The Southwestern Pennsylvania Commission’s (SPC) Regional Traffic Signal Program was established to assist local municipalities with improving traffic signal operations by optimizing signal timings and upgrading existing signal equipment. The City of McKeesport Signals In Coordination with Equipment Upgrades (SINC-UP) Project is a traffic signal project with the goal of optimizing signal operations at intersections along the Walnut St (SR 148) corridor while considering all users of the intersections [See map below for project area].

Traffic Signal Coordination:
- Improves safety because vehicles stop less often, which reduces the probability for rear-end crashes
- Benefits the environment by reducing vehicle emissions
- Reduces travel costs by reducing the amount of time stopped at red lights
- Saves money at the gas station by reducing fuel consumption

As part of this project, many intersections received new LED pedestrian and vehicular signal heads. A couple intersections also received new cable and signal span wiring. Global Positioning Satellite antenna and receivers were installed at the intersections to allow for time-based coordination. Coordination of traffic signal is one of the most cost effective ways of improving traffic flow along a corridor.
Travel Improvements:
The results showed that the average travel time improved by 16%. The average number of vehicular stops decreased by 45%.

Prior to this SINC-UP Project, motorists typically experienced frustration of consecutive stopping at traffic signals due to the uncoordinated signals. This retiming project coordinated the traffic patterns through these intersections which alleviated consecutive stopping and reduced the motorist’s frustration.

Summary of First Year Benefits

- Reduced Vehicle Hours of Travel: 13,329
- Reduced Total Pollutant Emissions: 17,116 gallons
- Reduced Number of Stops: 1,722 kg
- Total Benefit: $724,530
  **reduced travel time, emissions, stops & fuel consumption
- Benefit Cost Ratio: 7:1

https://www.spcregion.org/trans_ops_traff_vids3.asp