



Government  
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du Canada

# Canadian Safety and Security Program

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**MSD Prevention in the Paramedic Sector**

**Toronto, May 10, 2016**

**Canadian Safety and Security Program**



Led by Defence R&D Canada – Centre for Security Science

**Canada**

# Conflict of Interest

I was involved in many of these projects both from the Centre for Security Science as well as from the Paramedic Chiefs of Canada.

At all levels I have declared any real or perceived conflicts of interests.

Sponsored in part today to present.



# The next 30 min.

What has Changed?

What are “We” doing about it?

Where are the Opportunities?

Summary







**Small, Light**

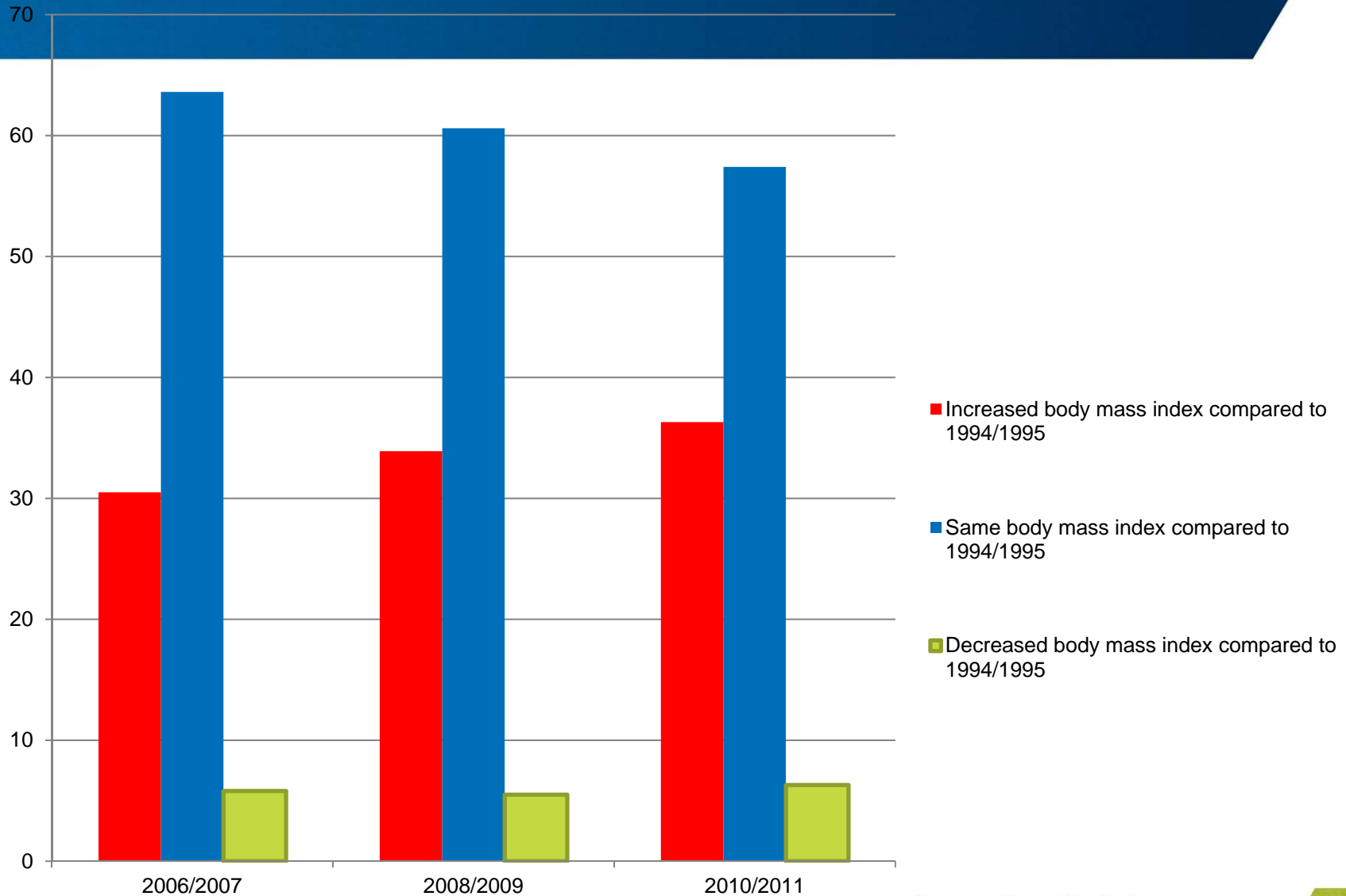




**Bigger, Heavier**



# Canadian Body Mass Index



# What do we know from then until now?

Increase in patients weight.

Increase in amount of equipment.

Increase in weight of equipment.

Changes in Ambulance design.

Legislation/policies focus on Risk.

What are we doing about it?







## Canadian National EMS Research Agenda



[www.emscc.ca/nra](http://www.emscc.ca/nra)

<http://www.paramedicchiefs.ca/docs/nra/jensen%20CJEM%202013%20Cdn%20EMS%20Research%20Agenda%20-%20final%20results.pdf>

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# Physical Demands Analysis



Paramedic Chiefs  
of Canada

Chefs Paramédics  
du Canada



Paramedic Association of Canada  
Association des Paramedics du Canada



Queen's  
UNIVERSITY



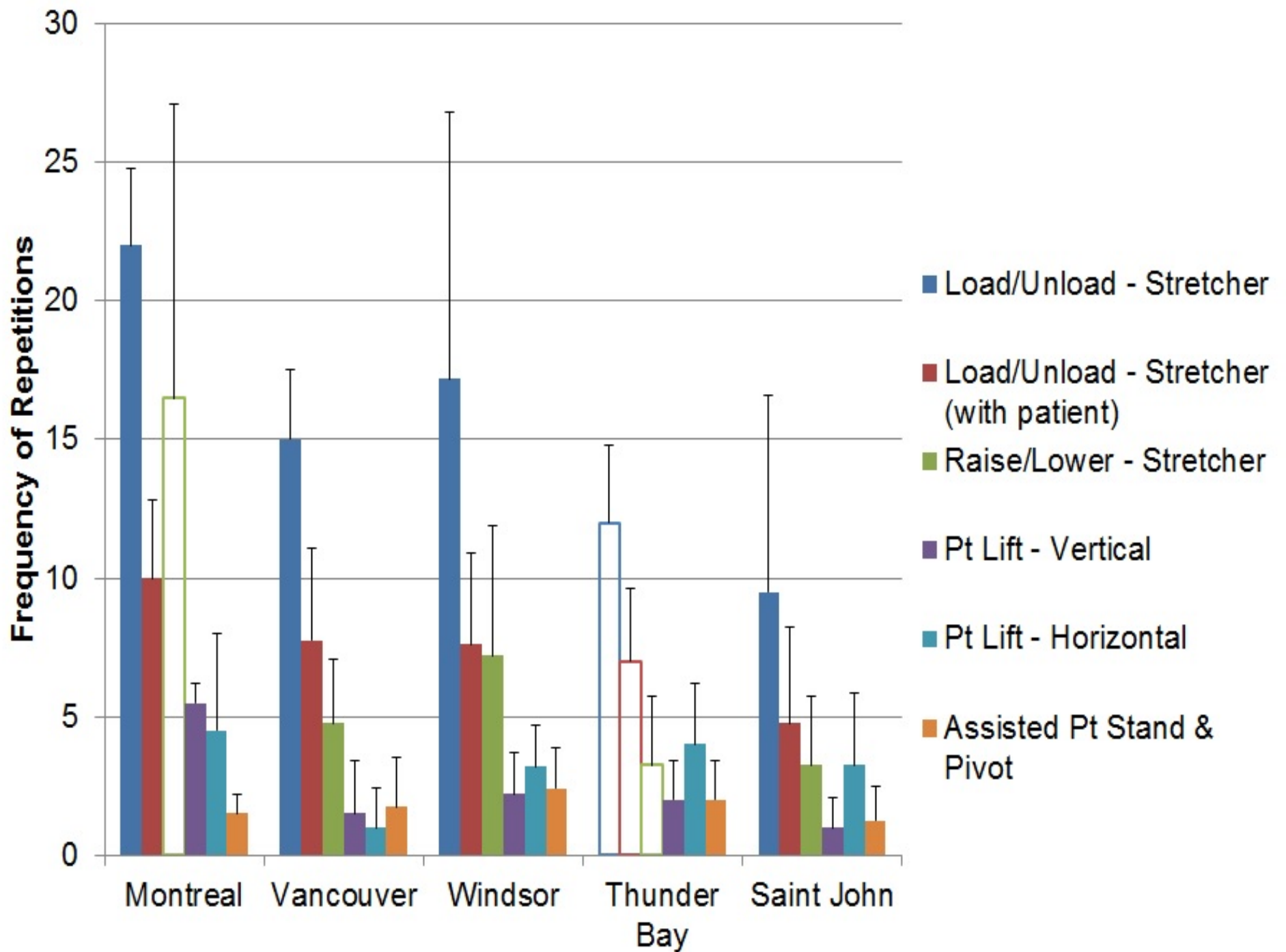
- 5 Sites across Canada
- Paramedics trained by ergonomists to record daily activity
- First time National Study with observational research and physical demands

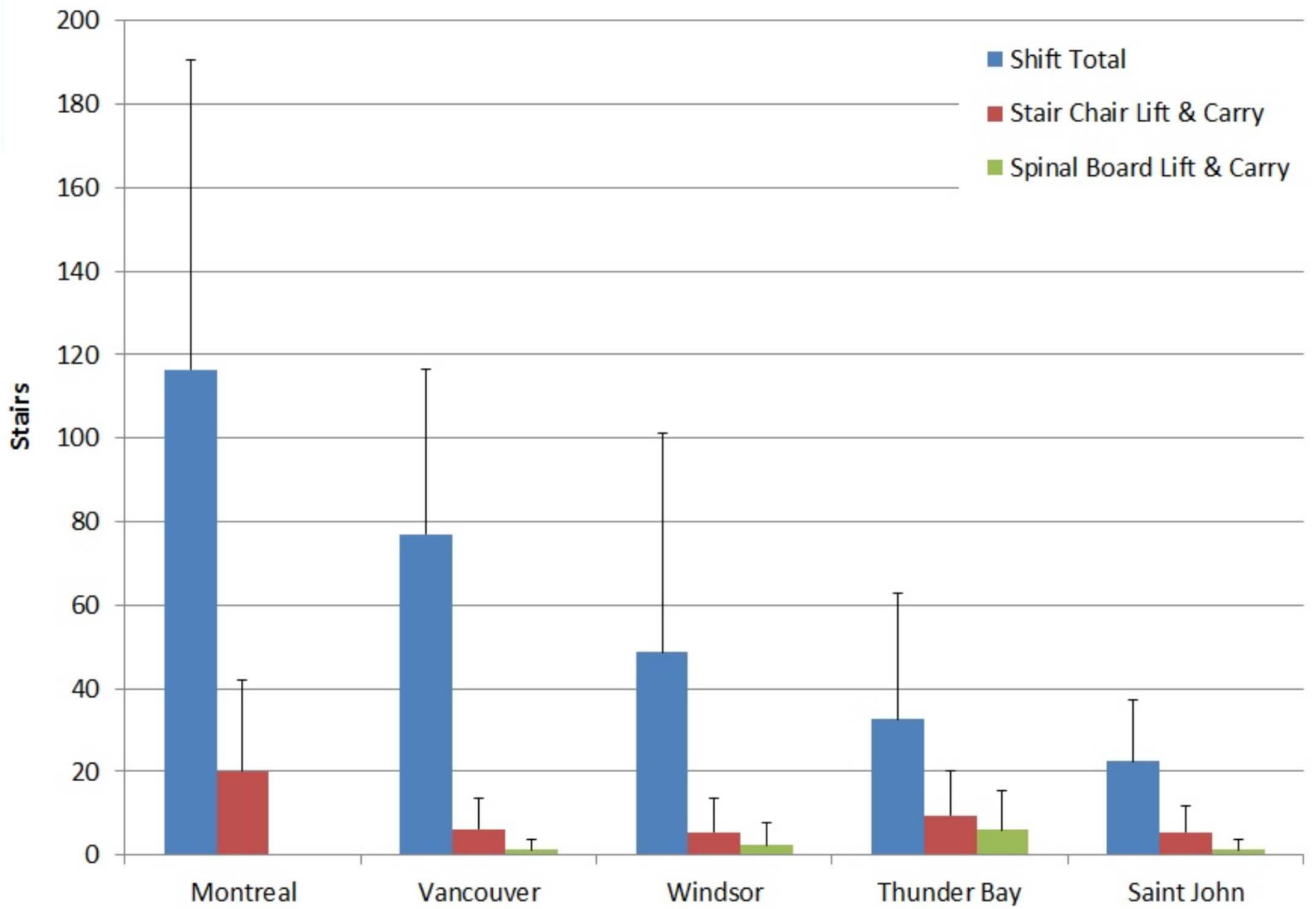
[http://www.paramedicchiefs.ca/docs/DRDC-RDDC-2014-C158\\_Document.Physical%20Demands%20Publication.pdf](http://www.paramedicchiefs.ca/docs/DRDC-RDDC-2014-C158_Document.Physical%20Demands%20Publication.pdf)

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# Canadian Standards Framework

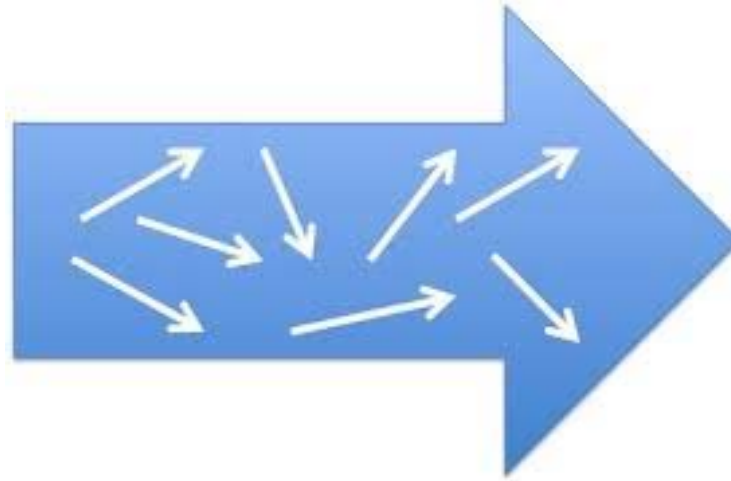


Paramedic Chiefs  
of Canada

Chefs Paramédics  
du Canada



CSA  
Group



Paramedic Association of Canada  
Association des Paramedics du Canada

<http://pubs.drdc-rddc.gc.ca/BASIS/pcandid/www/engpub/DDW?W%3DSYSNUM=800399>

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# Main Elements from Standards Framework

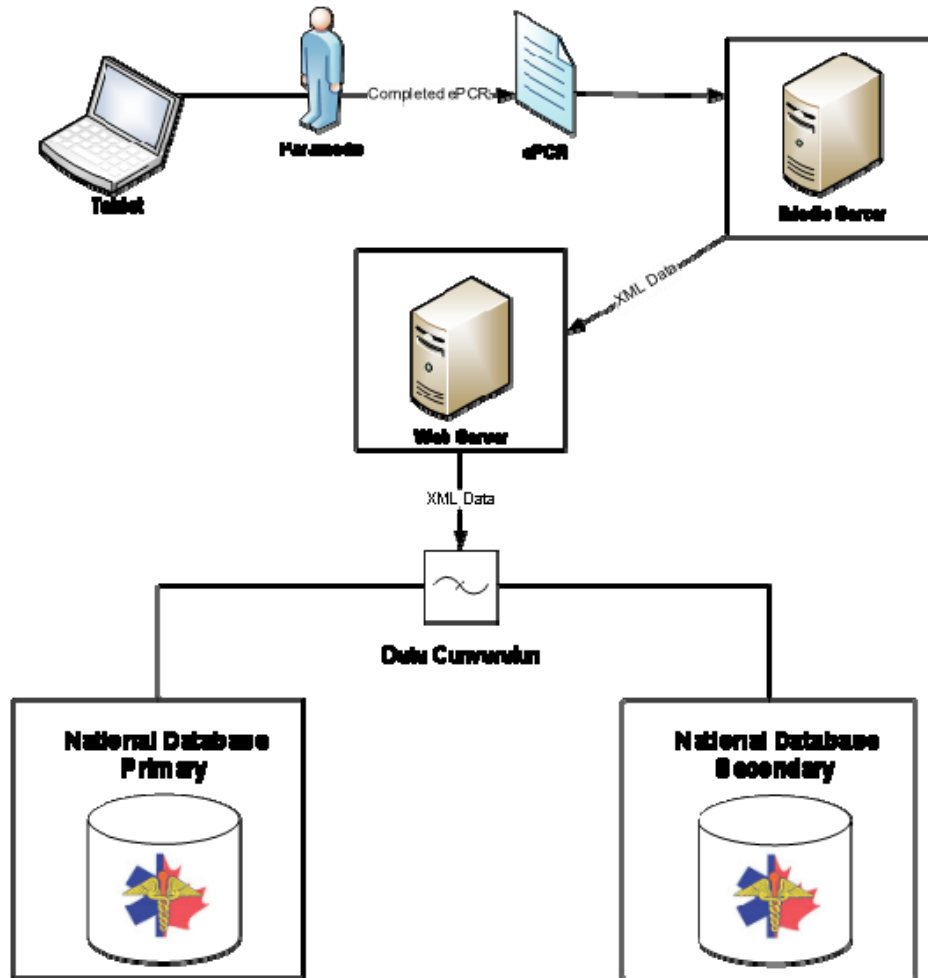
1. Equipment
2. Facilities
3. Paramedic Services
4. Personnel
5. Communications
6. Program Management
7. New Technology
8. Emergency Management





# National Database

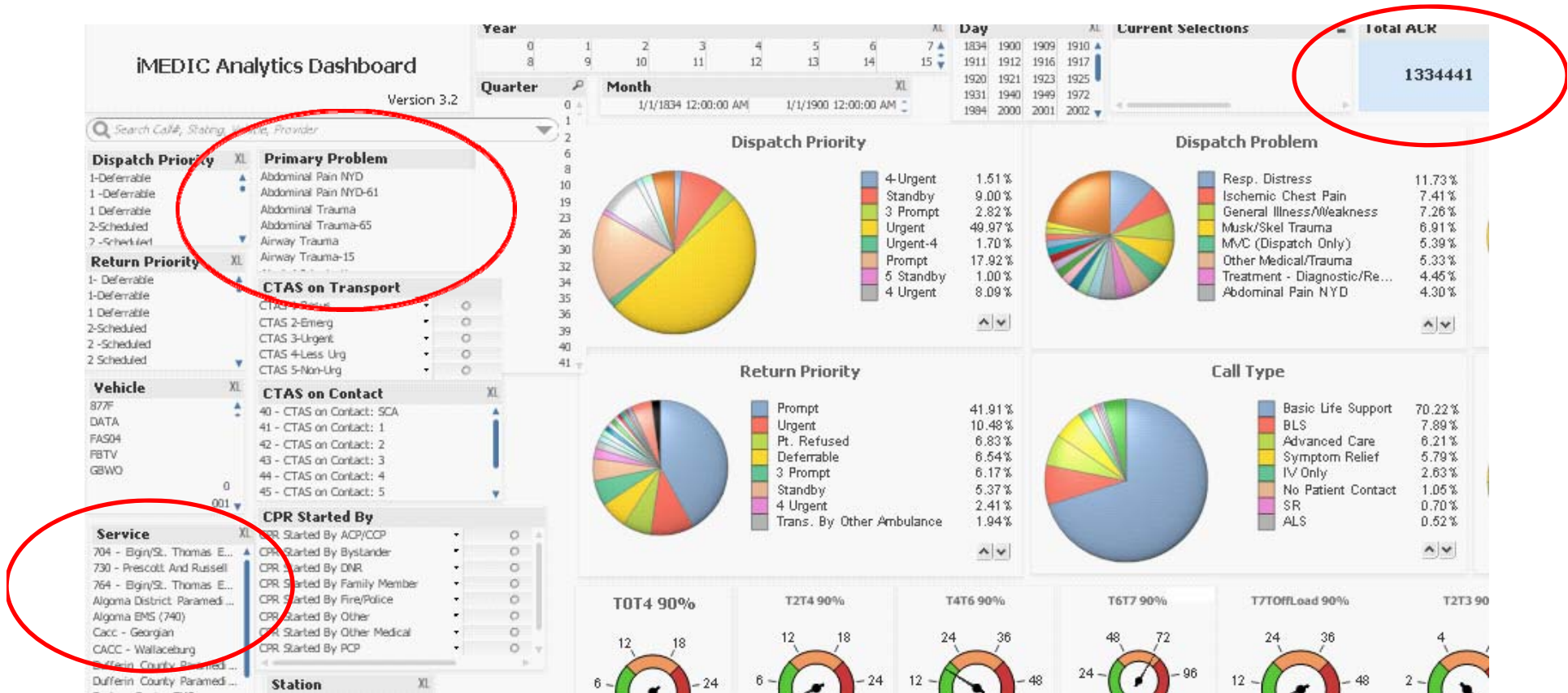
Canadian EasyView Data Dictionary Architectural Overview



# National Database



# Database for this presentation



# Opportunities





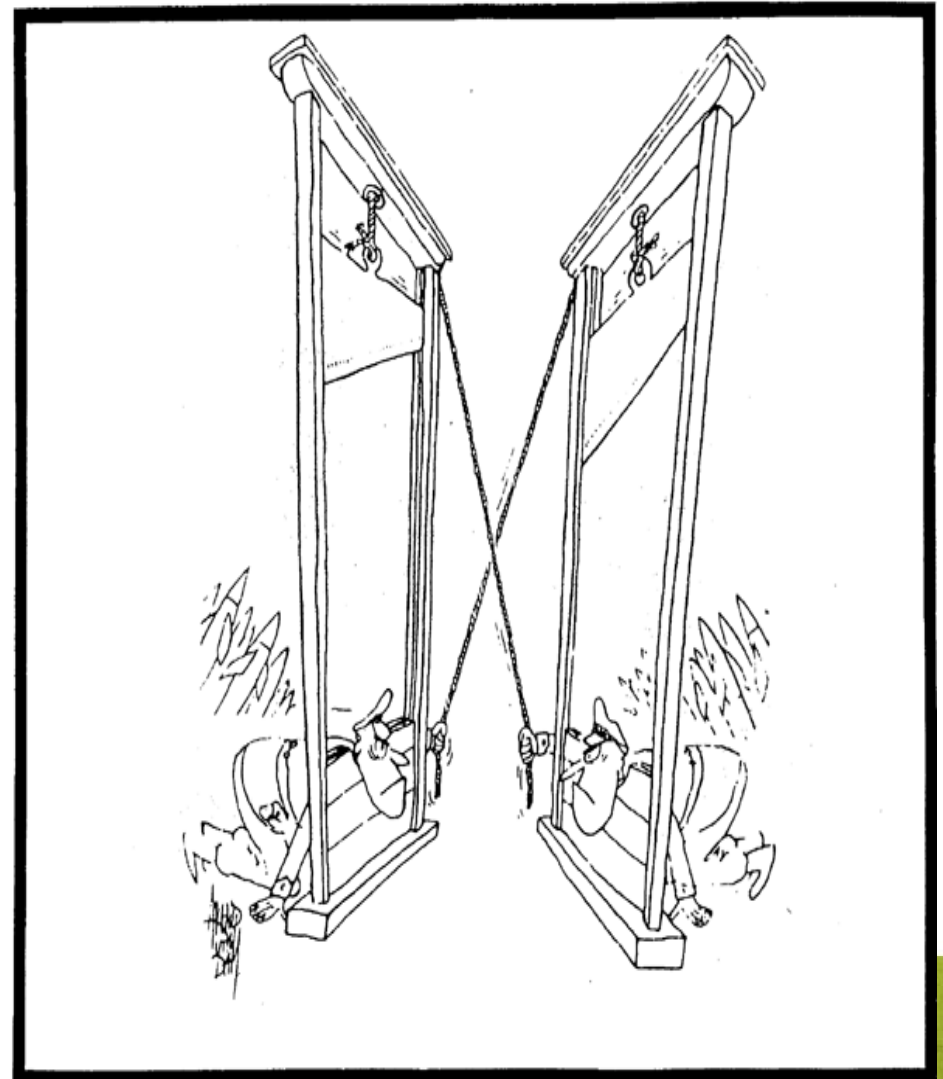


# Paramedic Community of Practice Ranked Priorities (2015)

rank	area of research	CSSP
1	Technology/Standards development	1.2.3.4.
2	Infection Control	1.2.3.4.
3	Mental Health/psychological resilience	4.
4	Economics/Performance Metrics	1.3.4
5	Physical Demands Analyses/workplace	3.4.
6	Specialty Services/community paramedicine	1.3.4.
7	Education	4.



# Non Traditional Partners



# Summary

If you don't change your world someone else will.

Everyone has something to offer.

Non Traditional Partners and further research needs to be part of the solution.





# Dialogue



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