Proven Safety Solutions

LEADING PEDESTRIAN INTERVAL

What are leading pedestrian intervals (LPIs)?

LPI, sometimes called “pedestrian head start” or “delayed vehicle green”, is a simple signal timing change that gives people walking 3 to 7 seconds earlier to **begin crossing the street before cars** get a green light.

How do LPIs improve safety?

- Reduces potential conflicts between pedestrians and turning vehicles.
- Increases visibility of crossing pedestrians, especially children or people using wheelchairs, as they enter the intersection.
- Increases chance of cars yielding to pedestrians.

Low-Cost & High-Impact Solution

LPIs are a low-cost safety fix—just a quick signal timing change that makes streets safer without building anything new.

Office of POLICY PLANNING
Florida Department of Transportation

Where are LPIs appropriate?

- A lot of people walking near schools, transit or busy areas.
- High volumes of vehicles turning at crosswalks.
- History of crashes between cars and people crossing.
- Skewed intersections with poor visibility.
- Slower walkers or children.

Did you know?

LPI implementation has led to

13%

Reduction in pedestrian crashes

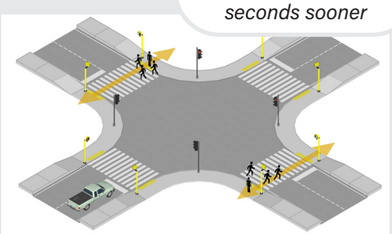
(Source: FHWA)

No LPI

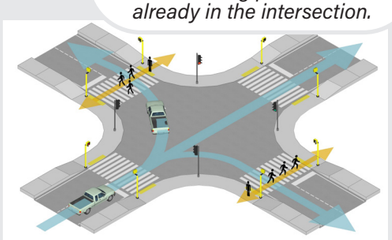
1. Pedestrians and vehicle enter the intersection at the same time and increase risk of conflict.

With LPI

2a. Pedestrians enter the crosswalk a few seconds sooner



2b. Drivers get green light later and can see and yield to crossing pedestrian already in the intersection.



Do LPIs increase **congestion?**

No!

Even potential crashes can lead to delays. Smooth pedestrian crossings offset slightly shorter green lights for drivers.

How have LPIs changed **Florida** intersections?

Tampa

- LPIs were installed at two busy intersections.
- During the LPI phase, **10% to 25% more** drivers **stopped** for people crossing.
- Overall **3 to 5% more** drivers **yielded** during the full Walk signal.

(Source: FDOT)

Miami

- LPIs were installed at two downtown intersections.
- **9-18% more** left turning drivers **stopped** for pedestrians.
- **21-31% more pedestrians started crossing** in the first 4 seconds of the Walk signal.

(Source: FDOT)

Learn more about LPIs at: https://tinyurl.com/LPISafety