

H-RXQDO RI 7D[ 5HVHDUFK P

- R K Q % H Y D C F X 9 L F W R U 5 H Q R O G V

\$ E V W U D F W

,QFUHDVLQJO\ WD[ DXWKRULWLHV DUH GLJLWLVQJ WD[SD\HU VHUYLFHV DV SDU  
LQ PDNLQJ WKLV VKLIW WD[ DXWKRULWLHV PXVW EH FRQVFLRXV RI WKH H[LVWH  
EH WZHHQ YDULRXV GHPRJUDSKLF JURXSV

5HFHQW UHVHDUFK FRPPLVVLRQHG E\ WKH 8QLWHG 6WDWHV 1DWLRQDO 7D[SD\HU  
WKH GLJLWLVQJ RI DXWKRULW\ VHUYLFHV PD\ KDYH HVSHFLDOO\ DGYHUVH FRQ  
WD[SD\HUV VHQLRUV DQG WKRVH ZLWK GLVDELOLWLHV

7KHVH ILQGLQJV FRXSOHG ZLWK WKH \$XVWUDOLDQ 7D[DWLRQ 2IILFH FRPPLWPHQ  
JRRG FDXVH IRU FORVEDVHG WD[ VHUYLFHV SURFHHGV RQO\ ZLWA

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6HQLRU /HFWXUHU 'HS DUWPHQW RI %XVLQHV /DZ DQG 7D[DWLRQ )D  
0RQDVK 8QLYHUVLW\ /D 7UREH 2QOLQH /D 7UREH 8QLYHUVLW\ 0HOERXUQH \$XVWUDOLD



H-RXUQDO RI 7D[ 5HVHDUFK

7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

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7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV









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7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

VHQVH RI WKH UHODWLYH VLJQLILFDQFH RI HDFK RI WKH  
LQDELOLW\ WR XVH WKRVH VHUYLFHV,QVRIDU DV WKH IRUPHU LV FRQFHUQHG VHQLRUV DQG  
ZLOOLQJ WR XVH WKH ZHE IRU WD[ VHUYLFHV LQ WKH IX  
WD[SD\HUV /RZ LQFRPH WD[SD\HUV UDWHG WKHLU ZLOO  
IXWXUH DV VLPLodu WR WD[SD\HUV ZKRRQMUVWQHQW LZO\ WKH  
WKHVH ILQGLQJV ORZ LQFRPH WD[SD\HUV H[SUHVVHG JUH  
ZHE EDVHG VHUYLFHV WKDQ GIZKDEOMHG JRHWWHQLRDUWWDDGS  
DFFHVV LVVXHV PD\ EH D PRUH HIIHFVLYH VWUDWHJ\ IRU  
IRU HQJDJLQJ WKH GLVDEOHG RU WKH HOGHUO\3DUWLFXODUO\ LQWHUHVWLQJ DUH ILQGLQJV WKDW WKRV  
GR QRW XVH WKH LQWHUQHW PRUH RIWHQ EHFDXVH RI O  
DERXW VFHXULW\ %\ FRPSDULVRQ LQWHUQHW FRVWV ZH  
LQIUTXHQF\ RKLDFVHWDQGV LQ FRQWUDVW WR DYDLODE  
IUHTXHQWO\ FLWHV WKH FRVW RI KLJK TXDOLW\ LQWHUQ  
DFFHVV

• 7+( \$8675\$/,\$1 &amp;217(;7

\$V QRWHG LQ WKH LQWURGXFWLRQ WR WKLV DUWLFOH W  
DGRSWHG D µGLJLWDO E\ GHIDXOW VWUDWHJ\ ¶ ± LH µD S  
PHWKRG RI LQWHUDFWLQJ ZLWK WKH \$72 LQ D GLJLWDO  
 ¶ LN JR VIRWE DIDQSM\$VSDPQO\RII \ KGLX/FLFQHLDW€ DMGLYRW ZARKPH \$7/2 FRIQG &  
ZKLFK IRXQG WKDW SHU FHQW RI UHVSQRQGHQWV WKR  
ZRXOG EHQHILW DOO WKRV\ KIGHVDDPLHQ FRZQWKOWB\WLSRQ SU  
SURGXFHG DQ DFNQRZOHGJHPHQW RI WKH FRPPXQLW\ H[  
QHYHU JR GLJLWDO\ DQG D UHFRJQLWLRQ RI WKH QHHG  
RSWLRQV DQG H[HPSWLRQV 7KHVH H[HPSWLRQV VKRXOG  
GLVPHQW\ O\WVQDQJH\QROUH F\PHQW\KQGCFQZ QWR\KQW\KHR P\ARQMMB\ pXHGJQG



H-RXUQDO RI 7D[ 5HVHDFK

7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

DQG DFFHVV WR WKH LQWHUQHW LQ IRXQG VLPLodu  
UHVHDFK

RI \$XVWUDOLDQV ZLWK D GLVDELOLW\ KDG DFFHVV  
ZDV ORZHU WKDQ WKH UHFRUGHG IRU WKH \$XVWUDOLDQ  
\$FFHVV WR WKH LQWHUQHW ZDV DOVR ORZHU IRU SH  
IRU WKH \$XVWUDOLDQ SRSXODWLRQ

7KH \$%6 GDWD ZHQW IXUWKHU VKRZLQJ WKDW FRPSXWHU  
PDUNHGO\ ORZHU WKDQ RWKHU VRFLDO JURXSV QRWZL  
FRPSXWHU DQG LQWHUQHW DFFHVV

\$FFHVV WR FRPSXWHU WHFKQRORJ\ KRZHYHU GRHV  
XVH ,Q RQO\ RI SHRSOH ZLWK D GLVDELOLW\  
UHSRUWHG KDYLQJ DFWXDOO\ XVHG D FRPSXWHU LQ  
DQG KDG XVHG WKH LQWHUQHW LQ WKH VDPH WLFH

\$FFRUGLQJO\ WKH FRPPHQGDEOH \$72 HIIRUWV WR HQV  
LQIRUPDWLRQ IRU WKH GLVDEOHG ZLOO IDLO WR UHDFK D

:KLOH WKH \$%6 GDWD IDOO IDU VKRUW RI WKH WD[ VSHF  
UHVHDFK WKH JHQHUDO GHPRJUDSKLF WUHQGV LQVRID  
DFFHVV DUH FRQFHUQHG DUH EURDGO\ FRQVLVWHQW ZLW  
WKH HOGHUO\ DQG WKH GLVDEOHG LQ \$XVWUDOLD KDYH  
XVDJH UDWHV 3ULPD IDFLH WKLV SODFHV WKHVH YXOQH  
UHODWLYH WR RWKHU WD[SD\HUV LQ DFFHVVVLQJ WD[ LQ  
DYDLODEOH RQOLQH

• 'LJLWDO OLWHUDF\

7KHUH LV UHODWLYHO\ OLWWOH DYDLODEOH \$XVWUDOLDQ  
OLWHUDF\ RI WKH HOGHUO\ GLVDEOHG DQG ORZ LQFRPH  
IRU H[DPLQLQJ WKH GLJLWDO OLWHUDF\ RI \$XVWUDOLDQ  
VWXG\ E\ WKH \$XVWUDOLDQ &RPPXQLFDWLRQV DQG OHGL  
FRQILGHQFH 7KH \$XVWUDOLDQ &RPPXQLFDWLRQV DQG OHGL  
QHJDWLYH FRUUHODWLRQ EHWFHHQ DJH DQG GLJLWDO OL

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QRW QHFHVVDULO\ WKH PRVW VHFVXULW\ FRQVFLRXV 7KH  
GDWD GLVFXVVHG LQ VHFWLRQ DERYH LQGLFDWLQ  
LQGLYLGXDOV KDYH ORZHU FRPSXWHU DQG LQWHUQHW X  
IURP WKH \$XWKRULW\ ¶V ILQGLQJV WKDW WKH VH LQGLYLG  
GLJLWDO OLWHUDF\ OHYHOV

• 6HFXULW\ DQG FRQILGHQFH

7KH 17\$ UHVHDUFK LQGLFDWHV WKDW ROGHU WD[SD\HUV  
WKH LQWHUQHW WR WUDQVPLW SHUVRQDO ILQDQFLDO L  
OLNHOLKRRG RI D VLPLodu SKHQRPHQRQ LQ \$XVWUDOLD  
'LVFULPLQDWLRQ &RPPLVVLRQHU 6XVDQ 5\|DQ SURYLGHG  
WKH FDVH

ZOGHU \$XVWUDOLDQV DUH QHUYRXV ,QWHUQHW X  
\$XVWUDOLDQV DUH YXOQHUEOH WR RQOLQH VFDP  
VFDPH \$OPRVW SHU FHQW RI UHVSQGHQWV  
\$XVWUDOLD VXUYH\ UHSRUWHG WKDW VHFVXULW\ ZDV  
XVLQJ WKH ,QWHUQHW RU µLPSURYLQJ¶ WKHLU FRPS

7KH VH ILQGLQJV DUH FRQVLVWHQW ZLWK WKH PRUH JHQH  
\$XVWUDOLDQ &RPPXQLFDWLRQV DQG OHGLD \$XWKRULW\  
GLVFXVVHG7 KOLEVR YHHSRUW IRXQG WKDW VHOI UHSRUWHG F  
XVDJH DQG WUXVW IHOO ZLWK DJH

3HUKDSV WKH PRVW LQWHUHVWLQJ DQG FXUUHQW LQVLF  
FRQGXFWHG E\ 1DWLRQ DIOH6\XQLYRH\VL \$XVWUDOLDQDWLQDWHG DFFH  
µLQWHUPHG LDULHV¶ IRU ILQDQFLDO LQIRUPDWLRQ RU DV  
WKH YDOXH RI WKH LQGLYLGXDO¶V VDYLQJV DQG LQYHVW  
SK\VLFDO JRYHUQPHQW RIILFHV ZDV SHU FHQW RYH





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7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

2I FRXUVH ZLWKRXW VSHFLILF UHVHDOUFK LQWR WKH LVV  
GUDZ \$V WKH 2(&' KDV SRLQWHG RXW

6RFLDO PHGLD FDQ KHOS DGGUHVV VRPH RI WKRVH  
GLYLGHV IRU GLJLWDO JRYHUQPHQW« 7KH SRWHQW  
PHGLD WR UHDFK YXOQHUDEOH JURXSV LV FUWDLQ  
RQ ORFDO FRQWH[W \*RYHUQPHQWV QHHG WR DYRLG  
WKDW VXJJHVW VRFD\ DMR R\OGW\B \B\B R\ZHHW WHKOQHUDEO  
VRFLHW\

7KH LPSOLF DWLRQV DUH LQWHUHVWLQJ LQ D QXPEHU RI U  
UHVHDOUFK H[DPLQHV LQWHUQHW DQG HPDLO XVDJH DQG  
H[DPLQLQJ ZKHWKHU WKH EHVVW YHKLFOH IRU PRUH IXOC  
FRQYH\LQJ LQIRUPDWLRQ WR PHPEHUV RI YXOQHUDEOH J  
WKH PL[ ,QVRIDU DV GLJLWDO OLWHUDF\ DQG FRQILGHQF



H-RXUQDO RI 7D[ 5HVHDUFK

7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

LQ GLJLWDO DSSQALSRQWLFRQPRD\WUDQDQG WD[ DXWKRULWLI  
DSSUHFLDWH WKH LPSDFW RQ ROGHU WD[SD\HUV RI VKLI  
WKH\ PXVW EH DUPHG ZLWK LQIRUPDWLRQ WR XQGHUVWD  
LPSDFW RQ WD[SD\HUV ZKR DUH LQ WKHLU V ZKHQ FRPS  
V DQG EH\RQG

6LPLODU PRUH GHWDLOHG GHOLQHDWLRQV LQVRIDU DV G  
DOVR EH KHOSIXO LQ DQ\ SURSRVDO WR VKLIW IXUWKHU  
H[DPSOH WKH QDWXUH RI DQ LQGLYLGXDOP\ GLVDELOLW  
LQGLYLGXDOP\ DELOLW\ DQG SUHGLVSRVLWLRQ WR XVH  
FDWHJRULVDWLRQV PLJKW FRYHU ORQJ ODVWLQJ VHYHUh  
GH\WHULW\ SUREOHPV DV ZHOO DV SK\VLF 2 of QOOO ð





H-RXUQDO RI 7D[ 5HVHDUFK

7KH GLJLWDO GLYLGH DQG WD[SD\HU ULJKWV

WKH EDQN DQG WKH FXVWRPHU +RZH\HU WKH YLHZ DPRC



