

CITIZENS' GUIDE

To Understanding the InSync Traffic Signal System

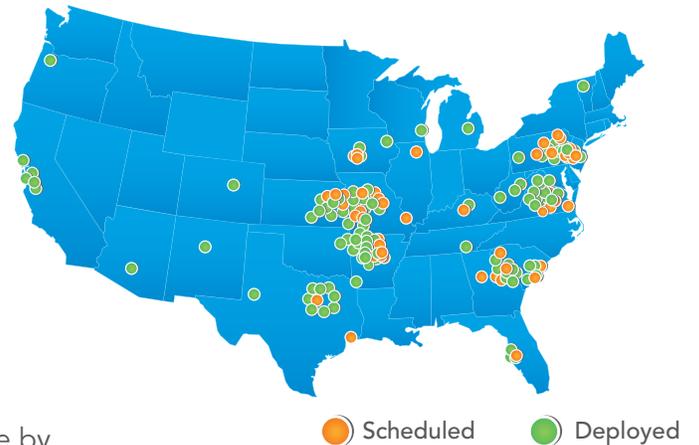
You may start noticing something different about how our community's traffic signals operate.

We have purchased InSync, a system that uses artificial intelligence to determine the best times to turn the traffic signals green. By adapting to traffic demand moment by moment instead of relying on predetermined schedules, the system increases safety, dramatically cuts down the need for stopping at intersections, reduces traffic congestion and reduces your travel time.

InSync is installed (or contracted to be installed) at more than 950 intersections in 26 states. Independent studies of InSync in cities across the U.S. have proven that it brings multiple benefits.

Most importantly, InSync saves lives. By reducing the possibility of red light running, studies have shown InSync reduces crashes by up to 30%.

The studies have also proven that InSync can reduce stops on the main streets by up to 90%, reduce travel time by up to 50%, and reduce fuel consumption and emissions by 20-30%. This adds up for you in the both the big and little things. A loved one is safer. You spend less at the pump. And you spend less time sitting in traffic.



There are two primary ways that InSync works to keep traffic moving as efficiently as possible:

The Traffic Signals Work in a New, Nontraditional Way

InSync shares the green light time around the intersection in a more intelligently. Instead of giving green lights in the order you are used to seeing, it will give green lights based on the actual number of vehicles waiting and how long they've been waiting.

Due to this, one approach may get a green light twice, and it may appear to you that you are being skipped. Rest assured, the system has not only detected your vehicle but also knows exactly how many seconds you've been waiting. InSync can see and count vehicles from the stop bar (crosswalk area) all the way to the back of the pack where cars are just beginning to approach the intersection. Every lane with vehicles will be given a green light during a period or cycle.

Occasionally, you may be stopped at a red light on a side street with no vehicles using the main street. This happens because the intersection is receiving information about approaching traffic from upstream or downstream (the left or the right). InSync may allow the main street to continue getting a green light to accommodate approaching traffic.

The Traffic Signals Synchronize to Create “Green Tunnels”

In addition to adapting to actual traffic demand at each intersection, all of the traffic signals are connected and talk to each other using a network connection. By communicating, the traffic signals are able to synchronize their green lights. The incredible results can be seen on an arterial corridor with heavy traffic as entire groups of vehicles move through a series of intersections with few or even no stops. We call this a “green tunnel.” That great day when you are lucky enough to get all or almost all green lights can happen every day. As long as you are driving within the speed limit, you will most likely be part of the green tunnel that progresses through most of the main street intersections without stopping.

After the green tunnels pass, InSync also serves green lights to the side streets that have motorists waiting. As we’ve explained, green lights are based on real demand. They take into consideration how many cars are waiting and how long they have been waiting. This revolutionary ability massively decreases the amount of time you have to wait on a side street for a green light.

Sometimes at the beginning of a series of InSync-optimized intersections, you may have to wait for the first light to turn green. This happens so that a group of vehicles can build up and the signals synchronize. Once the light turns green, you should encounter green lights the rest of the way.

This is a summary of the new ways the traffic signals are operating. We hope you will soon experience for yourself how this technology alleviates traffic congestion and helps create a better place to live and work.

Summary of Benefits

FEWER CRASHES:

Fewer accidents and improved safety. Reduces accidents by up to 30%.

GAS SAVINGS:

20-30% less fuel consumption on the corridor, saving you money at the gas pump

CLEANER AIR:

20-30% less emissions, creating better air quality

SHORTER COMMUTES:

Up to 50% shorter travel times on the corridor

FEWER STOPS:

Up to 90% fewer stops at intersections on the corridor

ECONOMIC BENEFIT:

An estimated economic benefit of \$1 million per corridor per year in time and fuel savings, plus significant cost savings over road construction projects

BETTER QUALITY OF LIFE:

Getting people to their destination faster and more safely while saving time and money are all factors that contribute to a better quality of life in our community.

