



Model Performance in Community Risk Reduction

SYMPOSIUM 2018

**Fire Code Officer Position
Positive Impacts with Fire Code Enforcement**

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Washington State**

CITY OF VANCOUVER, U.S.A.



MODEL PERFORMANCE IN COMMUNITY RISK REDUCTION

What Prompted Change?



 Vision 20/20



FORMATIVE EVALUATION

FORMATIVE EVALUATION

Problem

- Missing information
- Backlog & new
- Need risk-based solution
- Cost-neutral answer

Objectives

- Accurate database
- Remove backlog by 2020
- Reduce false fire alarms
- Establish risk-based on-going inspections
- Hire performance-based staff

2020 Fire & Life Safety Inspection Frequency Model

Occupancy Classification Defined by International Building Code	Risk Level	Frequency
Places of Public Assembly, Divisions 1 through 5	High	12 Months
Business	Moderate	24 Months
Educational	High	12 Months
Factory Industrial, Division 1	High	12 Months
Factory Industrial, Division 2	Moderate	24 Months
High-hazard Occupancies, Divisions 1 through 5	High	12 Months
Institutional Occupancies, Divisions 1 through 5	High	12 Months
Mercantile	Moderate	24 Months
Residential, Divisions 1 and 2	High	12 Months
Residential, Division 3 (Adult Family Homes Only)	High	On Demand
Storage, Division 1	High	12 Months
Storage, Division 2	High	12 Months

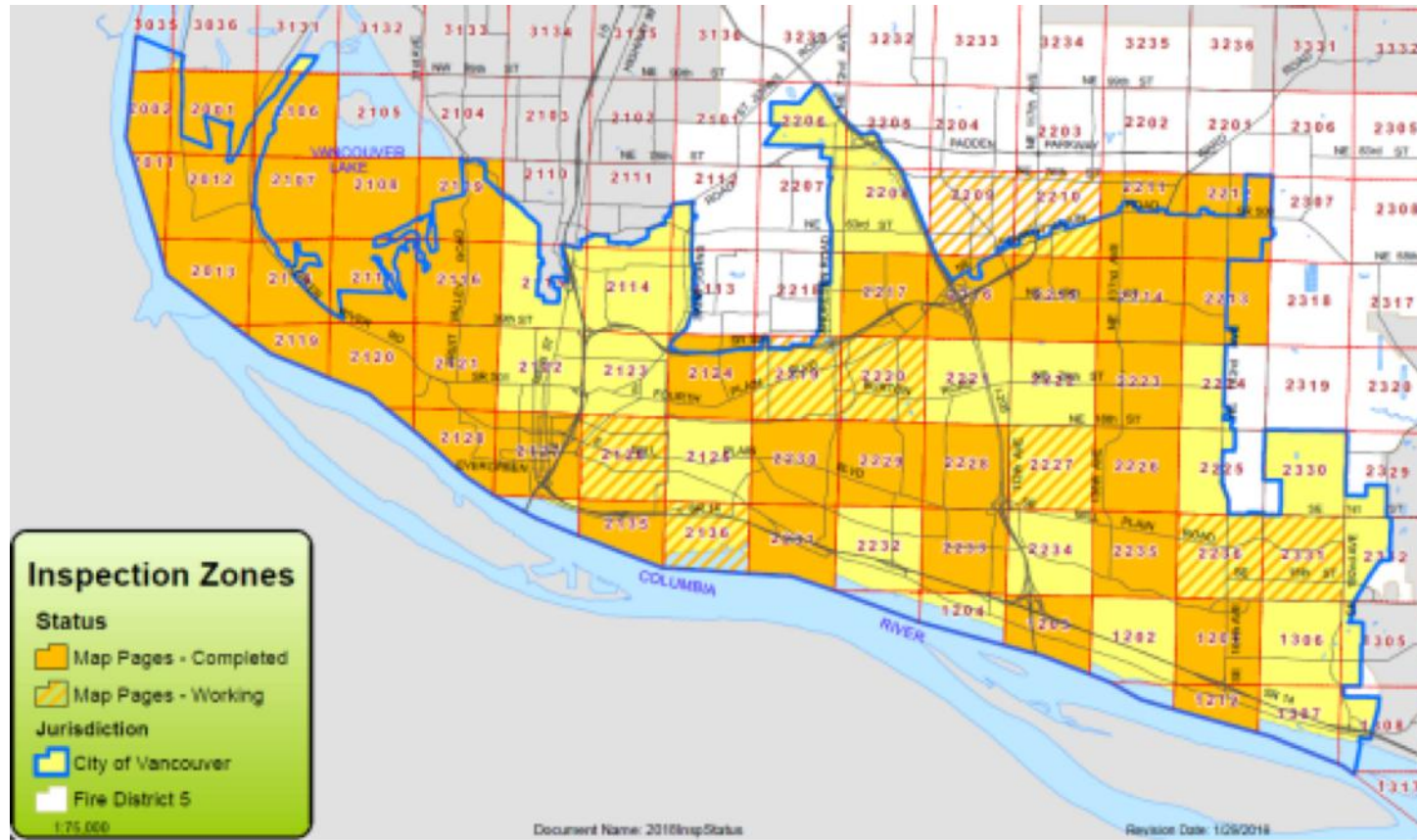


PROCESS EVALUATION

Fire Code Officer



Ranking Risk by Map Page

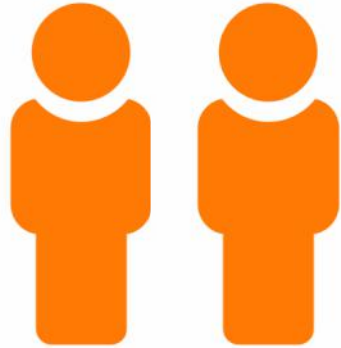




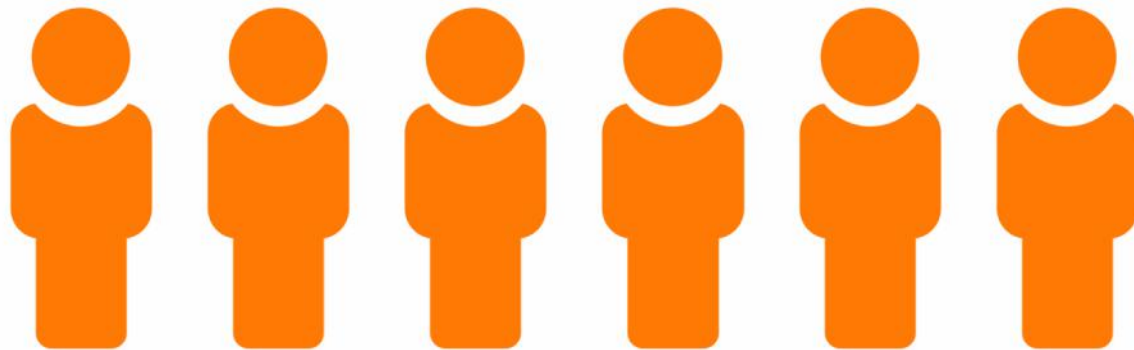
IMPACT EVALUATION

Fire Code Officers

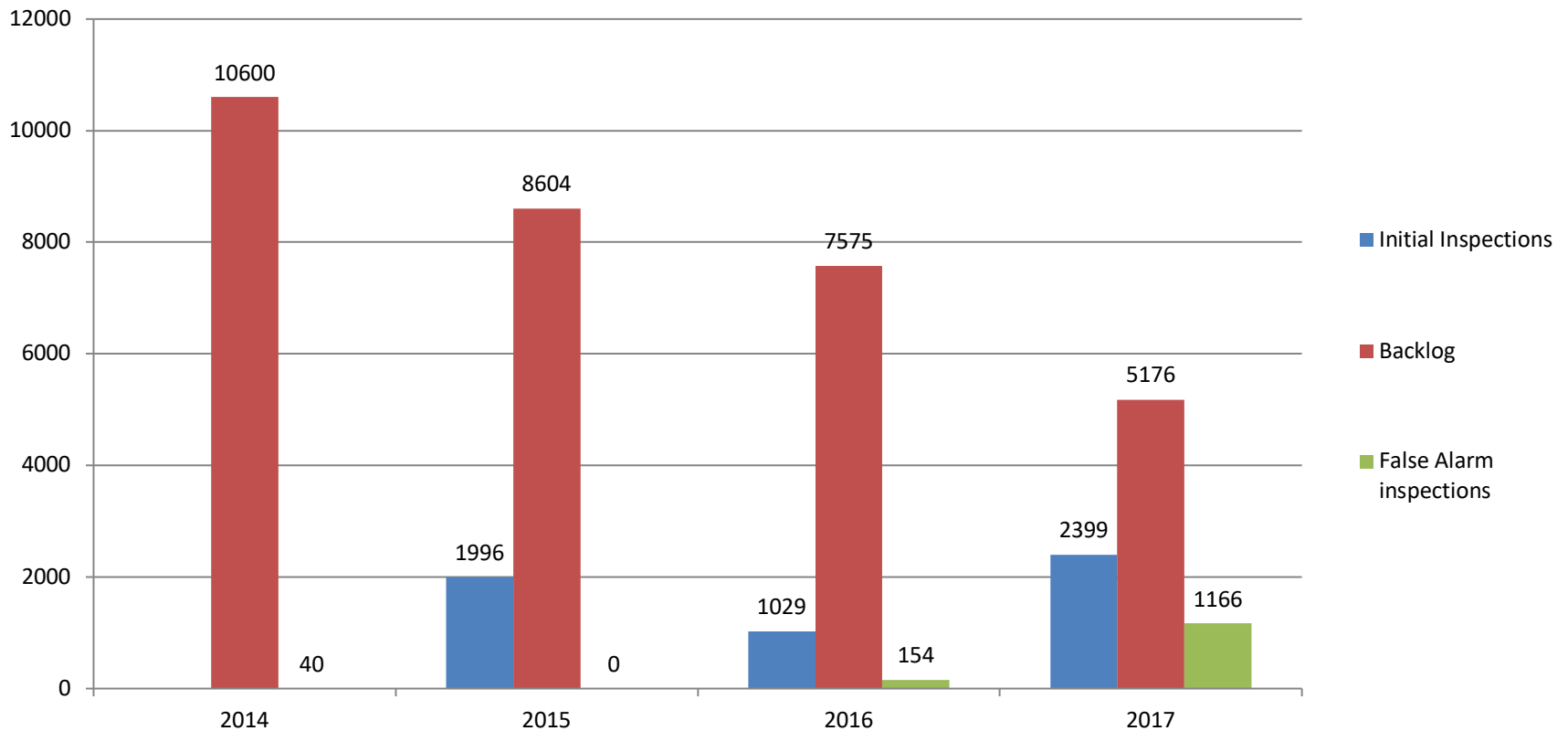
2015



2017

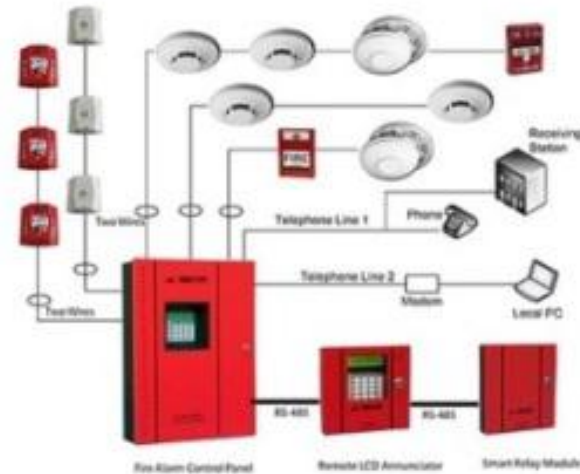


Fire Inspection Backlog



Added to Database

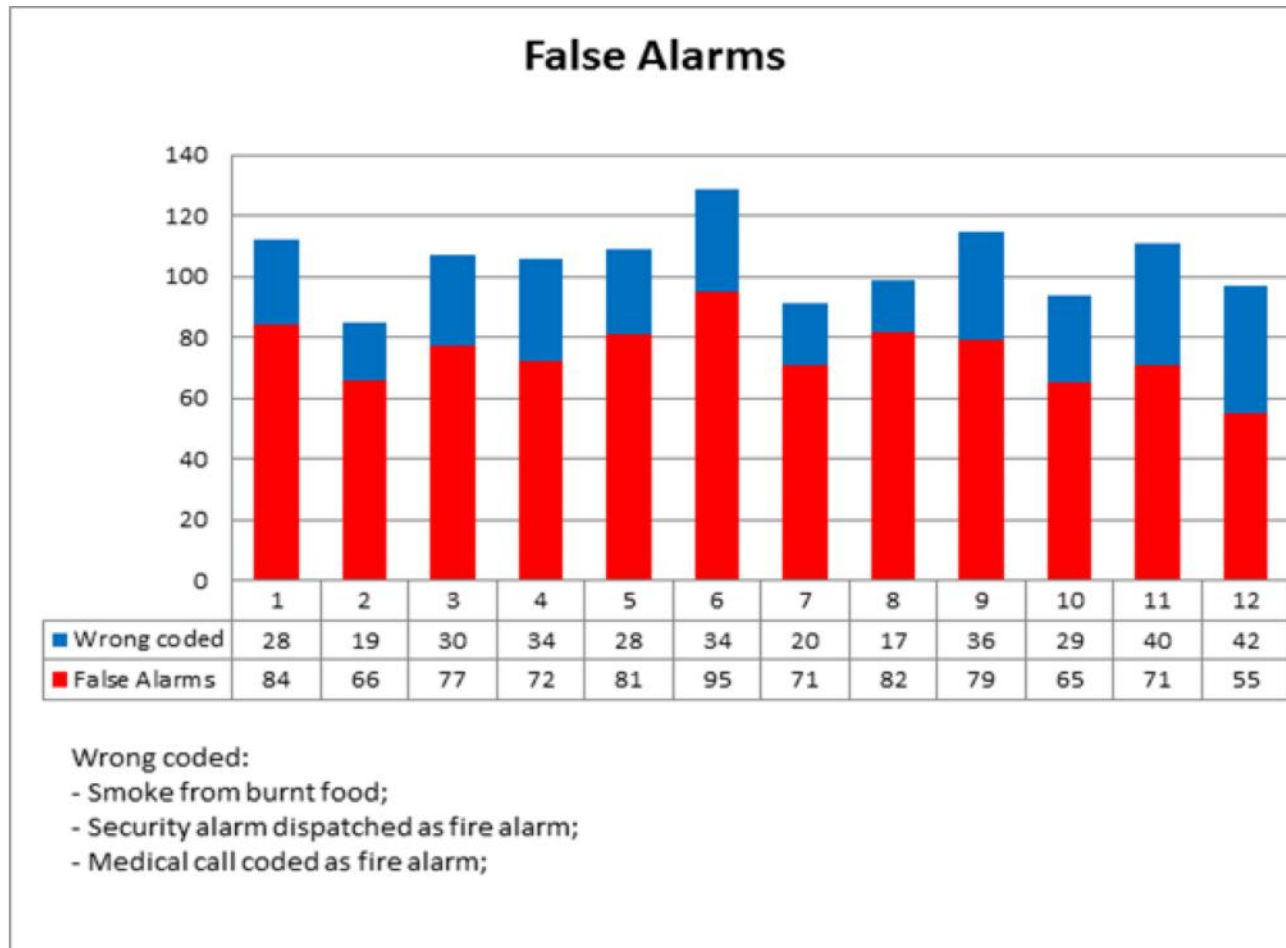
- ~600+ occupancies
- ~400 fire protection systems



Impact Evaluation

- 100% FPS ITMs reviewed and followed up in 1 business day
- 100% false fire alarms in 1 business day
- 100% complaints inspected in 24 hours

False Fire Alarms



FCO Performance

Jackie Vane - Fire Code Officer

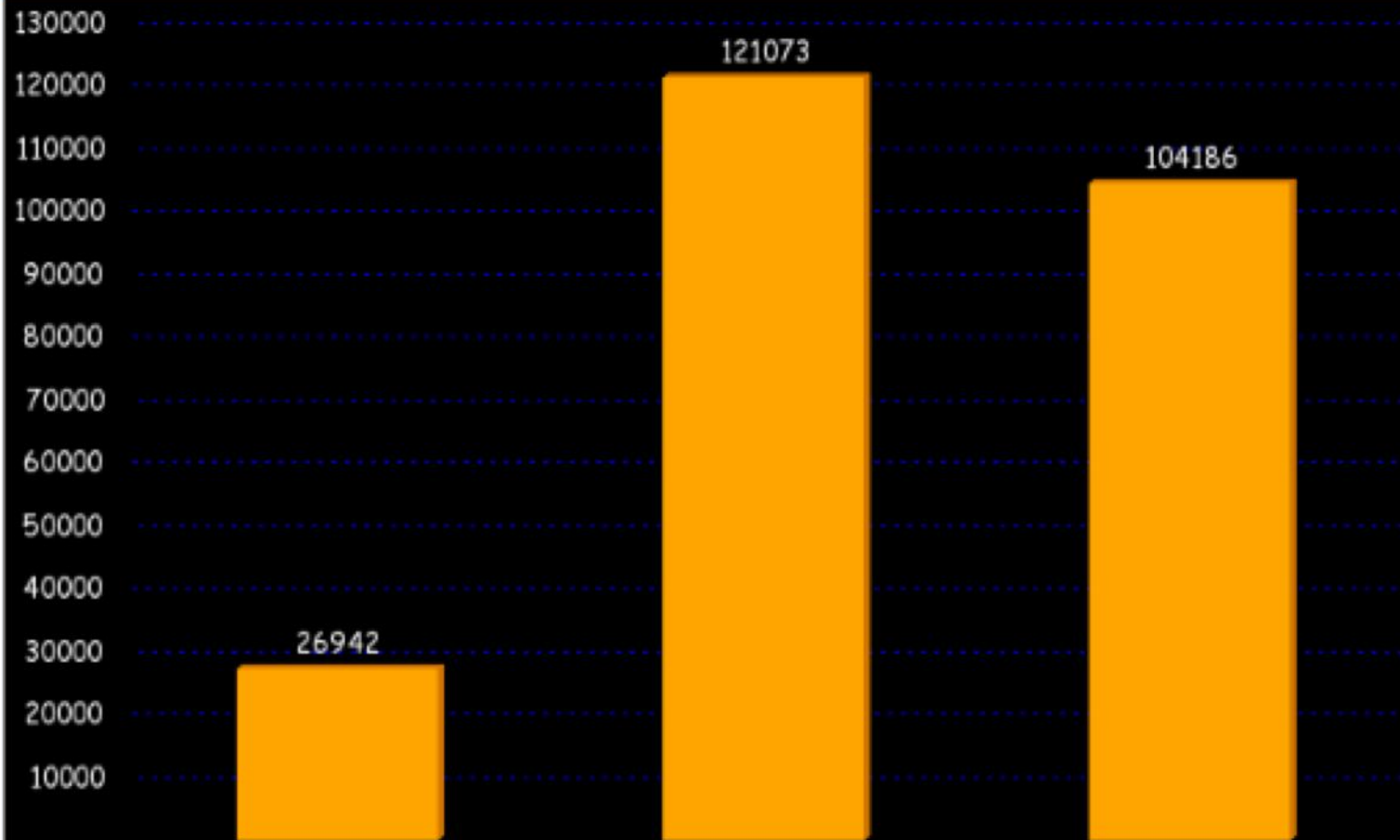
[Return to supervisor dashboard](#)

Revenue Tracking

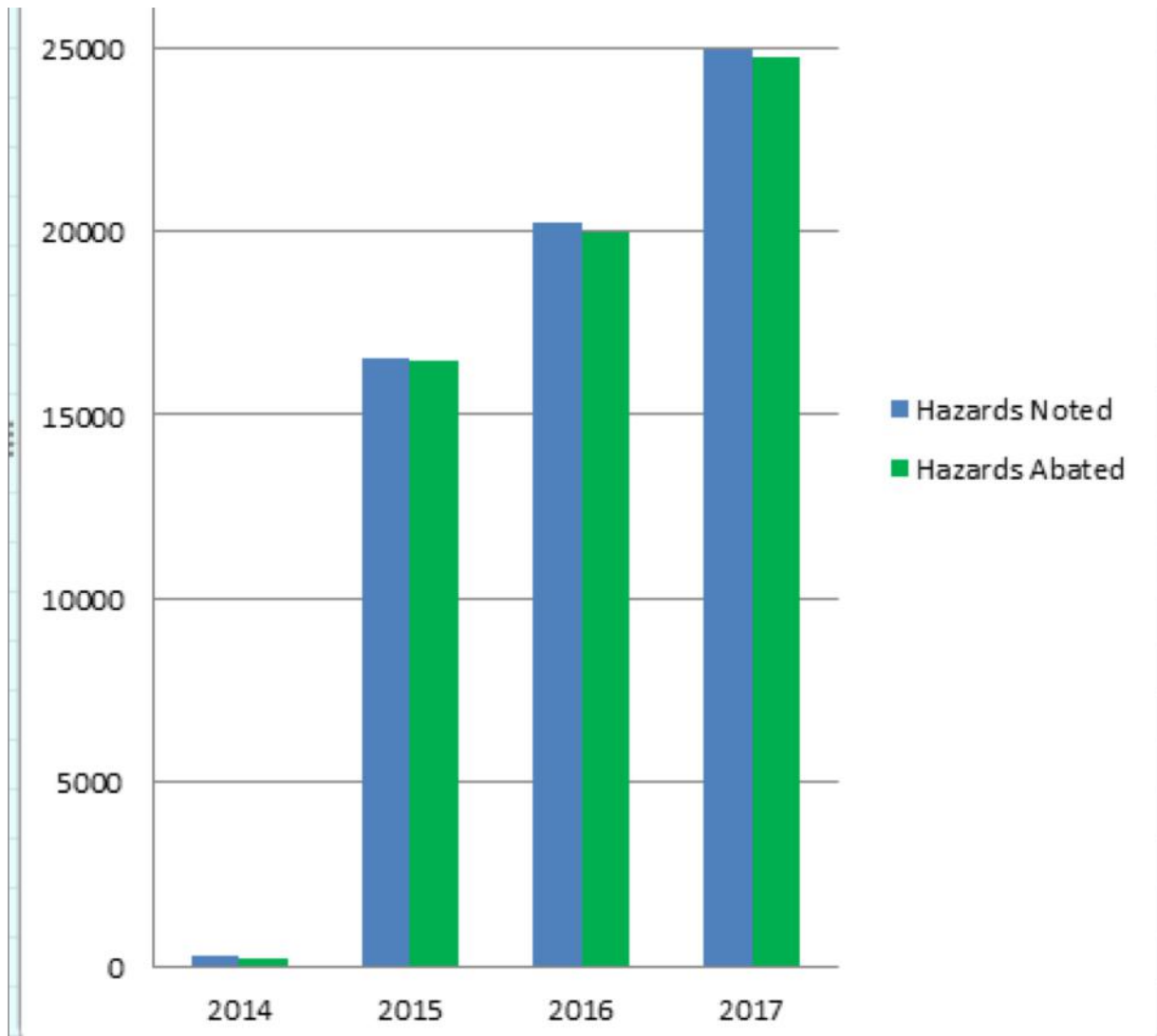
2018

Objective

\$104188.00



Fire Code Hazards Noted & Abated





OUTCOME EVALUATION

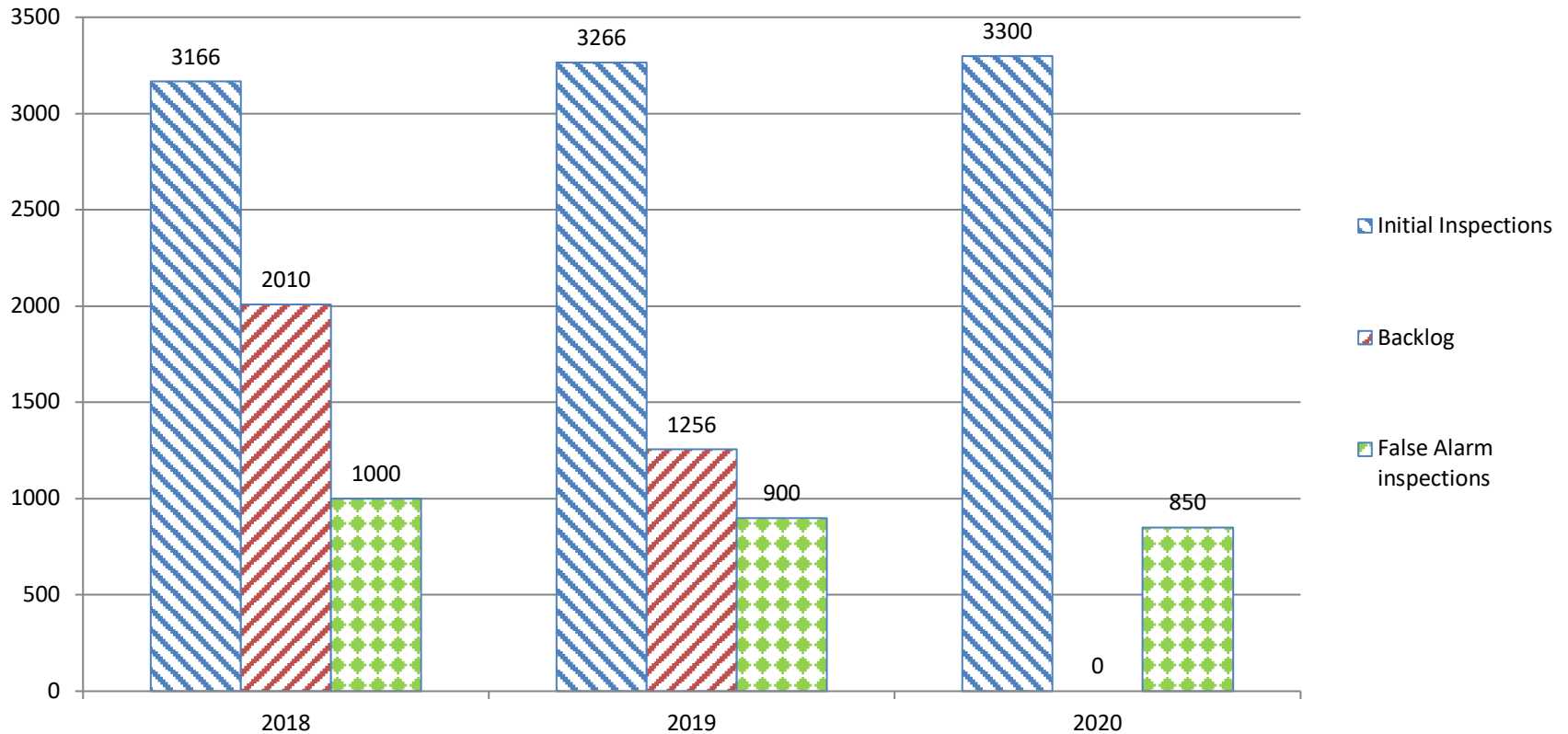
Outcome Evaluation

- Sustained zero fire loss in FCO inspected occupancies since 2015
- Since 2017, 10% reduction of false fire alarms and 2018 projections estimate 45% reduction



Projected Outcomes

Inspection Backlog Removed



OVERALL INITIATIVE OUTCOMES

- **Added 6 FCO positions that are cost neutral to COV budget (in the 2019/2020 budget, increase to 10 FCO's total).**
- **Significantly reduce the risk for businesses PLUS preserve economic vitality**
- **Work to change risky and dangerous behaviors associated with fires in commercial occupancies**





RECOMMENDATIONS

Recommendations

- Positive relationships
- Staff IFC training
- Progressive commitment from stakeholders and fire staff
- Continuous evaluation and minor adjustments

Conclusions

Challenge your existing priorities and your capacity will change.

Focus your time and energy on projects that incorporate Education, Engineering, Enforcement, and Economic Incentive.....it will make the greatest impact!



Additional Information

Upon Request

- **City of Vancouver, Fire Code Officer job description**
- **City of Vancouver, Fire Code Officer offer of employment letter (performance established)**

