

# City of Burlington Fire Department Service Delivery Options

October 18th, 2017



WISCONSIN  
CITY OF BURLINGTON

# Welcome

- Emergency fire and medical response, the readiness of our public safety responders, and fiscal responsibility is of utmost importance to the City of Burlington Fire Department (CBFD).



# Overview of Today's Meeting

- Community Service Needs
- City of Burlington Fire Dept.
  - Services
  - Staffing & Operations
  - Budget
- Service Delivery Options



# City of Burlington Strategic Plan

## Mission Statement

The mission of the City of Burlington is to build and enhance our community by safely, respectfully, proudly and effectively executing our daily work activities. As an organization we are committed to continuous improvement.



# City of Burlington Strategic Plan

## Vision Statement

The vision of the City of Burlington is to be a location of choice and a great place to call home. We achieve our vision by offering a welcoming, safe environment and a strong sense of community. Our diverse business sector and multi-generational population provides a sound foundation for our future.



# CBFD Overview

- Combination Department with 47 Members
- Provides Fire Suppression, EMS and Fire Prevention
- One Central Station
  - 3 Engines
  - 2 Ladder Trucks
  - 2 Command Cars
  - 1 Special Utility Squad



# Current CBF D Staffing



1 Career Firefighter  
24/7/365



1 – 2 Part-Time or Intern Firefighters  
Weekdays 8A – 5P



1 Part-Time Firefighter/EMT  
Weekdays 8A – 5P



1 Career Fire Chief  
Weekdays 7A – 3P



1 Career Fire Inspector  
Weekdays 7A – 3P

## Normal Staffing Level by Day and Time

Time	Sun.	Mon.	Tue.	Wed.	Thur.	Fri.	Sat.
00:00	1	1	1	1	1	1	1
01:00	1	1	1	1	1	1	1
02:00	1	1	1	1	1	1	1
03:00	1	1	1	1	1	1	1
04:00	1	1	1	1	1	1	1
05:00	1	1	1	1	1	1	1
06:00	1	1	1	1	1	1	1
07:00	1	1	1	1	1	1	1
08:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
09:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
10:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
11:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
12:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
13:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
14:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
15:00	1	4 - 6	4 - 6	4 - 6	4 - 6	4 - 6	1
16:00	1	2-4	2-4	2-4	2-4	2-4	1
17:00	1	2-4	2-4	2-4	2-4	2-4	1
18:00	1	1	1	1	1	1	1
19:00	1	1	1	1	1	1	1
20:00	1	1	1	1	1	1	1
21:00	1	1	1	1	1	1	1
23:00	1	1	1	1	1	1	1
24:00	1	1	1	1	1	1	1



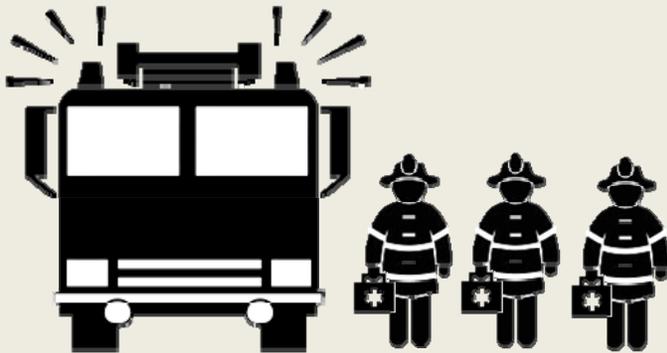
# CBFD Part-Time Staffing Benefits

## Faster Response Time for Emergency Medical Calls

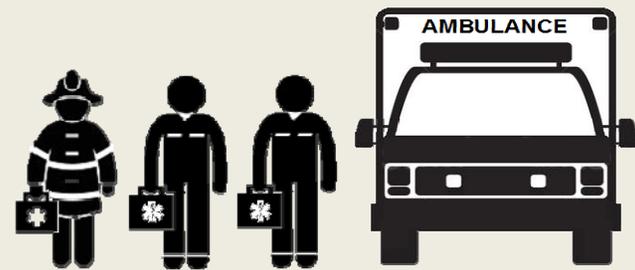
Interventions that positively effect patient outcome when provided a few minutes sooner:

**Defibrillation for Cardiac Arrest**  
**Heimlich for Choking Victims**

**Intramuscular Epi for Anaphylaxis**  
**Narcan for Overdose Victims**



**4 Minute & 30 Seconds**  
Average Fire Department Response



**7 Minute & 42 Seconds**  
Average Ambulance Response



# CBFD Staffing Obstacles

- Future Needs of the Community
- Incident Volume Increase
- Career Staffing Levels
- Volunteer Staff Availability
- Part-Time Staff Availability
- Operational Safety Concerns



# Future Needs of the Community

## The City of Burlington Strategic Plan

- Community Design
- Communication and Civic Involvement
- Economic Development
- Infrastructure
- Fiscal Sustainability
- Responsive and Accountable Cost-Effective Government
- Community Safety



# Future Needs of the Community

## Future Growth In And Around Burlington?

- The Fire Prevention Bureau has seen an increase in plan reviews and code reviews for commercial properties in the city.
- What impact will Foxconn have on the city?



# Future Needs of the Community

## FOXCONN Development:



### THE 'RIPPLE EFFECT'

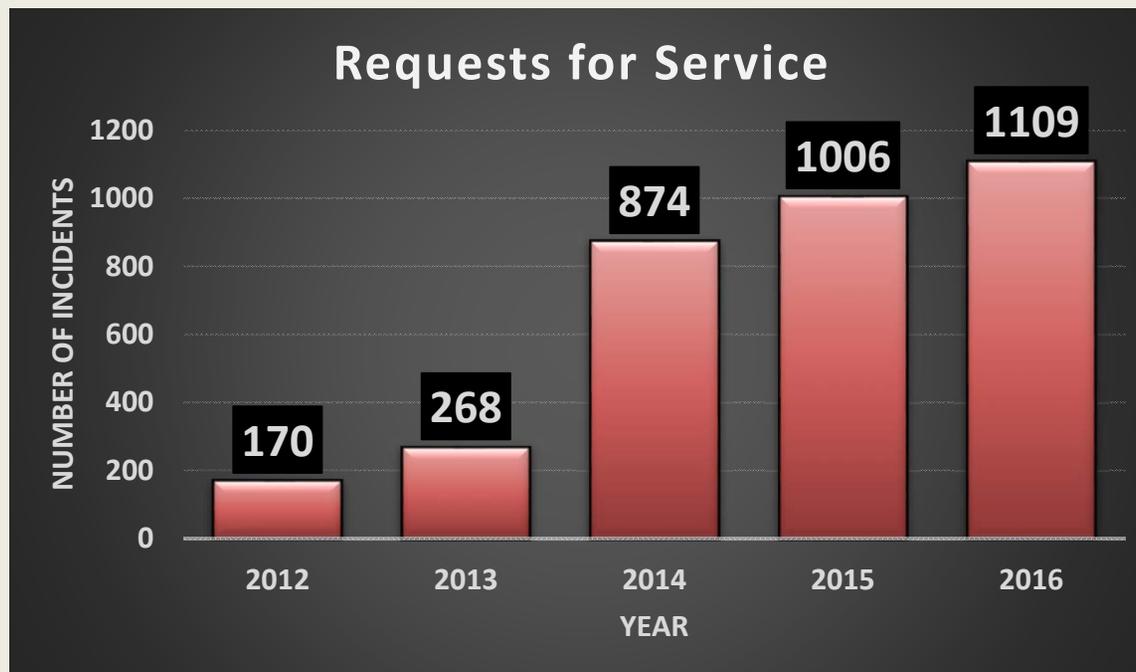
**10 = 16**

For every 10 jobs created through direct employment, 6 additional jobs will be created elsewhere in Racine County.

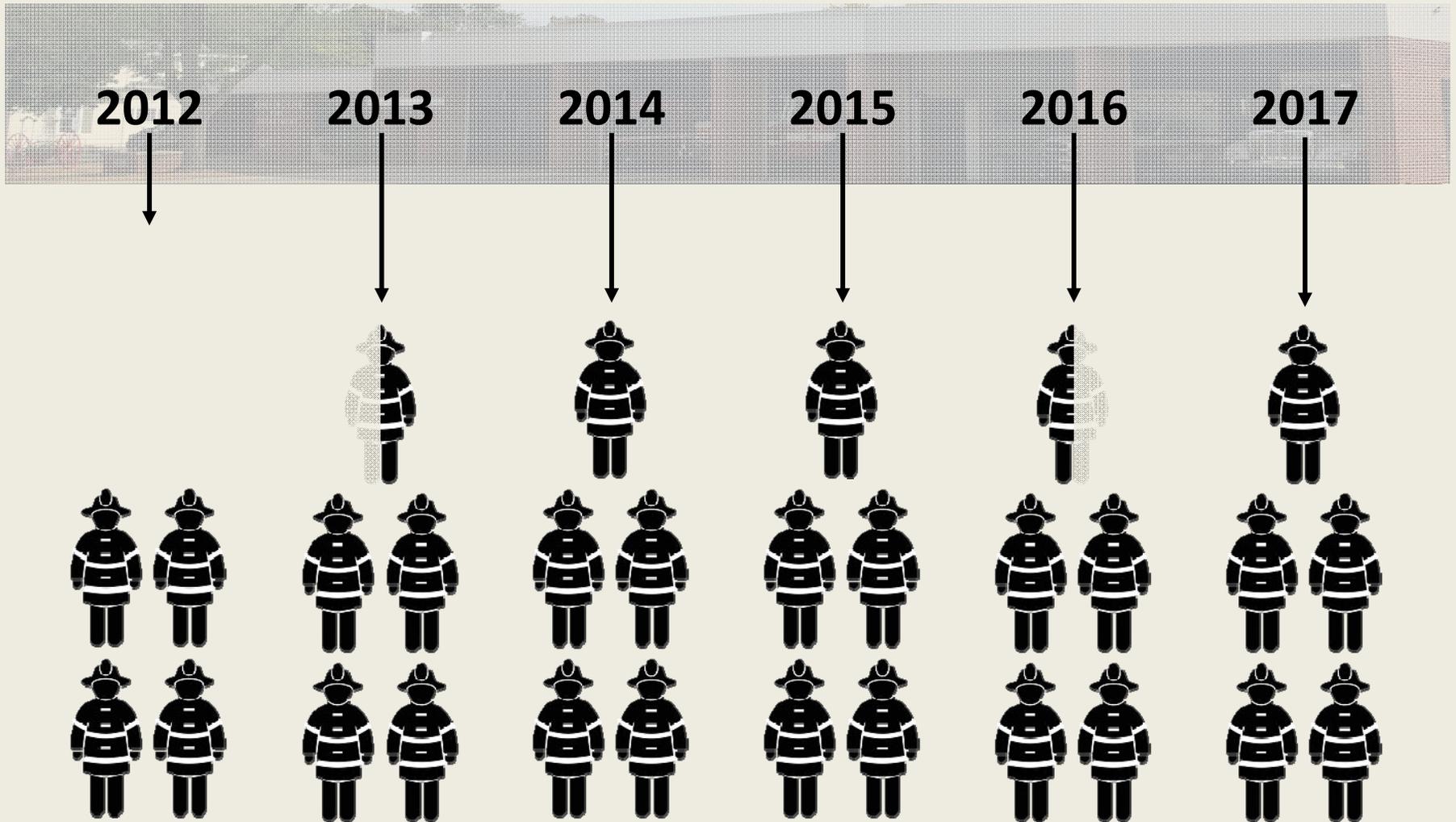


# Incident Volume Increase

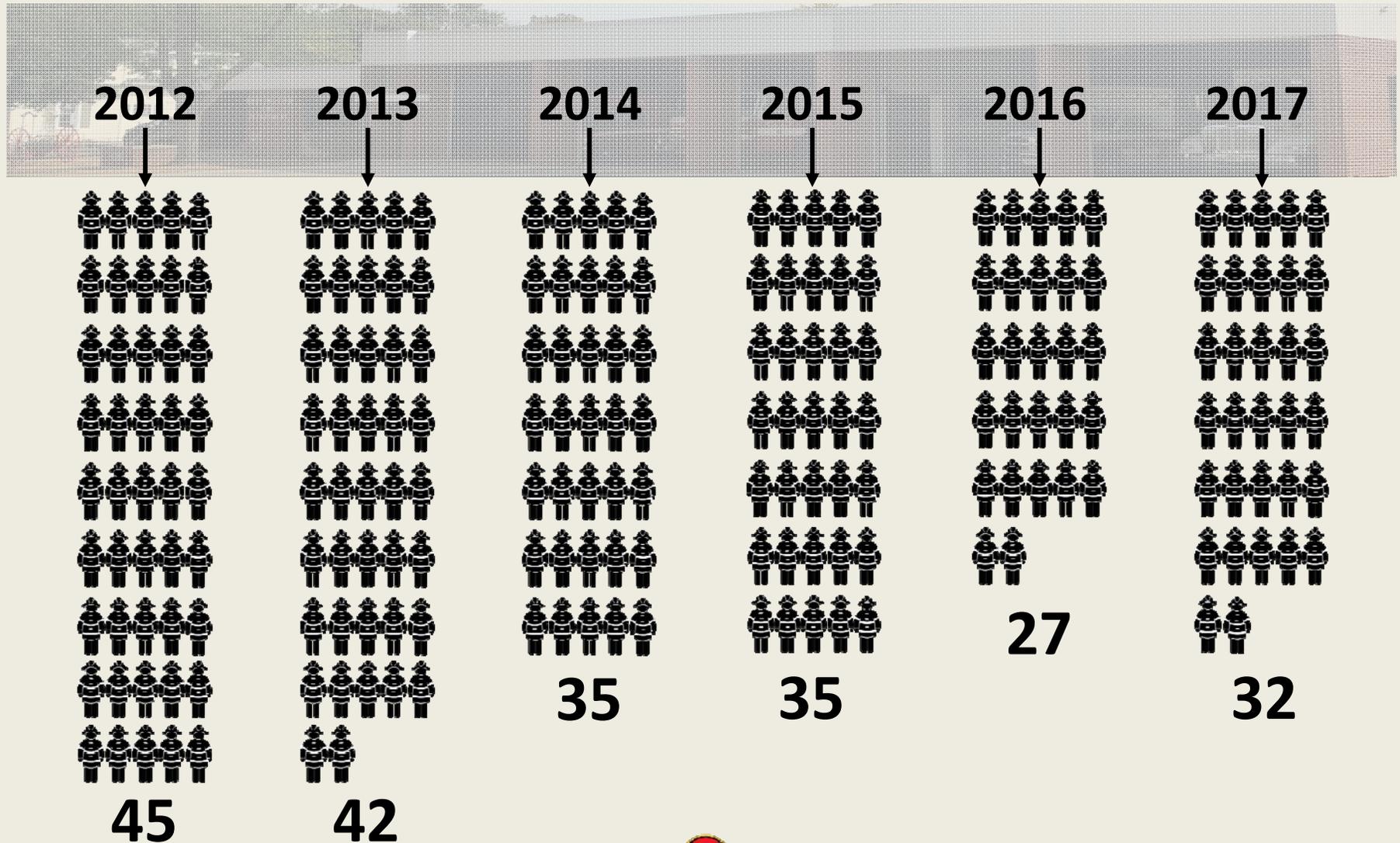
## Incident Volume Increase



# CBFD Career Staffing Levels



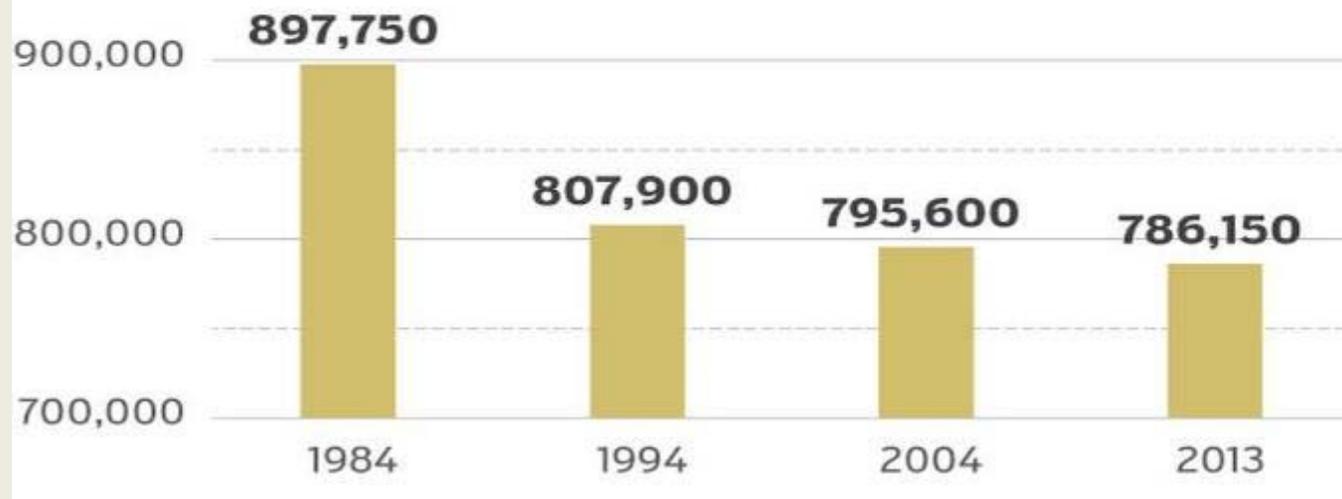
# CBFD Volunteer Staffing Levels



# CBFD Volunteer Staff Availability

## Volunteer firefighters

The number of volunteer firefighters in the United States has declined by 12 percent since 1984.



Calzda, Robert. (2015). Table 1



# Volunteer Retention and Recruitment Challenges

## Challenges & Root Causes

- **Time Demands**
  - Two-income family and working multiple jobs
  - Increased training time demands
  - Higher emergency call volume
  - Additional demands within department (fundraising, administrative)
- **Training Requirements**
  - Higher training standards and requirements
  - Additional training demands to provide broader range of services
  - Recertification demands



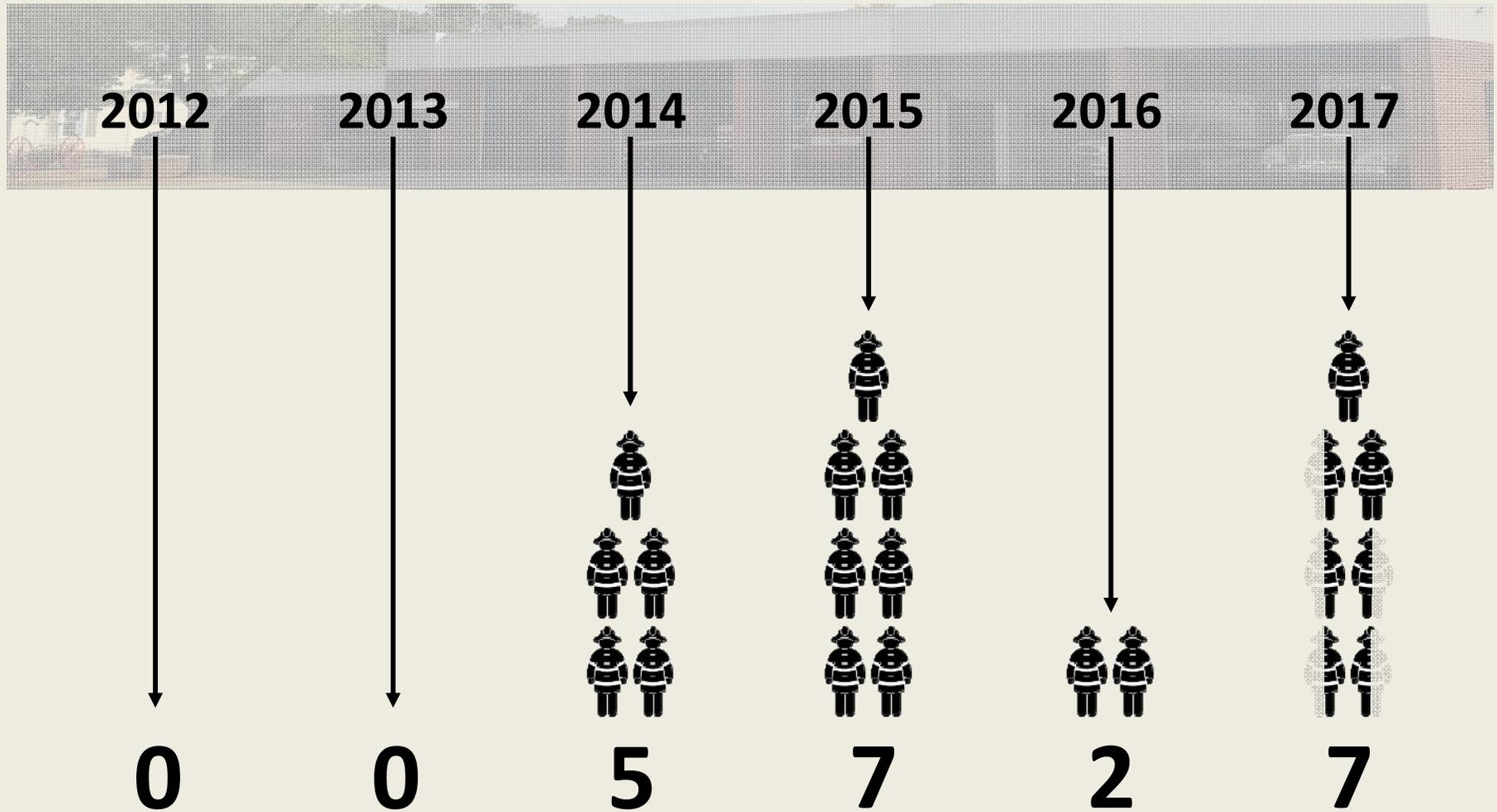
# Volunteer Retention and Recruitment Challenges

## Challenges & Root Causes

- **Increasing Call Volume**
  - Wider FD service roles (EMS, Hazmat, technical rescue)
  - Increasing emergency medical call volume
  - Increase in number of automatic fire alarms
- **Changes In Sociological Conditions**
  - Less of an interest or time for volunteering
  - Two-income family and time demands
  - Employers less willing to let employees off to run calls



# CBFD Part-Time Staffing Levels



# CBFD Part-Time Staffing Benefits & Challenges

## Benefits

- Quicker Response
- Additional Manpower
- Workload Distribution
  - Fire Inspections
  - Public Education
  - PR Events
  - Mission Readiness
  - Station Maintenance

## Challenges

- Small Pool of Part-Time Employees
- Retention problems (career stepping stone)
- Scheduling conflicts
- Dependability low



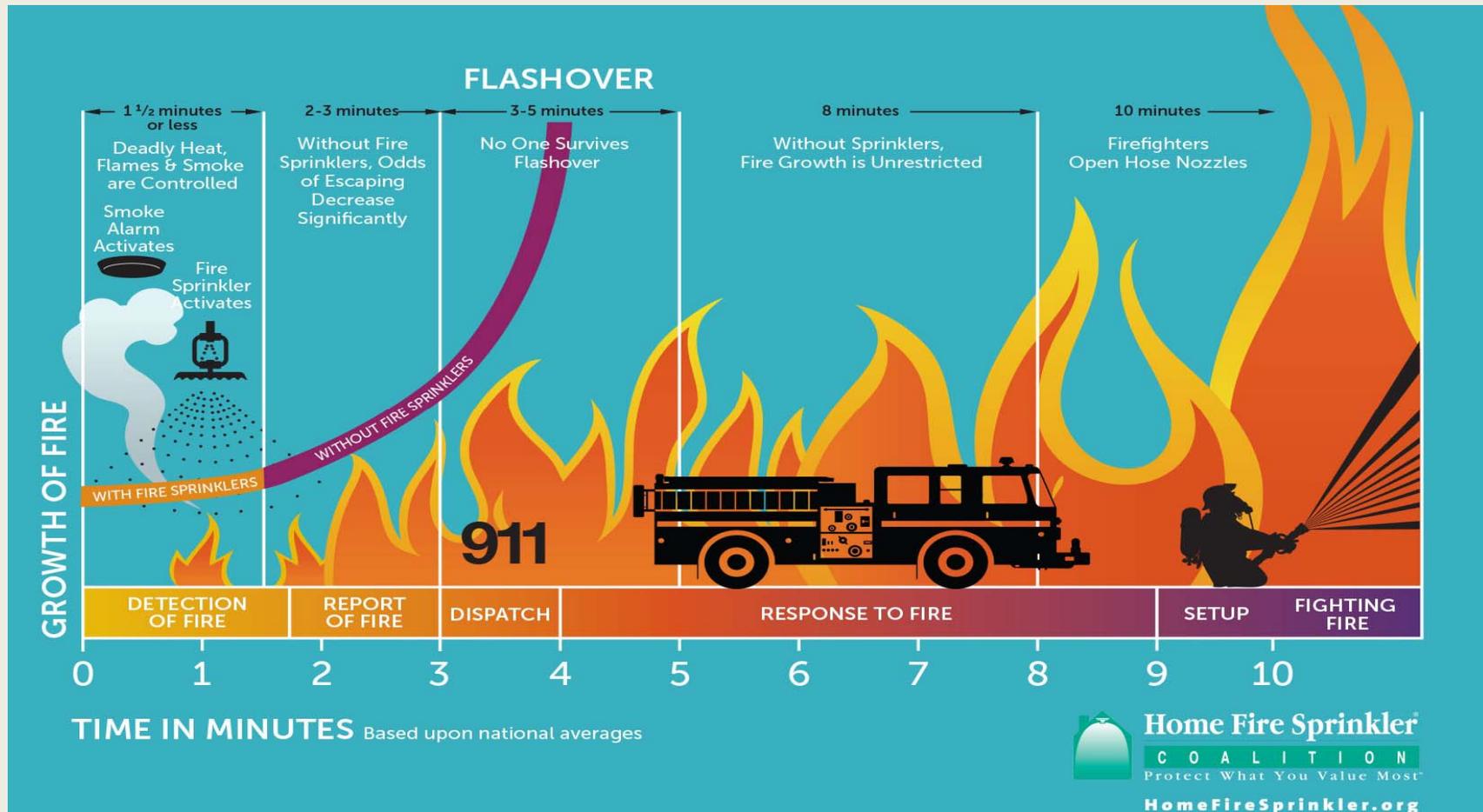
# Operational Safety Concerns

## Structure Fires Have Drastically Changed



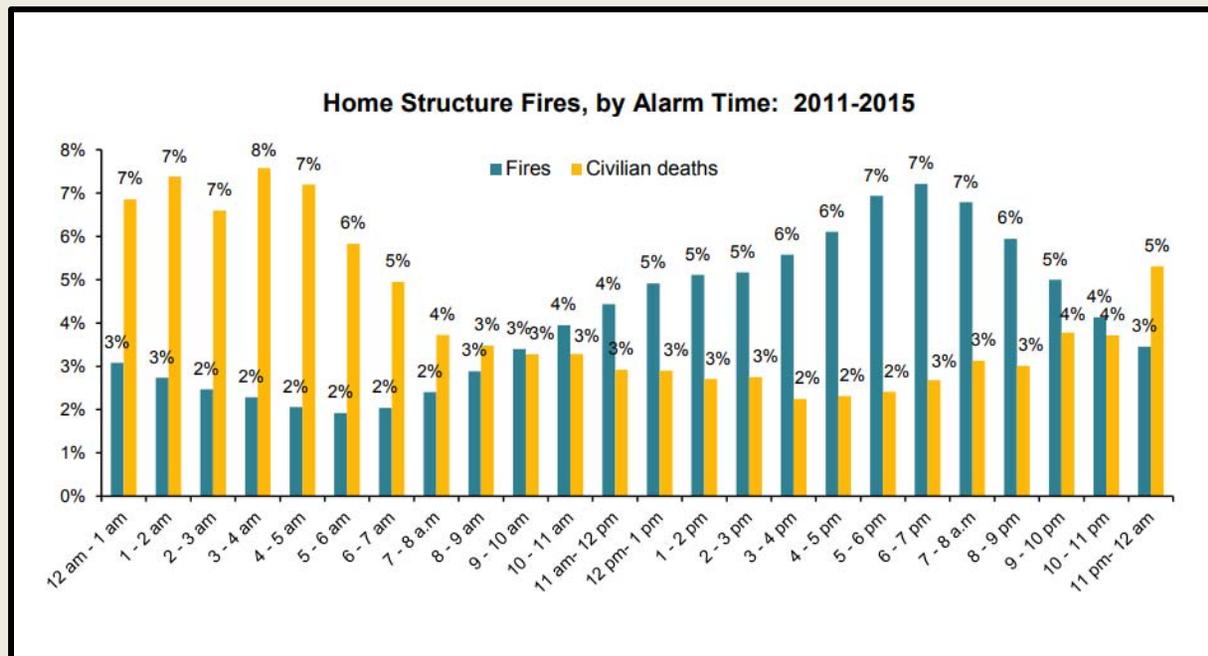
# Operational Safety Concerns

## Structure Fire Timeline



# Operational Safety Concerns

## Residential Fires and Civilian Deaths by Time of Day



**52% of Fire  
Related Deaths  
in the Home  
Occur Between  
the Hours of  
11PM & 7AM**

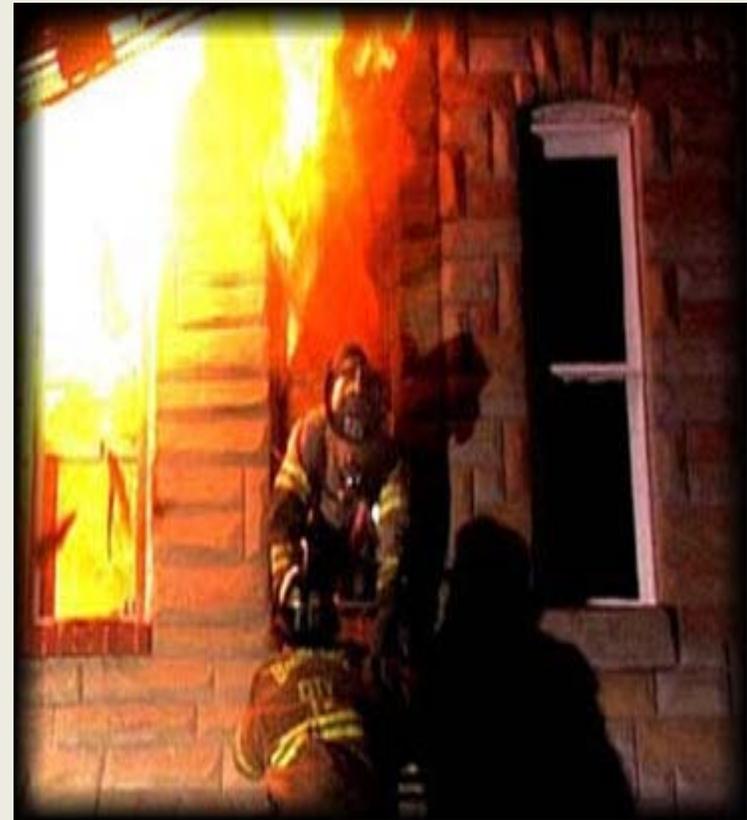
(NFPA) National Fire Protection Agency. (2017).



# Operational Safety Concerns

## Firefighter Emergencies & Mayday's

- 50% of all maydays occurred between Midnight and 0600 hours
- 54% of maydays occur to a member of the crew from the first arriving unit



# Operational Safety Concerns

## Wisconsin State Statute SPS 330.14 (3) (a)

### **OSHA Two-In / Two-Out Rule:**

Under the “2 In/2 Out” Regulation, OSHA establishes that in an Immediately Dangerous to Life and Health (IDLH) atmosphere, the employer should ensure that 4 firefighters arrive at the fire before entering the building.

1. **At least two (2) firefighters enter** the building and remain in visual and voice contact at all times.
2. **At least two (2) firefighters remain outside** of the building.



# Operational Safety Concerns

**Tuesday June 6<sup>th</sup>, 2017 - 1507 hours**  
**City of Burlington, WI.**



# Operational Safety Concerns

## Current CBFD Staffing Voids

### In These Time Frames:

Monday	} Before 7 AM After 6 PM
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	All Day
Saturday	All Day

**The Only Guarantee** →



Thank you

Questions & Comments

