation preparedness and emergency response plans** for COVID-19 by developing core capabilities;
- 3. **Training of public health and aviation assessors** to assess State readiness to manage public health events in aviation through stakeholder engagement and evaluation of policies, processes and procedures.
- 4. **Conducting Technical Assistance visits** to States/ Territories to determining gap analysis in State's preparedness and response plans; providing recommendations for improvement to States and Territories
- 5. **Ensure safe and economically viable air transport**, with minimal effect on international travel and trade (Chicago Convention);
- 6. Facilitating multi-sector collaboration and cooperation (civil aviation authorities, public health authorities, airports, air traffic services, airlines and other aircraft operators, customs and immigration services, security services, etc.) which provides a mechanism for harmonization of approaches as well as pooling and sharing expertise, resources and best practices;
- 7. Assist States/Territories with the implementation of ICAO Standards and Regulations (SARPs) and WHO International Health Regulations (IHR);

CAPSCA Member States

ICAO currently has 193 Member States, of which 129 (67%) are members of CAPSCA. CAPSCA member states are distributed globally and supported by the ICAO regional offices in Africa (Kenya and Senegal), Asia/ Pacific (Thailand), Europe and North Atlantic (France), Middle East (Egypt), North America, Central America and Caribbean (Mexico) and South America (Peru).

Member States are listed on the CAPSCA website (www.capsa.org).

CAPSCA members benefit from membership in various ways, including:

- Access to a dedicated network of experts both from the aviation and public health sectors
- Availability of guidance material on the implementation of the ICAO Standards and Recommended Practices (SARPS) and WHO International Health Regulations (IHR) applicable to public health within the aviation sector
- A comprehensive repository of information from both aviation stakeholders (airports, ATC/ANSPs, CAAs, Airlines, Ground handling Providers, International Organizations etc.) and public health stakeholders
- Contributing to amendment of policies, processes and procedures by identifying implementation challenges and participating in finding practical solutions.































- Liaising with neighbouring or other States as well as other relevant international Organizations (WHO, CDC, IATA, ACI etc.) to coordinate responses to problems raised by the network; or during outbreaks.
- Requesting or participating in Technical Assistance visits to assess preparedness and response plans and build the necessary capacities in civil aviation during a public health emergency event
- Access to senior expert advice to support States during crisis management situations (e.g. Ebola in Africa)
- Participate in training events and courses aimed at managing public health events in aviation (some provided free, some on a cost recovery basis and others at a fee)
- Participating and supporting table top and full scale exercises together with other International Organizations, States, industry etc.
- Participating in annual dedicated Regional and Global meetings in cooperation with WHO and other International Organizations.

CAPSCA Partners

In order to achieve the CAPSCA objectives, ICAO partners with several UN agencies and international organizations to build capacity, mitigate and manage the effects of public health events on civil aviation. CAPSCA partners include:

- 1. World Health Organization (WHO)
- 2. World Tourism Organization (UNWTO)
- 3. United Nations Development Programme (UNDP)
- 4. World Food Programme (WFP)
- 5. International Organization for Migration (IOM)
- United Nations Office for the Coordination of Humanitarian Affairs (OCHA)
- 7. World Organisation for Animal Health (OIE)
- 8. International Atomic Energy Agency (IAEA)
- 9. Food and Agriculture Organization of the United Nations (FAO)
- 10. Centers for Disease Control and Prevention (CDC)
- 11. Airports Council International (ACI)
- 12. International Air Transport Association (IATA)
- 13. International Federation of Air Line Pilots' Associations (IFALPA)
- 14. International Business Aviation Council (IBAC)
- 15. Flight Safety Foundation Mediterranean































Apart from the benefits applicable to CAPSCA members, CAPSCA partners can additionally benefit from:

- 1. Participating in the discussions for updating and developing standards, recommendations and guidance material, when appropriate.
- 2. Receiving official CAPSCA progress reports.
- 3. Being part of an alliance that meets both the partner's philanthropic and marketing needs and extend CAPSCA's abilities to address the pressing needs of international public health in aviation.
- 4. Exclusive visibility and networking opportunities at workshops, events, training activities, technical assistance visits and on the guidance material developed by CAPSCA.
- 5. Be part of the public directory of CAPSCA partners.

HEALTH IMPACT OF COVID-19 - CONFIRMED CASES

In terms of human cost, according to statistics of the World Health Organization (WHO) by 9 March 2020 the COVID-19 outbreak has infected 109,578 persons globally (74% in China), caused 3,123 deaths, and affected 105 countries. The global risk is at a very high level.

Globally

109 578 confirmed (3994 new) 3809 deaths (225 new)

China

80 904 confirmed (45 new) 3123 deaths (23 new)

Outside of China

28 674 confirmed (3949 new) 686 deaths (202 new) 104 countries/territories/ areas (3 new)

WHO RISK ASSESSMENT

China Very High Regional Level Very High Global Level Very High

- As reported by WHO as of 9 March 2020, the most affected countries with confirmed cases outside China, are the Republic of Korea (7,382 cases), Italy (7,375 cases) Iran (6,566 cases), France (1,116 cases), Germany (1,112 cases), Spain (999 cases) and Japan (488 cases).
- At the moment, the regions with less confirmed cases are Africa and the Russian Federation.
- Containment and management for COVID-19 globally remain the top priority for all countries, as the global risk level is very high and the costs significant. "In the end, prevention is not only better than cure; it's cheaper". -Dr Tedros Adhanom Ghebreyesus Director-General of the World Health Organization.































ECONOMIC IMPACT OF COVID-19 ON CIVIL AVIATION

ICAO monitors the extent of the economic impacts of COVID-19 on civil aviation on a regular basis. The analysis is structured around a "mild" and "severe" scenario and focuses on countries significantly affected by the COVID-19 outbreak — China including Hong Kong SAR and Macao SAR, South Korea, Mongolia and Iran. Affected countries are added to the analysis regularly.

What can be seen from the analysis of data available in the first quarter of 2020, is a significant reduction in seat capacity in all countries, which triggers a related decrease in passengers travelling by air and substantial loss in airline revenues. As of 3 March 2020, over 130 airlines have cancelled or significantly reduced operation from and to mainland China. As of the latest report, China, including Hong Kong SAR and Macao SAR, is seeing a 41-42% decrease of seat capacity entailing between 23.9 million and 27.5 million less passengers and a loss for airlines between 5.8 and 6.7 billion USD. Domestic traffic in China has been impacted by a similar trend with an overall reduction of 40% in seat offering, 66.6 to 76.3 million less passengers and a potential loss in airline revenue between 6.8 and 7.8 billion USD.

The ICAO report also correlates the above-mentioned impacts with other affected markets, such as tourism. In 2019, Chinese tourists represented 9% of all tourists worldwide. This ratio is expected to drop significantly and will impact in particular countries where Chinese tourism contributes to an important part of the GDP – by share of GDP the top five countries are New Zealand, Australia, Singapore, Iceland and Japan. The estimated loss of revenues from Chinese tourists in the USA are between 371.52 million and 428.15 million, which represents a drop of more than 75% compared to originally forecasted numbers.

Other markets to be affected by the impacts of COVID-19 on civil aviation will be the IT and electronics sector, where China represents 27% of the world added value (US has a 20% share) or foreign direct investments (7% of global FDIs), which can be expected to impact other parts of the supply chain as well.

In terms of financial forecast for the airlines, the International Air Transport Association (IATA) predicts that the airline industry would lose \$29.3 billion of revenue due to the recent COVID-19 outbreak; \$27.8 of that loss would be associated with airlines located in the Asia Pacific region. The domestic China market alone would account for \$12.8 billion of losses. Airlines outside the Asia Pacific region are predicted to bear \$1.5 billion of the total loss of revenue. Globally, the demand for air travel is expected to decrease by 4.7%.

































ICAO CAPSCA STRATEGY FOR COVID-19

The ICAO CAPSCA strategy and associated activities for managing COVID-19 are:

- 1. Ensure ease of access and user-friendly ICAO regulatory framework applicable to public health events
 - a. State letters, electronic bulletins, press releases.
 - b. Update Facilitation and Aviation Medicine web sites.
 - c. Member State survey regarding compliance and implementation difficulties.
 - d. Review of SARPs, manuals and CAPSCA guidelines.
 - e. Review of USOAP and USAP questions.
- 2. Enhanced coordination, collaboration, information sharing and operational support
 - a. Joint statements with key stakeholders
 - b. Improve the CAPSCA website (hosting and maintenance costs) and develop online tools for training, data-sharing, lessons-learnt; and a repository for restrictions and measures adopted by States.
 - c. Develop a dedicated social media platform, prepare and deliver webinars on specific issues to improve risk communication and counter misinformation.
 - d. Recruit an additional subject matter expert in aviation medicine/ public health to develop the content of new courses, workshops, manuals and guidance material on public health event management in aviation.
 - e. Recruit one technical editor and one graphic designer to produce the guidance material.
 - f. Translate training and guidance material into the other five official languages, for global distribution.

3. Capacity building

- a. Provide CAPSCA on-line training to key ICAO personnel as well as CAPSCA regional leadership and advisors (free of charge).
- b. Promote CAPSCA on-line training to all States and partners at reduced cost
- c. Source funding to provide technical assistance and conduct technical assistance visits to high-risk, high-vulnerability and low-income States (capacity-building initiatives for CAA, Airlines and Airports) and the development of the National Aviation Plan for Public Health Emergency; at no cost to the State.
- d. Communicate the benefits of assistance visits to other States and international airports to improve their preparedness and to response to public health threats.
- e. Continue with regional and global CAPSCA meetings, which includes training seminars and airport/ airlines visit.
- f. Organize aviation medicine/ public health global symposiums (Next symposium taking place in 2021).



























- 4. Development and research activities
 - a. Stakeholder mapping process to identify other stakeholders not yet involved in CAPSCA
 - b. Liaise with newly identified and non-active stakeholders to develop new working relationships.
 - c. Conduct/ support research activities on disinfection and disinsection of aircraft to identify new procedures, methods, best practices and develop global standards and recommendations. Disinsection of aircraft is a necessary measure to help prevent the spread of vector-borne diseases.

IMPLEMENTATION PLAN

Please see the implementation plan in Annex A. Note that a further detailed project and monitoring plan will be compiled which will include beneficiaries, outcomes and key indicators.

MAJOR RISKS AND MITIGATION MEASURES

The major risk that CAPSCA faces is the lack of human and financial resources. If the resources for the complete implementation of the CAPSCA strategy are not obtained, the efforts for the mitigation of global health impact and the socio-economic disruptions caused by the COVID-19 outbreak, may not be sufficient nor effective. Subsequent consequences will have a significantly detrimental impact in various sectors and industries, including severe economial loss.

Even when the health impact of an outbreak is relatively limited, its economic consequences can quickly become magnified.

The more significant consequences will be:

- Collective fear, social distancing or closed schools (already happening in affected countries such as Italy and Japan), enterprises, commercial establishments, transportation, and public services—all of which disrupt economic and other socially valuable activity;
- Interrupted supplies and logistics leading to shortages of food, essential goods and personal protective equipment (there is already a global shortage of masks which might have a significant impact on the spread of the disease);
- The potential collapse of national public health systems due to overcapacity issues and population displacement (current evidence suggest that even sophisticated health systems in developed countries are facing challenges to provide testing and care);
- High direct and indirect medical spending (public and private), an increased health burden and possible increased mortality rate;































- Disrupted productivity/business continuity;
- Reduced levels of consumption affecting national, regional and international economies;
- Significant loss of revenue in the recreation, travel and tourism sectors;
- The decline in private and foreign investor's confidence;
- Financing gaps, worsening the vulnerable situation of low-income countries which are likely to suffer disproportionately, as they may have less robust health care systems and lower financial reserves to protect against financial catastrophe;
- Decreased trade worldwide, trade imbalances, exchange rate movements, and changes in market interest rates;
- The global economic slowdown will be more severe than previously estimated;
- Decreased GDPs globally.

The current COVID-19 has severe impact on a global health and socio-economic level; and it is essential to recognize that this is only one of a number of concurrent outbreaks occurring globally. As an example it should be noted that the Democratic Republic of Congo (DRC) is currently managing Ebola, Measles and Cholera outbreaks; although to date no cases of COVID-19 has been reported in the DRC. If COVID-19 is transmitted to the DRC, it will have an added burden to deal with.

It is not possible to predict when the next major epidemic will happen, which pathogen will cause it, where that epidemic will originate, or what the consequences will be, but outbreaks and epidemics are certain to occur and they are occurring more often, and spreading faster and further than ever, in many different regions of the world imposing significant costs on human life, and the global economy.

To mitigate these risks, it is essential for CAPSCA to enhance its activities with ICAO Member States and existing CAPSCA partners; seek strategic and sustained partnerships with new partners in the private and public sector (e.g. corporations, councils, research organization, foundations, NGO's, possible donors, etc.); and plan sponsorships opportunities with health and aviation industry stakeholders at its regional meetings and global events. This would result in obtaining sustainable solutions, mutually beneficial to ICAO member states, CAPSCA, and its partners; and addressing both short-term and long-term objectives, including making available human and financial resources for implementing the CAPSCA strategy and activities for managing COVID-19.

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Annex A: ICAO CAPSCA strategy and associated activities for managing COVID-19

Annex B: Priority list of low-income states for CAPSCA assistance

Annex C: CAPSCA membership 06/03/2020































ANNEX A: ICAO CAPSCA STRATEGY AND ASSOCIATED ACTIVITIES FOR MANAGING COVID-19

						Т	IME SCALE	
REFERENCE TO CAPSCA OBJECTIVES	STRATEGY	ACTIVITIES	EXPECTED OUTCOMES	RESOURCES REQUIRED	TOTAL COST US\$	2020	2021	2022
1, 3, 5, 7	1. Ensure ease of access and	State Letters, electronic bulletins, press releases. Update Facilitation and Aviation Medicine web sites.	for 3	A Project Manager for 3 years (all project - Consultant band B).	\$ 244,800	81,600	81,600	81,600
	user-friendly ICAO regulatory framework applicable to public helath events.	Member State survey regarding compliance and implementation difficulties. Review of SARPs, manuals and CAPSCA guidelines.	2. All the necessary guidance and regulatory material will A Subject Matter expert		\$ 69,600	69,600		
		Joint statements with key stakeholders.	1. With the necessary training, manuals and guidance materials available in all the ICAO language, States and other stakeholders will be able to plan and be prepared for a public health event, resulting in a faster, adequate and therefore more effective prevention and control of a current and future epidemic. 2. Achieve a holistic approach to ensure that when the next public health event occurs, the world is able to respond rapidly and effectively to reduce health and socioeconomical stress. 3. Achieve concerted actions at the local, national, and multinational levels towards protecting the collective well-being in the future. 4. The human and economical impact of a public health event will be mitigated. 5. Which the necessary training, manuals and guidance materials available in all the ICAO language, States and other stakeholders will be able to plan and be prepared for a public health event, resulting in a faster, adequate and therefore more effective prevention and control of a current and future epidemic. 4. A technical editor (180 non-consecutive days). 5. A graphic designer (240 non-consecutive days). 6. A graphic designer (240 non-consecutive days). 7. A praphic designer (240 non-consecutive days). 7. A praphic designer (240 non-consecutive days). 8. A graphic designer (240 non-consecutive days). 8. A graphic designer (240 non-consecutive days). 8. A praphic designer (240 non-consecutive days). 9. A graphic designer (240 non-consecutive days). 1. The human and economical impact of a public health event will be mitigated.	services and development of online	\$ 95,700	31,900	31,900	31,900
		Improve the CAPSCA website (hosting and maintenance costs) and develop online tools for: training, data-sharing, lessons-learnt registering, and a repository for restrictions and measures adopted by States.		\$ 150,800	127,600	23,200		
	2. Enhanced coordination,	Develop social media platform, prepare and deliver webinars on specific issues.		•	\$ 100,800	100,800		
1, 2, 3, 4, 5, 6, 7		Recruit an additional subject matter expert in aviation medicine to develop the content of new courses, workshops, manuals and guidance material on public health event management in aviation.			\$ 72,000	72,000		
		Recruit one technical editor and one graphic designer to produce the guidance material.		\$ 650,000	650,000			
		Translate training and guidance material into the other five official languages, for global distribution.		Printing cost (in-house ICAO).	\$ 90,000	90,000		





ANNEX A: ICAO CAPSCA STRATEGY AND ASSOCIATED ACTIVITIES FOR MANAGING COVID-19

						Т	IME SCALE	
REFERENCE TO CAPSCA OBJECTIVES	STRATEGY	ACTIVITIES	EXPECTED OUTCOMES	RESOURCES REQUIRED	TOTAL COST US\$	2020	2021	2022
		Provide CAPSCA on-line training to key ICAO personnel as well as CAPSCA regional leadership and advisors (free of charge).	Sates and other stakeholders will: a) take proactive steps to manage the risk of epidemics and mitigate their impact.	Online training for 24 low-income States (144 persons, 6 per State: 3 individuals from CAA & 3 individuals from PHA). If we can minimize the cost, we can expand the training to additional countries.	\$ 79,200	79,200		
		Promote CAPSCA on-line training to all States and partners.	b) develop and maintain national core capacities for the detection investigation response and reporting of public	tection, investigation, response and reporting of public alth events. be able to prevent most outbreaks from getting out control, and limit the impact of those that spread ernationally. Marketing Communications. Assistance Visits (first 18 low-income States), salary of experts and travel expenses.	\$ 92,000	30,667	30,667	30,666
1, 2, 3, 4, 5, 6, 7	3. Capacity building	Source funding to provide technical assistance to high-risk, high-vulnerability and low-income States (capacity-building initiatives for CAA, Airlines and Airports) and the development of the National Aviation Plan for Public Health Emergency, at no cost to the State.	health events. c) be able to prevent most outbreaks from getting out of control, and limit the impact of those that spread internationally. d) build and sustain resilient capacities at national,		\$ 720,000	240,000	240,000	240,000
		public health threats. Continue with regional and global CAPSCA	to outbreaks, in accordance with the ICAO SARPs and the International Health Regulations. I CAPSCA seminar and will cover initially 18 of the low-income States that are at high-risk, high vulnerability situation (50% coverage, 6 visits per year) and will eventually expand the assistance to cover all 34 low-income States. (See priority list of countries in Annex B).	Regional & Global meetings (materials, travel expenses, catering, etc.).	\$ 280,000	93,334	93,333	93,333
		airport/ airline visit. Organize aviation medicine/ public health global symposiums (Next symposium taking place in 2021).		Preparation of the Global Symposium (promotions, rental, equipment, interpreters, catering, etc.).	\$ 125,000	62,500	62,500	





ANNEX A: ICAO CAPSCA STRATEGY AND ASSOCIATED ACTIVITIES FOR MANAGING COVID-19

DEFENSE TO CARCOA							IME SCALE	
REFERENCE TO CAPSCA OBJECTIVES	STRATEGY	ACTIVITIES	EXPECTED OUTCOMES	RESOURCES REQUIRED	TOTAL COST US\$	2020	2021	2022
1, 5, 6		Stakeholder mapping process to identify other stakeholders not yet involved in CAPSCA.	next public health event occurs, the world is able to respond rapidly and effectively to reduce health and socio-economical stress.	Reseach and development.	\$ 350,000	175,000	175,000	
	4. Development and research	Liaise with newly identified and non-active stakeholders to develop new working relationships.		A Subject Matter expert for 11 months (consultant band C).	\$ 127,600	127,600		
	activities Conduct/ support research activities on disinfection and disinsertion of aircraft to identify new procedures, methods, best practices and develop global standards and recommendations. Disinsection of aircraft is a necessary measure to help prevent the spread of vector-borne diseases. 3. Generate additional financial contributions for the sustainability of the programme.							
		necessary measure to help prevent the spread						
						2,031,801	738,200	477,499

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	Recovery Costs \$	227,325	
Total Budget	\$	3,474,825	

Note: 1. The bold highlighted items are urgent and required immediate action, their costs sum a total of approximate US\$ 1,8 million.

2. This document is a broad project implementation plan. Applicable project monitoring plans with indicators and outcomes will be drafted, based on implementation of activities.



ANNEX B: PRIORITY LIST OF LOW-INCOME STATES FOR CAPSCA ASSISTANCE

The following States are a high risk due to inadequate infrastructure, reduced access to health care and financial challenges.

	COUNTRY	PHASE 1
1	Afghanistan	
2	Benin	
3	Burkina Faso	Υ
4	Burundi	Υ
5	Central African Republic	Υ
6	Chad	
7	Comoros	
8	Democratic People's Republic of Korea	
9	Democratic Republic of the Congo	Υ
10	Eritrea	
11	Ethiopia	Υ
12	Gambia	Υ
13	Guinea	
14	Guinea-Bissau	
15	Haiti	
16	Liberia	
17	Madagascar	
18	Malawi	
19	Mali	Υ
20	Mozambique	Υ
21	Nepal	
22	Niger	
23	Rwanda	Υ
24	Senegal	Υ
25	Sierra Leone	Υ
26	Somalia	Υ
27	South Sudan	Υ
28	Syrian Arab Republic	
29	Tajikistan	
30	Togo	Υ



31	Uganda	Υ
32	United Republic of Tanzania	Υ
33	Yemen	
34	Zimbabwe	Υ

LIST OF COUNTRIES MOST AFFECTED BY COVID-19

	COUNTRY	N. of Cases
1	China	80,904
2	Republic of Korea	7,382
3	Italy	7,375
4	Islamic Republic of Iran	6,566
5	France	1,116
6	Germany	1,112
7	Spain	598
8	Japan	488
9	Switzerland	332
10	The United Kingdom	277
11	Netherlands	265
12	United States of America	213
13	Sweden	203
14	Belgium	200
15	Norway	169
16	Singapore	150
17	Austria	112
18	Malaysia	93





ANNEX C: CAPSCA MEMBERS

	Number	Number		Number		
	of ICAO	CAPSCA		non-		
ICAO Region	States	Members	%	CAPSCA	% NMS	Non-member States
Eastern and						Burundi, Comores, Djibouti, Eritrea, Ethiopia, Madagascar, Malawi,
Southern Africa	24	13	54.17	11	46	Mauritius, Namibia, Seychelles, Somalia
West and Central						
Africa	24	22	91.67	2	8	Congo, Sao Tome & Principe
						Australia, Bhutan, Cambodia, Cook Islands, DPR Korea, Fiji, Japan, Kiribati,
						Maldives, Marshall Islands< Nauru, Palau, Republic Korea, Samoa, Timot
Asia/ Pacific	41	23	56.1	18	44	Leste, Tuvalu, Vanuatu
						Algeria, Andorra, Bosnia and Herzegovina, Bulgaria, Croatia, Czechia, Cyprus,
						Denmark, Estonia, Greece, Iceland, Ireland, Italy, Kazakhstan, Latvia,
Europe and North						Lithuania, Luxembourg, Monaco, Norway, Russian Federation, San Marina,
Atlantic	56	27	48.21	29	52	Serbia, Slovenia, Sweden, Tunisia, Turkey, Turkmenistan, Ukraine,
Middle East	15	12	80	3	20	Libya, Syria, Yemen
North America,						
Central America						
and Caribbean	22	19	86.36	3	14	Antigua and Barbuda, Dominica, Saint Lucia, Saint Kitts and Nevis.
South America	13	13	100	0	0	None
Total	193	129	67	64	33	