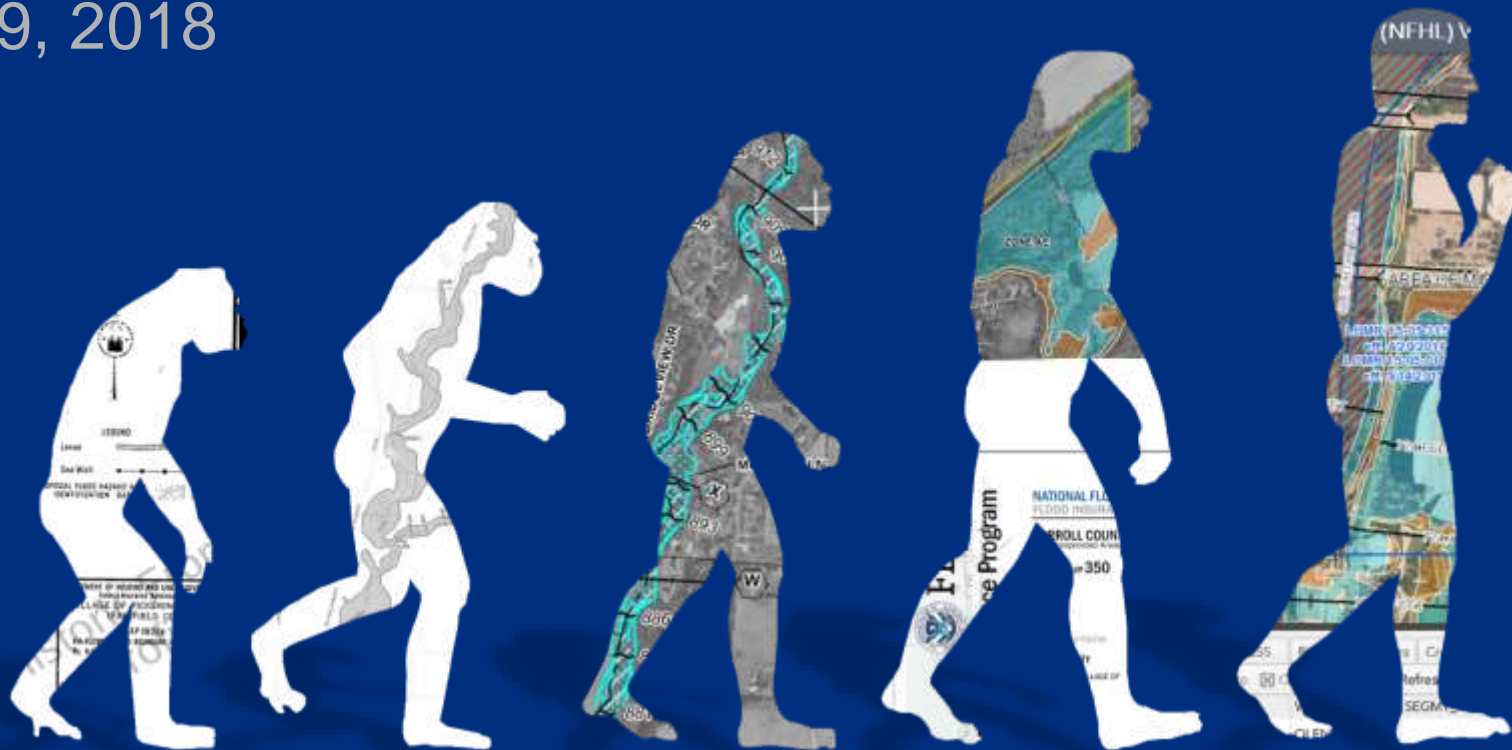


Tracking Violation Remediation Geospatially

June 19, 2018



FEMA

Introductions

**Julia McCarthy, CFM,
MA**

Senior NFIP Specialist
FEMA Region V

- *10 years floodplain management with FEMA*
- *2 years Map Mod with Illinois DNR*

**Bradford Hartley, GISP,
CFM**

STARR II Project Manger
Stantec

- *12 years floodplain mapping experience*

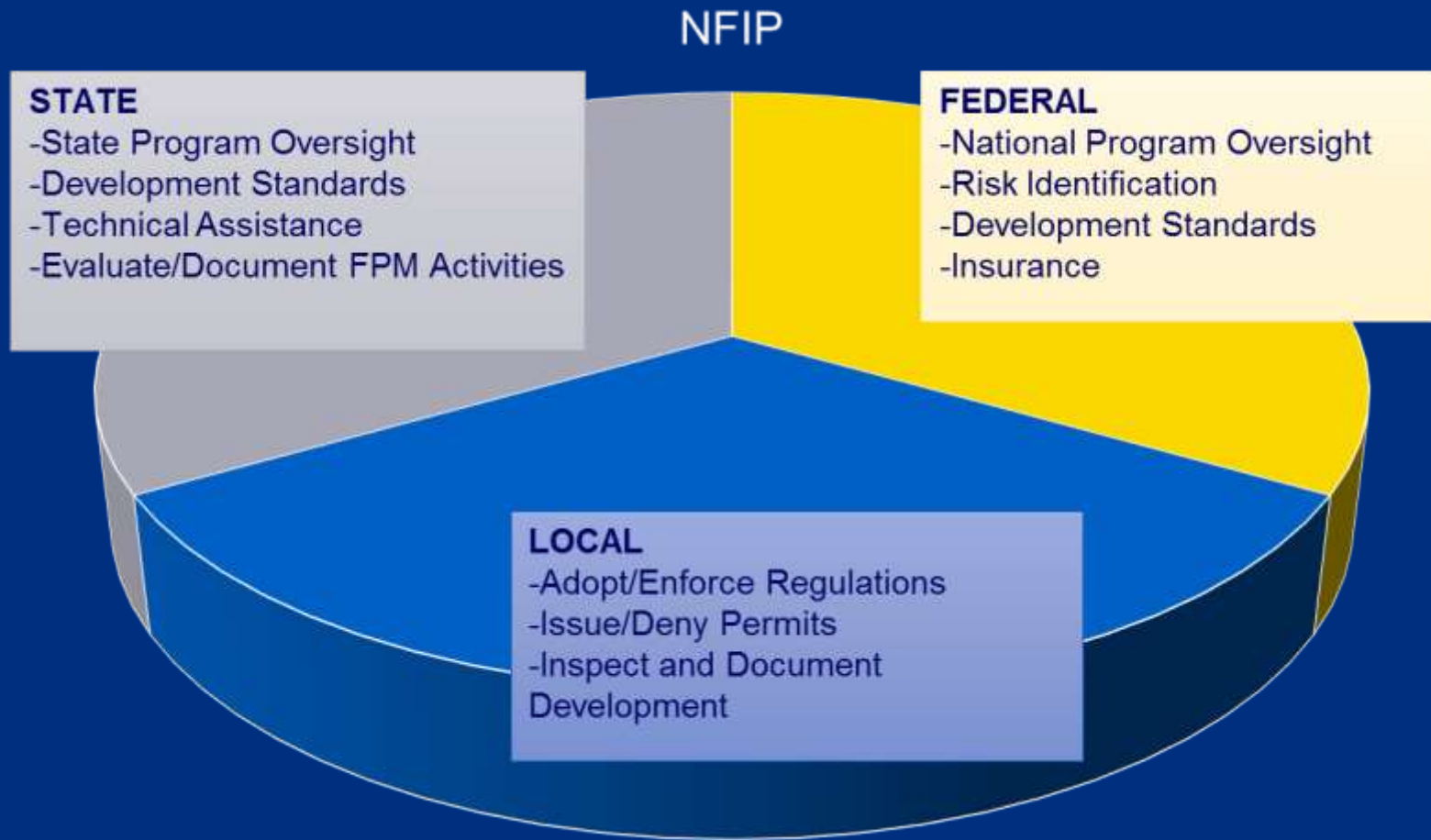


Agenda

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



Three Responsibilities



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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



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Documentation for Enforcement

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.



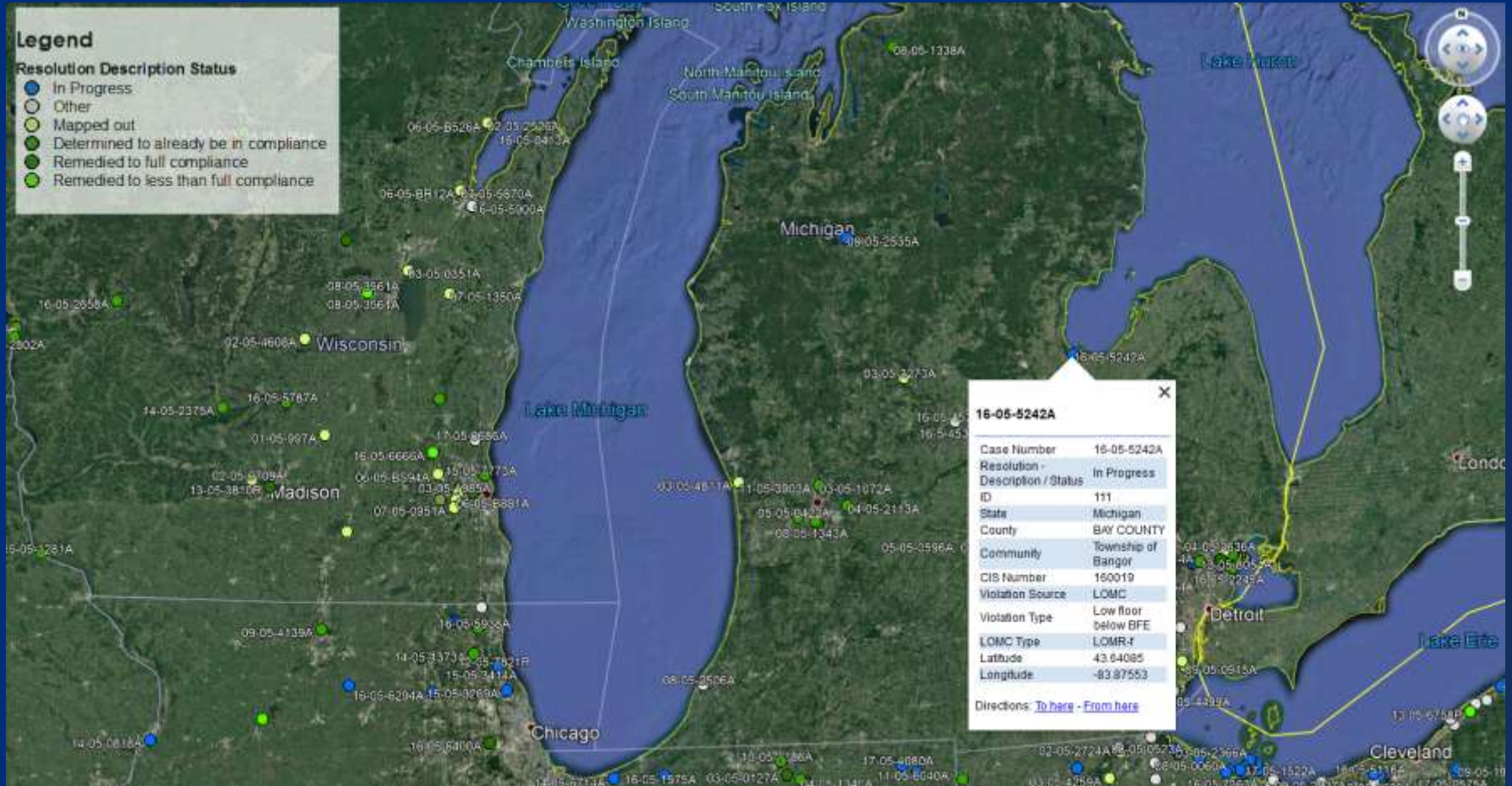
Evolution of Tracking (Good)

ID	State	County	Community	OS Number	Violation Source	Violation Type	Case Number	LOMR C Type	LOMR Initials Available	Latitude	Longitude	Datum Available	Horizontal Datum	Flooding Source	Contact Date (first available)	Action Taken (initials, date and action)	Violation Description	Resolution - Description in Full Status	Resolution Date	Resolution - Notes	File Resides	Notes
87	Minnesota	SCOTT COUNTY	Jordan, City of	270430	LOMIC	Low floor below BFE	15-05-6405A	LOMR-F		44.6987	-93.6302			Sand Creek		State notified FIDP?	Possible low floor	Remediated to full compliance	3/20/16	The LOMR is not signed off on the LOMR-F, but houses is RESOLVED	Community File	This structure will qualify for a LOMR when major change.
82	Minnesota	CLUMSTED COUNTY	Clumsted County	270626	LOMIC	FW encroachment	12-05-1229A	LOMR-F	Yes	44.0240	-92.5160	Yes	NAD83	Cascade Creek	Devine 3/6/2012	Devine contacted. Additional LOMR applied for.		Remediated to full compliance	3/26/2013	The community determined the contractor failed to get a LOMR for a small amount of fill in the roadway. LOMR 13-05-0429F		The community made a mistake by not requiring LOMR, several other LOMRs for this project were secured appropriately.
93	Minnesota	HEMLOCK COUNTY	Hasson Township	270679	LOMIC	FW encroachment	03-05-1703A		Yes	45.2389	-93.5354			Crow River				Remediated to full compliance	RESOLVED Mapped out 2004		Community dissolved, now part of the City of Rogers? Mapped Out? Been getting a PRR since 2008? adjacent property has LOMR that says "incidentally located in flood hazard area".	
96	Minnesota	BLUE EARTH COUNTY	Blue Earth County of	275231	Community	FW encroachment			Yes	44.1251	-94.0530	Yes		Coff of Levee and Blue Earth Rivers	Devine 12/16/2012	Devine contacted, Warning of Probation Letter 10/1/2013	Buildings in FW	Remediated to full compliance	1/15/2014	RESOLVED 3 buildings moved out and 2 structures stayed after showing no issue.	Community File	3 structures without permits on a neighbors property and in the FW.
97	Minnesota	CLAY COUNTY	Clay County	275235	Citizen	Low floor below BFE			No	46.8907	-96.5075				Devine 9/29/14	Letter sent 5/2/2016	Various low floor	Remediated to full compliance	10/20/2016	Additional made flood resistant vents, crawl vented as well!	Community File	2 congressional, from 2 separate owners, old mistakes by County and owner building without permits caused issues.
99	Minnesota	ANDRA COUNTY	Ramsey, City of	279681	LOMIC	FW encroachment	03-05-3736A	LOMR-F	Yes	45.2952	-93.5066	Yes	NAD83	Trot Brook				Remediated to full compliance	1/1/2015	RESOLVED LOMR 2009		Clean CAC #2314
															LOMR sent to county for follow-up 7/9/15 JMF - No contact by DMR as of 10/15							



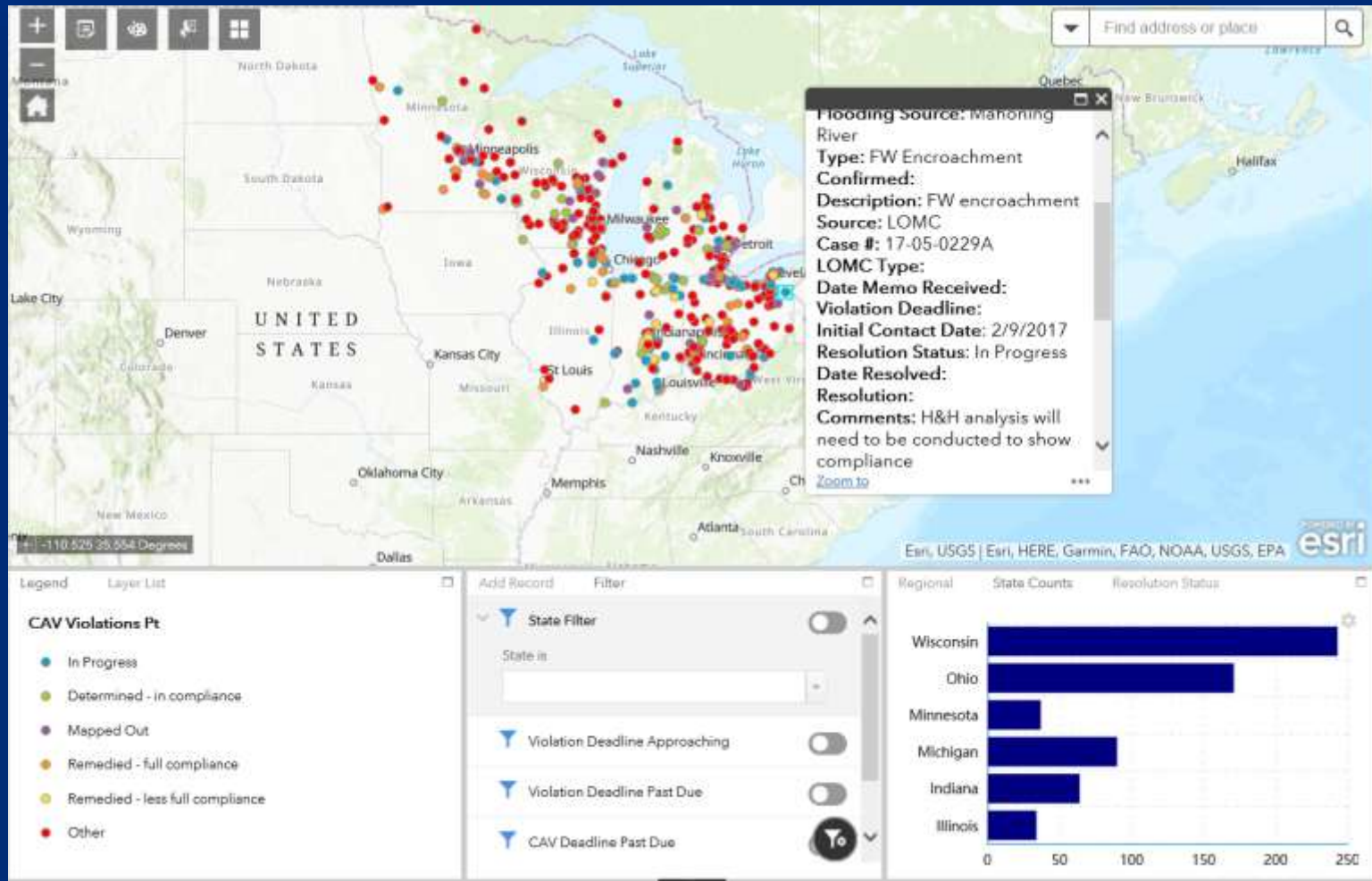
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Evolution of Tracking (Better)



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Evolution of Tracking (Best)



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FEMA's GeoPlatform

(ArcGIS Online)

The screenshot shows the FEMA GeoPlatform website interface. At the top, there is a navigation menu with links for Home, Gallery, Map, Scene, Groups, Content, and Organization. To the right of the menu is a user profile for 'Bradford' and a search bar. Below the navigation is a large blue banner with the text 'FEMA GeoPlatform' and the tagline 'Providing geospatial data and analytics in support of emergency management'. Above the banner, there is a red warning message: 'SENSITIVE PERSONALITY IDENTIFYING INFORMATION NOT ALLOWED (what's this?)' and a link to 'Visit: FEMA.gov'. Below the banner is a carousel of four images with labels: 'Hurricanes and Typhoons', 'Flooding', 'Earthquakes', and 'Tornadoes'. At the bottom of the page, there is a footer with links to Esri.com, ArcGIS Marketplace, Help, Terms of Use, Privacy, Contact Esri, Report Abuse, and Contact Us.



Benefits of the Geospatial Dashboard

Benefit	Advantage	
	Spreadsheet/ Google Earth	Violations Dashboard
Multi-user editing		✓
Real-time reporting and updates		✓
Dashboard analytics and reminders		✓
Supports mobile devices & connects to apps/services		✓
File retention and backup		✓
Custom user interface per user		✓

Application Demo of the Region 5 Violations Tracker



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Questions

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STARR II Strategic Alliance for
Risk Reduction

