Tracking Violation Remediation Geospatially

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Introductions

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Senior NFIP Specialist
FEMA Region V
- 10 years floodplain management with FEMA
- 2 years Map Mod with Illinois DNR

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STARR II Project Manager
Stantec
- 12 years floodplain mapping experience
Agenda

1. NFIP responsibilities
2. Problem Identification
3. Solution and benefits of the Geospatial Dashboard
4. Demo
Three Responsibilities

STATE
- State Program Oversight
- Development Standards
- Technical Assistance
- Evaluate/Document FPM Activities

FEDERAL
- National Program Oversight
- Risk Identification
- Development Standards
- Insurance

LOCAL
- Adopt/Enforce Regulations
- Issue/Deny Permits
- Inspect and Document Development

NFIP
What is a Violation?

Failure of a structure or other development to be fully compliant with a community’s floodplain management regulations. A structure or other development without an elevation certificate or other certifications that are required in 44 CFR § 60.3(b)(5), (c)(4), (c)(10), (d)(e), (e)(2), (e)(4), or (e)(5) is presumed to be in violation until the required documentation is provided.
How is FEMA informed of violations?

- Monitoring of Communities through Community Assistance Visits and Contacts
- Mapping: Letters of Map Amendment/Revision
- Insurance: Submit for Rate (minus rated policies)
- Community/resident inquiry
- CRS Cycle Visit
Complexity of Remediation

- Communities are required to remedy violations to the “maximum extent possible”
- Depending on the situation remediation can take months to years to complete
  - Update ordinance/administrative procedures
  - Conduct H&H analyses
  - Retrofit structures (elevate, openings, relocate, etc.)
  - Remove floodway obstruction
  - Relocate manufactured homes
- If enforcement action is required, FEMA must have detailed, accurate, and comprehensive information
  - Documentation of enforcement activities parallels and follows up on the documentation required under CAVs and CACs
Documentation is VITAL

Documentation is essential to ensure that possible enforcement action is legally defensible.

The FEMA Regional Office record must show clear and convincing evidence that compliance problems were identified and corrective actions were described. The record must also show that communities understood the problems and the need for corrective action to remain in compliance with the NFIP.
## Evolution of Tracking (Good)

<table>
<thead>
<tr>
<th>ID</th>
<th>State</th>
<th>County</th>
<th>Community</th>
<th>CIS Number</th>
<th>Violation Source</th>
<th>Case Number</th>
<th>LOMC: Parcels Available</th>
<th>LOMC: Year</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Flowsheeting Source</th>
<th>Resolution Date</th>
<th>Resolution Notes</th>
<th>File Residence</th>
<th>Notes</th>
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<tbody>
<tr>
<td>105</td>
<td>Minnesota</td>
<td>Scott County</td>
<td>Jordan, City of</td>
<td>278430</td>
<td>LOMC</td>
<td>Low Floor below BFE</td>
<td>2205-001</td>
<td>10-05-2018</td>
<td>LOMC</td>
<td>44.8377</td>
<td>-93.6362</td>
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<td>State notified 10/28/2018</td>
<td>Remediated to full compliance</td>
<td>3/30/2018</td>
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<td>-93.5034</td>
<td>Crow River</td>
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<td>RESOLVED</td>
<td>2008</td>
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<td>10-05-2018</td>
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<td>CBR of Linneman and Blue Earth Rivers</td>
<td>Devine 12/19/2012</td>
<td>Remediated to full compliance</td>
<td>3/30/2018</td>
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<td>Clear Lake</td>
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<td>-96.5174</td>
<td>Various</td>
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<td>RESOLVED</td>
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Evolution of Tracking (Better)
Evolution of Tracking (Best)
FEMA’s GeoPlatform
(ArcGIS Online)
## Benefits of the Geospatial Dashboard

<table>
<thead>
<tr>
<th>Benefit</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-user editing</td>
<td>✓</td>
</tr>
<tr>
<td>Real-time reporting and updates</td>
<td>✓</td>
</tr>
<tr>
<td>Dashboard analytics and reminders</td>
<td>✓</td>
</tr>
<tr>
<td>Supports mobile devices &amp; connects to apps/services</td>
<td>✓</td>
</tr>
<tr>
<td>File retention and backup</td>
<td>✓</td>
</tr>
<tr>
<td>Custom user interface per user</td>
<td>✓</td>
</tr>
</tbody>
</table>
Application Demo of the Region 5 Violations Tracker
Questions

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