



Part III – Workplan

<p>Activity ID 15998</p>	<p>Activity title</p> <p>Link to TOR</p> <p>Name(s) of responsible staff at the institution</p> <p>Type of activity</p> <p>Description of the activity and how it is implemented</p> <p>Expected deliverables</p>	<p>Systematic Review and Bibliometric Analysis of Mass Gathering Scientific Literature</p> <p>Professor Paul Arbon</p> <p>This work investigates the scientific evidence for mass gathering health practices. Scientific papers are reviewed and assessed for level of evidence and key findings. This information supports the WHO/HSE, demonstrating what is known and the gaps in evidence. This is especially useful in the re-development of the WHO Guidelines for Mass Gatherings. The bibliometric analysis identifies patterns in publication across journals, authors and disciplines for the mass gathering literature and informs the WHO/HSE on sources of evidence and expertise. The project team for this work includes Dr Lynette Cusack and Ms Naomi Verdonk.</p>
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		<p>Report on the scientific literature and a bibliometric analysis will be available August 2012. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>Connected WHO task Scientific evidence for WHO/HSE work and for the WHO Guidelines for Mass Gatherings</p> <p>Name(s) of funding sources Flinders DRC</p> <p>Activity timeframe Completed August 2012</p>
<p>Activity ID 15999</p>	<p>Activity title Link to TOR Name(s) of responsible staff at the institution Type of activity Description of the activity and how it is implemented</p>	<p>Models and tools for prediction of mass gathering presentations</p> <p>Professor Paul Arbon</p>

	<p>This activity forms a component of the research program designed to develop ontologies and predictive models for mass gathering event health services. The work builds on a program of research commenced in 2001 which has to date resulted in the development of accurate predictive models for patient presentation rates and for transport to hospital rates which are used for event planning internationally. These projects have identified a number of questions requiring further investigation and the program will adapt new technologies to collect data and refine models.</p> <p>Expected deliverables</p> <p>Scientific research reports on the application of new models to predict health impact(s). The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaptation, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>Connected WHO task</p> <p>WHO/HSE and its partners will benefit from the availability of better predictive models to support planning for on-site health services at mass gatherings internationally</p> <p>Name(s) of funding sources</p> <p>External research grant funding</p> <p>Activity timeframe</p> <p>This will be a continual activity of the proposed Collaborating Centre</p>
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Activity
ID 16000

Activity title	Development of an International Database and repository for mass gathering events
Link to TOR	
Name(s) of responsible staff at the institution	Professor Paul Arbon
Type of activity	
Description of the activity and how it is implemented	<p>This project builds on an existing pilot project to establish a web based portal for research data on mass gathering patient presentations. The database will be open to registered researchers and collect standard data from events internationally. This data includes key features of the event activity and environment and for patient presentations and disposition. A Beta version of the web-portal has been developed and requires further testing.</p>
Expected deliverables	<p>A web-based portal and database for mass gathering health research accessible for researchers and practitioners internationally and providing the basis for meta-analysis and meta synthesis of mass gathering research findings. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p>
Connected WHO task	



	<p>WHO/HSE is interested in the epidemiology of mass gatherings including key factors and risk. An extensive research database will support future research and reporting.</p> <p>Name(s) of funding sources Flinders DRC</p> <p>Activity timeframe Completed June 2013</p>
<p>Activity ID 16001</p>	



Activity title	Investigation of the safety and health aspects for young people attending mass gatherings
Link to TOR	
Name(s) of responsible staff at the institution	Dr A Hutton
Type of activity	
Description of the activity and how it is implemented	This activity forms a component of the research program for the psycho social aspects of mass gatherings. Dr Hutton and her team have previously completed research investigating the health and safety issues for young people. These projects have identified a number of questions requiring further investigation.
Expected deliverables	Scientific research reports and improved practice guides for event managers and health services. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaptation, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.
Connected WHO task	The psycho-social aspects of mass gatherings is a key consideration in the WHO Mass Gathering Guidelines
Name(s) of funding sources	External research grant funding
Activity timeframe	This will be a continual activity of the proposed Collaborating Centre



Activity
ID 16002

Activity title

Education programmes on Mass Gathering
& Extreme Event Health

Link to TOR

Name(s) of responsible staff
at the institution

Professor Paul Arbon

Type of activity

Description of the activity
and how it is implemented

Development of training courses concerning all aspects of mass gathering and extreme event health including event management. These courses, based on experiences of a pilot master class and on line disaster management courses are devoted to training front-line health care workers, will focus on (1) the factors influencing mass gathering presentations (2) planning and prevention aspects including border controls and surveillance (3) response including managing emergencies and disaster events

Expected deliverables

Establishment of a group of interrelated short courses delivered on-line and face to face to be used at regional/national level and/or during operational activities. Increased level of knowledge and awareness of mass gathering planning and service delivery, clinical care, and current evidence to support practice. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.



	<p>Connected WHO task</p> <p>Name(s) of funding sources</p> <p>Activity timeframe</p>	<p>WHO/HSE has identified a need for appropriate training courses</p> <p>Courses are full fee paying</p> <p>This will be a continual activity of the proposed Collaborating Centre</p>
<p>Activity ID 16003</p>	<p>Activity title</p> <p>Link to TOR</p> <p>Name(s) of responsible staff at the institution</p> <p>Type of activity</p> <p>Description of the activity and how it is implemented</p> <p>Expected deliverables</p>	<p>International Law (including the International Health Regulations) and the regulation of the mass gathering and extreme event environment</p> <p>Professor Susan Breau</p> <p>This research program addresses issues associated with the Law of Armed Conflict, International Protection of Human Rights and the Law of International Organisations among others and considers how international law interacts with the requirements of mass gatherings and extreme events such as human rights, border control and point of entry issues, cross border emergencies and external international emergency aid. This team includes Associate Professor Tina Dolgopo, Associate Professor Simon Marsden, Dr Grant Niemann, and Ms Anna Guthleben.</p>



	<p>Scientific research reports and best practice guides. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>Connected WHO task</p> <p>Key considerations for mass gatherings include management of issues associated with mass movement of populations across international borders and in the event of extreme emergencies coordination of the international response. These events require careful consideration of aspects of law and the research will inform WHO/HSE</p> <p>Name(s) of funding sources</p> <p>External research grant funding</p> <p>Activity timeframe</p> <p>This will be a continual activity of the proposed Collaborating Centre</p>
<p>Activity ID 16004</p>	<p>Activity title</p> <p>WHO Guidelines for Mass Gathering Health</p> <p>Link to TOR</p> <p>Name(s) of responsible staff at the institution</p> <p>Professor Paul Arbon/ Dr Alison Hutton</p> <p>Type of activity</p> <p>Description of the activity and how it is implemented</p>



	<p>Expected deliverables</p> <p>Connected WHO task</p> <p>Name(s) of funding sources</p> <p>Activity timeframe</p>	<p>The WHO Guidelines for Mass Gathering Health are being re-written by WHO/HSE. Professor Arbon is a member of the Editorial panel for the Review and Dr Hutton is the Chapter author for the section focussed on the psycho-social considerations for mass gatherings.</p> <p>Positive contribution to development of a new WHO guideline. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>The Guideline development is a project of WHO/HSE</p> <p>Unfunded</p> <p>It is anticipated that this work will be completed by end 2012</p>
<p>Activity ID 16005</p>	<p>Activity title</p> <p>Link to TOR</p> <p>Name(s) of responsible staff at the institution</p> <p>Type of activity</p> <p>Description of the activity and how it is implemented</p>	<p>Managing mass gathering events</p> <p>Dr Steve Brown</p>



	<p>This research program, supported by the Event Design Research Network addresses mass gathering research into Event design: the creation and staging of the event experience; audience behaviour (as influenced by event design); Integrated Data Survey System (IDSS) investigating audience experience at events; socio-cultural impacts of festivals and events; and, event tourism.</p> <p>Expected deliverables Scientific research reports and best practice guides. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated. At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>Connected WHO task Key considerations for Mass Gathering health include the structure and management of the event venue. The event management discipline is an important contributor to our understanding of the epidemiology of mass gatherings and plays a key role in mitigation of the health effects of mass gatherings and extreme events</p> <p>Name(s) of funding sources External research grant funding</p> <p>Activity timeframe This will be a continual activity of the proposed Collaborating Centre</p>
	<p>Activity title</p>



Activity
ID 16006

Technology for mass gathering and extreme event communications, command and control

Link to TOR

Name(s) of responsible staff at the institution Dr Paul Gardner-Stephen

Type of activity

Description of the activity and how it is implemented

The ad hoc Telecommunications Networks program is based in the Resilient Networks Laboratory. The focus of activity is around the research and development activities relating to the Serval Project, which has created software that runs on off-the-shelf cell-phones enabling them to operate during disaster and in areas where cellular infrastructure may be overwhelmed – such as mass gatherings and extreme events. In addition to infrastructure-independent telephony, the Serval Project is also developing distributed and infrastructure-free social networking, situation awareness and mapping tools to enable infrastructure-deprived events to maintain or recover communications ICT as fully as possible. This technology has the potential to make a significant impact on the lives of those affected by extreme events and to support response capacity for health and other emergency services. The Serval Project software has been released as free and open-source software under the GNU General Public License so that it can benefit as many people as possible, without barriers of cost. Additional information is available at <http://www.servalproject.org/> This work is supported by the staff and students of the Serval Project Team.

Expected deliverables



	<p>Reports and guidelines for robust communications capability for mass gatherings and extreme events. The copyright of such work product will automatically be vested in WHO, unless WHO requests otherwise. The institution (as a WHO CC) will be appropriately acknowledged for its contribution in connection with the product. WHO retains the right to amend the work product after consultation with the institution, to decide if and how the work product will be used and whether or not it will be published and disseminated.</p> <p>At the institution's request, WHO will give good faith consideration to granting the institution a non-exclusive, world-wide, royalty-free right to use, translate, adapt, publish and disseminate such work product as part of its agreed workplan as a WHO CC, or to use it for the development of other work products as foreseen in the WHO CC terms of reference. Any adaption, translation and publication (including in scientific journals) and dissemination will be coordinated with and requires the agreement of WHO in order to avoid overlap. Any licence granted by WHO will terminate automatically upon termination or expiry of the institution's designation as a WHOCC.</p> <p>Connected WHO task Coordination of mass gathering and extreme event response and the ability to sustain and utilise social networks and other on line information sources is a current concern of the WHO/HSE. Additionally coordination and information sharing is an identified weakness among Global Health Cluster organisations responding to extreme events.</p> <p>Name(s) of funding sources Serval Project, Shuttleworth Foundation and Flinders University</p> <p>Activity timeframe This will be an on-going activity of the proposed Collaborating Centre</p>
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