

4

, 16758 & 7, 216

: HOFRPH WR ~~WKRHDG~~ 6XEMFWV 5HYLHZ %RDUG +65% DSSOLFDWLRQ
WKH IROORZLQJ W\SHV RI DSSOLFDWLRQV

b

1(: RX KDYH QHYHU DSSOLHG IRU +65% DSSURYDO IRU WKLV UHV

b

• 5(9,6(' \$33(\$/RbX< KDYH DOUHDG\ VXEPLWWHG WKLV SURWRFRO IRU
HGLWV PRGLILHG LQIRUPDWLRQ

b

•

OLQN WR WKH b

- 1HZ R~~X~~ KDYH QHYHU DSSOLHG IRU +65% DSSURYDO RI WKLV UHVHDUFK SURWRFRO
- 5HVLVHG DSSOLF~~IRWLRQDQ~~ SSSUDUDODG\ VXEPLWWHG WKLV SURWRFRO IRU DSSURYDO DQG W
HGLWV PRGLILHG LQIRUPDWLRQ
- 5HQHZDO 7KLV SURWRFRO ZDV SUHYLRXVO\ DSSURYHG E\ WKH +65% EXW LW KDV EHHC

&RPPXQLW\ HQJDJPHQW VXUYH\V LQWHUYLHZV DQG RWKHU GDWD FROOHFWHG WKURXJ
SDUWQHUV

3URJUDP HYDOXDWL RQ SUH DQG RI FS\RLW\H Q\K\W\H\V RI SURJUDP HI

\$VVHVVPHQW RI WHDFKLQJ DQG OHDUQLQJ

2WKHU

1R

4 3OHDVH DWWDFK D FRS\ RI \RXU JUDQW SURS

7KLV TXHVWLRLQ ZDV QRW GLV

4 %ULHIO\ VXPPDUL]H WKH WRSLF RI \RXU UHVHDUFK DQG GHVFULE
\RXU VWXG\

7KLV VWXG\ LQYHVWLJDWHV WKH DFFXUDF\ RI H\HZLWQHVV WHVWLPRQ\ ZKHQ D SDUWLFL
FULPH 7KH SUHVHQFH RI PLVOHDGLQJ TXHQRZLQR Q\ V\ QW KHD QPHQW&REUBRABXZ/RHQ MH ZLWQHVV P
FRPSURPLVHG RU LQDFXUDWH UHJDUGLQJ WKH GHWDJXOWW RHD QRHUVHH Q\W UGHVD/U\\$DQVBQ\W
WKH DFFXUDF\ RI UHFDOO RI LQIRUPDWLRQ 'LDPRQG HW DO 7KLV LV SDUWLFXODU
H\HZLWQHVVHV DQG WKH DFFXUDF\ RI WKHLU VWDWHPHQWV LV FUXFLDO LQ ODZ HQIRUFH

4 237,21\$/ b,I \RX\RSUHPIHUXSORDG D VXPPDU\ RI \RXU EDFNJURXQG
K\SRWKHVHV KHUH

(VWLPDWHG VDPSOH VL]H QXPEHU RI SDUWLFLSDQWVb

4 'HVFULEH WKH SURFHVV RI SDUWLFLSDQW UHFUXLWPHQW LQFOX
KRZ UHVHDUFKHUV ZLOO UHFUXLW SDUWLFLSDQWV DQG REWDLQ LQI

● 1 R
○ <H V

6XUYKR X ZLOO GLVWULEXWH DQ HOHFWURQLF RU SDSHU VXUYH\ WR SDUWLFLSDQWV

: H ZLOO XVH D VVUHVW LQGXFWLRQ YV QRQVWUHVWIXO FRJQLWLYH WDVN ; TXHWL
FRPELQDWLRQIRFWDWFWRUWLFLSDQWVa PHPRU\ UHFDO3D DFLXWDBQIVDZLQGHERHPLRQFIRUFUHLQH
VWXG\ H[SORULQJ WKH DFFXUDF\ RI H\HZLWQHV DFFRXQWV DIWHU ZLWQHVVLQJ D FULPH
DQG WKH FRQVHQW IRUP ZLOO EH DGPLQLVWHUHG LQ DQ RQOLQH IRUPDW WKURXJK 4XDQ
3+4 6FUHHQLQJ 6FDQH IRU \$Q[LHW\ DQG 'HSUHVVLQRQ .URHQNH HW DO E\ DQVZHU
GHSUHVVLQRQ DQDUWQFLHSW\QWV ZLOO EH UDQGRPO\ DVVLJQHG WR HLWKHU WKH VVUHVW L

7KLV TXHVWLRQ ZDV QRW GLV

4 3OHDVH DWWDFK D OHWWHU RI VXSSRUW IURP WKH U

7KLV TXHVWLRQ ZDV QRW GLV

7KLV TXHVWLRQ ZDV QRW GLV

4 3OHDVH XSORDG D FRS\ RI DOO VXUYH\ PDWHULD OV DV D VLQJOH
SUHFLVHO\ LQ WKH IRUP WKDW WKH\ ZLOO EH YLHZHG E\ SDUWLFLSD

127(,I WKH VXUYH\ ZLOO EH WUDQVODWHG LQWR PXOWLSOH ODQJXI
VXUYH\ WKHU KHUH DV D VLQJOH SGI RU LQ WKH 237,21),/(83/2\$' VH
DSSOLF DWLRQ

).1\$/B0HDVXUHV SGI

.%

DSSOLF DWLRQ SGI

4 3OHDVH XSORDG D FRS\ RI DOO H[SHULPHQWDO FRQGLWLRQ PDW
VKRXOG EH VXEPLWWHG SUHFLVHO\ LQ WKH IRUP WKDW WKH\ ZLOO E
ZHUh H[SHULHQFLQJ WKH SURWRFRO

127(,I PXOWLSOH DWWDFKPHQWV DUH UHTXLUHG RU WKH SURWRFRO
XSORDG D FRS\ RI HDFK YHUVLRQ HLWKHU KHUH DV D VLQJOH SGI R
RI WKLV +65% DSSOLF DWLRQ

).1\$/B0HDVXUHV SGI

.%

DSSOLF DWLRQ SGI

4 ,I RWKHU SOHDVH G1Yd@ ` ...À0P° €4đ€0qYW•Pđ€đ` €0EqTVHPSSOW

1 R
 <H V

1 R

'DWD ZLOO EH FROOHFWHG LQ VXFK D ZD\ WKDW QR RQH RWKHU WKDQ WKH UHVHDUFKHU
3DUWLFLSDQWVå QDPHV ZLOO EH FROOHFWHG WR SURYLGH 621\$ FUHGLW EXW ZLOO EH G
FRQILGHQ&RLO\LLVWHQW ZLWK WKH JXLGHOLQHV RI WKH \$PHULFDQ 3V\FKRORJLFDO \$VVRFL
PHPEHU DW OHDVW ILYH \HDUV DIWHU WKH GDWH RI D SRWHQWLDO SXEOLFDWLRQ

4 %ULHIO\ VXPPDUL]H WKH SODQ IRU GDWD PDQDJHPHQW DQG GDW
ZLOO EH FRGHG LI QRW VSHFLILHG DERYH DQG KRZ ORQJ GDWD ZLO
SODQV IRU GDWD DQDO\VLV

127(b,I WKH SURSRVDO ZLOO DFFHVV DUFKLYDO GDWD SOHDVH VSH
SUHYLRXV UHVHDUFK ZLWK WKLV GDWDVHW WR TXDOLI\ DV D QHZ U

(DFK '9 ZLOO EH DQDO\]HG LQ VHS DUDWH VWUHV V LQGXFWLRQ YV QRQ\\$WUHLWKRKO F6R GS
WHVWV ZLOO EH XVHG WRH[H[DQEQA VH[VOLHH[KDSDWQHVL]H WKDW SDUWLFLSDQWV ZKR UHFH
ZLWQHVVLQJ WKH FULPH DQG DUH JLYHQ OHDGLQJ TXHVWLRQV GXULQJ PHPRU\ UHWULHY

(O H F W H G R U D I S S I R L Q W V R G R D Q G L G L D F M H V I R U S X E O L F R I

2 W K H U

1 R Q H R I W K H D E R Y H

1 R

< H V

1 R

4 237,21\$/ \$GGLWLRQDO VXS

7KLV TXHVWLRQ ZDV QRW GLV

4 237,21\$/ \$GGLWLRQDO VXS

7KLV TXHVWLRQ ZDV QRW GLV

4 237,21\$/ \$GGLWLRQDO VXS

7KLV TXHVWLRQ ZDV QRW GLV

6WDWHPHQW RI (WKLFV DQG 6XEUPH\TXLQJIG&HLQMDIOI LVFDWHS. RQbWKH DSS

, KDYH UHDG WLQHDLQBLQWU8QLYHUVLW\ 3ROLF\ RQ 3URWHFWLRQ RI +XP
LWV HWKLFDO UHTXLUHPHQWV , FHUWLII\ WKDW P\ UHVHDUFK ZLOO L
WKDW , KDYH GHVFULEHG LQ WKLV DSSOLFDWLRQ DQG KDYH LQFOXG
WKLV DSSOLFDWLRQ LV WUXWKIXO DQG WKDW LQ WKH HYHQW, DQ\OOL
LQIRUP WKH +65%

, KDYH UHDG WKLV FHUWLILFDWLRQ DQG E\ VXEPLWWLQJ WKLV DSSC

3OHDVH W\SH \RXU QDPH LQ WKH DUHD EHORZ

'DQ\D &R[

/RFDWLRQ 'DWD

/RFDWLRQ

6RXUFHR,3 (VWLWPDWLRQ

