



Productivity First-Round Winner
Innovations Challenge

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Prepared by Transportation Planning
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Flagger Radio



Description

In some locations, there are problems with handheld radios not being able to communicate over the length of work zones. Even with clear line of sight, connection can be lost or spotty at best. When radios are attached to a flagger's belt, the body act as an object for the signal to travel through or around, limiting the distance of communication between flaggers to less than a mile with line of sight. When factoring in trees, hills and equipment in the work zone, some radios wouldn't be capable of reaching a half of a mile before dropping communication link. By raising the radio up to head height on the stop/slow sign, the range is increased to over three miles with clear transmission to improve reliability.

Benefit

With MoDOT work zones being located in a wide array of locations and terrain, attaching the radio to the sign will allow our workforce to remain connected, eliminating the need for a truck radio present. This also keeps flaggers hands free from holding the radio at an elevated position. In addition, placing the radio on signs reduces the weight of the radio hanging on the flagger.

Materials and Labor

3 hours of staff time with \$12 in materials.

For More Information Contact:

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Additional information, photos or videos can be seen by accessing the Innovations Challenge SharePoint page at:

<http://sharepoint/systemdelivery/TP/Documents/InnovationsChallenge.aspx>