

Fire Department Update and Service Delivery Plan

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Nanaimo Fire Rescue
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Presentation Outline

- ▶ Fire Station #1 Update
- ▶ Current Health & Wellness Initiatives
- ▶ Update and Status of Workload
- ▶ Update on Initiatives, Public Education & Outreach
- ▶ Training Initiatives
- ▶ Planning for Growth, Responses & Service Delivery
- ▶ Recommendations

Fire Station 1 Upgrade

- ▶ Jun 2019 Public Open House
- ▶ Jun 2019 Value Engineering Workshop
- ▶ Jul 2019 Independent Commissioning Agent Appointed
- ▶ Aug 2019 Development Permit Application Submitted
- ▶ Aug 2019 Class B Cost Estimate Delivered
- ▶ Sep 2019 50% Design Documents Delivered



NEXT STEPS



Project Status Updates will be provided to Council periodically

- Oct 2019 Design Advisory Panel
- Oct 2019 Development Permit Variance
- Oct 2019 75% Design Documents
- Nov 2019 Cost Check #3 (Pre-tender / Class A)
- Nov 2019 Advance Procurement Notice & Presentation
- Dec 2019 Publish Tender Documents
- May 2020 Award Construction Contract
- Completion September 2022

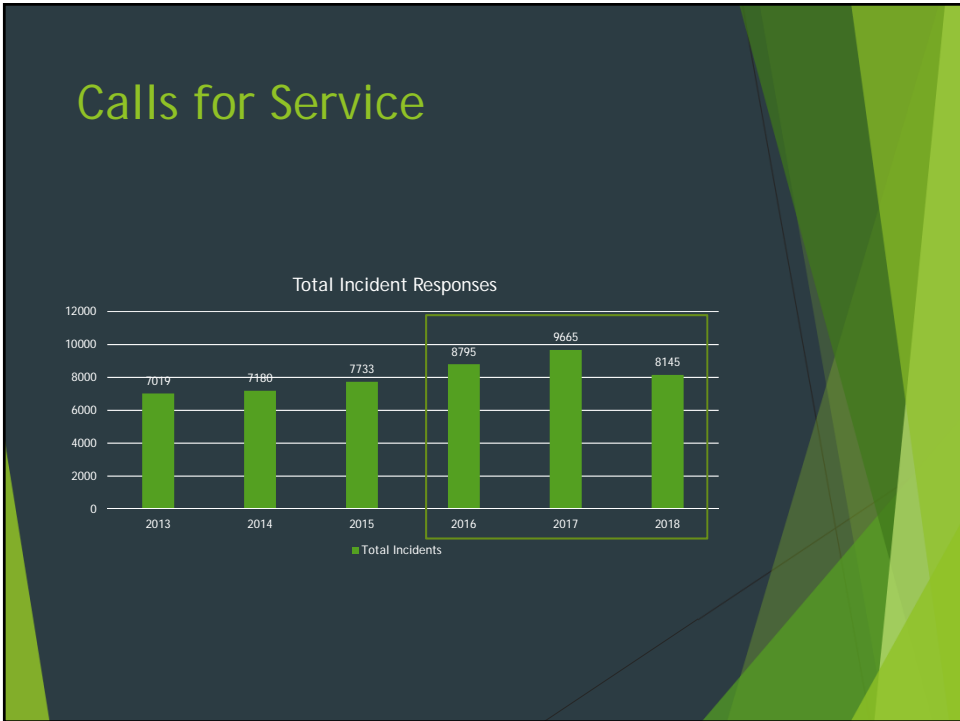
Health Initiatives

- ▶ First Responders Cardiology Research, Education and Early Detection Program
- ▶ Headspace
- ▶ Resilient Minds training

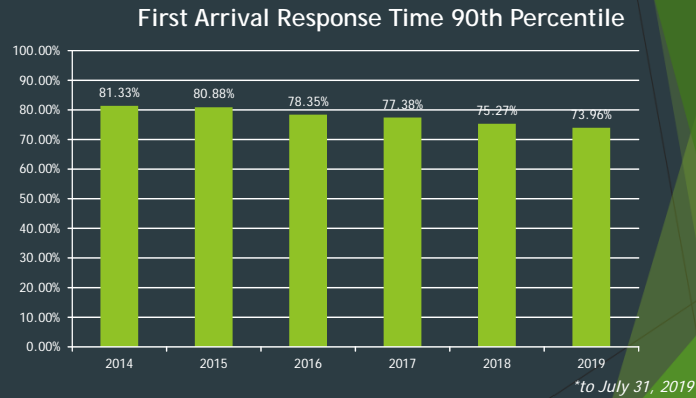
Council Policies

- ▶ 4-member engines
- ▶ Response times

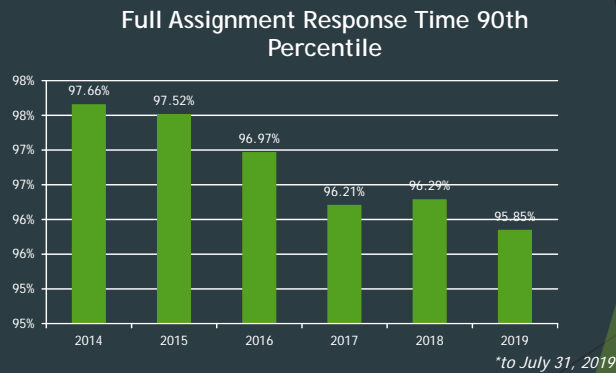


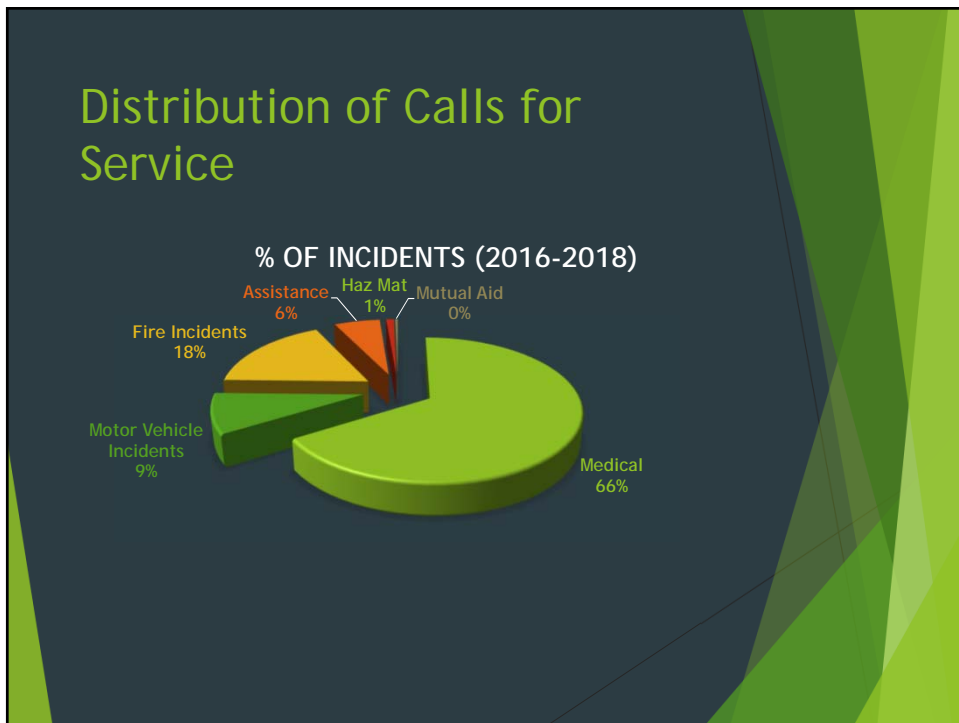
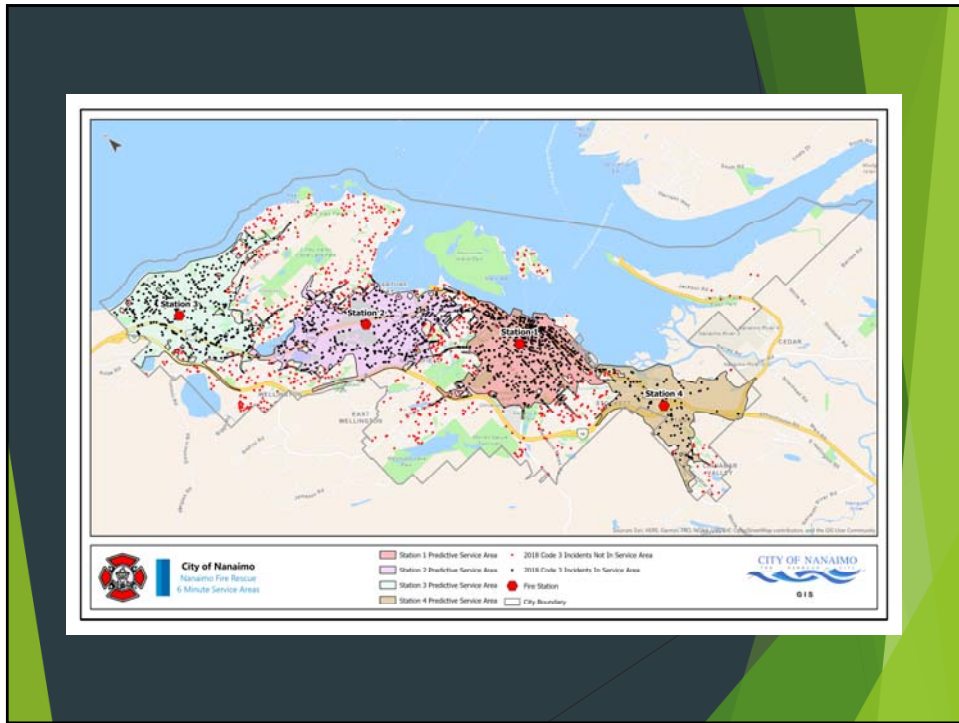


Arrival of Apparatus within 6 min in 90% of incidents

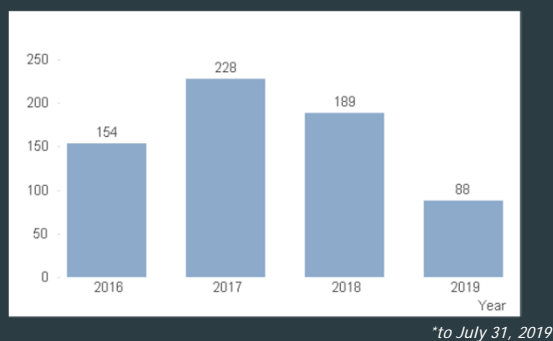


First Alarm Assignment within 10 min in 90% of incidents





Cardiac Related Incidents

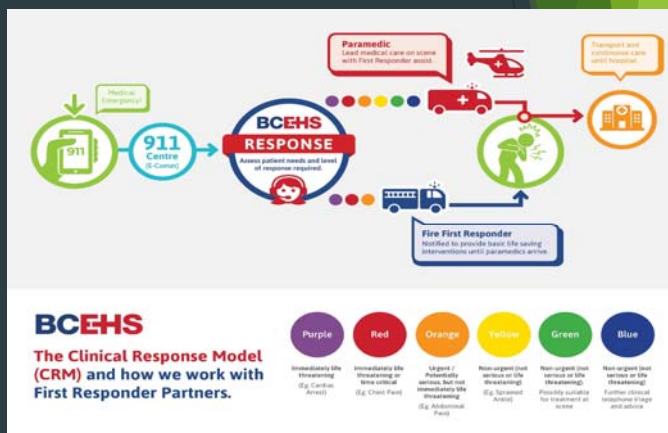


Cardiac Arrests and CPR

- ▶ Given that the **likelihood of surviving** falls by 10 percentage points (-10%) each passing minute, it is exceedingly crucial for any bystander to administer a mixture of CPR and AED action prior to the emergency responders arriving.

First Responder/EMR

- ▶ Background
- ▶ EMR
- ▶ Highest acuity
- ▶ CRM - model



Why EMR?

- ▶ Arrive on scene prior to BCAS >65% of the time for at least 1 minute (48% of the time on scene for more than 3 minutes before ambulance)
- ▶ Higher training and level of support (pulse oximeters, pain relief, immobilization, blood pressure, ASA and Nitroglycerine to treat/calm chest pain)
- ▶ Recertification less frequently
- ▶ Higher confidence in ability to make a difference (firefighters)
- ▶ Proactive and evidence-based for improving pre-hospital care
- ▶ Business Case has been completed (5 years for training the whole department at a total cost of approx. \$300,000)
 - ▶ Year 1: budget implication= approx. \$70,000-\$90,000 (training instructors and 15 firefighters)



Recommendation #1

- ▶ Council direct staff to prepare a report for Council on transitioning pre-hospital care up to EMR (Emergency Medical Responder)

Current Fire Plan

- ▶ 10-15 year overall plan
- ▶ 3-year service delivery plans
 - ▶ Build-up of resources
 - ▶ Value to the community



Fire Propagation - Modern Fire Dynamics

- ▶ Modern fires reach hotter temperatures quicker
- ▶ 5 minutes for flashover - compared to historical 30 minutes
- ▶ Building geometrics, larger homes, increased fuel loads & changing construction materials



Community Education

Bystander CPR

- ▶ 2017-2019 (Jan-Jul): 130 bystander CPR incidents
- ▶ Firefighters Train our Community
 - ▶ City of Nanaimo
 - ▶ Schools
 - ▶ Open Houses
 - ▶ Additional proposed for 2019-2021
 - ▶ Snuneymuxw
 - ▶ VIU



Community Education

Smoke Alarm

- ▶ Objective: Reduce the frequency of structure fires through targeted public education and reduce the harm fires cause through increased smoke alarm activation.
- ▶ Nanaimo Fire Rescue firefighters and prevention staff conducted door-to-door campaigns to raise awareness on the importance of smoke alarms
 - ▶ 2017 = 785 residential properties
 - ▶ 2018 = 1249 residential properties
 - ▶ 2018 = 134 residential properties on Snuneymuxw IR#1
- ▶ Moving forward:
 - ▶ Mobile home parks
 - ▶ Carbon monoxide (OFC)

Vancouver Island Emergency Response Academy (VIERA)

- ▶ Pro Board accredited training academy (1 of 4 in BC)
- ▶ Provides fire services training and courses to over 40 departments across BC
- ▶ Potential for growth and development



Vancouver Island Emergency Response Academy (VIERA)

- ▶ Growth
- ▶ Revenue Generation:
 - ▶ 2016-2018 \$1.5 million in revenue
 - ▶ 2016-2017 = transferred surplus \$340 k to reserves
 - ▶ 2018 = offset fire operational budget \$118 k
- ▶ Offsetting current budget to reduce the growth and impact from general operating



Planning for Growth and Service

- ▶ IAFF study
- ▶ City Map layouts
- ▶ Fire Plan Review Analytics
- ▶ Response times
- ▶ Growth and Development spread across the City
- ▶ Official Community Plan (OCP)

Recommendation #2

- ▶ That the Fire Department Master Plan be included in budget discussions.

Pressures and Focus

- ▶ Tours (Open house)
- ▶ Requests for service
- ▶ Industry standards - resources
- ▶ WorkSafe
- ▶ NFPA
- ▶ Mental Health and Wellness
- ▶ Increased Fire Propagation
- ▶ Wildland Interface
- ▶ Filling ICS positions



Council's 2019-2022 Strategic Plan

How does Nanaimo Fire Rescue align:

- ▶ Environmental Responsibility
 - ▶ We are committed to protecting and saving lives, property and the environment
 - ▶ Nanaimo Fire Rescue will take a leadership role and focus on our environmental impact and climate change contributions in our decision making and regional participation.
 - ▶ Reduction of air pollution and the impacts of all fires
 - ▶ Look for opportunities to continue to reduce the impact the fire service has on the environment
 - ▶ Energy saving lens on capital and operating projects

Service Level Requests - Recommendations

- ▶ Council direct staff to prepare a report for Council on transitioning pre-hospital care up to EMR (Emergency Medical Responder)
- ▶ That the Fire Department Master Plan be included in budget discussions.
- ▶ Council direct staff to continue with their public education programs
- ▶ Council provide other direction