

# 2015 FRA Rail Program Delivery



## Town of Windsor Before &

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# Great Western Freight TIGER Grant

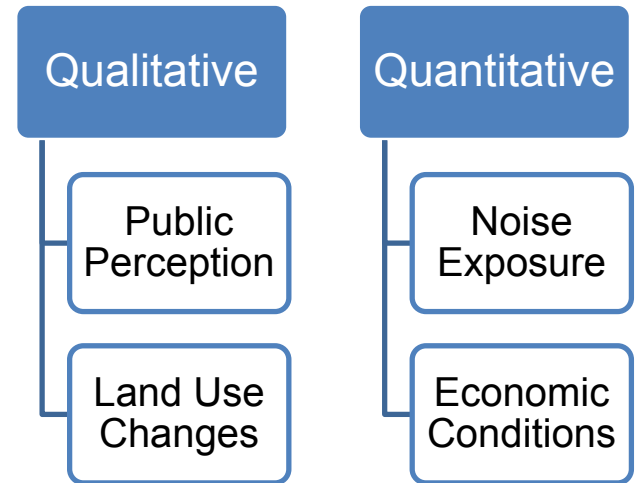
- ❑ **Grantee:** Town of Windsor, CO
- ❑ **Grant Scope:** Add safety measures to 13 public grade crossings in Town of Windsor, CO
- ❑ **Funding:** \$3,335,185 from 09/01/2014 to 02/28/2016
- ❑ **Status:** Two contracts have been awarded and crossing improvement work is expected to be complete by Summer 2016

## Monitoring Procedure 27

- ❑ **Monitoring Procedure 27:** Requirements for MTAC activities related to Before and After Studies
- ❑ **Before and After Study Scope:** Compare cost and performance
- ❑ **Benefits:** Help document the effectiveness of the grant and the widespread future impacts it may have for similar grants

# Before and After Study Town of Windsor, CO

- ❑ **Scope:** Assess quantitative and qualitative effects the safety improvements have on the Town of Windsor
  - ❑ Add entrance/exit gates
  - ❑ Add islands/medians
  - ❑ Exit gate loop detectors



- ❑ **Benefits of the Before and After Study to the Town of Windsor**
  - ❑ Highlight potential widespread benefits of safety improvements
  - ❑ Aid in determining applicability to grants to help establish other Quiet Zones

# Before and After Study Quantitative Analysis

- ❑ Sound level data collected to quantify noise exposure (August 17, 18, 19)
  - 2 crossings
  - 2 microphones at each crossing
  - 4-6 trains per observation period
  
- ❑ Use noise modeling tools to show exposure for various conditions
  - Locomotive pass-by with horn sounding
  - Locomotive pass-by at crossing with bells (no horn)
  - Locomotive pass-by at crossing without bells (no horn)



# Before and After Study Qualitative Analysis

## Operational Performance

- Traffic waiting time
- Overall safety changes
- Vehicle idling time

## Zoning and Land Use

- Real estate development
- Economic development

## Community Perception

- Noise complaint call logs
- Land uses and sensitive receptors



# Next Steps

## □ Town of Windsor

- December 2015 - Begin construction on safety improvements
- Summer 2016 - Complete safety improvements
- Summer 2016 - Apply for Quiet Zone status (49 CFR Part 222)



## □ Before and After Study

- October 2015 – Analyze acoustic data collected from the two crossings
- October 2015 – Analyze town and operational performance data
- December 2015 – Draft report of before conditions to FRA

# Thank You

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