2022 CAP Implementation Workshop
Speakers
(Updated as of 29 August 2022)

The set of available presentations can be downloaded from here.
For the provisional Programme, see Programme
For the provisional list of participants, see Participants
For details about the venue and logistics, see Information Note

1.1 Welcome from Everbridge

Rachele Gianfranchi is Heading Government Affairs at Everbridge since January 2021. Here she is carrying forward the institutional dialogue at the international level. In discussing with Governments and Multilateral Donors she is advocating for the contribution of Everbridge technology to Global Public Safety and Security. Her work is actively promoting private-public cooperation in the research and innovation initiatives. Her goal being one of contributing to the global credibility of the Everbridge brand, as well as supporting sales teams to meet institutional customers’ needs and expectations.

1.2 Welcome from the International Association of Emergency Managers (IAEM)

Carolyn Harshman is the 2021-2022 president of the USA Council of IAEM. She is also president of Emergency Planning Consultants based in San Diego, California, in which role she provides government entities services including plans, training, and exercises. Prior to this, she worked with the County of San Diego’s Office of Disaster Preparedness where she co-authored an update to the County’s Emergency Operations Plan and served as the public information officer. Carolyn is a certified emergency manager with more than 30 years of experience in the field. She has extensive experience as an instructor of emergency management courses for FEMA’s Emergency Management Institute, California Specialized Training Institute, the National Disaster Preparedness Training Center, and numerous higher education institutions.

1.3 Welcome from the International Federation of Red Cross and Red Crescent Societies (IFRC)

Jessica Ports Robbins is the Technical Advisor, Preparedness ICTs for the Global Disaster Preparedness Center (GDPC). She has worked with the American Red Cross since 2001. In her role with GDPC she manages the Center’s digital tools, including the Universal App Program, the WhatNow Service, and Atlas: Ready for Business preparedness app, and she provides technical guidance to partner Red Cross and Red Crescent National Societies. Her education includes a BA in History from Elon College, an MS in History & Sociology of Technology & Science from Georgia Institute of Technology, and a Ph.D. in international development, also from Tulane. Areas of expertise include information and communication technology for development (ICT4D), mobiles for development (M4D), disaster risk reduction, shelter operations, pet evacuation and sheltering, volunteer management, international humanitarian law, and community disaster preparedness.
1.4 Welcome from the International Telecommunication Union (ITU)

3.22 ITU and CAP

Vanessa Gray heads the ITU Development Sector (ITU-D) Environment and Emergency Telecommunications Division. In this role, she is responsible for studying needs, developing specific programs of assistance, and identifying ICT for Development opportunities. She also coordinates emergency telecommunications, developing ICT projects that provide assistance for disaster prevention, preparedness, mitigation, response, and recovery. Her Division is responsible as well for ITU-D programs on e-waste and climate change adaptation. Prior to this position, Vanessa was in the ITU ICT Data and Statistics Division where she contributed to analytical publications, organized ICT-related meetings, and delivered national and regional training on ICT statistics. Vanessa holds a Master’s degree in Political Science and Economics from the Graduate Institute of International and Development Studies in Geneva, Switzerland.

1.5 Welcome from OASIS (standards organization)

3.6 Updates from OASIS Emergency Management Technical Committee

Training - CAP Over Mobile Networks

Elysa Jones is an internationally recognized expert in Emergency Interoperability Communications via Data Messaging. She is Chair of the OASIS Emergency Management Technical Committee since 2004. Her Committee developed and maintains the Common Alerting Protocol (CAP) Standard, also known as ITU Recommendation X.1303. Additional Standards for message distribution, resource messaging, hospital availability, tracking of emergency patients and clients and situation reporting are products of her committee. She is an Emergency Communication Expert for the International Telecommunication Union (ITU), Chief Technology Officer and Advisor for various Companies, Organizations and Countries providing guidance on the development of systems that utilize data messaging standards. She holds a Baccalaureate Degree in Economics, and a Master's Degree in Computer Science from the University of Alabama in Huntsville. Elysa is a tireless advocate for the use of open standards in support of emergency communications.

1.6 Welcome from the World Meteorological Organization (WMO)

3.3 WMO and CAP

Adanna Robertson-Quimby has been, since September 2021, a Programme Officer in the Disaster Risk Reduction and Public Services Branch within the Services Department of the World Meteorological Organization, based in Geneva. Prior to this position, she was Technical Officer (Meteorology and Training) in the Caribbean Institute for Meteorology and Hydrology.

2 Organization of the Workshop

Training - CAP Alert Hubs: Common Policies and Practices

Eliot Christian is a pro bono consultant to various organizations. He leads the Filtered Alert Hub initiative on behalf of the U.S. NOAA. He consults on CAP and conducts CAP training for IFRC, ITU, UNDRR and the US Agency for International Development. He is also a pro bono consultant to, and retired from, WMO. He was a chief architect of the WMO Information System and the Global Earth Observations System of Systems. Eliot is retired from the United States Geological Survey (USGS) where for many years he helped lead broad programs for environmental data sharing. Since 2001, he has been active in developing and promoting CAP, especially internationally. Eliot is also CEO of the non-profit Alert-Hub.Org CIC (Community Interest Organization).
3.1 Risk Communications + Community Capacity Building –
Case Study from Dominica (Bapon Fakhruddin)

**Bapon Fakhruddin** is an eminent hydro-meteorologist and disaster risk assessor with 19 years’ global experience in water resources and climate resilience projects. His key areas of expertise are hazards forecasting, climate and multi-hazard risk assessments and coastal community resilience. His most high profile work is evidenced in the development of multi-hazard warning systems - including a tsunami warning system developed for Indian Ocean countries following the deadly 2004 Boxing Day tsunami. He has since designed and helped to implement climate change and disaster risk projects for more than 25 countries across Asia and the Pacific. Dr. Fakhruddin has played a pivotal role in the design and implementation of multi-hazard early warning systems for floods, cyclones and tsunami, crucial to saving lives and livelihoods, while reducing property damage. Dr Fakhruddin is currently working as a Technical Director-disaster risk and climate resilience in Tonkin + Taylor International.

3.2 CAP via Galileo Satellite Navigation System

**Benoit Vivier** is Public Affairs Manager at the European Emergency Number Association (EENA). His areas of expertise include: emergency communications, European Union decision-making, EU legislation on tech, Digital Single Market, emergency caller location, and public warning systems. He is an alumnus of the College of Europe with a Masters Degree in Political and Administrative Studies. Benoit is also an alumnus of Sciences Po Lille with a Masters Degree in International and European Affairs.

3.4 WMO Severe Weather Forecasting Programme

**David Koros** is the Assistant Director of Meteorological Services at the Kenya Meteorological Department, in charge of severe weather forecasting and generation of warning services. His duties include: analysis and interpretation of models and weather forecasting products; data management and generation of weather diagnostic products; forecasting and provision of hydrometeorological services; and, interpretation and dissemination of severe weather products. Since 2012 he has led regional video teleconference weather forecasts productions which improved accuracy and level of confidence. David holds a Master of Science in Aviation Meteorology and a Bachelor of Science in Meteorology, both from the University of Nairobi. He also has a Diploma in Meteorological Communications and completed a Meteorological Technician course. His research has focused on the enhancement of forecasting for extreme weather events, using numerical weather prediction systems and remote sensing information.

3.5 Implementing CAP in Benin

**Diane Laourou** has been a Meteorologist at the National Meteorological Agency of Benin (METEO BENIN) since 2017. She is a weather forecaster and CAP approver. She holds a Master of Science in Applied Meteorology as a graduate from Nanjing University of Information Science and Technology in 2015.
3.6 Updates from OASIS Emergency Management Technical Committee
Training - CAP Over Mobile Networks

Mark Wood serves as a Lecturer in Instrumentation and Control at the Gen2 Technical training center in Cumbria. He has spent over 45 years in Telecom and Emergency/Disaster relief, with half of that time as a Lecturer or trainer. Mark was twice honored for his work on Humanitarian Telecommunications projects and has previously served the UN office for the Co-Ordination of Humanitarian Affairs as an Expert advisor and as Disaster Coordinator, and the ITU as convener of Cell Broadcast harmonization. Mark is active in the areas of Public Safety communications.

Representing his nonprofit organization Disaster Relief Communications Foundation (DRCF), Mark is a member of OASIS and the CAP-Subcommittee. He works with the committee to develop and edit an OASIS Committee Note for the purpose of documenting Mobile Alerting Practices (MAP) around the world.

3.7 AccuWeather and CAP

Eric Michielli is currently serving as the Senior Director of Data and Weather Technology within the Information Technology department at AccuWeather. Working closely with the Core Weather Content team, Eric’s team is responsible for integrating new data into our enterprise systems, with an emphasis on weather alerts and observations. In addition, the Data Management team is also responsible for maintaining our centralized locations database and relating those locations to the correct weather content. Our team’s primary goal is to ensure that our users get the right information as quickly as possible.

Eric has been with AccuWeather since August of 2005. After graduating from Pennsylvania State University with a BS in Meteorology and a minor in Information Science and Technology in 2004, Eric served as a programmer on the meteorological data integration team. Eric also served as a Database Developer, Database Administrator, and Director of Data Management prior to his current role.

3.8 CAP in Rwanda

Fidele Kamanzi is a Division Manager of Technology and Information Services at Rwanda Meteorology Agency. He joined Rwanda Meteorology Agency in 2014 as project manager of C250P Doppler Weather Project. He served as senior surveillance radar engineer from 2000 to 2014 in Air Navigation Services (Rwanda Civil Aviation). He was a member of the CNS/ATM National Technical Committee in charge of Planning, Design, and Implementation of national CNS/ATM systems. He was a member of the technical committee to Study, Design, Plan and Implement the Airspace Surveillance Project for MININFRA, Kigali, Rwanda. He participated in many training courses including EWS at the National Weather Center in Oklahoma on Weather Forecast, as well as at the Earth Network HQ in Washington DC. He obtained a Bachelor of Science in Information Technology in 2005 at University of Rwanda and a Master of Science in Operational Communications in 2012 at University of Rwanda.

3.9 CAP in Mali

Ismahila Koumare is the CAP Focal Point in Mali and the expert in charge of training five countries on implementation of the CAP standard (Cameroon, Congo-Brazzaville, Guinea Conakry, Togo and Benin). He is responsible for Climatology and Climate Projection at the National Meteorological Agency of Mali (MALI-METEO). In 2010, he obtained a scholarship from the World Meteorological Organization (WMO) in China (Nanjing, NUIST), Master in Meteorology Science. In 2014, he published an article entitled “Temporal/Spatial Distribution of Rainfall and the Associated Circulation Anomalies over West Africa”. Ismahila speaks Bambara (mother tongue), French, English and Chinese.
3.10 CAP Implementation at Barbados Meteorological Services

Jonathan Alleyne is one of the newer staff of the Barbados Meteorological Services. He has been a part of the organization since January 2020 and has been acting as Meteorologist shortly after, from September 2020. In addition to his work as meteorologist, Jonathan is involved with the construction and maintenance of some in-house developed applications which communicate directly with CAP.CAP, the development of the office’s main website and its android mobile application BMS Insight.

3.11 Meteorological Warnings and Service in China

Yingying Song graduated from Changchun University of Science and Technology and is now a senior engineer at China's National Early Warning Center. She has compiled several patents and association standards in the field of early warning information release. Mrs Song has also solved some barriers in release strategy and semantics detection methods, and she has published multiple articles in core journals on the use of computer application technology to release early warning information.

3.12 IFRC and CAP

Karin Metz serves as the project management consultant for the IFRC in support of the IFRC Alert Hub Initiative to strengthen early warning and emergency alerting by promoting CAP. Previously, Karin worked for both the Global Disaster Preparedness Center (GDPC)/American Red Cross and IFRC Asia regional office as Knowledge Management and Research Officer. Karin holds a Master Degree in Geography from the Humboldt University in Berlin, Germany and Universidad de Oviedo, Spain.

3.13 CAP Impact Insights from Google

Training - Google Onboarding Process for CAP Alert Feeds

Kevin Holst works at Google managing crisis response partnerships for products including Public Alerts, wildfire boundary maps, and flood forecasting. Prior to Google, Kevin held leadership positions at various international non-profits including World Central Kitchen (WCK), where he developed a passion for helping communities affected by crises. During his tenure as the Director of Development and Communications, the organization launched large-scale disaster relief efforts starting with their direct response to Hurricane Maria in Puerto Rico. The team activated 20,000 volunteers and became the largest meal producer on the island, delivering over 3.5 million meals in the months following the hurricane.
3.14 Multi Hazards Risk Communication in Nepal

**Krishna Poudel** is a media personnel in Nepal. She has travelled to many countries as a Media person. She holds a Master’s Degree in Arts (Sociology). She leads the GM Media/ News Agency Nepal (NAN) as a president. GM Media/NAN is a media agency that works with the network of television, online, print, and radio. Through this organization, she has been actively working and advocating for policy advocacy, research and investigative journalism, news content development, its dissemination among a wide audience focusing on climate change, disaster, disaster risk reduction, multi-hazards risk communication, and early warning system for reducing the risk of hydro-meteorological disaster in Nepal supported by Practical Action in Nepal. She was also one of the judges from Nepal, at Agora International Conventions in 2021 and MRS HIV Stigma Free Contest 2005 organized by Family Planning Association, Nepal.

3.15 CAP Implementation at meteoblue

**Léo Rocher** leads the development of data interfaces products and oversees the integration of weather warnings at meteoblue AG. He holds a Master Degree in Software Engineering from the University of Toulouse II (Jean Jaurès) and has more than 8 years of experience developing GIS products for the aerospace and meteo industries.

3.16 CAP in Italy

**Marcello Marzoli**, Fire Captain, master’s degree in aerospace engineering, since 1990 he has been working for the Italian Ministry of interior, Department of Fire corps. He has been working at the National control centre, Air service, IT office and now at the National fire academy. Since 2001 he has been working on several European and National R&D projects focussed on satellites, indoor location, control centres' interoperability and mass evacuation. He has been appointed as EC expert evaluator and to serve on the NFPA Committee on Mass Evacuation and Sheltering. Inventor and assignee of Italian patents, he has published several papers.

3.17 A CAP-enabled Public Warning Chatbot

**Menno Bot** is Solution Architect at Everbridge in The Netherlands. Everbridge provides Cell Broadcast for Telecom operators as well as Public Warning Portals to Governments. Menno is responsible for the architecture of Everbridge Public Warning products and also participates in various internal and external research projects, several involving CAP. Menno has a Bachelor degree in computer science from the Amsterdam University of Applied Sciences, holds various patents and has over 20 years of experience in Telecommunications and IT in various countries, working previously with Comptel, Nokia and Group 2000.
3.18 Impact-Based Warnings and CAP

**Rainer Kaltenberger** is a consulting meteorologist with the Austrian Central Institution for Meteorology and Geodynamics (ZAMG). He is programme manager of EUMETNET EMMA/Meteoalarm, a CAP-based regional warning system in Europe with 37 countries participating. His long-term expertise in developing operational and impact-based early warning systems is requested by several national and international initiatives. His roles have included leading WMO/World Bank-financed projects in implementation of CAP-based EWS and service delivery, member of WMO expert team on a Global multi-hazard Alert System (GMAS), task team member of the WMO HIWeather research project and a number of European initiatives in the field of crowdsourcing and post-disaster damage assessment (European Severe Storms Laboratory). In Austria, he works as Court Certified Expert and is consultant in commercial and research projects including the fields of DRR, motivation of laypersons to engage with meteorology and climate change in contemporary arts.

3.19 Italy and the Seveso Directive

**Romualdo Marrazzo** works at ISPRA (Italian National Institute for Environmental Protection and Research) in the Service for Risks and Environmental Sustainability of Technologies, Chemical Substances, Production Processes and Water Services and for Inspections. He holds a Master's degree in environmental engineering and is a national expert qualified as a Health, Safety, and Environment (HSE) Specialist. Romualdo provides technical and scientific support to the Environmental Ministry for the Seveso directives and he is concerned with international implementation of Seveso directives on behalf of the European Commission Committee of Competent Authorities (EC-CCA). He conducts: integrated assessment of major accidents in industrial areas; risk analysis and area impacts; analysis and evaluation of the risk of dangerous chemicals and human exposure through the environment; and, training for inspectors and industrial risk analysts. He also conducts inspections on a regular basis and after an accident, at various national installations.

3.20 Implementing CAP in Botswana

**Samuel Ramotonto** is a Meteorologist at Botswana Department of Meteorological Services. He has a bachelor’s degree in Physics-with-Meteorology. Ramotonto is currently working as a weather forecaster under the Public Weather Services (PWS). His main duties involve issuance of weather forecasts, advisories and warnings to the public and to other weather and climate stakeholders such as insurance, health and agriculture companies, just to mention a few. He is passionate about early warning systems and he is a technical person for Common Alerting Protocol (CAP) at Botswana Department of Meteorological Services. He is famous for presenting weather forecasts on national television and radio stations.
3.21 In-vehicle Map alerts via the TPEG2 Emergency Alerts and Warnings standard

**Cordelia Wilson** is a communication professional specialised in smart mobility and automotive with over 20 years of experience. She provides solutions in branding, editorial campaigns, events, marketing, press and public relations in both the private and political sector, creative writing and messaging being key elements of her toolbox. More recently Cordelia was responsible for the organisation and marketing of the Intelligent Transportation Systems (ITS) European Congress, Toulouse and ITS World Congress, Hamburg. Today, she is delighted to be supporting the communication goals of the Travelers Information Services Association (TISA).

3.22 ITU and CAP

**Amélie Grangeat** is a Senior Product Manager and expert on Public Warning Systems at F24. She has implemented the Belgium Public Warning System called Be-Alert and advises several European governments and institutions to build up their public alerting strategy. She is also an expert at the International Telecommunication Union – a Branch of the United Nations – to help developing countries to build their resilience strategy. As a member of the STELLAR project, she helps to build the technical specifications for the future European System of Alert via Galileo for the European Commission, which will use CAP. She holds a PhD since 2016 on the topics of crisis management and resilience of critical infrastructures. She shares regularly her experience through international conferences.

Training - Making GIS Features from CAP Alerts

**Ian Ibbotson** is owner and Director of Knowledge Integration Limited, a company in Sheffield, United Kingdom, primarily specializing in distributed information indexing and retrieval architectures. Ian also volunteers as principal designer and developer on the Filtered Alert Hub initiative, part of the NOAA Big Data Project. This cloud-based, free resource is a global-scale aggregator of Internet news feeds that link to emergency alerts in the CAP standard format. This Alert Hub aggregates about 80 national-scale CAP news feeds from 66 countries and it is growing steadily. Ian migrated the Filtered Alert Hub to use Rabbit Message Queue as its base technology.

Training - Google Onboarding Process for CAP Alert Feeds

**Novita Mayasari** is a Technical Integration Lead for Google Crisis Response, providing technical consultations to data providers in making their content searchable on the web. Through her work on technical troubleshooting and scaling partner onboardings, Novita and her team have been actively expanding Google’s footprint in the Crisis Response and alerting space. Novita joined Google in 2013, working on the Trust & Safety team where she led an anti-abuse team to detect and implement fraud detection strategies. Her work in Google includes safeguarding Google’s 2-factor authentication, and launching Flood Forecasting experiences in India, Bangladesh, and Sri Lanka. Novita holds a Bachelor’s degree in Applied Mathematics with Minors in Computer Science and Economics from National University of Singapore. She is fluent in English, Malay and Bahasa Indonesia.
Training - IFRC CAP Editor: Design Preview

**Paola Yela** is the Information Management and Data Science Officer at the International Federation of the Red Cross and Red Crescent Societies (IFRC) in Geneva. She holds a bachelor's degree in Management Engineering from the National University in Colombia and a master's in Digital Humanities from the EPFL in Switzerland. She worked for the Emergency Social Safety Net (ESSN) program in Turkey, supporting Information Management processes for delivering cash to more than 1.7 million refugees. Currently, she is working on the implementation of the IFRC AlertHub Initiative, ideating solutions to effectively advocate for the use of the Common Alerting Protocol, and in the proposal of a roadmap for using Machine Learning at IFRC, collaborating in Red Cross Movement-wide initiatives like the Data Playbook and GO. Her professional vision is to become a bridge-builder between the data-science field and the humanitarian sector.

Training - OpenBroadcaster: CAP alerting with Community Radio

**Rob Hopkins** comes from a pioneering family of Canadian inventors. He started in the arctic communications industry in 1992 by building a private mountain top wireless link connecting Tagish and Whitehorse (120kms away) to communicate purchase order faxes with East Asia. This was followed by an "under regulated" broadcast radio station in 1997 from his home in Tagish. While struggling to make his station accessible to the local populace while providing community access programming and public alerting, he began to envision a web based "radio station in a box" prototype with unattended CAP Emergency Broadcasting at its core. His group has since released an open source Media Asset Management (MAM) system supporting CAP images with video and audio messaging. This is being used throughout all broadcast sectors in Canada, including commercial, community, campus, indigenous, development, and tourist information for radio, along with TV, scrolling LED, and digital signage systems.