Web-based Tools for Public Outreach Using HTML5

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Introduction

• As we move further into the Risk MAP program, community outreach is becoming more and more critical.
Navigating a Study from Start to Finish is Challenging at best when you are familiar with the process.
Outreach to Communities is Key throughout the entire project.

Map Production Phases:

- **DISCOVERY, SCOPING and DATA ACQUISITION**: 1-8 Months
- **HYDROLOGY & HYDRAULICS**: 6-12 Months
- **FLOODPLAIN MAPPING Merging Effective & Updated Info**: 3-4 Months
- **DFIRM PRODUCTION Panel Scheme Upgrades, Digitizing**: 3-6 Months
- **PRELIMINARY FIS & DFIRM ISSUED**: 30 Days
- **POST PRELIMINARY DFIRM Review, Appeals, Adoption**: 9-12 Months

Outreach to Communities is Key throughout the entire project.
A New AMEC Tool - Flood Risk Study Outreach Website and Communication Tools

- Available to anyone with an internet connection
- Dedicated to the watershed or county being studied throughout the life of the project
How we Communicate has changed significantly in the last few years....

- Social Networking changes requires changes in how we inform citizens about flood risk.
- Sharing similar messages from differing perspectives.
- Creating a diversity of methods to reach a diversified audience with the what the changes in floodplains really mean to them.
Web-based Solution

• AMEC provides websites which are highly functional and effective
  – utilizes HTML5 and JavaScript in a web-service based architecture
  – Intuitive mapping component
  – This tool mimics reading a book on an electronic reader such as Kindle.
Website URL will be given out at all meetings starting with the Discovery Meetings on the Agenda

Available during the entire process of the study

Can be sent out with emails pre and post meetings
AMEC Flood Study Outreach

- CNMS
- Discovery
- Scoping
- Floodplains
- Prelim DFRM
- LOMC
- CSLM
- % Chance
- Mitigation Interests
- Final DFRM
- Depth of Flooding
Task Tab

Hosts Important Information
- FEMA Factsheets
- Meeting PowerPoint
- Meeting Agenda
- Meeting Minutes
The Page turning effect can be used for any RiskMAP documents.

- The site allows administrators to upload PDF documents which are then broken into individual pages by the system to allow for streaming to users.
• Flip through pages of PDFs within the site without the need to download
File Sharing

- Allow different users to view different files
- Group users into roles for easy file sharing
- Users won’t see files they don’t have access to.
File Sharing - Login

- Some files are available to the public
- Login to see restricted files.
- Easy to use Login System
- Login with ‘username’ or ‘email’
Map - Address Locator

City of Junction City, Kansas
Comprehensive Stormwater Management Master Plan

Legend
Stormwater Inventory
Outlet
Manhole
Inlet
Drainage Culvert
Access Box
Storm Sewer
Stream Line

Address: 230 W 11th St, Junction City, KS, 66441
Score: 100
Source locator:

Address: 230 W 11th St
Search

Public Information
Project Management
Regulatory Review
Inventory
Modeling
CIP & OBM
Stormwater

Project Overview.pdf

ameco
Map – Ease of Use

- Navigation and Controls are similar to Google Maps. No GIS experience required.
Map – HTML5 / Cross platform

• Use of HTML5 allows for a cross platform solution that does not require any browser plugins

• Esri’s JavaScript API
Mobile

- Use of HTML5 allows for compatibility with mobile devices. Currently tweaking and testing for iOS and Android.
Map – Basemaps

• Bing StreetMaps and esri Aerials
Usability

• Focus on function and usability has led to very positive feedback and adoption by users.

• With the rise of Google Maps, Bing and other mapping services, users are becoming more comfortable with online mapping solutions.

• Online maps are more accessible to users than ever and are a great way to communicate status of projects with a geographic component.
Simple Piechart Shows Status of Project Tasks
### Percent Complete

<table>
<thead>
<tr>
<th>Activity</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Discovery Percent Complete</td>
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<tr>
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<tr>
<td>LOMC Revalidation Percent Complete</td>
<td>33</td>
</tr>
</tbody>
</table>

### Dates

- **FSR Meeting Deadline:** 1/11/2012  
  - Is FSR Meeting Deadline Projected: [ ]
- **Preliminary:** 3/24/2012  
  - Is Preliminary Projected: [ ]
- **CCO:** 4/21/2012  
  - Is CCO Projected: [ ]
- **Appeals Start Date:** 5/21/2012  
  - Is Appeals Start Date Projected: [ ]
- **Appeals End Date:** 8/20/2012  
  - Is Appeals End Date Projected: ✓
- **LFD:** 9/21/2012  
  - Is LFD Date Projected: ✓
- **Effective Date:** 3/21/2013  
  - Is Effective Date Projected: ✓
Discovery Data
Scoping Data
CSLF – Changes Since Last FIRM
Legend indicates Previous and New Zones
LOMCs
Preliminary or Final Data
Depth of Flooding

Legend

Depth

Depth

0 - 1
1 - 2
2 - 3
3 - 4
4 - 5
5 - 6
6 - 7
7 - 8
8 - 9
9 - 10
10 - 11

AMEC Flood Study Outreach

Discovery
Scoping
Survey
UDIR
Hydrology
Hydraulics
Floodplains
Preliminary Deliverables

Depth of Flooding

net/netgangmeeting_march2012.pdf
Discovery Meeting_Powerpoint.pdf
Discovery Briefing.ppt

Detailed County Discovery, sign, sheets.pdf
practice_exam_discovery_minutes.pdf

PSR Meeting:
3/11/2012
Preliminary Issuance:
4/27/2012
CCOS Meeting:
5/24/2012
App
Effective Date:
10/21/2012

Resilience
Revalidation of LOHC
Depth of Flooding
To download the Discovery Meeting PowerPoint, click the link and choose Open.
View the Data
Or Save the Data
Download to your desktop
Milestone Dates

- Shows past milestone dates
- Shows proposed or future dates
- Easily changed to match the real time workflow

<table>
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<th>Event Type</th>
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<td>CCO Meeting</td>
<td>5/24/2012</td>
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<td>Appeal Start Date</td>
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<td>Appeal End Date</td>
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<td>LFD Date</td>
<td>10/21/2012*</td>
</tr>
<tr>
<td>Effective Date</td>
<td>3/21/2013*</td>
</tr>
</tbody>
</table>

* Denotes date is projected.
Closing

- These new tools make a powerful outreach combination that maximizes saturation of the flood hazard risk message for a study area.
Questions?