



2018 DAMAGE ASSESSMENT METHODOLOGY PROOF OF CONCEPT

OEMA QUARTERLY MEMBERSHIP MEETING

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GEO PROJECT MANAGER

OSCIO GEOSPATIAL ENTERPRISE OFFICE

MAY 8, 2018



PROJECT PURPOSE

Provide innovative approaches that improve statewide damage assessment collection methodologies ultimately in support of the Disaster Declaration Process

Improve support for local emergency manager needs, obtain best possible outcome through cost sharing programs, and addressing Cascadia Rising 2016 After-Action Report recommendations.

INTENDED OUTCOMES

1

Develop operational status dashboard and pre-planning state for three Oregon Framework data assets: Bridges, Buildings, and Roads (BBR)

2

Develop geo-enabled Damage Assessment Methodology for the BBR

3

Visualize available essential information (e.g. preparedness, hazards, HIFLD, aerial imagery, Oregon Framework Data)

4

Share information with participating pilot project organizations, DOJ Fusion Center, OEM, Metro, U.S. DHS, FEMA

5

Demonstrate system of record for BBR datasets for submission to FEMA (see Stafford Act)

CORE PROJECT TEAM

Mike Harryman, State Resiliency Officer, Executive Sponsor

Ed Flick, Marion County Emergency Manager, Project Sponsor

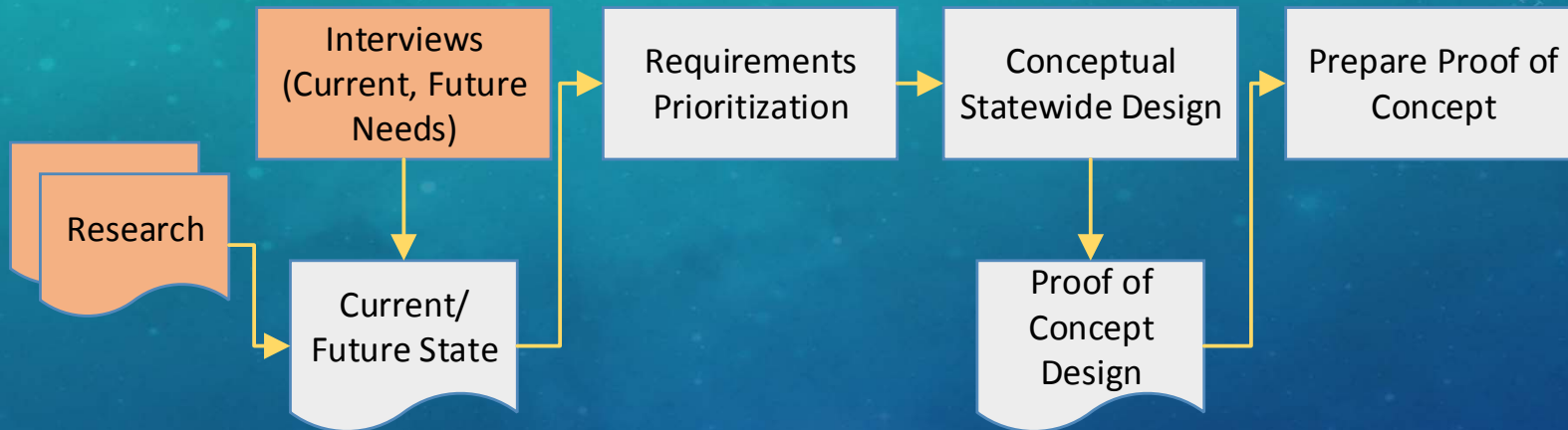
Cy Smith, State GIO, GEO Lead

Steve Pegram, Columbia County Emergency Manager, Operational Lead

Dan Brown, Project GIS Developer, Technical Resource

Robb Kirkman, Metro, Metro Lead

BUSINESS ANALYSIS APPROACH



PROJECT STAKEHOLDERS (CONTACTED TO-DATE)

Name	Org
Mike Harryman	Governor / State Resiliency Officer, Policy Advisor
Ed Flick	Marion County Emergency Manager
Chass Jones, MSPCI	DHS, Protective Security Advisor-Oregon District, Office of Infrastructure Protection
Akiko Saito	OHA, Preparedness and Response Manager
Steve Pegram	Columbia County Emergency Manager
Dan Brown	Salem GIS Developer
Zac Christensen	Metro
Burnie Pearson	Marion County CIO, Technical Resource
Daniel Stoelb	OEM
Julie Slevin	OEM
Jed Roberts	Manager, DOGAMI
Carey Palm	DHS/OHA
Joshua Tanner	DAS/GEO
Sean McSpaden	Principal Legislative IT Analyst
Cy Smith	DAS/GEO
Don Petit	DEQ
Greg Ek-Collins	ODOT

Name	Org
Joseph Murray	OEM
Robb Kirkman	Metro
Tom Rippetoe	Metro
Nika Herford	FEMA
Clint Fella	OEM
Sonya Andron	OEM
Bill Martin	OEM
Kelly Jo Craigmiles	OEM
Dan Gwin	OEM
Sonya Pedersen	OEM
Denise Choin	OEM
Zach Swick	OEM
Erik Rau	OEM
Allison Pynch	Hart Crowser
Jenny Demaris	Lincoln County EM
Greg Walsh	City of Salem
Maj Cory Jones	Oregon National Guard, Joint Director of Military Support
Eric Gebbie	OHA; Planning, Training, and Grants Chief

ACCOMPLISHED TO DATE:

- Identified and contacted 35 Stakeholders
- GEO funding proof of concept project (Business Analysis and Project Management)
- One County (Columbia) Damage Assessment workflow documented
- Nine project meetings (Core team, Stakeholders, and planning)
- Documentation drafted to-date
 - Draft Steering Committee Charter
 - Draft project charter
 - Developed current state template
 - Stakeholder register

THANK YOU

- We would like to hear from more jurisdictions

Please contact Ed Flick and John Stroud:

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John.Stroud@oregon.gov



ADDITIONAL SLIDES RELATED TO CASCADIA RISING

- The following slides document observations and recommendations this project may support.

State of Oregon



2016 Cascadia Rising Exercise

Catastrophic Earthquake & Tsunami Scenario

June 7 – 10, 2016

Statewide After-Action Report

OBSERVATIONS AND RECOMMENDATIONS

Following slides identify
specific obs/recs related
to:

- Situational Assessment
- Critical Transportation

CASCADIA OBSERVATIONS – CORE CAPABILITY 4: SITUATIONAL ASSESSMENT

- Observation 4.2:

Although the exercise planning process and development of jurisdictional/agency ground truth documents helped to create evidence-based situational awareness and incident-specific solutions, it was not universally successful, nor were data collection efforts standardized for all jurisdictions/agencies.

- Recommendation:

Local, tribal and State emergency management agencies should work to develop realistic and detailed risk assessments associated with catastrophic earthquakes to establish baselines of anticipated jurisdictional impacts and response capabilities.

CASCADIA OBSERVATIONS

- Observation 4.4:

Multiple situational management tools were used at local, state and federal levels, which hindered integration of operational information.

- Recommendation:

Integration and de-confliction of disparate geo-spatial data management systems should be undertaken to improve their functionality and reliability in the future.

CASCADIA OBSERVATIONS

- Observation 4.5:

Identified priorities at the State level were not in place to address the immediate needs of severely impacted jurisdictions when insufficient situational intelligence or reduced communications exist.

- Recommendation:

The State, in concert with local and tribal jurisdictions, and specific critical infrastructure organizations should formulate event triggers which would automatically generate action on the part of State government and other response partners. This protocol would greatly reduce the time spent in attempting to gather formal impact data from locales that might not be available to contact the State ECC.

CASCADIA OBSERVATIONS – CORE CAPABILITY 5: CRITICAL TRANSPORTATION

- Observation 5.3:

Incoherent and contradictory situation reports were being circulated statewide regarding the status of critical ground transportation infrastructure.

- Recommendation:

State and local governments should develop integrated critical transportation infrastructure operational plans and protocols to reduce confusion and de-conflict damage assessment collection.

CASCADIA OBSERVATIONS

- Observation 5.4:

Contradictory situation and damage assessment reports indicated that selected major airports and aviation support facilities were operational, in spite of ground truth data to the contrary. This resulted in a significant confusion on the part of emergency managers and operational logisticians who were attempting to formulate a realistic aviation asset Common Operating Picture statewide.

- Recommendation:

Information relating to the survivability/operability of priority aviation, transportation facilities needs to be standardized and disseminated to all stakeholders to avoid conflict and to ensure that associated response plans are properly coordinated.