

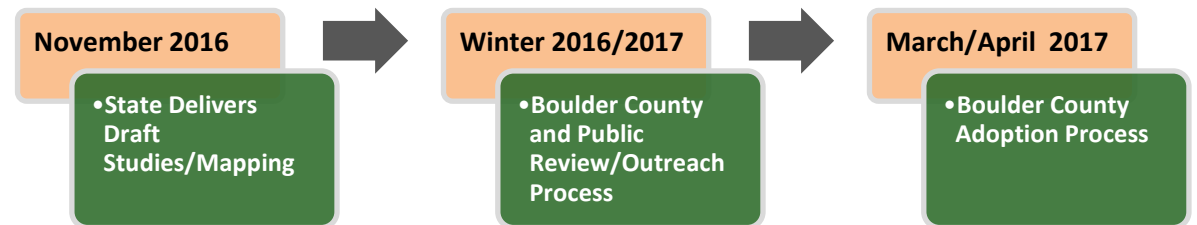
Study Session in preparation for Floodplain Remapping Adoption Process

Planning Commission

January 18, 2016

Purpose

Inform and get feedback from Planning Commission before the anticipated public hearings in March/April on:
Zoning map amendments to the floodplain overlay district based on the floodplain remapping of the Colorado Hazard Mapping Project (“CHAMP”)



September 2013 Flood

Changed Physical Floodplains

- Hazards changed
- Rebuilding relies on floodplain maps
- Floodplain map delineations not as accurate as needed



September 2013 Flood

Flood Recovery and Rebuilding

ON REBUILDING...

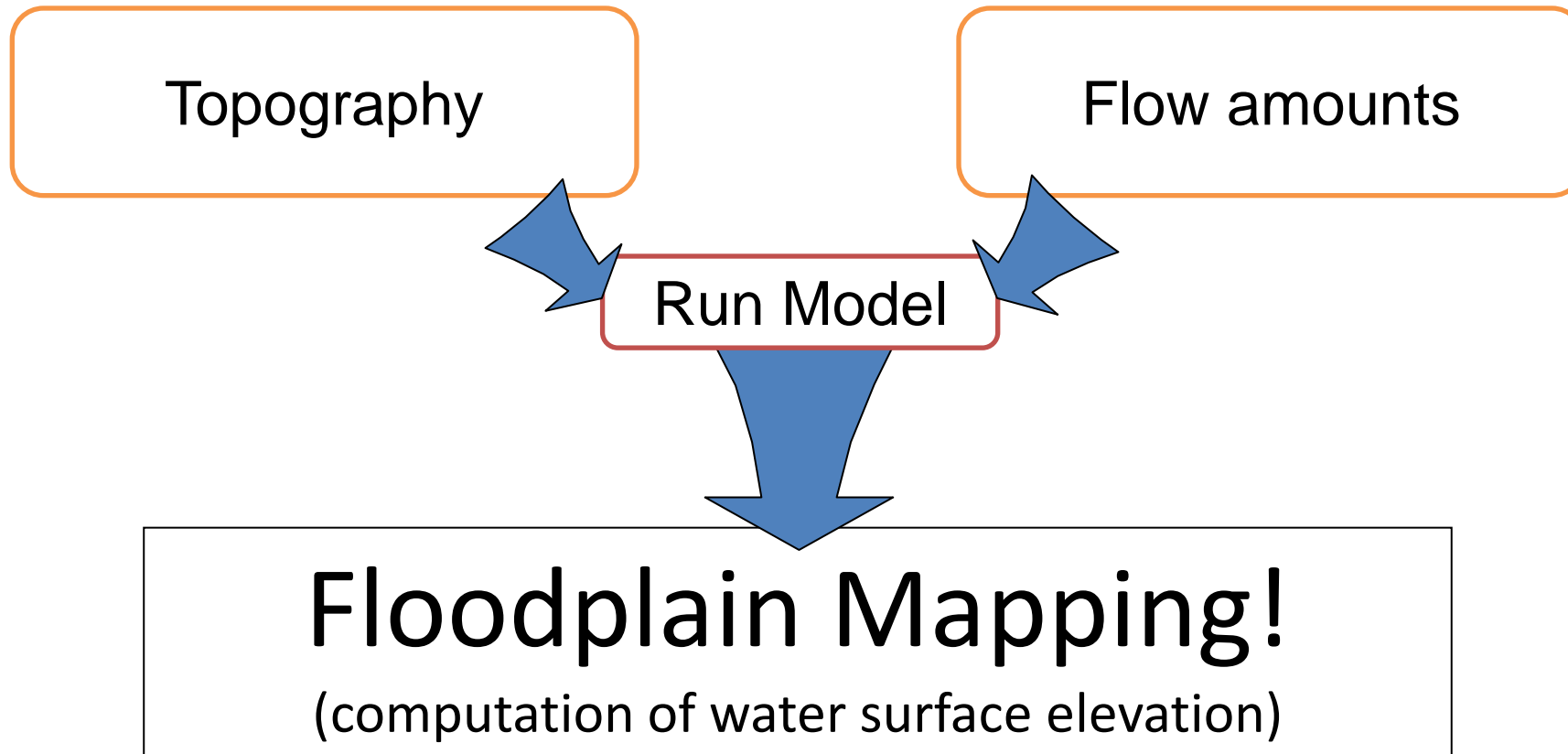
Q: Is my project in a regulated floodplain area?

A: Use predictive floodplain mapping to determine.



But the real-world floodplain has changed since the flood.....Is there better data? How does better data get used?

How are floodplain maps created?



September 2013 Flood Flood Recovery and Rebuilding

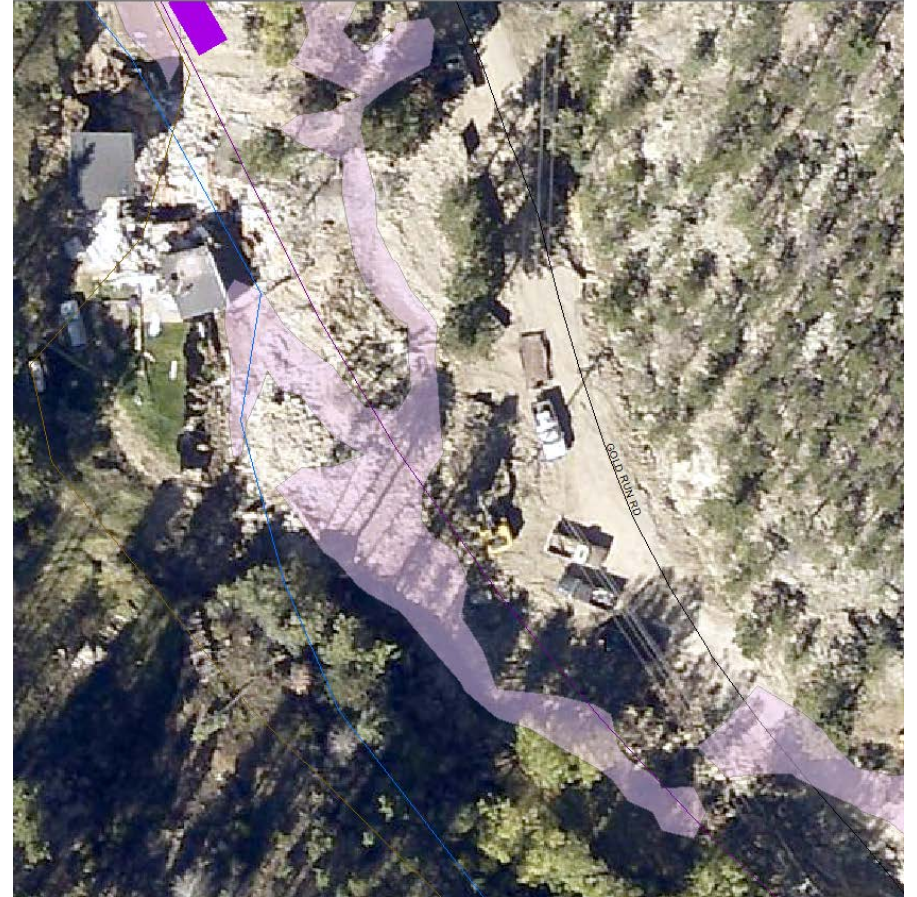
FEMA National Flood Insurance
Program (NFIP) requires:

1. Floodplain maps of predicted extent of 100-year floodplain – to predict hazards and determine flood zones
2. Local floodplain regulations
3. Local floodplain permitting



Interim Floodplain Mapping

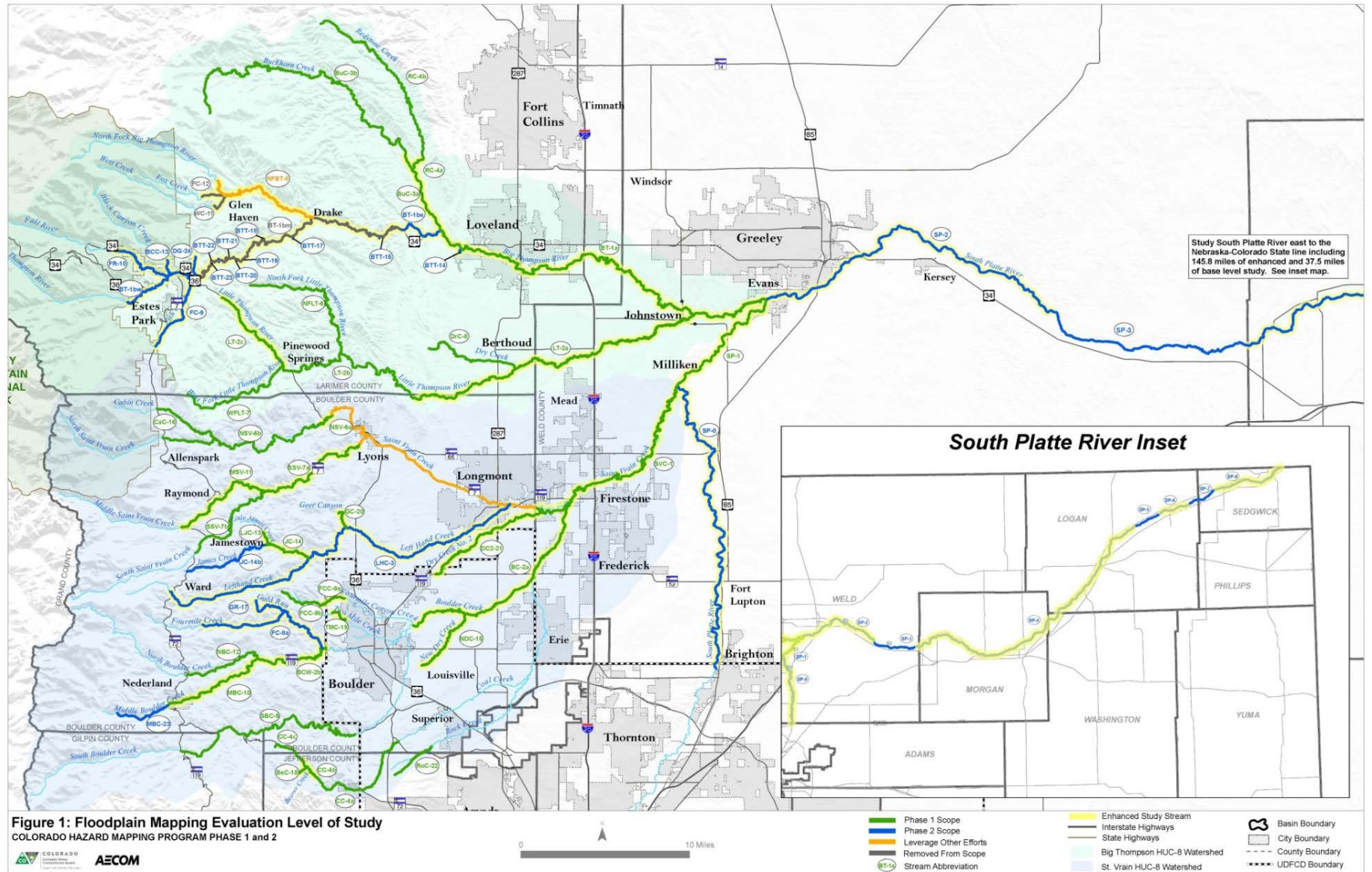
- **Immediately post-flood** – Colorado Water Conservation Board (CWCB) recognized need for revised floodplain mapping
- **Summer 2014** – CWCB delivered interim floodplain mapping based on post flood LIDAR and automated mapping
- **Fall 2014** – Boulder County staff finished review of interim mapping and determined it was not usable as regulatory



'CHAMP' Floodplain Mapping

- **Winter 2014/2015** – County staff advocates with CWCB and the State legislature to fund studies to create floodplain maps at the necessary detail level.
- **Summer 2015** – State legislature funds Senate Bill 15-245 (CHAMP); 3 year program to develop new flood hazard analyses and delineation for 470 miles of flood impacted streams. Over 200 miles in Boulder County.
- **Winter 2015/2016** – CWCB/ FEMA kick-off CHAMP studies

CHAMP Study Reaches



‘Boulder County Floodplain’ (DC-15-0004)

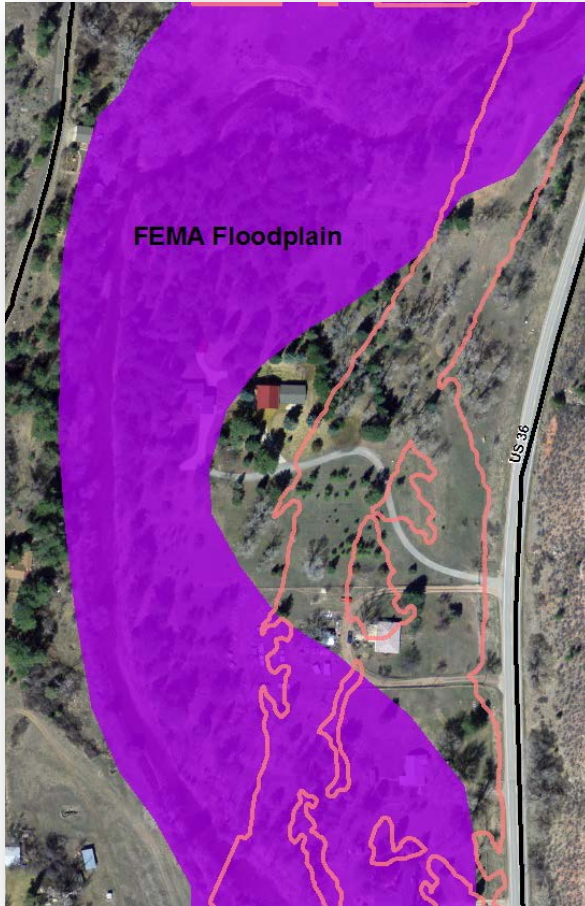
September 2016 – Land Use Code floodplain regulations (4-400) amended to include a regulatory ‘Boulder County Floodplain’ to allow inclusion of Best Available Data in regulatory floodplain overlay district:

- In anticipation of delivery of CHAMP mapping and future Best Available Data,
- Desire to use that Best Available Data to support ***hazard identification and resilient planning***, and
- Have Best Available Data use occur in a manner that is transparent to residents.

Flood insurance rate changes not affected by local floodplain map adoption.

Boulder County Floodplain allows users to see other data used by Boulder County to administer Land Use Code requirements

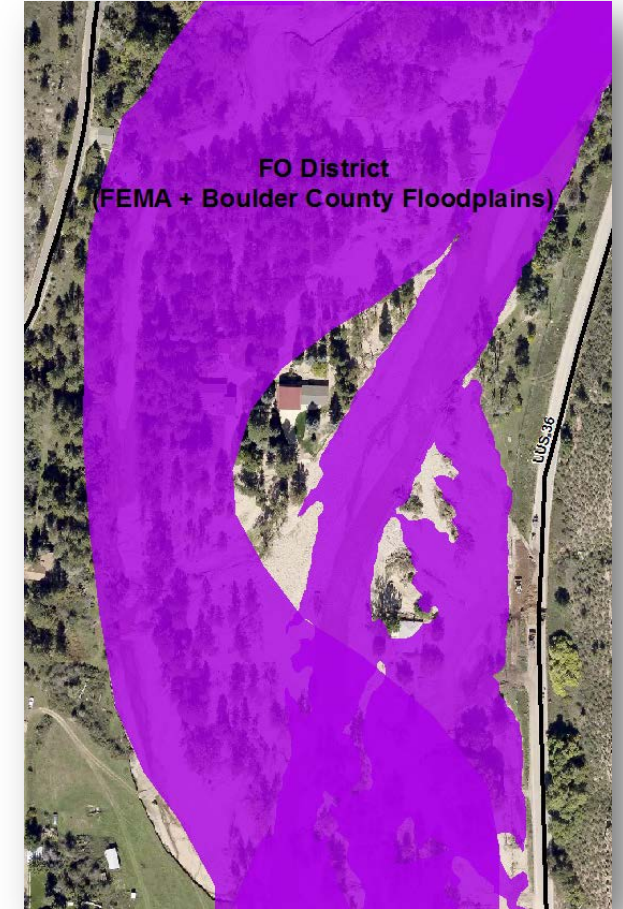
FEMA Floodplain



**Boulder County
Floodplain**



Floodplain
Overlay District



BOCC authorization of Z-17-0001/ DC 17-0001

- Staff authorized to undertake an analysis of possible amendments to the Boulder County Zoning Map and associated text amendments to the floodplain regulations in Article 4-400 of the Land Use Code to:
 - Adopt CHAMP maps and other best available floodplain data as Boulder County Floodplain within the Floodplain Overlay District
 - Explore additional updates and amendments to Article 4-400 and other related provisions of the Code as may be identified to best protect health, safety, and welfare

Roles and Responsibilities

Federal Role (FEMA)

- Flood risk mapping
- Flood risk management
- Flood insurance

State Role (CWCB)

- Community assistance
- Flood risk mapping

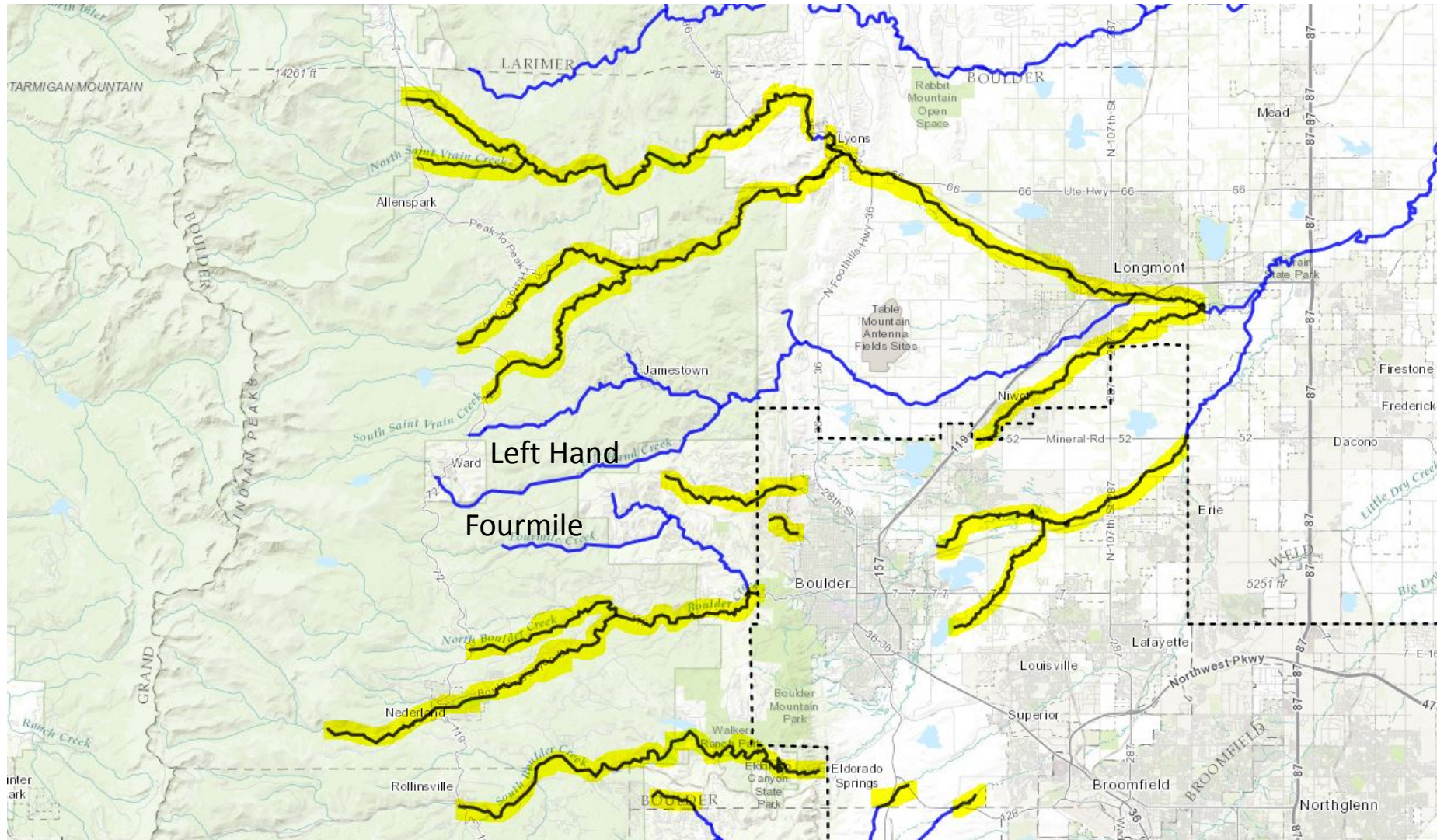
Local Role (Boulder County)

- Flood risk mapping participation
- Adoption of flood risk mapping and code



***Ultimate Goal:
Protect Life, Health, & Safety***

Phase I Technical & Public Review



Technical Review

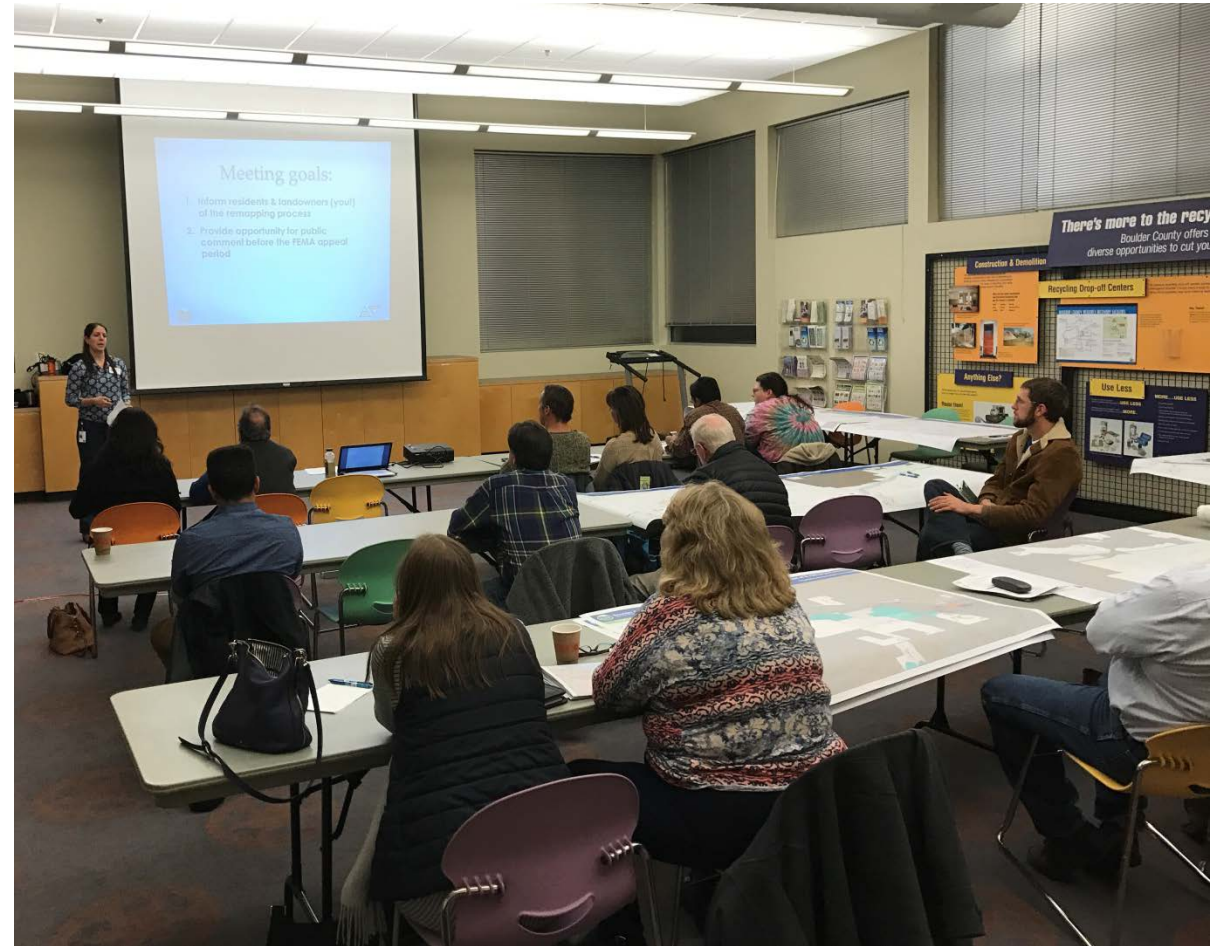
- Feedback from Boulder County staff and engineering consultants to CWCB earlier in the floodplain mapping process than usually occurs
- **Technical review/ feedback example:** Boulder County review of hydrology has resulted in CWCB agreement to revise 100-year discharge for several reaches to a lower, better scientifically supported value than originally proposed

Public Outreach


- Residents are reviewing draft floodplain maps prior to FEMA creating preliminary Flood Insurance Rate Maps (FIRMs):
 - All resident comments are being transmitted to CWCB/ FEMA.
 - Residents are contributing to staff technical review comments (**Example**: resident noticed LIDAR bust).
 - CHAMP mapping is being augmented and informed by on-the-ground knowledge (**Example**: resident provided survey data).
 - Residents will be prepared for later formal appeal period.

Public Outreach






- Six community meetings scheduled (two have occurred)
- Meetings being noticed with postcards, news release, listserv notifications




Public Outreach


Boulder County
 Colorado

Flood Recovery | Home | Contact | Departments | Government | Elections | Jobs & Volunteer



Families & Adults | Open Space & Recreation | Property & Land | **Roads & Transportation** | Environment | Safety & Law | Licenses, Permits & Records

Roads & Transportation

- Bikes, Transit & Mobility
- Closures & Construction
- Maps & GIS
- Permits & Requests
- Plans & Projects**
 - Capital Improvement Program
 - Current Project Bid Information
 - Improvement Districts
 - Mountain Transit Study
 - Multi-Modal Transportation Standards
 - Regional Trail Program
 - Subdivision Paving
 - Transportation Master Plan
- Roads & Driveways

Floodplain Remapping Project

VIEW MAPS & PROVIDE FEEDBACK

Use the links below to view the draft maps and to provide input or ask questions:

- [View the Draft Maps](#) - You can comment directly from the map site by using the "Comment" button located below the "Find address or place" search field
- [Online Comment Form](#) - Submitted forms are sent directly to the county project team
- [Attend a public meeting](#) to review draft maps

NEW INFORMATION

- [Public Meetings scheduled for January 2017](#)
- [Project Newsletter - Issue #3 - Fall 2016](#) (1 MB) - Added Dec. 6, 2016
- [Dec. 13, 2016 Public Meeting to Review Mapping for St. Vrain Creek reaches in unincorporated Boulder County](#)
- [Project Newsletter - Issue #2 - July 2016](#)

BACKGROUND

The 2013 flood event caused widespread damage and changes along waterways throughout the county and other areas of the state. In response, the State of Colorado is taking steps towards bolstering long-term planning and resiliency efforts by funding the Colorado Hazard Mapping Program (CHAMP) that will update local hazard information including regulatory floodplain maps for the most affected waterways.

Floodplain Mapping Links

- General Floodplain Info
- Colorado Hazard Mapping Program (CHAMP)
- National Flood Insurance Program
- Code Amendments
- Staying Informed
- Frequently Asked Questions (FAQs)

More information
[www.colorado.gov/transportation](#)
[www.bouldercounty.gov](#)

Land Use Regulation

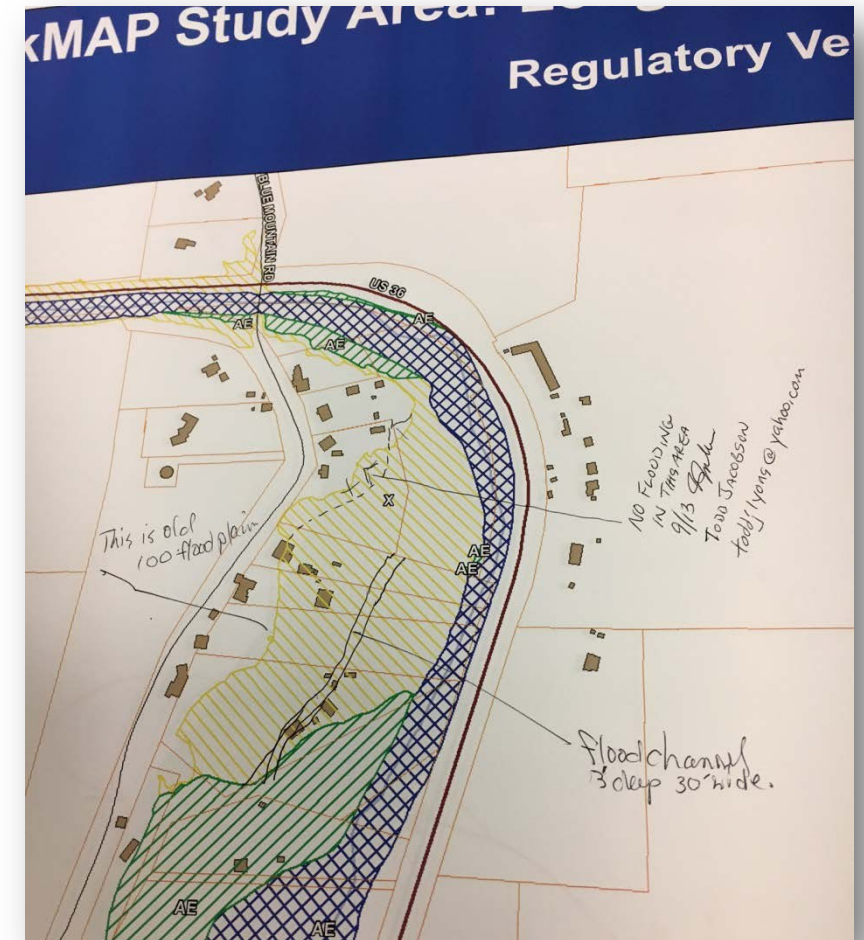
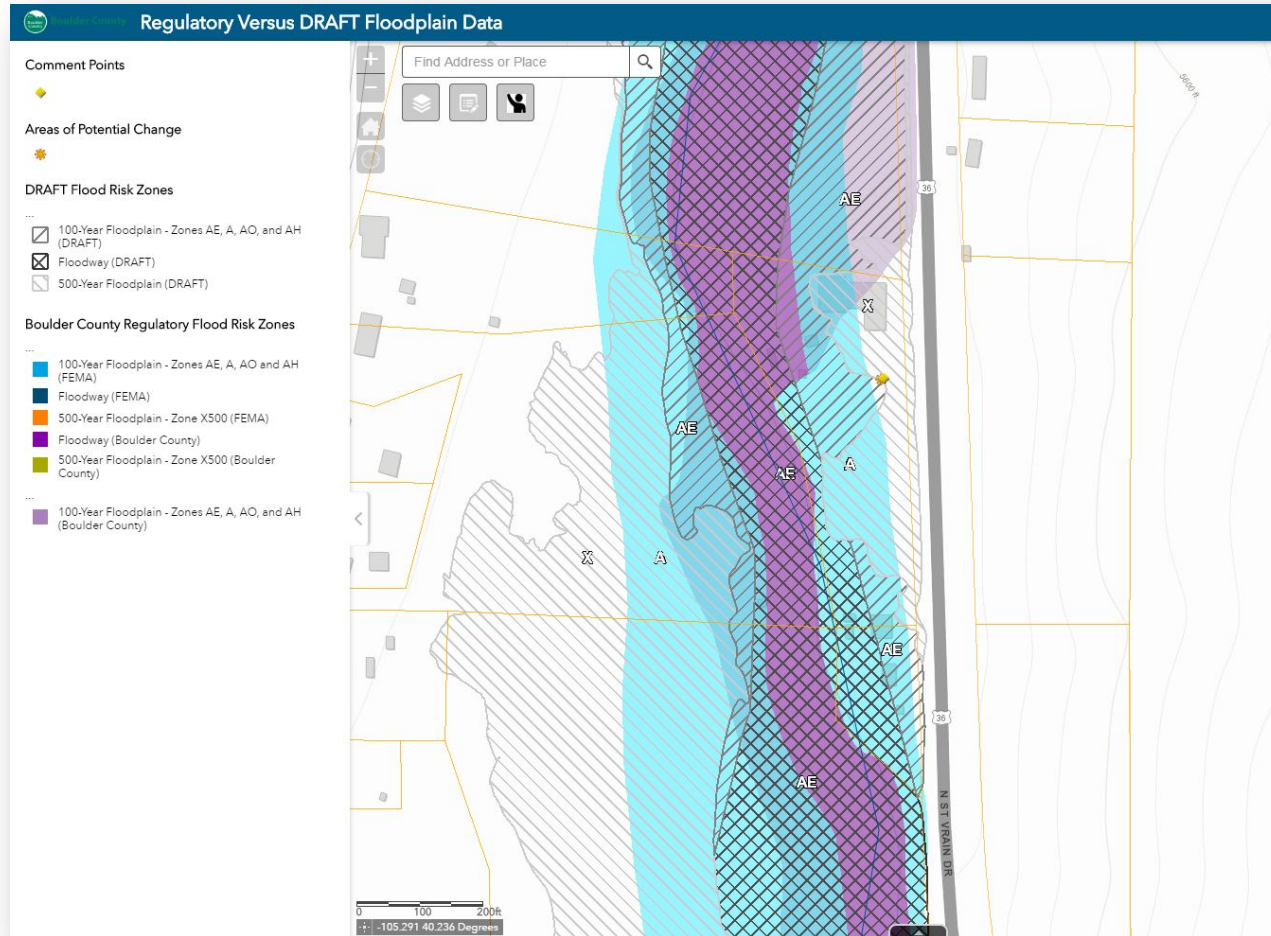
Proposed updates to the Planning Commission will be heard by the Planning Commission before the Planning Commission to provide an opportunity for public comment on proposed changes. Ask questions at the public meeting.

[www.bouldercounty.gov/planning](#)



www.bocofloodplainremapping.com

Draft Map Review & Comparison



Additional Public Outreach Activities

- Prior to the March/April hearing:
 - Four additional community meetings will be held including one meeting addressing all of CHAMP Phase I areas.
 - Links to tape of this study session will be posted on the County CHAMP remapping information website.
 - An additional floodplain remapping newsletter will be sent out to listservs (approximately 1,600 unique addresses) , and emailed out to Watershed Coordinators to distribute.
 - A second postcard notification will be sent to property owners adjacent to the CHAMP Phase I floodplain.

Public Notice

- Prior to the March/April hearing:
 - A draft of any proposed changes to the Boulder County floodplain overlay district will be sent to applicable County referral agencies
 - Notice of the hearing will be placed in the newspapers, sent out via listservs including the Boulder County Land Use Code, Flood Recovery, and Floodplain Remapping ListSrvs (approximately 1,600 unique addresses) , and emailed out to Watershed Coordinators to distribute.

Next Steps

- Staff anticipates holding a public hearing at the March or April Planning Commission meeting in order for the Planning Commission to consider a staff recommendation regarding adoption of CHAMP Phase I data on to the Boulder County Floodplain:
 - Staff will continue technical review, conduct additional public outreach activities, and collect public feedback between now and then.
 - Staff will summarize public feedback in March/ April for Planning Commission.

We would like to schedule the BOCC Public Hearing soon after the Planning Commission takes action in March/ April.

Planning Commission Questions and Feedback

- What questions/ suggestions does Planning Commission have?
- What additional information would Planning Commission like to receive at the March/ April public hearing in order to make a recommendation to the BOCC, regarding adoption of the Phase I CHAMP floodplain data and associated Land Use Code text amendments?

Boulder County Floodplain Information

- Boulder County Floodplain Remapping information:
www.bocofloodplainremapping.com
- Boulder County Floodplain Management Website:
www.bouldercounty.org/property/flood/pages/default.aspx

We would like input from the public:

Email: floodplainmapscomment@bouldercounty.org

Call: Erin Cooper 720-564-2866