

3UHV LGHQW RI WKH ,QWHUQDWLRQDO 2U
,QQR YDWLRQ IRU 6XVWDLQDEOH 7HUULW
2,,7,'
&R IRXQG HU DW *\$!\$,QWHOOLJHQFH \$IU
\$ELGMDQ &{WH G,YRLUH
ZZZ RLLW ~~IRU~~ GRVVR#WKLQNDQNHUV RUJ
KWWSV VFKRODU ~~JRRHOETN~~ ~~FL~~ ~~SS~~ ~~\$~~ ~~R~~ ~~6~~ ~~U~~

6XPPDU\

7KLV SROLF\ EULHI LV EDVHG RQ WKH ~~W~~ ~~K~~ ~~M~~ ~~F~~ ~~3~~ ~~V~~ ~~(~~ ~~L~~ ~~R~~ ~~Q~~ ~~Q~~ ~~R~~ ~~D~~ ~~O~~ ~~V~~ ~~I~~ ~~G~~ ~~H~~ ~~E~~ ~~D~~ ~~W~~ ~~F~~ ~~I~~ ~~L~~
V\QWKHVL]HV DQG ~~V~~ ~~W~~ ~~X~~ ~~P~~ ~~H~~ ~~X~~ ~~D~~ ~~H~~ ~~N~~ ~~W~~ ~~K~~ ~~X~~ ~~U~~ ~~E~~ ~~K~~ ~~W~~ ~~H~~ ~~H~~ ~~D~~ ~~X~~ ~~W~~ ~~K~~ ~~R~~ ~~H~~ ~~G~~ SHUVSHFWLYHV
FXUUHQW FKDOOHQJHV RI ORFDO HFR ~~V~~ ~~X~~ ~~Q~~ ~~W~~ ~~W~~ ~~E~~ ~~M~~ ~~V~~ ~~D~~ ~~W~~ ~~E~~ ~~D~~ ~~W~~ ~~J~~ ~~K~~ ~~O~~ ~~L~~ ~~E~~ ~~K~~ ~~W~~ ~~L~~ ~~R~~ ~~I~~ ~~Q~~ ~~H~~ ~~D~~ ~~R~~
\$, RIIHU IRU WKH FRPSHWLWLYHQHV ~~R~~ ~~G~~ ~~\$~~ ~~W~~ ~~L~~ ~~R~~ ~~Q~~ ~~E~~ ~~M~~ ~~L~~ ~~D~~ ~~Q~~ ~~V~~ ~~R~~ ~~H~~ ~~S~~ ~~R~~ ~~F~~ ~~R~~ ~~H~~
GHFLVLRQV DQG VXSSRUW LQLWLDWLRQ ~~V~~ ~~L~~ ~~B~~ ~~D~~ ~~D~~ ~~H~~ ~~C~~ ~~Q~~ ~~W~~ ~~L~~ ~~E~~ ~~R~~ ~~D~~ ~~D~~ ~~W~~ ~~E~~ ~~C~~ ~~H~~ ~~R~~ ~~S~~ ~~K~~ ~~W~~ ~~D~~
60(V DQG ODUJH FRPSDQLHV LQ &{WH G ,YRLUH

.H\ZRUGV LQQR YDWRURQG ~~\$~~ ~~L~~ ~~W~~ ~~D~~ ~~I~~ ~~C~~ ~~K~~ ~~E~~ ~~R~~ ~~D~~ ~~E~~ ~~R~~ ~~P~~ ~~S~~ ~~H~~ ~~K~~ ~~L~~ ~~W~~ ~~L~~ ~~Q~~ ~~H~~ ~~V~~ ~~H~~ ~~V~~ &{WH G ,YRLUH

Acknowledgments and Citation Format

:H H[SUHV RXU JUDWLWXGH WR WKH ~~S~~ ~~D~~ ~~Q~~ ~~(~~ ~~H~~ ~~O~~ ~~Q~~ ~~Q~~ ~~R~~ ~~V~~ ~~D~~ ~~W~~ ~~I~~ ~~G~~ ~~R~~ ~~S~~ ~~D~~ ~~X~~ ~~P~~ ~~I~~ ~~F~~ ~~L~~ ~~S~~ ~~D~~ ~~Q~~ ~~W~~ ~~V~~ ~~R~~ ~~H~~ ~~W~~ ~~L~~ ~~D~~
RI WKH GLVFXVLRQV JUHDWO\ LQ ~~V~~ ~~S~~ ~~H~~ ~~U~~ ~~H~~ ~~Q~~ ~~W~~ ~~K~~ ~~L~~ ~~D~~ ~~S~~ ~~E~~ ~~C~~ ~~R~~ ~~F~~ ~~Q~~ ~~V~~ ~~E~~ ~~U~~ ~~L~~ ~~E~~ ~~X~~ ~~W~~ ~~L~~ ~~R~~ ~~I~~ ~~Q~~ ~~V~~ ~~R~~ ~~S~~ ~~H~~ ~~Q~~ ~~H~~ ~~G~~
U _ 8QLYHUVLW\ RI 4XHEHF &DQDGD

‡ 3URI 'LGLHU /HER ~~Q~~ ~~M~~ ~~P~~ ~~L~~ ~~S~~ ~~S~~ ~~Q~~ ~~H~~ ~~W~~ (F6&\$*3 ~~D~~ ~~R~~ ~~L~~ ~~O~~ ~~H~~ 3RO\WHFKQLTXH &156)UDQFH
‡ 3URI .DOOH /\WLQH ~~Q~~ 'LVWLQJXL ~~V~~ ~~K~~ ~~H~~ ~~S~~ ~~O~~ ~~Q~~ ~~L~~ ~~H~~ ~~O~~ ~~V~~ ~~K~~ ~~D~~ ~~L~~ ~~B~~ ~~U~~ ~~R~~ ~~I~~ ~~H~~ ~~D~~ ~~W~~ ~~R~~ ~~K~~ ~~H~~ ~~D~~ ~~G~~ 6FKR

UHVHDFK
1RWH \$Q\ XQLQWHQWLRQDO RPLVVLRQ ~~H~~ ~~F~~ ~~W~~ ~~L~~ ~~R~~ ~~E~~ ~~O~~ ~~H~~ ~~I~~ ~~S~~ ~~V~~ ~~B~~ ~~Q~~ ~~V~~ ~~I~~ ~~R~~ ~~G~~ ~~L~~ ~~Q~~ ~~W~~ ~~V~~ ~~R~~ ~~E~~ ~~U~~ ~~L~~ ~~H~~ ~~I~~ ~~D~~
RI WKH DXWKRUV DQG FDQQRW EH ~~L~~ ~~M~~ ~~W~~ ~~H~~ ~~E~~ ~~X~~ ~~W~~ ~~H~~ ~~K~~ ~~M~~ ~~R~~ ~~L~~ ~~W~~ ~~C~~ ~~A~~ ~~D~~ ~~S~~ ~~D~~ ~~U~~ ~~Q~~ ~~H~~ ~~L~~ ~~F~~ ~~L~~ ~~S~~ ~~D~~ ~~Z~~ ~~H~~ ~~W~~ ~~H~~ ~~W~~ ~~Y~~
KHOG UHVS ~~F~~ ~~Q~~ ~~L~~ ~~E~~ ~~O~~ ~~W~~ ~~H~~ ~~R~~ ~~S~~ ~~D~~ ~~B~~ ~~W~~ ~~D~~ ~~R~~ ~~V~~ ~~R~~ ~~I~~ ~~Q~~ ~~W~~ ~~P~~ ~~E~~ ~~U~~ ~~L~~ ~~H~~
&LWDWLRQ IRUPDW

*%HQ *HORXQH 5HGGD 'RVVR ODILQL ,7(. ,QQR YDWLRQ IRU 6XVWDLQDEOH 7HUULW
)XWXUH 2FWRE ~~D~~ &{W ~~S~~ ~~E~~ ~~G~~ ~~G~~ ~~Y~~ ~~R~~ ~~L~~ ~~U~~ ~~H~~ ~~S~~ ~~D~~ ~~J~~ ~~H~~ ~~V~~ '

,QWURGXFWLRQ ,QQRYPDWLRQ DQG 7HFKQRORJXVVRUJ(E
'HYHORSPHQW LRL&HWHYRUY &RDVW

&{WH G ,YRLUH LQQRZVSRVILVPRQU WHDGHFRQWQQWQWPW RI FRQQHFWL
WHOHSKRQ\ DQG PRELOH LQWHUQHW SHQHWUDWLRQ UDWHV UHDFKLC

RUJDQLJDWLRQV ,Q VXPPDU\ GDWD B QD\ZKDFM QWHU Q W RORHQ X K Q H DW H
WKH HVVHQWLDO UHZ PDWHULDO WK Q V S O R B Z F H D P H B Q L Q K I X O W R V I X Q V
DUWLILFLDO LQWHOOLJHQFH FDQQRWH FOMIDYHQ\LP%SHUR Y H O R X Q E H G H S O R I

RD@Z,ART@A@ hDC@A@E€ €9ò%`Ñ ...G Æ55€9B5< À -Ài@UaaÀ ~UF,,D ~€R ò%`D& *A0 p ,

7KH DGRSWLRQ RI \$, LQ YDULRXV LQGLXFDQWLHVURKQXFGLFR Q V W D D Q W H G Q G
R P p À 0 T W U Y @ T • € p @ p V €
R I # S q R F B P p

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V

EHWZHHQ VWDNHNKROVGLRQDZLWQKXWPFGBBVLWKHDQSOHLOKLOLW\ RI \$, PR
WKH LQWHJULW\ RI WKH GDWD XVHG IRU WUDLQLQJ

ORUHRYHU EORFNFKDLQ RIIHUV RSSRZVMQVWLSHPDRQD JGHPHQWLEWQBSZ
VWDUWXS V WR UHWDLQ FRQWURO RYHWLQWKHUUHLVQHRUJEDJLWRDO WRKYHUW
GSHHQGHQFH RQ ODUJH SODWIRUPV

Context of Côte d'Ivoire

,Q &{WH G ,YRLUH \$, DGRSWLRQ UHPD LQHF VOR B VWHXG KDDV L V LQW XKH DQDFV
KHDOWKFDUH GHVSLWH WKH DYDLOHELOHFDIRQ GLDQFD XGXHQH URKXWWFKLDFQ
WRROV ZKLFK FRQVADLWVXWHVWR PDKMHRD GFGSMDIQFQH GR IWWFKKQRORJLHV \$Q
JURZLQJ LQWHUHVW IURP ERWK WKHLSQILYDFVHQ W DQG \$XQEHF KBFWRUHW
WKHUHIRUH LPSHULPSOYHPWRWDX LFQVQCRVQDODUMQ FHFVWUDWHJ\ DQG SU
RI WKH VXSHUFRPSXWHU ZKRVH IRXQGQWHBQDVLWRQHS,ZDV QDWRGRQD\ F
FRPSHWLWLYH LQ WKH JOREDO GLJLW DQLFKRQRHPD SEJWJDQQR RLS SRUHWX
WHFKQRORJLFDQ OHDS WKDW DOORZVGHRYHORSBPHQWQJLVGKFXQFHJQLOHYW
LQWHUPHGLDWH VWDJHV %HQ *HORXQH D

**7KH ,PSRUWDQFH RI ,QQRYDWLRQ 6XURQ\VDNRQ QIDRQ
(QKDQFH %XVLQHVV &RPSHWLWLYHQHV**

,QQRYDWLRQ UHIHURUWLQWUKRIGXUFMLQDQRIDQNZORUPSLURYHG VROXWLRQV
WDNH WKH IRUP RI SURGXFWV VHUYLFDWJDXRQQAHMWKFRGMOVQZFPUN
SURFXUHPHQW PRGHV

,QQRYDWLRQ VXUYHLP \$OLYFDWWBQWHBQEGHGLLVVXQDMDRQV RI XQFHUWDI
YDULHW\ RI VWDNRKRQGBQFH 7KIHFRVQDCHQDQDQVQDRV\VWHPV ZKL
QHWZRUNV RFGRMUVHQ WKH GHVLJQWRV UHXSRUHWIUQFWZRUPHQ DQG W
LQQRYDWLRQ SURFHVVHV DQG WKHLU LPSDFWV

,QQRYDWLRQ VXUYHSDQVLDIVJBMPLQW LFRDQLQV WWRD B BZVKHDQG KRZ FRPSDQ
VHFWRUV DQG VLJHV LQQRYDWH DQG SKURV XFKHL YLPSDFFRVP \$HWLVLQLWHQHP
JURZWK &RQGXFWLQJ LQQRYDWLRQ VXLWYHDVUHV GARMV V DQHZ VSHDF WQF
FRXQWULHV LQ 1RQXKR \$PH \$WF DV DQ \$HU IDFHQ VWHLYHQD XQKRPPRQ LUUHJXC
KDQGIXO RI FRXQWULHV

,QWHUQDWLRQDOO\ WKH 2VOR 0DQXDORSFUDREYKQDHX JXJLGHHQG QSHML QD LSPD
FRQYHQWLRQV IRU FROOHFWLQJ UHSRVLVRLQJ2 (BQGXURLVQD VGDWD RQR
LQWHUQDWLRQDO FRPSDULVRQV WKHWDRQDODQRE WLVQSERJWHIRUWYHW
LQWR DFRXQW NH\ WUHQQV LQ WKH VRIQLYHUEHQDQRF DQRE DQHFYKQX
LQIRUPDWLRQ WHFKQRORJLHV DQG EXVDQHW DQRGMDV NQRZOHGJH EDY

,Q WKH (XURSHDQ 8QLRQ WKH UHIHULQDQHLVXWKH\&RQPEXQLVQHVQQLRQDRWY
&RQGXFWHG VLQFH WKH HDUO\ VQDWDLO/QRZLVFDURQGBZRNW DRQHDJB DH
GDWD TXDOLW\ DQG FRYHUDJH ZKLFKFRSDQALGHJHW GDQGBUDHQVULHHFWRR
KDUPRQLJHG RU VWDQGDUGLJHG TXHVFLRQHDWDWHJLHWGQYDQVSHQVVRVX

D ,Q &{WH G ,YRLUH° RQO\ RH W € \ E

SURFHVV LQQRYDWLRQ GHYHORSRPHQW GLWQ BMDWDRQZB@VLDVWLRXU DQ
EDUULHUV WR LQQRYDFMQRQVXKMHRFRVYQIGXVWVKUH FLQQLXIDFWXULQJ LQG X
FKHPLFDO SKDUPDFHXWLFDO SHWUROQIXP DRQGSRSKHQWDFHXRVRIGF DQG X
PDQXIDFWXULQJ HRMFHQWVKH ZXSISOWUDDW SWUDGMLRQ ,&7 DV ZHOO DV
FRQVXOWLQJ DFWLYLWLHV

,Q WKH 8QLWHG 6WDWHV WKH %5', & RVXZYD\ DRQV E XLVQ QSILUVH GQERW
(XURSHDQ 8QLRQ +RZZR HUKUWKHV DUH QEDVE EBVG DM FRFP SCLIIHUHQFHV
FRYHUDJH DQG FRQWH[WV %DVHG RQ WHQFH V XZU\OHA LDYQQRDZ WKKH \$QH
6XUYH\ \$%6 ZKLFK SURYLGHV D PRUHRQR R B Q HCRQSWLRHL \$H\$PVSJLFFVLDQ
LQQRYDWH 7KH \$%R[EFRDWH D\SSPLDOLRQ FRPSDQL

,Q GHYHORSRSLQJ FRXQWULHV VHYHURDQH LOCHGV ED WIKYH81H6 & ZWQVQV E OXGMLH
,QQRYDWLRQ GDWD 7KH ILUVW VXUDWLQZD D PRQGXFWJXGDQ FROQLQELW
FRXQWULHV \$PRQJ WKHVH DORQJVLGHLHMHYDWH D \$IULFDQ \$FRXQLVFDQH F
(WKLRSLD *KDQD .HQRXWKR\$IRJEFB 7DQD QGDD 8D(6&288,6 7KH \$IU
2EVHUYDWRU\ RI 6FRHQFDHQ G7HQRQRD WLRQSH\$267QLJHVGDDJHQF\ RI WKH \$
GHGLFDWHG WR PRQLWRULQJ DQG PHDWXHVQWR5 LQDQGPLQQQRD WWRQD \$
\$IULFDQ FRQLQHQDWHGRZ\FWKH\$8 1(3\$'KHQGS\$267DQ WQQRYDWLRQ 2X
VXUYH\V KDYH SUBDQGHG WHCHLW[WKHPD5WLVFR RLYCHQDYDHWIURQ DQG WKHL
UHDFK ,QGHG WKH \$,2 FRYHUG W ERXQWVL\$,2 ZKLEHW WQGHFR
FRXQWULHV ,Q)UDQFRSKRQH :HVW \$6HCFHJD%OXKDYEDS DDWRL FQSDW HDQIG
ZKHUHDV &{WH G ,YRLUH D NH\ HFRQRRLWQD \$SKHDV XIS ULQJ WRQH VKDWWR
VXUYH\V \$8 1(3\$')LQDOO\ WKHVMRUXUFRQWIEQIQUW@UNHW JHFXSV
RULHQWHG FRPSDQLHV RU LQWHUPHGMBB\ DRWRUV LG WRKHWIRQDQYDOWL
7KH VXUYH\ FRQGXFWHG E\ 'RVVR DQG \$WELQVKHG LQ WKH *OREDQ ,Q

/DUJH &RPSDQLHV DQG 6WDUWXS SV LQ &{ZV#SQYRI
,QQRYDWLRQ)UDPHZRUNV"

2SHQ LQQRYDWLRQ UHIHUV WR WKH RSHQV#ZILW#WHUFRPSDQLQRYDWLRQ

HFRQRP\ 7KLV SUHVHQWV D XQLTXH RSSRUW,XQQ\CBUJWKHDREXWJHQ
DGGUHVV LWV VSHFLILF FKDOOH

'HYHORSLQJ D PRUH IDYRUDEOH LQYHVWPIQWDQGD RHRZR WNH FIKRUR
LQQRYDWLRQ DQG VXSSRUWLQJ WKH FLQHGHVWLRQHQW O R Q D O DYGHQ W
SULYDWH HTXLW\

6WUHQJWKHQLQJ VXSSRUW IRU PXOWL

\$GPLQLVWUDWLYH EXUGHQV DQG WKH VWLOO OLPLWHG LQWHUHV

%R[7KH /DUJH 6FDOH ,QWURGXFWRQ $,LEQULJDWGGOH[DGE RNLVK
LQ 6RXWK .RUHD \$VLD

7KH 6RXWK .RUHDQ DQVHWRLQWVSOPRRQH WRKDVUHQJLWQHLO LQIUDVWU
DYDLODELWLW\ RV GQJLWDSXHQWFRBFDWLRQ V\VVH

7DUJHWLQJ SULPDUKLJKLGGORRQDQG WKH VJRWUHQDPIHQW DWP WKH DGPI
LQIUDVWUXFWXUH PDQDJHPHQW WDVNSRUHVFRBROKHDXGHVRHDSF, KSRZH
WH[WERRNV WKH OLQLVWU\ RI (GXFDWRQGLSDQW WRWLPSORWHVGHM
REVWDFOHV

,Q WHUPV RI KXPDQ UHVXUFHV 6RXWK RYHDSO DGLV LWRD QHMX WSRUYH
RU HTXLSPHQW LQVWDOODWLRQ WDVHQWHDUVZHQDQHDWUW SIBQWDDOHGX
HDVH WHDFKHUV ZRFDNDXQGVDIGRQHV V X MK HS GRYLWLRQHQDQD ZLOO HVWDE
RQ VWDQGDUGV SURFRIGXPHWK RQVGI R B FRPD FVKK M WSDUHY LULRQ RI GLJLW
WKHLU PDLQWHQDQFH DQG GLVSRVDO HDQV LFOIOGVXSSRUWW WKSHYDHH
RYHUH[SRVXUH WR GLJLWDO PHGLD DQG EORFN KDUPIXO LQIRUPDWLR

(Source: Translated and synthesized from <https://www.koreatechtoday.com/south-koreas-70-million-investment-in-ai-powered-learning/#:~:text=The%20South%20Korean%20government%20has,be%20fully%20implemented%20next%20year>)

,Q \$IULFD WKH GLIIXVLRQ RI GLJLWDDHMHQFBQRHQRHUBWHLG HGRVDFDQRE
WUDYHO DQG WKH LPSHWXV RI D QWRDMLYRHVORIGDFRUVVARDQWLXQSHQDQ
PDQ\ HGXFDWLRQDO VROXWLRQV WKD WUFIDQVXSISR WVR ZDDIGJHFRFR DVSD
KRXVHZLYHV RU ZRPHQ LQ DJULFXOWXUH D QWUHVSRQHQLHXLQV DQDQBGVIFD
DFFXPXODWHG HGXFDWLRQDO JDSV 3DBW QHDWVGLDSJHZDQK VDIWVZD ERPSU
DOVR VXSSRUW WKH HVWDEOLVKPHQWDRN PXQWELPHIGZDFBFRFUVDVDMJDL
HGXFDWLRQ SURJUDPV FRPELQHG ZLWKG HQMWHJSHHQWIKW VRSLSR WWRQQWQ
GHYHORSLQJ WHFKQWLDWUWHXVHQIRUVRQVLRQDQG LQVWHDWILQJ HPSORDEL

7KH ZLGHVSUHDG XVH RI WHFKQRORJ\ IQVROVYVPUHRTXLDQV WKRHXHGWFX
RI WHFKQRORJ\ DQGXFDWLRQ ,RGGHGVPHQDFLQDQDQHQKGLQJ

7KH ULVN RI HGXFQGLRQDQDQ ID[FA MLDO J•AM h,dđ 0JQG DÀ ,Du d•A HFKQR
U "A

7K

WKH VKRUWDJH RIVS D Q R D W H D F K R R O W K H U H V D W B L Q D Q V R Q W U D L Q H U V
HOHFWULFLW\ B I G G W L R V L O B V W U H U O D S H U D V O H R D E Z K R I E S M L L R Q F D I Q G H F I K Q R O R J L
7KHUH DUH PDQ\ SUR V D G L E S V L D Q Q V H K V H R M R Q F H R S V F V W R W D U J H W O H D U Q H U V
7KXV LW ZRXOG EH SRVVLEOH WR D G D S W F R R Q W H Q H U H D Q G O R U D D O F F R Q W
D Q G O R Q J W H U P) L Q S H O F L I L B L W H Q W R K H R X W H F R D G Y W H D E O H W R P D N H F R
V P D U W H U X V H R I D Y D L O D E O H U H V R X U F 7 D V D Q & F K D Q V R Z L U W H O H L Q Q R Y H W Z H
(Q J L Q H H U L Q J U H V R X B E H M D Q G { M M V G \$ P R I E L D I E J H X G O V R E M H W X S H G X F D W L R
W H O H Y L V L R Q 6 0 6 D Q G 8 6 6 ' W H F K Q R O R D O V D R R Q D V R L V F K R I W J D Q Q J W W L Q D W
F D Q V X S S R U W V X F K S U R J U D P V D Q G F R Q F W H U L E O V W H U E I D R X I G V R Q F L R K F X O W H X S
H Q Y L U R Q P H Q W V

&RQFOXGLQJ 5HPDUNV

, Q Q R Y D W L R Q D Q G W H F K Q R O R J \ U H T X L U H W H Q J R R U L H F S Q W L F H O S V L V D Q G Z K R F
G H S H Q G L Q J R Q W K H V R W U D W H V H F V D R S H F R U M G W R P D Q Q V Q L W K L V S H U V S H F W L
F R Q G X F W P R U H V W R Q X F R X Q U P R E H O R H O F I M W D Q G F W L Q J S U L Y D W H , Y R U L D Q
L Q Q R Y D W L Y H 6 0 (V D Q G V W D U W X S V 7 K H O H Y D Q W H F Q W D R F R Q D U L Q H H O S H Z F L H U
D J U L F X O W X U D O S U R G X F W L R Q L V Z D V W H S V D Q L Q R Y H W U L H R G M X M Q Q D F D W L H
K R V W V D E R X W K D O I R I W K H Z R U O G V P R E L O H P R Q H \ D F F R X Q W V

5 H F H Q W G H Y H O R S P H Q W V L Q L Q Q R Y D W L R Q G D Q B L V W D F U V X I S U F F R K H V W H Z W
, Y R U L D Q H F R Q R P \ 7 K L V W U D M H F W R U W I K H J H F R U Q F P M F R D D Q G G L V Q B X G W W Q D J Q
E H K L Q G H U H G L I W K H S X E O L F D Q G S U S U R D S W H D W H F W H F K Q B D O R J W R V D E S D F
L Q W H O O L J H Q F H \$, 7 K L V U H T X L U H V Q R V J R D I Q Q W W H Q G G E R S W Q R Q V R P R Q
L Q Q R Y D W L Y H D Q G F R Q W H [W X D O L] H G R U J D Q L] D W L R Q D O P R G H V

, Q G H H G \$, R I I H U V D Q H [F H S W L R Q D O R B S B U W O Q] D W L L R Q R E F F W H Q L W U D W H
L P S O H P H Q W D W L R Q R I V H Y H U D O D F W L R Q Q V \$ V X F K U D W H U X W O E H O H O R I S Q Q D D Q
L Q Y H V W L Q J L Q G X U H W B O H L Q W U Q V V D U L Z H R W K O D R V R H W K U D P L Q \$, R S / X S S R Q R Y D W
O W K L V 5 † L U P S O L H V 5 † W K D V 5 † H F K Q U O R J L F D O W U D € c • R U F D W L R Q V W U D W H C
G H P H L Z L R Q Z V X F K 0 @ V L F D V W T \$ H U ,

*ORVVDU\

%ODFN +DNDHULFLRXV KDFNHU ZKR H[SORLWV
V\ VWHP YXOQH ~~SBBLGQMDIHOVDLQJ~~ RU WR FDXVH
KDUP RIWHQ LOOHJDOO\

%ORFNFK ~~LWQ~~ WULEXWHG OHGJHU WHFKQRORJ\ WKDW
UHFRUGV WUDQVDFWLRQV VHF XUHO\ WUDQVSDUHQWO\ DQG
LPPXWDEO\ RIWHQ\ ~~SWIRG XIRU~~ HQFLHV DQG
VPDUW FRQWUDFWV

&KDW%R ~~WR~~ PSXWHU SURJUDPV GHVLJQHG WR
VLPXODWH KXPdq FRQYHUVDWLRQV RIWHQ XVHG IRU
FXVWRPHU VXSSRUW PHVVDJLQJ VHUYLFHV DQG RQOLQH
LQWHUDFWLRQ

&KDW*3/ ~~DQJ~~ XDJH PRGHO GHYHORSHG E\ 2SHQ\$,
EDVHG RQ WKH *37 *HQHUDWLYH 3UH WUDLQHG
7UDQVIRUPHU DUFKLWHFWXUH FDSDEOH RI JHQHUDWLQJ
WH[W LQ D FRQYHUVDWLRQDO PDQQHU DQG DQVZHULQJ D
YDULHW\ RI TXHVWLRQV

&\EHUDWW ~~DNDHUL~~ FLRXV DWWHPSWV WR GLVUXSW
GDPDJH RU LOOHJDOO\ DFFHVV D FRPSXWHU V\ VWHP RU
GDWD

&\EHUG ~~pIHQHW~~ RI PHDVXUHV WDNHQ WR SURWHFW
LQIRUPDWLRQ V\ VWHPV DQG FULWLFDO LQIUDVWUXFWXUHV
DJDLQVW ~~F\EHUDWWDFNV~~ RIWHQ RQ D QDWLRQDO RU
LQVWLWXWLRQDO VFDOH

&\EHUVHF ~~XULW~~ RI SUDFWLFHV WHFKQRORJLHV DQG
SURFHVVHV DPHG DW SURWHFWLQJ FRPSXWHU V\ VWHPV
QHWZRUNV DQG GDWD DJDLQVW XQDXWKRUL]HG DFFHVV
F\EHUDWWDFNV DQG GDPDJH

'DWDFHQ ~~3KHV~~ LFLDO IDFLOLW\ KRXLVQJ VHUYHUV DQG
GDWD VWRUDJH HTXLSPHQW HQVXULQJ WKH
PDQDJHPHQW SURFHVV LQJ DQG EDFNXS RI DQ
RUJDQL]DWLRQ V RU VHUYLFH V GDWD

'HHS /H ~~DU~~ QCEJ VHW RI PDFKLQH OHDUQLQJ WKDW
XVHV GHHS QHXUDO QHWZRUNV WR DQDO\]H FRPSOH[
GDWD VXFK DV LPDJHV DQG WH[W DQG SHUIRUP WDVNV
OLNH VSHHFK UHFRJQLWLRQ

'URQHV8QPDQQHG DHULDO YHKLFOHV 8\$9V
UHPRWHO\ FRQWUROOHG RU DXWRQRPRXV XVHG IRU
YDULRXV ~~DSSOEDXGLRQV~~ VXUHQHLOODQFH
PDSSLQJ DJULFXOWXUH DQG ORJLVWLFV

(GLWR ~~WR~~ PSDQLHV RU LQGLYLGXDOV WKDW GHYHORS
DQG GLVWULEXWH VRIWZDUH LQFOXGLQJ \$, V\ VWHPV
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RI GLJLWDO DSSOLFDWLRQV

,QQRYDWL ~~RQ~~ URGXFWLRQ RI QHZ VROXWLRQV
SURGXFWV VHUYLFHV SURFHVVHV DQG RU PHWKRGV WKDW
LPSURYH WKH ZD\ WKLQJ V DUH GRQH WKHUHE\ FUHDWLQJ
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'RVVR 0 *Industrie et innovation pour un changement structurel et un développement territorial durable en Afrique* \$QQDOHV GHV 0LQHWPVp, QIGKW WJDH\$QHW 3DULV %HUF

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Global Innovation Index 2022: What is the future of innovation-driven growth? SS :RUOG ,QWHOOH
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'RVVR 0 *Research and innovation: Learning and Innovation strategies for sub-Saharan Africa. New Visions for Higher Education towards 2030 - Part 3: Regional Approaches* *81L ,QWHUQDWLRQDO &DO
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