

Impact of Technological Evolution on Leadership



Paramedic Chiefs
of Canada

Chefs Paramédics
du Canada

Doug Socha
Chief

Hastings-Quinte Paramedic Services
Global Paramedic Leadership Alliance
UK, March 22, 2019.





2005





ISE

MAOMIS

THINK

सोचिए



ΣΚΕΨΟΥ

DENK

PEN

\$300,000

Who is Stoker?

(FOR ONE WELCOME OUR
NEW COMPUTER OVERLORDS)

\$1,000

\$1,000,000

Who is Bram
Stoker?

\$17,973

\$200,000

WHO IS
BRAM STOKER?

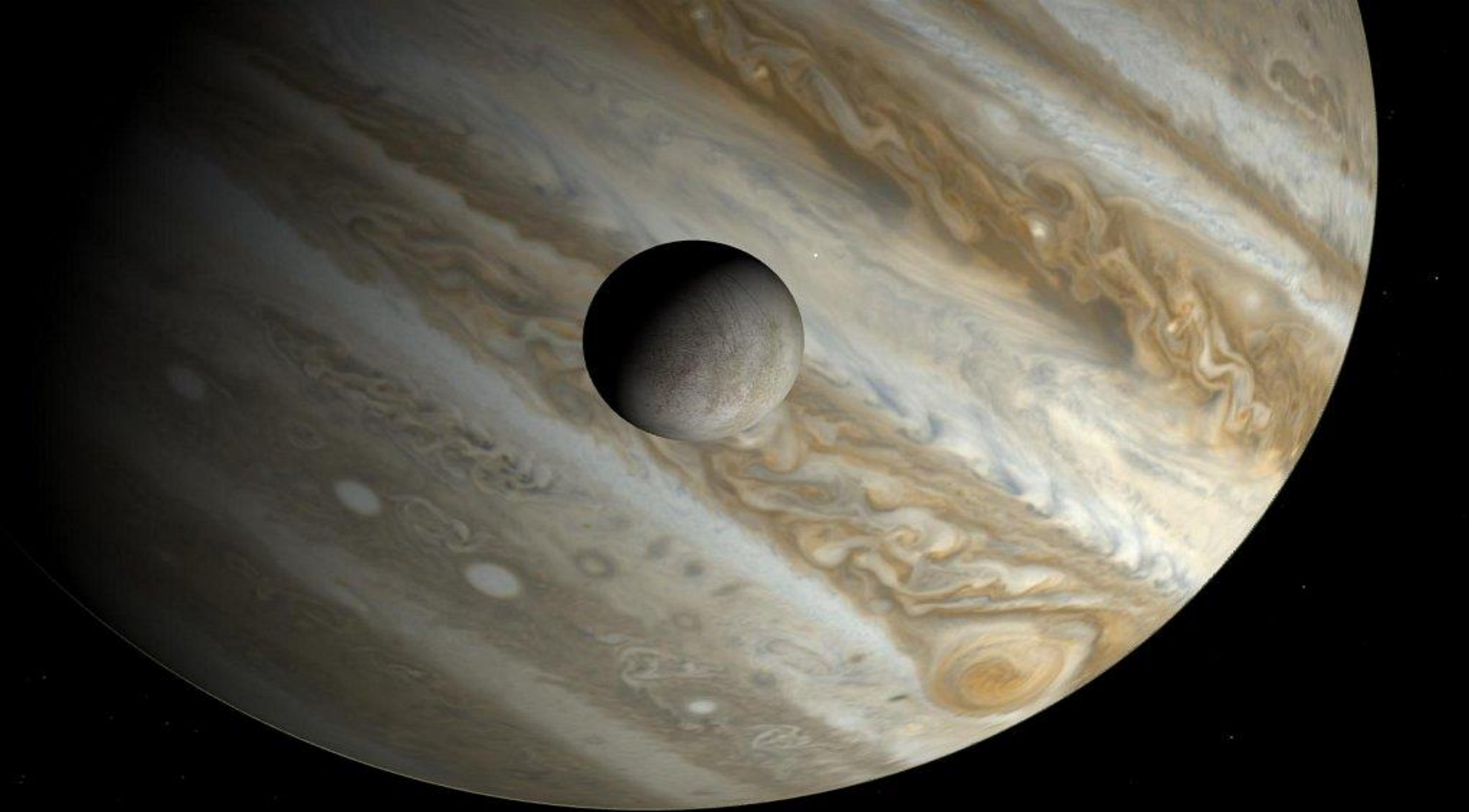
\$5600



ALPHAGO
00:01:00

LEE SEDOL
00:01:00







Dispatch (Communication Center/Call Dispatch)

Format	JSON - Simulated
Exchange Medium	Historical PHI altered, live from simulator, DPCI answer simulation
Owner	Interdev



AceTech – Auto Vehicle Locator

Format	JSON – Live from vehicle AVL
Exchange Medium	
Owner	Interdev



Zoll – (Defibrillator/Patient Vital Monitor)

Format	JSON – Simulator used with real device
Exchange Medium	
Owner	Interdev



iMedic – Patient Medical Records Platform

Format	JSON – real iMedic used with simulated Call
Exchange Medium	
Owner	Interdev



VitalTag

Format	Assumed JSON
Exchange Medium	MQTT via MQTT Broker
Owner	Interdev

MQTT Broker (Tablet)

Format	MQTT
Exchange Medium	MQTT via MQTT Broker (TCP/IP)
Owner	Interdev

Historical Data

Format	JSON
Exchange Medium	JSON files delivered by Email
Owner	Interdev

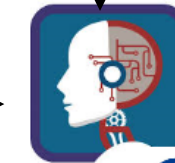
Interdev to AUDREY (push/pull conduit)

Format	
Exchange Medium	REST Services -> doc. to JPL
Owner	Interdev

WAMS - AUDREY to Responder/Hospital

Format	Voice, Txt, Images
Exchange Medium	Android (Cell)
Owner	NASA JPL

INTERDEV



AUDREY NASA JPL

MQTT Broker 2?

WAMS
AUDREY Front
End UI



Paramedic

4G+LMR



Hospital/Physician



REGIONAL PARAMEDIC PROGRAM
FOR EASTERN ONTARIO

Patch Form # [REDACTED]

Date: 18/1/2018 Time: 20:28 Paramedic # [REDACTED] ☐ ACP ☐ PCP

Pt Age: 78 y.o. Sex: ☐ M ☐ F Weight: _____

History: 6:30 p.m. chest pain
78 years old - Male patient -
No past medical Hx - ?? Atrial
Fibrillation - severe chest pain
Past Med History: and sweating -
12 lead ECG ST Elevation
Medications: Anterior lead - No
changes in Inferior lead
Allergies: Nitroglycerin Given
Physical Examination: For the pain -
But patient still having
severe pain.

Treatment(s) provided by Paramedic and Response:
order Given To Give Morphine 2mg
Then Another 2mg as needed while
B.P. maintaining
Physician Orders:
* 30 min away From KGH

OHIP NO. [REDACTED]

Paramedic Repeated Orders ☐ Please Review (explain on back): ☐

Receiving Hospital: KGH ETA
MD Name (Print) CPSO # MD Signature

[REDACTED]

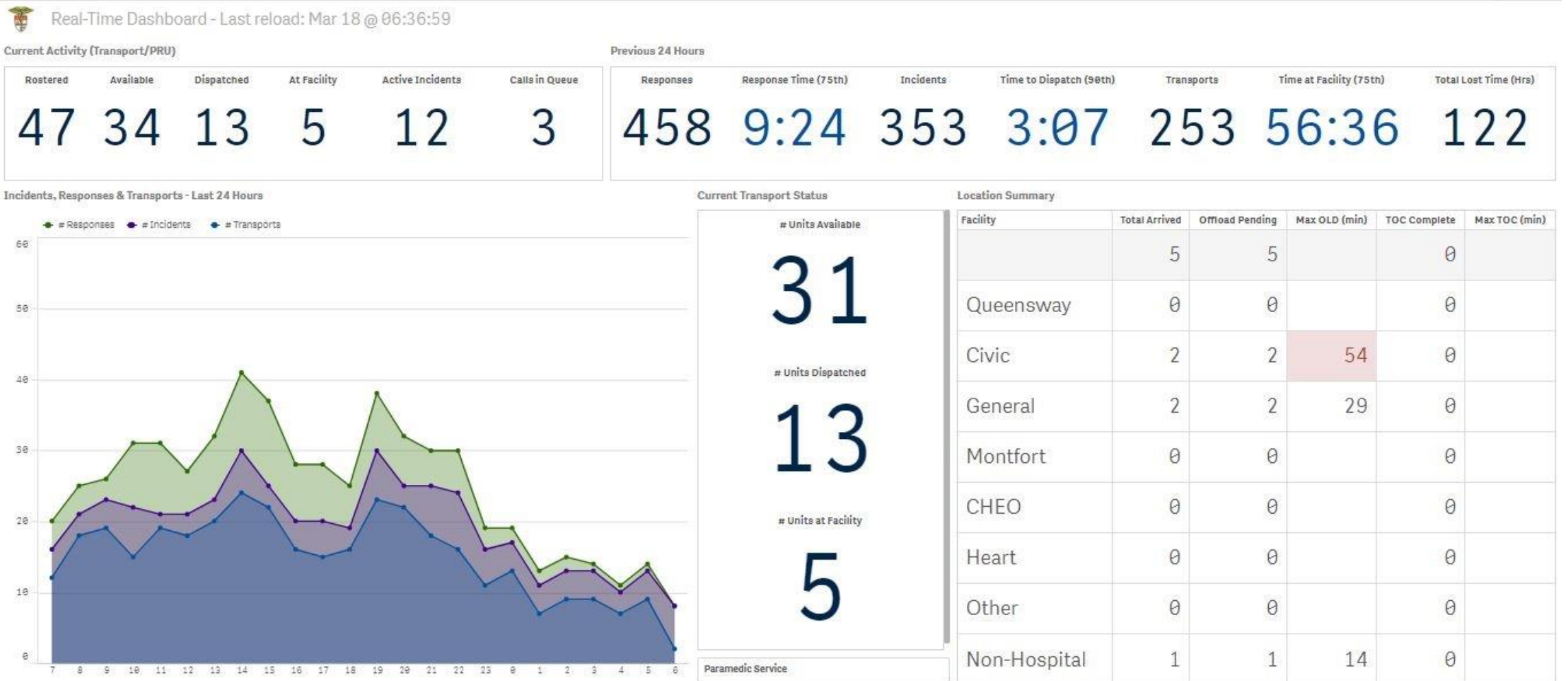
LMC-060586:SCRIBE_Hastings kyun\$ pythonw SCRIBE_Hastings.py
January 28th 2018 20 hours 20 minutes 32 seconds
Stana Katic
8 p.m. this evening to developing eyes downward
yeah okay sorry around 6:30 p.m. there's seven year old female patient started having a suffocating feeling in your stroke
Stop store and in for a job for the pay scale for
there's no wait at all that I can call right now
it sounds like you said with my type 2 diabetes and it sounds
like it would have been a free blood pressure from previous
case is the name Jonathan
good night.
Andrew speaking of July she did have some spreading when it's
on an initial onset but has helped excited 96% on room air y
eah and I was wondering whether or not to give her secret I'm
a little bit of time working for the pain okay cuz I know th
at is so sad my close friends what's up with her blood pressu
re 55 over 82 with her heart rate is 65 respirations were nin
eteen ninety six or seven email
tyranny changing the streets like to 3 a.m.
I don't see it very very little dangerous that's nothing to s
uggest right-sided involvement
I can give morphine like 5 milligram
okay but you need to keep watching the ball depression and fi
ve milligram even though of the vision still complaining step
ping on the blood pressure still maintaining you can give ano
ther 5 milligram and after ten minutes to 4 testing and Emma
and stuff that start at two milligrams able to 5:35. Again wi
th respect to what's the purpose with it and if it's even too
trusting in the ass but if it's not reading the chest pain t
o be very processed yeah you can go you can I have your numbe
r please phone number 318-48
oh hit your number so that way there you can really to the ca
th lab

patch_form.txt x

- 1 January 28, 2018, 20:20
- 2 78 year old female patient
- 3 6:30 p.m.
- 4 suffocating feeling in her throat
- 5 type 2 diabetes
- 6 BP: 155/82
- 7 HR: 65
- 8 Sat: 96%
- 9 morphine 5mg
- 10 morphine 5mg
- 11 chest pain
- 12



Real Time Data and Dashboards

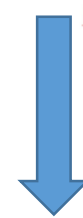




What if ?



AUDREY



As
Leaders
Are We
Prepared?

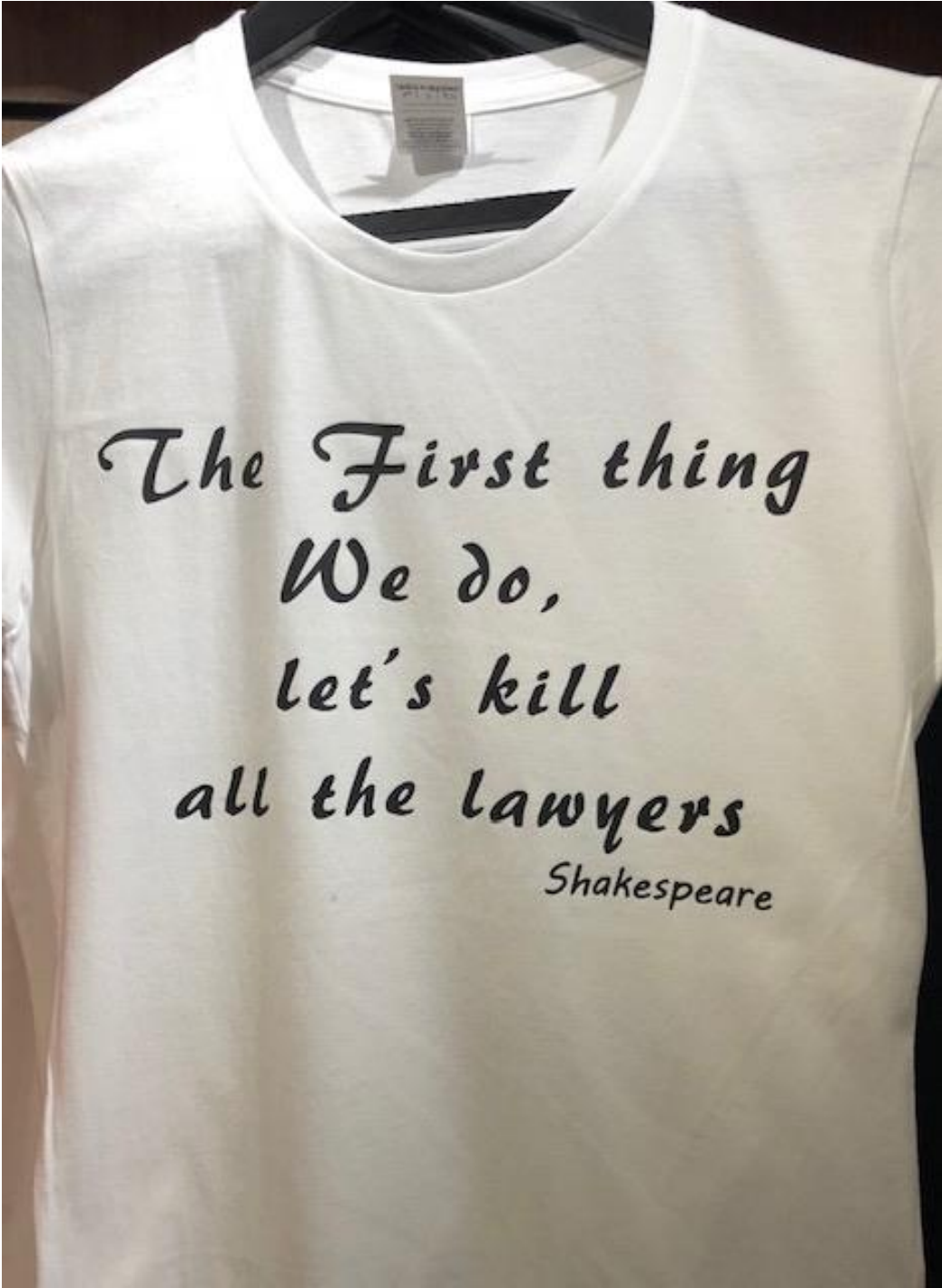




“640K ought to be enough for anyone.”



“The only thing greater than the power of the mind is the courage of the heart”



*The First thing
We do,
let's kill
all the lawyers
Shakespeare*

Technology:

Don't Get Left Behind!

Doug Socha
Chief
Hastings-Quinte Paramedic Services
sochad@hastingscounty.com



@sochad

