

%RDUG RI 5HJHQWV 0HH
\$SULO
,WHP
3DJHRI

(;(&87,9(6800\$5<

,WHP 1DPH \$SSURYH@

2QH RI WKH RSWLRQLWRRKZBRDUGS, KDHYHQXHV WR WKH XQL
WKH UHFHQWO\ GHYHORSMSURFJHQWV

7KHXUSRVH RI 5HJHQWV LV WRWKGSDUWPHQW RHOYHQ LWRU
WKHSDUWPHQW RI (QYLURQPHQWSDUWPHQWOW\$K' (HUYLEFHV
\$]'+6DQG 'HSDUWPHQW RI :DWHU 5HVRXUFHV \$]':5 WR GHY
VWDWHPHQWV

7KXQLYHUNEMLSHVGV LQSLWRLEOHP VLDWRMFRQWV RIQG
HQJDJHG LQ D 4 \$ VHVLRQ KHOG LQ -DQXUDWBLDQVWKH I
SUREOHP VSDWPHQWVEOHPV VWDWHPHQWV DUH

&XUUHQWO\ ZH GR QRW XQGHUVWDQG KRZ WKH XQLTXH
DQG SRWHQWLDO RJRQH SUHFXUVRU VRXUFHV LQ \$ULJR
RUJDQLF FRPSRXQGV 92&V DQG ELRJHQLF YRODWLOH
LPSDFW RU DVVLVW LQ WKH SURGXFWLRQ RI RJRQH LQ
W\SHV RI FRQWUROV FDQ EH SXW LQ SODFH RU YROXQW
UHGXFH RJRQH DQG LPVRYNDLS•TXDHO&SVAU LLW@HQ
RI LWV 5HJHQWV *UDQWV 3URSR
5HPHGLDWH 3)\$6 3)RUHYHU &KHP

&RQWDFW ,QIRUPDWLRQ
&KDG 6DPSVRQ \$%25DG VDPSVRQ#D]UHJHQWV HGX
.HQ 3ROD\$%R [NHQ SRODVNR#D\]UHJHQWV HGX](#)

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\$ULJRQD ZRXOG EHQHILW WLFK QDQWLRQ DQG RU RSW
RSWLPDO IDOORZ ILHOG SODRZWKDOW P&QXFWJHMPZLVQGR
9DOOH\)HYHU VSRUHV

1HHG FRVW HIIHFWLYH WHFKQRORJ\ WR UHPHQGHGWH 3)\$
D FRHWWHFWLYH PHDQV WR UHSODFH FXUUHQW \$))) VXSS
HIIHFWLYH ILUH VXSSUHVVDQW

\$ULJRQD QHHGV D FRPSUHKHQVLYH DVVHVPHQW LGHQV
PLQH IHDWXUHV LPSDFWLQJ VXUIDFH DQG WWHXFOGLZDWH
VROXWLRQ RU PLWLJDWLRQ WHFKQRORJ\ WKDW FDQ OL
ZDWHU DQG DLU

\$ULJRQD ZRXOG EHQHILW IURP DQ HFRQRPLF IHDVLELO
PXQLFLSDOLW\ VLJH 7KH VWXG\ VKRXOG GHWDLO UHF\I
KLJKOLJKW SURV DQG FRQV IRU HDFK FRPPXQLW\ VLJH

7KH XQLYHUVLWLHV VXEPLWWHG WKH D SUREOHP D W D W HPH
LQ)HEUXDU\ DQG \$DQ \$%25 UHWKH ZSR SRVDOV

'LVFXVVLRQ

%DVHG RQ WWHXFOGLZDWH UJVLW\ SURSRVDOV VXEPLWWHG L
3UREOHP 6WDWHUHQWLRQ DQD V QHHG IIRUW YR WWHFKQRORJ\
UHPHGLDWH 3)\$6 3)RUHYHU &KHPLFDQV' FRQWDPLQDWHG

7KH ERIDWGVNHG WRDSYLRZH DGVHQQW)XQGLQJ WKH IROORZ
SURSRQDQHVSRQVH WR WKLV SUREOHP VWDWHPHQW

&RQWH[W

2QH GURS BQGRSCHUIOXRURDON\O VXEVDQFHV 3)\$6 RU 3)R
FRQWDPLQDWH PLOOLZDWH DQD WWHXFOGLZDWHUHQWLRQ
\$JHQF&6 (3\$ HVWDEOLVKHG WKH KHDOWK DGYLVRU\ OHYHO
QJ / EXW ZLGHVSUHDG XVLQJ RI 3)\$6 ILUH UHWDUGDQWV
WKLV FRPSRXQG KDYH IRXQG WKHLU ZD\ LQWR LPSRUWDQW
VRUEHQWV OLNH JUDQXODWHG DFWLYDWHG FKDUFRDO UHT
UHJHQHUDWLRQ \$VORUGHG FVUBRSC LV RIWHQ LQFLQH DWH
5HDGLQJV DERYH (3\$ +HDOWK \$GYLVRU\ /HYHOV DUH LPSDF
JURXQGZDWHU QDQW DQD WWHXFOGLZDWHUHQWLRQ LQ GULQNLQJ ZDWHU

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7HDP

1RUWKHUQ \$ULJRQD 8QLYHUVLW\

8QLYHUVLW\JRQD

3URSRVDO_6XPPDU\

7KH JRDO RI WKLW SURMHHFMMFLWLWR WUHFDFWRORFRFRWW UHPHG

W\SHV RI 3)\$6 LQ ZDWHU 7KH DSSURDFK XVHV DGYDQFHG V

PRGLLHG WR UHPRYH DOO W\SHV ZRIGH) \$6 QURPRZDFRQDGLXWGR

7KXVH VSRQJHV DUH FRQFRW WXFWYGLUURPFRQZD EDWHULDOV

FHOOXORVH DQG DUHYUHDQHUDEOH 3À D ` 3À €0HG `W