

# Multi-Object Detection Technology

Enhancing safe driving with Human / Vehicle / Object detection engine

**Panasonic**  
AUTOMOTIVE



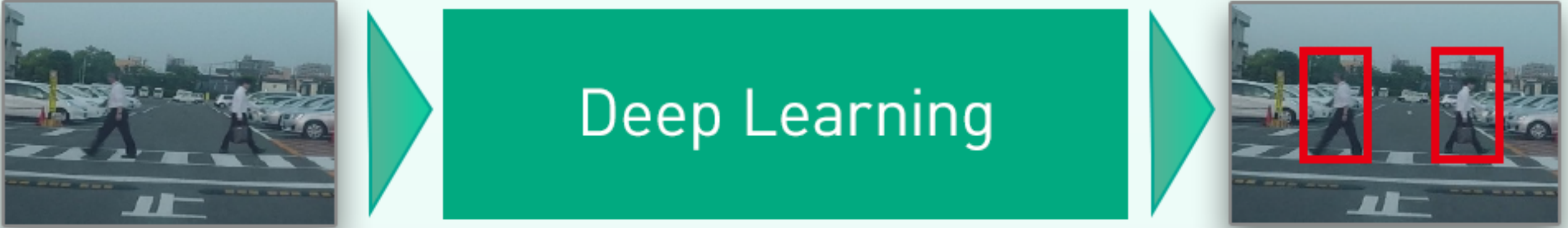
# Multi-Object Detection Technology

## Technical Advantage

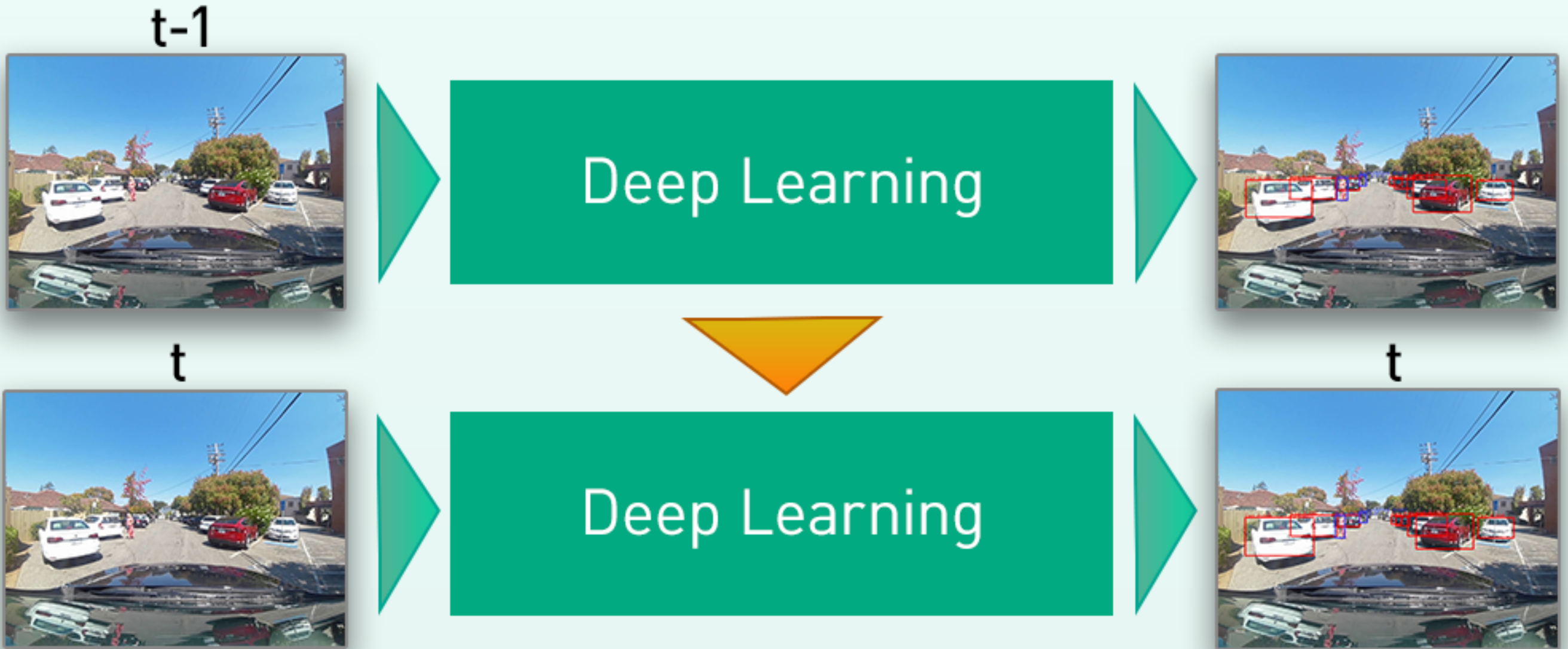
### High-Performance Multiple object Detection

#### 1. High speed and low latency

Conventional approach (single-frame (image) detection)



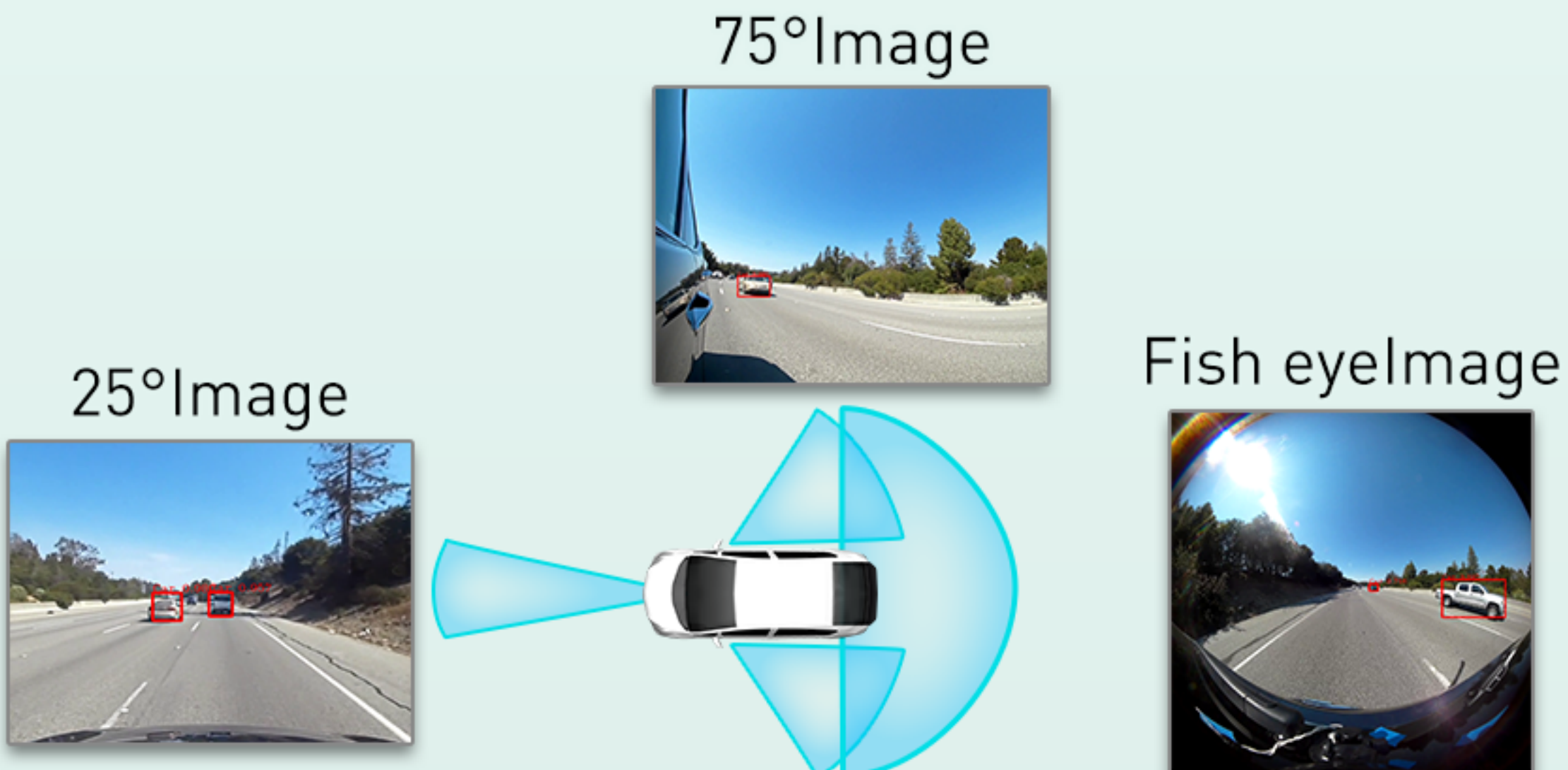
Our approach (multi-frame (video) detection)



Temporal propagation of convolutional neural network detection with no latency

#### 2. Good for any Field Of View cameras

Ability to detect on multiple camera types within our engine





# Multi-Object Detection Technology

## Future Vision

For safe and comfortable autonomous driving

- Understanding the entire surrounding environment
- Predicting vehicle and pedestrian behavior to estimate accident risk
- Providing a high performance end-to-end system for accident avoidance

