



Reducing Alcohol-Related Harms and Costs in Quebec:

A Provincial Summary Report

Introduction

\$OFRKRO LV FRQVXPHG LQ PDQ\ FXOWXUHV DQG VRFLHWLHY
H[FHSWLRQ \$OFRKROVHG ZLWK DSSUR[LPDWHO\ GLIIHUHQ
SUREOHPV DQG LV RQH RI WKDWKHDOGGGLMDFWLRQWRLQ 1RUV
HW DO :+2 5HVHDFK VKRZV WKDW WKHUH PD\ E
ZKHQ DOFRKRO LV FRQVXPHG DRWHOVDWYHOV +RZHYHU DO
FRQVXPSWLRQ FDXVHV PRSUHSHREOHPV 2WKDQ LKHUH LV D
HYLGHQFH EDVH WKDW LGHILWHLUHQWYRQDOWKIDWF\$ULYHQ

GLPHQVLRQV GLVFXVVHGWKROVRIZLGRVGHVHDSUCLEWKHDOWK
2UJDQLJDWLRQ :+2 DQ & HVMKHU & DQD 6XBVWDQFH \$EXVH
1DWLRQDO \$OFRKRO 6WUDWHJ\ &&6\$

\$ VFRULQJ UXEULF ZDV VHW WR HVWLPDWH WKH OHYHO RI
VFRULQJ UXEULF ZDV SHH W HUHQD WZRG BEOLW & BHSKRIQVV 7KH
VFRULQJ UXEULF FRQVLVW VGRPHQZHRQKWKGLSKRDLUH HDFK F
VHYHUDO VFDOHG LQGLFDWRU RYHIDQFXH ZDV) VBRWHGHDFDLQV
PHDVXUHV ,QR DGMHUWKH FDUORFXLQFLDO VFRUHV IRU HDFK S
LQGLFDWRU VFRUHV ZHUH ZVDEXODVRXGWR RREDFLRQQG UDR
JOREDO VFRUH IRU HDFK SURYLQFH FHLDFQRVLRQDOVKH UDZ VF
SROLF\ GLPHQVLRQ ZHUH Z\$DJKRHWKQ & FRXPPHGHUH H[SUHV
SHUFHQWVGHJHLGRH D\O VFRUH

'DWD IRU WKLV SURMHFW LFDLDO & RORXUFWM G 5HUSUPHR HQWDWLY
UHOHYDQW PLQLVWULHV SURYDLGHVGRWZKHQQLVQLFHVVDU\ DQG
ILQDO GDWD VHW)LQDO &V WKORVZRLDQDQGS&ERFWWHVWLQJ
EOLQGHHGDWD WKH ILQDQWFORUHWVEZDOWHGHGHSGZGLJKWH
PHPEHUV LQ RUGHU WR SURGXFH WKH ILQDO SURYLQFLDO U

The Situation in Quebec

Context

Alcohol consumption and related-harms

,Q 4XHEHF UHFHQW WUHQQV VKRZ WKDW DOFRKRO FRQVXP
DOFRKRO FRQVXPSWLRQ WKH DQ & HVMKHU & DQD 6XBVWDQFH \$EXVH
4XHEHF LQFUHDWV IURP WUHVV RIHSIXLH XDUHFKVW & DQDQ
D 7KLV UHSUHVHQWV DQGLD&ERHRO RRQVXPSWLRQ LQ 4
SXWV 4XHEHF DERYDHWKJGDWYLRQDQKSHUDR&WLKH QDWLRQ
DYHUDJH DOFRKRO FRQVXPSWB&XQ&ELOWKHSHDW&DSLWDW
DOFRKRO FRQVXPSWLRQ LQ 4XHEHF ZDV ORYZHUDJIRP&ZHHGH
LQ WKH VHFRQG SDUW RI WKH DQ & HVMKHU & DQD 6XBVWDQFH \$EXVH
EHJDQ WR VXUSDVHWHJHQD WLRQ DQGLDQGXHLWRODKH ULVH L
FRQVXPSWLRQ RI ZLQH LQ 4XHEHF VHH)LJXUH 6WDWLVV

6LPLODUO\ EHWZHHQWKH DQ & HVMKHU & DQD 6XBVWDQFH \$EXVH
VLQJOH RFFDVLRQ DW OHDWMDRQPIRQJFWQDQKOLDFXJOWV DJH
ROGHU DQG DFURVWDRWLKWHRQ&DQDQD

)XUWKHUPRUH DFFRUGLQJ &RRP&KHLW\ +&HDDQGLD&UYH\±0HG
WKH OLIHWLPKRODWHXRH DQF&HSHQLGHQDFWQZ DORZHWJLQ 4XHE
WKDQ LQ &DQD&D WDLVWLVFV &DQZHYHU WEJHGG DQDO

XVLQJ WKH WZR VXUYH\V IURP DQG LV QRW SRVVLEO
LWHPV 3HDUVRQ HW DO

\$OFRKRO DOVR SOD\V D VROH 4XHEWYWKH EDUWYUWZKR ZH
IDWDOO\ LQMXUHG LQ D URDG FUDVK LQ KDG D EORRG D
OHJDO OLPLW RI 6\$\$4 D)LQDOO\ DFFRUGLQJ WR
KRVSLWDOLVDWLRQV ZHUH LQVXLEHFWDEOH WRHDFRWRDO

Figure 1: Per capita alcohol consumption in litres of pure alcohol, per person age 15 years and older, Quebec and Canada, 1990 to 2012

6WDWLWLFV &DQGD D

Recent Developments in Alcohol Policy in Quebec

7KH IROORZLQJ LV D VXPEDUWHDIRSRFHVRV WGHDOFRKRO SRO

x 'ULQNLQJ DQG 'ULYLQJ \$VHRK\$DWLQ QV ZKLFK UHTXLUH
KDYH D %\$& RI ³JHUR\WRRWHBDOFHWR DGSLOYHUV ZLW
SHUPLW RU SUREDKVIRGCHUM EXWHQVHR WR DOO GULYHU

DOFRKRO FRQWHQWS EHHURXU) FGLIHIFDPRQW LQDW N PRSULHFHV DU
DFFRUGLQJ WR DOFRKRO VWUHQJWK RI EHHU)XUWKHUPRU
LQGH[HG WR LQIODWLRQ DQQXDOO\

FRUQHU VWRUHV DQG ~~JURFRKROV~~ ~~WIRJXODWRKH~~ DJHQF\ WKH
DOFRROV GHV FRXUVHV HSRGHW ~~LRQXHG~~ 5\$GHLWKH 0LQLVW
6DIHW\ 3RVLWLRQLQJ WKHQ ~~GHJXODWRKH~~ ~~WVLPQ~~ ~~QRUVDUFRKRO~~ KHOS
WKH KHDOWK ULVNV DVVRFLDWHG ZLWK DOFRKRO FRQVXPS
DURXQG WKH UHJXODWRKH ~~RXUDWRKH~~ ~~RUUDUWH~~ 6\$4 KHOSV
(GXF\ \$OFRRO D QRW IRU ~~SURWHG~~ ~~MURJ~~ ~~IG~~ ~~XJ~~ ~~FDWLRO~~ ~~GHKHL~~ SXEO
DOFRKRO XVH eGXF\ DOFRRO LQIRUPV WKH SXEOLFRQVGL f

DQG ZDV UDQNHG KHLJKW S K RRYLQ RHW WLHG ZLWK 3ULQFH (GZ
GLPHQVLRQ BIDSYKDVODEE LQ LW\

Promising practices: 5HJXODWLRQV LQ 4XHEHF SURYLGH RSSRUWXO
UHJDUGV WR WKH SODFHDPHQWRQRISBHPSLVHPRXWOHWV (DFK O
DSSOLFDFWLRQ LV DQQRXQFHGQLQDD QSSRSYBISDQ D\$ OFRWRO S
GD\ V RI WKH QHZVWVDBEUDSQRXIQFF LQ D WFKHW DR QHQ RZ HDYSU
WKH 5\$&- ZKR PDNHV WKH ILQDO GHFLVLRQ DV WR ZKHWKHU

7KH KRXUV RI RSHUDWLRQ RI DOO DOFRKRO RXWOHWV DUH
SODFHG XSRQ HDFK SHUPLWFRQWUROO BHW W MRUHZRIPK DOFR
LV PDGH DYDLODEOH WR WKH SXEOLF

Areas for improvement: 7KHUH DUH QR UHXHDFWWRQW LQ L W WKH G
RQ RU RII SUHPLVH DOFRKROVRXQVHCHWLV\ 7KHDOIRSKURO RXW
LV WKH VFRQGLKJKHVW DZLRQK DSSUW[KHP SWRQLQFRVI SUH
SHU FDSLWD DJHV W H D B Q S Q G P R O G H R X W O H W G H Q V L W
KLJK UHODWLYH WR WKH R V K S L U H B U R Y I R Q F W H V Z L W S H U
\HDUV DQG ROGHU

ORUHRYHU WKURXJH D O F K D O O F R O R O L W D L V S R V V L E O H W R E X
GD\ KRXUV SHU GD\ G R X U D Z H H N D P H K H D P I X Q W L O
SP IRU RII SUWFLVGRXQW HO GDDPRWKRQOSUWPLVH RXV
\$OVR H[WHQGLQJ WKH KRXUV RI RSHUDWLRQ RI RQ SUHPLV
VSHFLDO HYHQWV RI PXQLFLSDO SURYLQFLDO QDWLRQDO

,Q EULHI WKH KLJK GHQVLWV R H W R W D L O R R W O H V R S H U D W L R
RXWOHWV LQ 4XHEHF PDNH DOFRKRO UH DGLO\ DYDLODEOH

Recommendations: 7KH GHQVLW\ RI D O R R O B O L B H W O O W E H V O L P L W H O
WR WKH VL]H RI WKH SRSXODWLRQ 7KLV FRXOG EH GRQH Z
MXULVGLFWLRQV OXQLFLSQQQLRQ UQ D B Q G R X U E D O S V O R E H X V
WKH S O D € 0
MXUH[WHQGLQJ WKH KRXG IP•0

UHIHU WR WKH 0\$'' & DQDGLDO DO BOG YHODUWLVRIU\$HOL HZJL6RO
HW DO

7KH VHOHFWHG LQGLFDWRUV SRIOUFIVPIQDW XUKHUVW KD SHMIIH
GHDWKV DQG LQMXULHV FDXQJHG EUGUWLNFLWLRQGRQUOYEHO
JUDGXDWHG OLFHQVLRGJUSYRIUVDZKILFUKDGRSWHVDQJFH SROLF
GULYHUV XQGHDJH RLDZLVRI OHVHMSKIDQHQAHDZKLFK LV
DFFRPSDQLHG E\ HQJXODWLRQRUWHKPHQWHEWXLUHPOLFHQVLRQ
VXVSHQVLRQV DQG UHYRFDWLRQV DV ZHOO DV D PLQLXP
IRU GULYHUV ZLWKRU \$B&HRI D DDFRQWUJQLWLRQ LQWH
SURJUDP IRU IHGUDYDLQSDILHGHG HUK HWFDFRFDWVQIGZGMLQLV
VDQFWLRQV DV ZHOO DV UHPHGLDO SURJUDPV IRU UHSHDW

%DVHG RQ WKH GDWD FROODFWLQGHYES SRSU'W&BQWKH UHSF
KDG WKH ORZHVW VFRUH DPRQSROKHFSGRPHQVHLRQRZLWIKD
+RZHYHU FKDQJHV LQ UHJXODWLRQ DGRSWHG LQ LQ 4X
LPSOHPHQWDWLRQ RI WKH JHUR WROHUDQFH UXOH IRU GUL
FRQWULEXWH VLJQLILFDQWO\ WR DQ LPSURYHG VFRUH LQ V

Promising practices: /LNH PRVW RI WKH SURYLQFHV 4XHEHF KDV D
LJQLWLRQ LQWHUORFN SURJUDP DQG D UHPHGLDO SURJUDP
LPSDLUHG GULYLQJ YLRODWLRQV 6LQFH -XQH DGPLQL
IRU GULYHUV ZLWKRU%PRURIDQG RU PRUH ZLWK PRUH V
IRU UHSHDW RIIHQGHUV

Areas for improvement: 4XHEHF KDV QRW LPSOHPHQW HJUGULYHUV Z
%\$& EHWZHHQ DQB DOO ZWKU SURYLQFHV GR

Recommendations: ,PSOHPHQW DGPLQLVWUDXWIKYBVDQEQHRLQLFHQV
VXVSHQVLRQ RU WKH UHJLVWRUDVURQHRUIVGZLPHKUIDW%\$RLQHWZ
DQG

5. Marketing and Advertising

7KH &DQDGLDQ 5DGLR WHOHWLRRQ&RPHVFRPRQ&5D& LV V
ERG\ UHVSQRVLEOH IRU WLVWLVWJXODFWKROVDGQHWKWL&RGH
\$GYHUWLVLQJ RI \$OFKROFLXUHQMUDHBLD FOLPDWH KDV FH
GUDPDWLFDOO\ VLQFH 57&1ZKHBJWODWLRQEMQZGHUG QV LV WK
LQFXPEHQW XSRQ SURYLQGLDORUHXQDWRUVDQWR SURQVLLQFLD
IRU DDFRKRQ DGYHUWLVLEQRQ&DWKRRHDEBMLDLQHG E\ WKH &

,Q WKH SUHVHQWFV W XPH Q WKRHQSRIOEDGJNHUWLLQJL Q Q G V FRPSU
WKH IROORZLQJ LQGLFDRKROVPDU S HARLOO FUKLOXOOW FLOXGH W
FRQWHQW WKH SKHDFXIPQW WWD QG WGYHQW DV LQUPDOLJHG V\ \
IRU UHSRUWLQJ DQG DGGUHDV LQW UFRQPS S B Q Q W W DHW ZIROOYL
IRFXV RI WKH SURYLQFLD O DLQXRUUEHMDWUQLFWZIRQLR/Q VSR
DOORZ WKH GLVSOD\ RRIQVDRHVDORRKRBJRQXIDFWXUHUV

4XHEHF UD^{wk}QNFQJ WKH SURYLQFLDRIHQWKRQ SZLW LK D VFRU
SURLQFLDO VFRUHV UDQJHG IURP WR

Promising practices: 4XHEHF UHVWRUQV WQVWKRHDFOFRKRO DGYHUWLV
ZKLFK LV UHTXLUHG E\ WKS^g & RIGWURUQ% URRDQOFFRKROLF %HY
H[DPSOH DGYHUWLVLQJ EDEW W LQISUCHFWKODWRD Q Q Q DLF R KRO
TXDOLWLHV RU SURSHUWLKMDVOKDKW QXWLYDWRXKHGDEWHDWRRU
VWLPXODWLQJ 7KH UHJXGDSULRRQRWD BQRRYULSGUWUHLIFUMHWGULQ
³RSHQ EDUV´ DQG ³SRURKLEGLHDQ/ DUKHISUDFGLF/FRXQWV D
DV KDSS\ KRXU DOVR NQRZQWIDG ³EXW´ LDUHVSRURKUDLWHG V
VSHFLDOV

Areas for improvement: ,Q 4XHEHF UHJXODHMLRQVFWRWKRHTXDQWLWV
SODFHPHQW RI DGYHUWLVLQJV 6SRQVRUVKLS RI VSRUW WH
GLVSOD\ WKH QDPHV RU ODFWYURHUVDFBKRDXFWBQXILVHG ZLW
7KHUH LV QR IRUPDO DQG FOHDU V\ VWHP WR UHSRUW PDUN

6. Minimum legal drinking age

0DQ\ VWXGLHV WQGL PDV HPWR DWH J DSO D WL Q Q LIQJS R UHW D Q W U F
UHGXFLQJ DOFRKRO FR Q X PDSUPLR Q Q D V R G Q J H S B W S O H : D J H Q D
7RRPH\ %DERU HW D T L S S H W W D R V 7KH LQGLFDWRUV
GLPHQVLRQ DUH W

VHUYLFH FRGH IRU SK\VLFLDQV WR FR^{WY}Q^{WY} FWK 6%, 5 LPHQVHR
ZLWK D VFRUH RI SURYLQFLDO VFRUHV UDAQJHG IURP

Promising practices: 6FUHHQLQJ DQG EUS^{WY}H^{WY}DE^{WY}W^{WY}HUY^{WY} B^{WY}Q^{WY}R^{WY}Q^{WY} WKH
SRSXODWLRQ DUH L^{WY}Q^{WY}E^{WY}Q^{WY}X^{WY}G^{WY}H^{WY}D^{WY}W^{WY}Q^{WY} S^{WY}K^{WY}R^{WY}J^{WY}S^{WY}J^{WY}DP LQ 4XHEHF 3URJ
VDQWp SXE^{WY}Q^{WY}ER^{WY}X^{WY}H^{WY}D^{WY}J^{WY}L^{WY}Q^{WY}J WKH XVH RI WKHVH LQWHUYHQWLQ
SRSXODWLRQ EXW DOVR^{WY} WSRU^{WY}B^{WY}J^{WY}Q^{WY}D^{WY}Q^{WY}WN^{WY}Z^{WY}J^{WY}FR^{WY}X^{WY}SV^{WY} FB^{WY}Q^{WY} KHOS LQ
VFRSH DQG SRWHQWLDO HII^{WY}EF^{WY}D^{WY}FD^{WY}DR^{WY}K^{WY}6%, 5D^{WY}DF^{WY}W^{WY}L^{WY}YN^{WY}W^{WY}L^{WY}Q^{WY}GL^{WY}YL^{WY}G^{WY}
QRW EH RWKHUZLVH EH UHDFKHG

Areas for improvement: 4XHEHF GRHV QRW KDYH DQ 6%, 5 IHH IRU V^{WY}H^{WY}FL^{WY}IL^{WY}FD^{WY}OO\ IRU 6%, 5 DFWLYLWLHV

Recommendations: &UHDWLQJ D IHH IRU V^{WY}H^{WY}EF^{WY}Y^{WY}WR^{WY}H^{WY}6%FR^{WY}GR^{WY}UV^{WY}SH^{WY}IF^{WY}UL^{WY}Q^{WY}
ILQDQFLDO DQG RUJDQL]D^{WY}W^{WY}L^{WY}R^{WY}S^{WY}UD^{WY}Y^{WY}H^{WY}Q^{WY}W^{WY}K^{WY}Q^{WY}W^{WY}L^{WY}PS^{WY}OV^{WY}Z^{WY}HR^{WY}Q^{WY}W^{WY}D^{WY}W^{WY}L^{WY}R^{WY}
FOLQLFDO SUDFWLFHV 7KH &DQDGLDQ6\$H^{WY}Q^{WY}Q^{WY}G^{WY}H^{WY}WR^{WY}Q^{WY} &R^{WY}Q^{WY}W^{WY}D^{WY}
RI)DPLO\ 3K\VLFLDQV R^{WY}K^{WY}&Y^{WY}D^{WY}Q^{WY}S^{WY}G^{WY}R^{WY}G^{WY}&F^{WY}3^{WY}G^{WY} DQ RQOLQH JXLGH
KHDOWK SURIHVVLRQDOME³\$H^{WY}V^{WY}W^{WY}H^{WY}DS^{WY}H^{WY}FD^{WY}OL^{WY}PS^{WY}DO^{WY}VL^{WY}H^{WY}Q^{WY} DOFR^{WY}
FRQVXPSWLRQ' &&6\$ RX^{WY}UX^{WY}H^{WY}EF^{WY}W^{WY}L^{WY}R^{WY}FD^{WY}ON^{WY}H^{WY} XVH RI WKLV
EDVHG UHVRXUFH ZKLFK ZDV UHOHDVHG LQ 1RYHPEHU

8. Server Training and Challenge and Refusal

6HUYHU DQG PDQDJH^{WY}SP^{WY}HR^{WY}Q^{WY}W^{WY}DF^{WY}V^{WY}DF^{WY}Q^{WY}Q^{WY}K^{WY}H^{WY}Q^{WY}S^{WY}F^{WY}UH^{WY}Q^{WY}FF^{WY}L^{WY}Q^{WY}RU^{WY}V^{WY} DQ
VHUYLFH WR SDWURQV LQH^{WY}Q^{WY}W^{WY}S^{WY}U^{WY}S^{WY}Q^{WY}G^{WY}V^{WY}H^{WY}VR^{WY}Q^{WY}W^{WY}ED^{WY}FD^{WY}OL^{WY}K^{WY}W^{WY} DO
6LPLODUO\ FKDOOH^{WY}Q^{WY}J^{WY}H^{WY}V^{WY}D^{WY}Q^{WY}GR^{WY}UH^{WY}S^{WY}X^{WY}MP^{WY}L^{WY}V^{WY}H^{WY}RR^{WY}X^{WY}W^{WY}OH^{WY}W^{WY}V^{WY} FD^{WY}
LP^{WY}S^{WY}DF^{WY}W^{WY}R^{WY}GL^{WY}V^{WY}XD^{WY}GL^{WY}Q^{WY}J^{WY}W^{WY}DF^{WY}H^{WY}F^{WY}D^{WY}WR^{WY}H^{WY}Q^{WY}LS^{WY}HR^{WY}U^{WY}WR^{WY}D^{WY}Q^{WY}G^{WY}, Q^{WY}Q^{WY}ER^{WY}WK^{WY}FD^{WY}
LQWHUYHQWLQV D^{WY}W^{WY}K^{WY}H^{WY}Q^{WY}DF^{WY}W^{WY}LY^{WY}H^{WY}HF^{WY}W^{WY}L^{WY}Q^{WY}IR^{WY}Z^{WY}F^{WY}H^{WY}GD^{WY}P^{WY}4^{WY}R^{WY}Q^{WY}E^{WY}M^{WY}FK^{WY}H^{WY}D^{WY}Q^{WY}
SURLQFHV RQ WKLV SROLF\ GLPHQVLRQ ZLWK D VFRUH RI
WR

Promising practices: ,Q 4XHEHF WKH ODZOSHURKID^{WY}FR^{WY}WK^{WY}R^{WY}CK^{WY}M^{WY}R^{WY}DD^{WY}Q^{WY}L^{WY}Q^{WY}
SHUVRQ DQG FDUULHV D ILQH IRU DQ\RQH FDXJKW YLRODW^{WY}
FKDOOHQJH DQG UHIXVDO W^{WY}PS^{WY}OL^{WY}Q^{WY}H^{WY}V^{WY}SR^{WY}IR^{WY}U^{WY}W^{WY}DF^{WY}W^{WY}W^{WY}W^{WY}W^{WY}W^{WY} 7K
WKH SURJUDP LV HY^{WY}DF^{WY}Q^{WY}D^{WY}W^{WY}HL^{WY}LE^{WY}VT^{WY}XD^{WY}LE^{WY}Q^{WY}V^{WY}W^{WY}DF^{WY}UK^{WY}R^{WY}Q^{WY}RS^{WY}SH^{WY}U^{WY}V^{WY}
7KH FRPSOLDQFH UD^{WY}W^{WY}Q^{WY}ZD

eGX^{WY}F^{WY}1^{WY}DD^{WY}Q^{WY}GR^{WY}Q^{WY}K^{WY}W^{WY}L^{WY}W^{WY}X^{WY}W^{WY}G^{WY}H^{WY}W^{WY}R^{WY}X^{WY}U^{WY}LO^{WY}P^{WY}H^{WY}U^{WY}H^{WY}W^{WY}IG^{WY}X^{WY}4^{WY}X^{WY}W^{WY}EL^{WY}FL^{WY}QL^{WY}Q^{WY}J^{WY}
SURJUDP^{WY}SP^{WY}W^{WY}L^{WY}R^{WY}Q^{WY}VR^{WY}UY^{WY}WK^{WY}H^{WY}'RZQHUV DQG PDQDJHUV RI OLFHQV
ZHOO DV WKHLU HPSOR\HUW^{WY}L^{WY}Q^{WY}K^{WY}R^{WY}V^{WY}PS^{WY}U^{WY}W^{WY}L^{WY}R^{WY}J^{WY}Q^{WY}DF^{WY}RR^{WY}IX^{WY}W^{WY}OH^{WY}J^{WY}DO^{WY}OL^{WY}
SHRSOH UHFRJQL]H DQG GH^{WY}DF^{WY}Z^{WY}L^{WY}W^{WY}FS^{WY}DF^{WY}W^{WY}DF^{WY}Q^{WY}G^{WY}Z^{WY}K^{WY}L^{WY}P^{WY}W^{WY}UD^{WY}LO^{WY}
RQ SURJUDPV^{WY}W^{WY}K^{WY}Q^{WY}W^{WY}H^{WY}K^{WY}D^{WY}Y^{WY}X^{WY}D^{WY}WH^{WY}G^{WY}DV^{WY}WR^{WY}WKHLU^{WY}HII^{WY}FW^{WY}LY^{WY}H^{WY}Q^{WY}

Areas for improvement:

10. Warning Labels and Signs

7KHUH LV OLWWOH WR QR HYLGHQFH GHPRQVWUDWLQJ WKH
GULQNLQJ EHKDYLRPHUWZKHQOLRSD %DERU HW DO \$V
SROLF\ GLPHQVLRQKZDORZHHLVKWDHPRQVFRQVLOGHBRGLLQHWKLV
+RZHYHU ZDUQLQJ ODEHDOXDGHGVEHFRQVZHUHIWQKHLU SRWH
WKH FRPSOHPHQWU\ UROROLKHHVSDPWRBRWUHHGXFLQJ DC
KDUPV :DUQLQJ ODEHOV DQG VLJQV VHUYH DV D WRRO WR
IURP DOFRKRO DQG FDQ FRQMPDLVHVRHRSLEURQWLQQZKDFK P
DOFRKRO SROLFLHV FRXOG EKWLPSOHPHQWHXGOLWVEWKHY
WKH FRQWHQW RI WKH PHWKBUHVLPEDEVIOXHEHH WLHG ZL
SURLQFHV^{wk}BRQMKIGV SROLF\ GLPHQVLRQ ZLWK D VFRUH RI
UDQJHG IURP WR

Promising practices: 7KH ZDUQLQJ PHVVDRSIOHPKIDWHGHLQ 4XHEHFW

DC
SE

,W LV SRVVLEOH WKDW ZKKIQUFSIPSDIUHQHWRWRKPHFXROWXUD
DOFRKRO FRQVXPFWLRYQ KDDVGLUHWLQQ 4XHEHF \$FFRUGLQJ
3DUDGLV HW DO IURP GXHBNIFUDVHZHURP D%UWKRWK &ROXPE
2QWDULR FRQVXPH DOFRKIRUHLTXE QVHOU DGHU QNR UPRUH ZLQH
VSLULWV DQG GULQN DOFRKRRV HCK WKKDQDBPHVQKHP RWKHU
SURYLQFHV 3DUDGLV HUPRUH DFFRUXGULWJHWR WKH &DQ
&RPPXQLW\ +HDOWK 6XUYKIN±OHQHWLPH+SDOWKQOMQFH RI DOF
GSHHQGHQFH DPRQJ GULQNHUWZDQ IORZHDQDQD4DMEHFKROI
&DQDGD E 7KHUH DUH QR RWKHU FRPSDUDWLYH VWXG
FRQVHTXHQFHV RI DOFRKRO FRQVXPFWLRQ

'HVSLWH WKHVH GLIIHUHQFHSUHWKDDVFRYRUHPBQQXPSKDLRQ
4XHEHF ZDV WKH WRUJGWLKHSURVLDFFHWKODW LW KDDGLQFU
VLJQLILFDQWO\ VLQFH WKH ODWH TV 6WDWLVLVLFV &DQD
FRQVXPFWLRQ FRXSOHG ZLWK DQ LQFUHDVH RI KLJK ULVN
LQFUHDVH RI UHODWHG KDULQV DVFDPWLEDSVLRQGRISGRSRKR
DUH FRPSOHPHQWU\ DQG FRKHFWHLQW ZD\WKHUPRGXVH DOFR
KDUPV DQG VRFLDO FRVWV \$HQGDVVRQ &3+\$DERU 7KH SR
LQFOXGHG LQ WKLV VWXGZHQWFKIRUHHQILDFD\ DQG VFRSH
UHFRRPHQGHG DFURVV VHYHUDO FRXQWULHV LQ ZKLFK DOF
LVVXH DQG DUH UHDOGLYDQVUWRRLDQFV&DLQFOXGLQJ 4XHEHF

7KLV UHSRUW KLJSDQLKWWVFXHQQHQQW DV ZHOO DV DUHDV IF
SRLQWV WR VHYHUDOHSVRKHVXQKLVSRVDFRFRQJWH[W LQ 4X
IROORZLQJV SROLF\ GHFVRIRUPYHQVSHFLDQVDDWVHQWLRQ

- x ,PSOHPHQW PLQLXP SULFSHU RMVDDQ GDDQVGRKRN VR OG
RII SUHPLVH RXWSHWVWQGGDUG GULQN IRU DOFRKRO V
RXWOHWV LQ RUGHU WR\URHGLXQFHSHKIRKRYDILFOBBYUUDJHV
- x ,QGH[DOO DOFRKRO S\$URHVLQVRLQSDDLWLRQ&3LWRWKD
SURGXFWV GR QRW EFRPH OHVV H[SHQVLYH UHODWLYH
- x &UHDWH SULFH LDYRQVWYKHVFKRUDVHQRWIOBZFRKROLF E
- x 0DLQWDLQ D VWDWH PRQRSRO\ DQG HQKDQFH LWV VRF
PDQGDWH
- x 5HVWULFW RU DW OHDRQWPKH\$WVLLQDOKBYDILFDVLOLWV
- x 0DLQWDLQ UHFHQW HNLQJWVQV RG UHGLQFHLCUHQDQG GULYL
FRXQWHUPHDVXUHV UHFKHQWVHDIRSWYHGOQJHGXFH LQM
GHDWKV GXH WR DOFRKROVMOVWHVGHVSRDILLEEHLQFKRXO
E\ VDQFWLRQV IRU GUDLQFRUKRDLVHKVEZOHRR WR

,PSOHPHQWLQJ WKHVH UHFRRPHQVIRGUSIGXEFH\DOFRKRO UH
DQG FRVWV UHTXLUHV D WUXHJDOFRKRWROHQMOWVWUHG&DEPV

WKH SXEOLF DQG WKH FRIDYDERLURXWLRQ EHWZHIHQWQLVWU
JRYHUQPHQWDO DQG QVRODOJRMDQLVDWLRQV

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\$QGHUVRQ 3 &KLVKROP ' \$QFRKRO DQG *OREDO +HDOWK
(IIHFWLYHQHV DQG FRVW HIIHFWLYHQHV RI SROLFLHV DQ
FDXVHG E\ DQFRKRO ±

%DERU 7 &DHWDQR 5(GZDUZHOXWLHVEUHEH - +LOO
+ROGHU + +RPHVRO OLYHQWHUEHUJ (5HKP - 5RRP
\$OFRKRO 1R RUGLQDUFRKROGLSWKEDWH SROLF\ ± 5HY
2[IRUG 2[IRUG 8QLYHUVLV\ 3UHV

%UDQG ' \$ 6DLVDQD 0 5\QQ ZHOIHQVQR(L) /R
&RPSDUDWLYH DQDO\VLV RIHQVLFKROFRKROVWLRQ SROHFOHGL
H

%XWW 3 %HLUQHVV UDQVNPDQ6WRBNDQFRD DQG
KHDOVXQDGD \$ VXPPDU\ RI HYLGHQFH ORZUXVSHGULLQNLQ
21 &DQDGLDQ &HQWUH RQ 6XEVWDQFH \$EXVH

&DQDGLDQ &HQWUH RQ 6XEVWDQFH \$EXVH HODWHG +D
LQ &DQDGD 7RZBURG DRXHOWXLRQ 5HFRPPHQGDWLRQV IRU
6WUDWHJ\ \$OEHUD \$OFRKROVQLRQX&DQGLDQ &HQWUH
\$EXVH +HDOWK &DQDGD

&DQDGLDQ &HQWUH RQ 6XEVWDQFH \$EXVH &&6\$ \$OF

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7KRPDV * 3ULFH S ROLFR KIR/OWURH IDG XFG KDUP LQ & DQ
3ULFH 3ROLF\ 6HULHV 25HSRDUV DGLD R V & BZDE/UMDQFH \$EXVH

9DRV 5 % 7LSSHWWV \$ 6 5HODWLRQVKLS RI DOI
DQG GULYHUV LQ IDWDO FUDVKHV :DVKLQJWRQ '& 1DWLRQ
\$GPLQLVWUDWLRQ

:DJHQDDU \$ & 7RRPH\ 7IHFVMPK PGLULQNLQJ DJH ODZV
5HYLHZ DQG DQDODWLXURI IWRP OLWHRI 6RXUGLHO RQ \$OFRKF
6

:RUOG +HDOWK 2UJDQLJDWLRQ *RQED+2 +HDOWKDSOLLWV DQG %XU
'LVHDSVH \$WWULEXWDEOH WR* 6HQH DW HGU DLV NH)DOWR UJJDQ

:RUOG +HDOWK 2UJDQLJDWLRQ :+2WR 5HGXD IR E)KH 6+DUPWXH
RI \$OFRKRO

:RUOG +HDOWK 2UJDQLJDWLRQ :+2WR DWXV U)OSRUW RQ DOFRK
*HQHYD :RUOG +HDWK 2UJDQLJDWLRQ