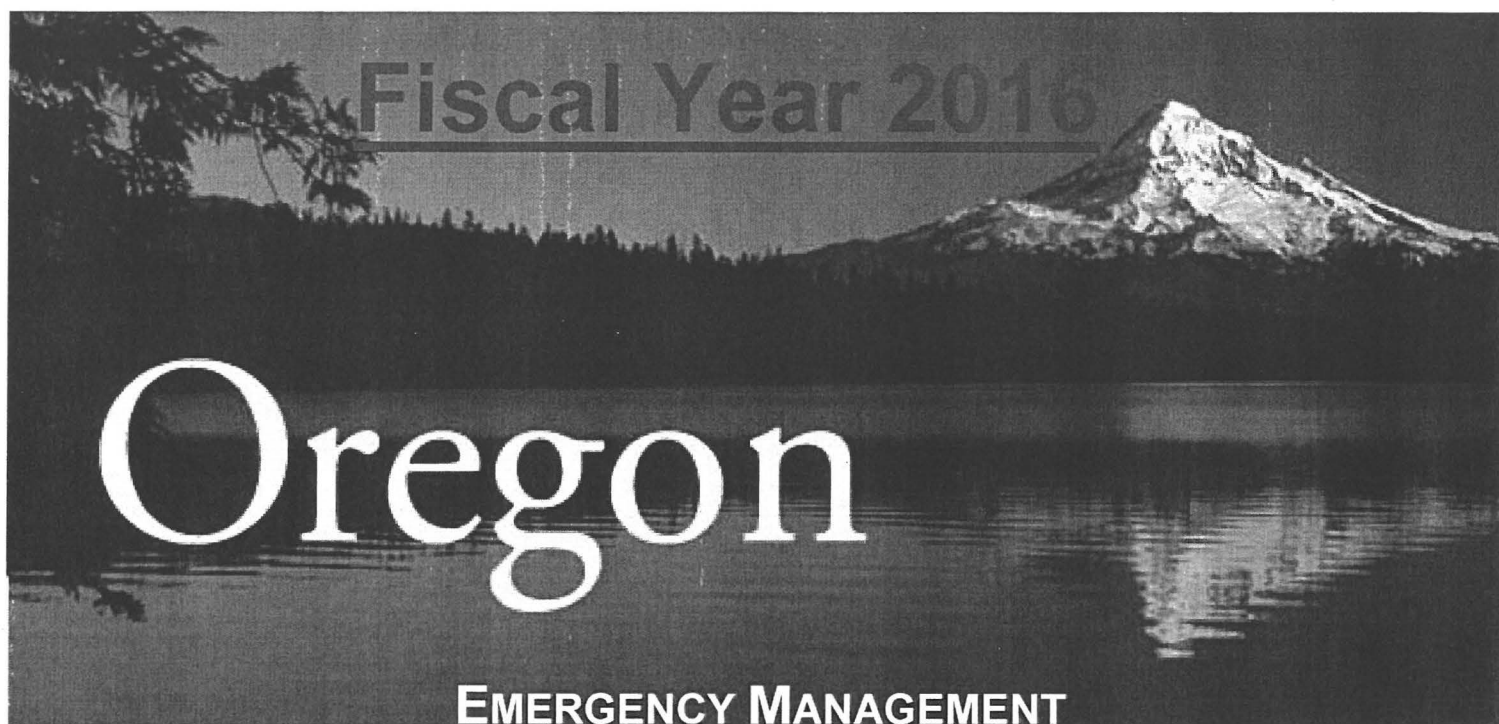




STATE HOMELAND SECURITY GRANT PROGRAM

PROJECT PLANNING WORKSHEET

OCTOBER 2015



STATE HOMELAND SECURITY PROJECT PLANNING WORKSHEET

Overview

This worksheet is for applicants applying for the FY2016 State Homeland Security Grant Program (SHSGP) funding in compliance with FY2016 Application Instructions and Grant Guidance. This worksheet must be completed in full and provide a detailed budget as identified in the application instructions. No more than seven (7) worksheets may be turned in per county or tribe.

Project Information:

(See page 7 of application instructions)

1. County or Tribe:

Multnomah County

2. Project Name:

Damage Assessment Mapping Tool

3. Total Federal Funding Requested:

\$30,000

4. Regional Project:

(Point Value = up to 15)

No

5. If Regional, List Partners:

Click here to enter text.

Investment Justification

(See page 4 of application instructions)

6. Identify State IJ:

Emergency Operation Centers Investment

Baseline: New or Ongoing Project**Capabilities that will be created or enhanced by the project.**

(See pages 7 and 8 of application instructions)

7. Project Phase: (Place an "X" in the corresponding box) (Point Value = 5)

- ☒ Sustaining or maintaining a core capability acquired with Federal funding
- ☐ Sustaining or maintaining a core capability acquired without Federal funding
- ☐ Developing or acquiring a new core capability (new capabilities must be deployable)

Description of Existing Capabilities:

In July 2014, the Portland Bureau of Emergency Management (PBEM) completed a citywide Damage Assessment Plan. The plan's concept of operations requires ATC-20 certified inspectors to complete a post-earthquake safety evaluation on every commercial and government building in the City. The Damage Assessment Plan was tested during a full-scale exercise on September 30, 2014. During the exercise, paper forms were transmitted via radio to bureau incident command posts and entered into WebEOC. (WebEOC is the City's, and Portland Metro area's, primary crisis information sharing software.) PBEM originally purchased WebEOC on July 31, 2006 with UASI funds. On September 1, 2008, the WebEOC contract was expanded to include other UASI regional partners (Columbia, Multnomah and Washington Counties as well as TriMet, Oregon Department of Transportation and the Port of Portland). Additional UASI funds were used from 2012-2015 to host WebEOC in the cloud to provide adequate disaster recovery capabilities.

During the September 2014 exercise designed to test the Damage Assessment Plan, City Emergency Coordination Center (ECC) responders and GIS staff were asked to process ATC-20 forms in WebEOC. There were several limitations noted. First, within WebEOC, multiple users could edit the same form simultaneously. Second, radioed reports entered into WebEOC included numerous data entry errors. Finally, estimated damage value is needed for state and federal disaster declaration forms, therefore GIS staff were asked to match WebEOC damage reports with missing building value data.

In April 2015 City GIS staff approached PBEM about an off-the-shelf mobile application titled "Collector." This app is free for user purchase on Apple and Android devices. The City's current GIS license allows City staff to program the interface to be customized into any desired form. In June 2015 PBEM and City GIS staff initiated a project to collect damage assessment information – specifically the ATC-20 rapid

assessment forms – through the Collector app. Additional programming was completed to interface between Collector and WebEOC so that all forms, locations and estimated damages were automatically populated into WebEOC and its mapping tool. Additional programming also allowed Collector to match building value data, via county tax assessor information, with estimated damages to export dollar value information to the Initial Damage Assessment spreadsheet. The Collector application has been tested twice: on October 22nd and November 18th, 2015. These exercises identified additional bug fixes and important next steps to implement a more integrated damage assessment process.

Project Description:

Provide a detailed description of this project.
(See page 8 of application instructions)

8. Description of Project:**(Point Value = 45)**

PBEM and many other City bureaus enthusiastically endorse the Collector application and its interface into WebEOC. Initial training took approximately ten minutes. All users were able to operate the app, complete ATC-20 inspections and access the information in WebEOC. Inspected buildings populate into the WebEOC MapperPro tool with green, yellow or red icons, which allows the Planning Section's Situation Status Unit to rapidly visualize the worst damaged areas of the city. Detailed information is available in WebEOC directly from inspectors in the field – almost eliminating human error. The inspections are geocoded, time/date stamped, and the inspector is identified.

During the initial Collector exercises, the current programming could not handle moderate activity volume. SHSP funding would be used to increase the number of users and inspections that the program can handle per minute. Programming would also be completed that could isolate errors. This second programming phase allows rapid problem identification and would allow City GIS staff to fix problems as they occurred during trainings, exercises, and actual incidents.

Currently, Collector must be connected to either Internet or cellular service to gather and transmit information. This project will fund programming to enable the application to gather and store inspections while offline.

Finally, following a catastrophic incident City and private phone and Internet access may not exist for some time. Currently, Collector will not function in this environment. This project would additionally use funding to conduct a feasibility study to determine what programming and equipment would be needed to operate Collector without these services.

All programming and the study would be completed by City of Portland GIS staff. PBEM would provide project management and oversight.

Equipment or Services

Equipment or services to be purchased for the project.
(See page 8 of application instructions)

9. Project Outputs:

(Point Value = 5)

The Damage Assessment Mapping Tool project will enable:

Collector and associated WebEOC programming to handle at least 15 inspections per minute.

Damage assessment inspectors to use the Collector application offline and upload information once the connection is established.

A completed feasibility study, including associated costs, that describes the process to use Collector and WebEOC if commercial phone and Internet is not available in the City by June 2018.

Capabilities

Capabilities that will be created or enhanced by the project.

(See pages 8 and 9 of application instructions)

10. Project Outcomes:

(Point Value = 10)

This project will significantly increase the City's capacity to rapidly gather and share damage assessment information. It will expedite local, state, and federal disaster declaration processes enabling the City to request needed resources quickly after a major incident. The damage assessment information will be centrally displayed in the City's ECC which will enable the Situation Status Unit to gather a clear picture of damages throughout the City. The MapperPro feature within WebEOC allows all City emergency responders to view this information as part of a "common operating picture." This project is not currently regional; however, if we are able to demonstrate the proof of concept and show value for Portland, the Collector code could be made available for regional or even statewide use.

State Strategy:

Identify all goals and objectives in the State Homeland Security Strategy supported by this project.

(See page 9 of application instructions)

11. State Goals and Objectives:

(Point Value = 5)

This EOC enhancement project aligns with several State Homeland Security Strategy goals and objectives:

Goal 3 Enhance Oregon's capability to recover from CBRNE/WMD and all hazards events.

Objective 8 Implement strategy for critical infrastructure recovery from CBRNE/WMD and all hazards events.

Goal 4 Enhance Oregon's ability to plan, prepare for, and respond to CBRNE/WMD and all hazards events.

Objective 10 Ensure planning that allows for coordinated multidisciplinary, multi-jurisdictional response that is consistent with the National Response Plan.

Goal 5 Ensure Emergency Management all hazard planning and program infrastructure is maintained and enhanced statewide.

Objective 1 Provide EMPG participating jurisdictions resources to facilitate staff, planning, training, exercises, and other needed emergency management resources.

Proposed Funding by Solution Area:

Provide the Proposed Funding amount to be obligated from this project towards Planning, Organization, Equipment, Training, and Exercises (POETE). (Please provide amounts for all that apply) (See page 9 of application instructions)

12. Proposed Funding:		(Point Value = 10)
Solution Area	Amount of Proposed Funding \$	Funds dedicated to Only to LETPA*
	SHSP	
Planning	\$30,000	\$0
Organization	\$0	\$0
Equipment	\$0	\$0
Training	\$0	\$0
Exercises	\$0	\$0
Total Proposed Funding:	\$30,000	\$0

* If applicable, provide the proposed funding amount that is expected to be obligated towards Law Enforcement Terrorism Prevention Activities (LETPA).

Core Capabilities:

Select the Core Capabilities supported by this Project. (Place an "X" in the corresponding boxes)

(See page 9 of application instructions)

13. Project Core Capabilities:		(check one)
☐	Access Control and Identity Verification	☐ Operational Communications
☐	Community Resilience	☒ Operational Coordination
☐	Environmental Response/Health and Safety	☒ Planning
☒	Infrastructure Systems	☐ Public Information and Warning
☐	Intelligence and Information Sharing	☐ Screening, Search, and Detection
☐	Interdiction and Disruption	☒ Situational Assessment
☐	On-Scene Security and Protection	☐ Threats and Hazard Identification

Milestones:

Identify Milestones by quarter, with start and end dates, which will be achieved within the period of performance.

(See pages 9 and 10 of application instructions)

14. Project Milestones:		(Point Value = 15)	
Quarter	Milestones	Start Date (mm/yyyy)	End Date (mm/yyyy)
1	Project initiation including scope and timeline	10/2016	12/2016
2	Complete WebEOC programming that was identified as problematic in phase I development and testing.	01/2017	03/2017
3	Complete Collector programming that was identified as problematic in phase I development and testing	04/2017	06/2017
4	Offline editing Collector programming	7/2017	9/2017
5	Offline editing WebEOC programming	10/2017	12/2017

6	Offline editing testing and after action	01/2018	03/2018
7	Feasibility study	04/2018	06/2018
8	Project closeout and sustainability plan developed	07/2018	09/2018

Sustainment:

Identify how you will sustain the capability created or enhanced by this project.
(See page 10 of application instructions)

15. Sustainment:**(Point Value = 15)**

PBEM and the City's Bureau of Technology Services (BTS) will be responsible for sustaining this capability. A maintenance plan will be developed that identifies the testing and upgrade intervals. Any Interagency Agreement developed between PBEM and BTS to conduct routine programming maintenance will use PBEM's general fund.

As mentioned in the project description, one benefit to using Collector is that it requires limited training (approximately ten minutes). However, the application will be used for ECC exercises that incorporate a damage assessment portion.

PBEM may seek additional homeland security funds to continue programming upgrades, expand the project regionally or purchase equipment that would enable the software to be used without commercial Internet. Any or all of these steps would be dependent on positive outcomes during the next stage of programming, exercising and the feasibility study described in the project description.