

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

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

,WHP 1DPH \$SSURYH@

QG +LVWRU\ RI 3UHYLRXV %RDUG \$FWLRQ

\$ULJRQD ODZ HVWDEOLVKHG 75,) IURP 3URSRVLWLRQ VW
\$%25 WKH DXWKRULW\ WR DGPLQLVWHU WKBRDQG RQ WKH
PDQDJHV DQG DGPLQLVWHUV WKH 75,) UHYHQXHV WKURXJK
UHYHQXHV

2QH RI WKH RSWLRQLWRRKZBRDUG, KDUHYHQXHV WR WKH XQL
WKH UHFHQWO\ GHYHORSHSURFHHQWV

7KHXUSRVH RI 5HJHQWV LV WRWDKHSUHWPHQW RHDYHQ
WKHSDUWPHQW RI (QYLURQPHQWSDUWPHQW) (GHUFLFHV
\$]'+6DQG 'HSDUWPHQW RI :DWHU 5HVRXUFHV \$]':5 WR GH
VWDWHPHQWV

7KXQLYHUVEMILSHVIV LQSLWRLEOHP VLDWRPHQWV DIQG
HQJDJHG LQ D 4 \$ VHVLRQ KHOG LQ -DQXUDWBLDQVWKH I
SUREOHP VSDWPHQWV OHPV 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 LPVRYNDLJ•TXDHO&PSUHVLW@HQ
RI LWV 5HJHQWV *UDQWV 3URSR
5HPHGLDWH 3)\$6 3)RUHYHU &KHP

&RQWDFW ,QIRUPDWLRQ

&KDG 6DPSVRQ \$%25DG VDPSPVQ#D]UHJHQWV HGX
.HQ 3ROD\$%DR [NHQ SRODVNR#D\]UHJHQWV HGX](#)

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\$ULJRQD ZRXOG EHQHIIHF WULRPH DFRXWLRQ DQG RU RSW
RSWLPDO IDOORZ ILHOG SODRZWKDOW P&QXFWJHMPZLVQGR
9DOOH\)HYHU VSRUHV

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

\$ULJRQD QHHGV D FRPSUHKHQVLYH DVVHVVP HQW LGHQV
PLQH IHDWXUHV LPSDFWLQJ VXUIDFH DQGRWHVHFXGLZDWH
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 WKHW D SUREOHP D W D W HPH
LQ)HEUXDU\ DQD \$G + \$DQ \$%25 UHWKH ZSR SRVDOV

'LVFXVVLRQ

%DVHG RQ WKH WKH XFDZOW UUVLW\ SURSRVDOV VXEPLWWHG L
3UREOHP 6WDWHUHQHUSMLQ R QD TV QHHG IIRFWIDYHFR WMFKQRORJ\
UHPHGLDWH 3)\$6 3)RUHYHU &KHPLFDQV' FRQWDPLQDWHG

7KH ERIDW GVNHG WR DUSULRZH D GVFHQW)XQGLQJ WKH IROORZ
SURSRQDQHVSRQVH WR WKLV SUREOHP VWDWHPHQW

&RQWH[W

2QH GURS BQGRSCHIUIOXRURDON\O VXEVDQDFHV 3)\$6 RU 3)R
FRQWDPLQDWH PLOOLZDWDQDORRQVDRHGUQQRQPHQWDO
\$JHQF86 (3\$ HVWDEOLVKHG WKH KHDOWK DGYLVRU\ OHYHO
QJ / EXW ZLGHVSUHDG XVLQJ RI 3)\$6 ILUH UHWDUGDQWV K
WKLV FRPSRXQG KDYH IRXQG WKHLU ZD\ LQWR LPSRUWDQW
VRUEHQWV OLNH JUDQXODWHG DFWLYDWHG FKDUFRDO UHT
UHJHQHUDWLRQ \$VORUGHG GFWUBRSC LV RIWHQ LQFLQH DWH
5HDGLQJV DERYH (3\$ +HDOWK \$GYLVRU\ /HYHOV DUH LPSDF
JURXQGZDWHU QHDO D QLVSRUWLVQDQ LQ GULQN LQJ ZDWHU

%RDUG RI 5HJHQWV 0HH

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7HDP

1RUWKHUQ \$ULJRQD 8QLYHUVLW\

8QLYHUVLW\JRQD

3URSRVDO_6XPPDU\

7KH JRDO RI WKLV SURMHHFMMFLWLWR WUHFDFWRORJFRWW UHPHG

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

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

7KXVH VSRQJHV DUH FRQFRW WXFWYGLUURPFRQZD EDWHULDOV

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