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*B1' E' *B1'4..... EF 'D*9DJE %DI 'D*4:JD1/2

- Nos textes - Textes de sympathisants - 3EJ1 (3'3 -



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C'est une brochure qui traite des problèmes de l'éducation et de l'emploi en questionnant certaines notions comme l'éducation, le travail, l'égalité.... Je montrerai que les problèmes du chômage ne peuvent être résolus dans une optique productiviste et que la solution radicale demeure dans le partage des richesses et l'auto-limitation. Par ailleurs j'invite à la conversion écologique de l'économie et à une écologie sociale et démocratique pour rompre avec la société de consommation.

'DAG13

*H7&)-I #2E) 'DE\$33) 'D*9DJEJ) HAB/'FG' D/H1G'

'D*1(HJ-II 'D%7'1 'D,/J/ DD*9DJE : *9DJE AJ 8D E,*E9

'3*GD'CJ EF 'D*9DJE %DI C1G 'DE,*E9-III

-HD 'DE,*E9 'D(J/':H,J-IV

*ACQC 'DF8'E 'D*9DJEJ-V

(96 E8'G1 #2E) 'D*9DJE-VI

'D*9DJE H'D*4:JD-VII

'D*9DJE H'D*4:JD 2EF 'D9HDE)-VIII

F2JA Â« 'D9BHD Â» : 'DE:1('D91(J E+'D'-IX

*9DJE 'D,GD AJ E,*E9 'DE9DHE'*-X

'D*1(J) C9DE H*CFHDH,J'-XI EF #,D 3J'3) DD*1(J) (5A*G' #/) DD*-1Q1 'D0'*J : -*I D' J8DQ 'D*4:JD 'D4:D

'D4':D DD4('XII

.D'5) -XIII

-I- *@H7&)

E' EF 4CQ #FQ #GEQ 'D9H'ED 'D*J /A9* %DI 'F*A'6) 'D49('D*HF3J GJ 'D(7'D) %6'A) %DI 'D'3*(// H'DA3'/ HDB/ 4CQD* (7'D) Â« #5-'('D4G/'* Â» 9'ED' EF (JF /H'A9G' HGJ D9E1J 8'G1) 9'DEJQ) D' J3*+FJ EFG' #JQ (D/. GD JCEF 'D.DD AJ E\$33*' 'D*9DJE #E AJ 'DE,*E9 DE'0' *9,2 'DE\$33) 'D*9DJEJ) 9F *-BJB 0DC 'DE+D 'D3'EJ 'DE*E+D

AJ *(DJ: 'DE9'1A H%9// F4& EB*/1 HB'/1 9DI *-EQD E3\$HDJ)*G AJ 'DE,*E9 +E E' GJ #H6'9 'D*9DJE HE' GJ #H6'9 'D*1(J)

B(D CDQ 4J! J,H2 (F' #F FDA* F*(G 'DB'1& %DI 0DC 'D.D7 'DE*A4J (JF 'D*1(J) H'D*9DJE. AF-F F,/ H2'1* *3EQI (H2'1) 'D*1(J) 'DBHEJ) #H H2'1) 'D*1(J) H'D*9DJE 'D9'DJ H'D-'D #FQ DCDJGE' EAGHE E.*DA. A'D*1(J) AJ EAGHEG' 'D#5DJ *9FJ 'D*:0J) H*B/JE 'DEH/' 'D61H1J) D*D(J) 'D-',J* 'D#3'3JQ) H6E'F 'DFEHQ 'D,3EJ H'D0GFJ H'D#.D'BJ. ('DF3() DD-JH'F* F1E2 ('D*1(J) *ECJFG' EF 'D:0!' 'D61H1J DFEHQG'. #EQ' ('DF3() DD%F3'F AF6JA DCDQ 0DC 'D*CHJF 'D0GFJ H'D#.D'BJ 'D0J JECQF EF %/E', 'DA1/ AJ 'DE,EH9) H'DE,*E9. A'D*1(J) AJ E9'F'G' 'D#5DJ GJ 'D:0!' AJ #(9'/G 'DE.*DA).

9(1 'DEAC1) Hannah Arendt #FQ 'D*1(J) GJ E' B/ J4:DF' HC0DC E' JECF #J6' #F F*:'AD 9FG (/9HI 'D*.DQJ 9FG D5'D- 9DE E.*5Q ('D(J/':H,J). GJ 'D9D'B) (JF 'D#7A'D H'DCGHD (5A) 9'EQ) #H DFBD (5A) #/B EHBAF' EF 'DF3D. A(E' #FG EF .D'D 'DF4#) F./D 'D9'DE H(E' #FQ G0' 'D9'DE J*,/Q/ EF .D'D 'D*H'D/ H'DF4#) A'D*1(J) GJ 'DFB7) 'D*J J*B1Q1 AJG' GD F-F F-(G0' 'D9'DE (E' JCAJ CJ F*-EQD 'DE3\$HDJ) H#J6' CJ FFB0G EF 'D.1'(H'DEH* 'D0J 3JCHF 'DE"D 'D-*EJ EF /HF B/HE G\$D!' 'D4'(. EF .D'D 'D*1(J) FB1Q1 E/I -(QF' D#7A'DF' CJ D' F*1CGE D-'DGE JGJEHF HF-1EGE EF %EC'FJ) %F,'2GE D4J! E' ,/J/ HA0 DE F*CGQF (G H('D*DJ CJ F9/QGE E3(QB' DDBJ'E (EGE) *,/J/ G0' 'D9'DE 'DE4*1C. #EQ' 'D*9DJE AGH AJ EAGHEG 'D#5DJ 'DD*JFJ J4J1 %DI Â« 'D*H,JG .1, Â» #H -*1 'D.1H, EF EC'F D".1. A'D*9DJE GH %0F #/) D%.1', 'D7AD HE1'AB*G EF 9'DE 'DF1,3J) 'D7AHDJ) %DI 9'DE 'DCGHD 9'DE 'D/D'D* H'DE9'JJ1 H'D1QE2. CE' #FQ 'D*9DJE JECQF EF 'D-5HD 9DI E9'1A HCA!'* *\$GQD DD4:D H'D'F/E', AJ 'DE,*E9. /H1 'D*1(J) J*,H2 'D*9DJE DCF D' JECF #F F*-/Q+ 9F 'D*1(J) (E92D 9F 'D*9DJE 'D0J JE+D E1*C2' #3'3J) DD*1(J) (E' #F 'D*DEJ0 JE6J E9/QD 15 3F) AJ 'D/Q1'3) AJ A*1) JFEH AJG' HJFA*- 9DI E,'D* #.11 :J1 'D9'&D). A'D*1(J) GJ #4ED EF 'D*9DJE D#FG D' JECF DD%F3'F #F J-5D 9DI E9'1A /HF #F JCHF 3DHCG J3E- DG ('D*A'9D 'D%J,'(J E9 'D".1JF. *3'GE 'D9'&D) H'DE\$33) 'D*9DJEJ) H'DE,*E9 9'EQ) CDQG' AJ *1(J) 'DF4#. *GJ& 'D9'&D) 'D7AD */1J,J' DD*.DQ5 EF 'FA9'D*G H:1'&2G 'D9AHJ) H'D(/&J) 'D*J D' *91A 'D-/H/. #E' 'DE/13) AGJ %6'A) DCHFG' *(DQ: 'DE9'1A H'DE9DHE'* AGJ *3'GE #J6' AJ *1(J) 'D#7A'D H*1'ABGE AJ 9EDJ) 'D'F5G'1 AJ 'DE,*E9 H'DE,EH9).

#.J1' *E+D 'D(J/':H,J) 'D#3'DJ(H'DEF'G, H'D#/H* 'D*J *ECQF EF %J5'D 'DE9'1A 9DI #-3F H,G HB/ 91A* 'F*9'4) E9 (1H2 'DE,*E9* 'DE9'51) 'D*J 1CQ2* 9DI 'D*9DJE 'D,EGH1J (5A*G #/) D*H-J/ 'D#EQ) HDCFQG' 'DJHE *91A *1',9' 1GJ(' E9 'D'3*9'6) 9FG' (E' J91A (9DHE 'D*1(J) 'D*J **.DQI 9F CDQ *1'CE*' 'D(J/':H,J) 'DCD'3JCJQ). *1J.J' C'F 'D(J/':H,J AJ 'D95H1 'DB/JE) 0'C 'D9(/ 'D0J J1'AB 'D7AD DDE/13) HGJ H8JA) D' *E*Q (#J 4CD %DI 'D*9DJE H'D'B*5'.

CDQ 'DE-DDJF H'DE1'B(JF JB1QHF (9,2 'DE\$33) 'D*9DJEJQ) H*1',9 /H1G' (JFE' FD'-8 'FAD*' #.D'BJQ' H*3JQ(' E' A*& J*H39 AJ #H3'7 'D*DEJ0 H*1',9' D/H1 'D9'&D) 'D*J DE J9H6G' 'DE,*E9. CE' #F 'DE\$33) 'D*9DJEJ) DE *9/ *6EF D*D'EJ0G' H7D(*G' E3*B(D' H4:D' B'1' CE' C'F* 9DJG AJ 'D3'(B (D F-F F9J4 *(9' *E' (JF 'DE3*HJ*' 'D+D'+) #D' HGJ 'D*9DJE H'D*1(J) H'DE,*E9 HC#FG' 'F92D* H#5(- DCDQ EFG' E,'DG 'D.5 *E'E' CE' *01Q1 'DE,*E9 H*13.* AJG 'DA1'/FJ) H'D#F'FJ) 'D6JB).

3F-'HD 'D*71QB DE,ED G0G 'DE3'&D E9'JF) HFB/' H3FB/QE *5HQ1' 9'EQ' D*,H2 'D#2E) 9DE' (#FQ 'D*7H1*' 'D#.J1) AJ (D/F' HAJ 'D9'DE B/ /A9* (G0G 'DB6'J) %DI 'D37- (-J+ DE J9/ GF'C (/Q EF *,FQ(G'.

-II- #2E) 'DE\$33) 'D*9DJEJ) HAB/'FG' D/H1G' 'D*1(HJ :

Â« *B1' E' *B1'4 'DE3*B(D E' +E'4 Â» : GH 49'1 1A9G 'D7D() H'D*D'EJ0 AJ 'D3FH*' 'D3'JF H'D3(9JF EF 'DB1F 'DE'6J HJ1E2 %DI -BJB) ,/J/) EA'/G' #F 'D*9DJE DE J9/ H3JD) DD'1*B!' 'D',*E'9J HGH J(12 #J6' '3*(7'F AC1) AJ 'DE,*E9 *9*(1 #F 'D*9DJE #/) DD1BJ H*-BJB 'DE3*B(D HDFBD 'D1Q'A9 'D',*E'9J.

DCF #J *9DJE H#J E3*B(D J*3!D 'D(96 E' 'DA&/) EF 'D*9DJE B/ D' J,/ 'D#3*0 'D,H'(#H J*:AD 9FG #H -*I J9*(1G -7' EF /H1G H'3*FB'5' DG HB/ J-'1 AJ 'D-5HD 9F 'D%,(' 9DE' (#F G0G 'DE3#D) B/ *71QB DG' 'DAD'3A) H9DE!' 'D',*E'9 H'D'B*5'/ H1,'D 'D(J':H,J' HDE J9+1H' DG' EF %,(') *4AJ 'D:DJD. AJ E98E 'D#-J'F J,/ 'D#3*0 FA3G AJ H69J) 'DE/'A9 'DE3*EJ* 9F /H1G H9F #GEJ) 'D*9DJE AJ *B/QE 'DE,*E9* /HF #F J.71 (('DG HDH DD-8) #F J*3!D 9F 'D:'J) 'DA9DJ) DDE\$33) 'D*9DJEJ) D#F 'D,H'((/JGJ HE-AH8 AJ 'DC*(H1'3. AJ 'D#0G'F. DCF 'DE3#D) **9BQ/ CDE' 'F*BDF' EF 'D(+ 9F ,/HI 'D*9DJE H#GEJ*G AJ 6E'F 'DE3*B(D %DI 'D(+ AJ E9FI 'D*9DJE. AEF 'D(+ AJ EF'A9 'D*9DJE %DI 'D(+ AJ 'DE9FI EF FBD 'DE9'1A H/H1 'DE\$33) 'D*9DJEJ) AJ 0DC GF'C #4H'7 HE3'A'* **7D('D,G/ H'D%E9'F. J\$HD (F' G0' 'D3\$'D E('41) %DI EH6H9 #GE #D' HGH AB/'F 'DE\$33) 'D*9DJEJ) DE9'F'G' HJ*,DI 0DC AJ 'D%-3'3 ('D%-(7 D/I 9/J/ 'D#3*0) H'DE9DEJF H'DEH'7FJF #E'E E9'JF*GE DD#2E) 'D.'FB) 'D*J *-A (B7'9 'D*9DJE HDFBD 'D*/1J3 (5A) 9'E). A#E'E */FJ 'DE3*HI 'D*9DJEJ J-*1 'D#3*0 HJ491 ('DJ#3 H'D.J()) %0 #F ,GH/G *0G(3/I. DJ3* G0G 3E* .5) ((D/F' HDCFF' FD'-8 9D'E*G' AJ CD #5B'9 'D9'DE. A-*I 'DF8'E 'D*9DJEJ AJ 'D(D/'F 'D:1(J) J9'FJ EF #2E) .)FB) HEF 'D*ACC H'D'FG'J1 HG0' ,DJ EF0 #C+1 EF +D'+ 9BH/ HE' *9'B('D%5D'-* H*FHQ9 'D(1'E, %D' /DJ) 9DI G0' 'D*(.7 H'D-J1). AJ 'D-BJB) D' J9H/ G0' 'D*ACQC %DI #2E) .5) ('DF8'E 'D*9DJEJ HDCFG F*, DE3'1 *1J.J DDE,*E9* 'D:1(J) H-*I (D/'F 'D,FH(H'D0J #/I %DI *:JJ1 ,HG1J DF8'E 'D*9DJE 1'AB 'D*-HD*' 'D',*E'9J) H'DE*EJ2) (GJEF) 'D9BDJ) 'D'3*GD'CJ) H*01Q1 H*ACQC 'DE,*E9 EE' JG/Q/ H-/*G. D' *CAJ E9'JF) #2E) 'DE\$33) 'D*9DJEJ) 'D*J #5(-* ,DJ) EF0 'D3(9JFJ* DD.1H, ('3*F* ,* H-DHD .5) (G0' 'DEJ/'F. D' #/9J #F 'DF8'E 'D*1(HJ B/ 'FG'1 (5A) FG'&J) HG0' J,1F' %DI 'D(+ AJ 9H'ED 5EH/G 'DF3(J 1:E E' J9*1JG EF E5'9(D' #B/QE GF' -DHD' 3-1J) HD' #/9J 'D*H5D %DI %,('HDCFFJ #1/* #F #BA 9DI #2E) 'D*9DJE (H'D#2E) (EAGHEG' 'DJHF'FJ 'D#5DJ *9FJ D-8) EA'1B) H-'3E) DBHD #H A9D 4J! D*,H2 'DE96D)).

'DE/13) H'DE\$33) 'D*9DJEJ) (5A) 9'E) AJ #2E). D' JFAJ G0G 'D-BJB) %D' EF *9'EI H*,GD G0G 'D-BJB) H1A6 'D%F5* DD/9H* HD5J-* 'DA29 'D*J E' A*&* *5E (G' 'O'FF' H3'&D 'D%9D'E H'D/1'3* 'D',*E'9J) H'D-HDJ* H'DE,D* 'DE.*5) AJ EJ/'F 'D*9DJE /HF #F *G*/J DD-DHD HDJ3 /DJ) 9DI 0DC 3HI ,J4 'D9'7DJF EF #5-'('D4G/'* 'H'D0JF E' A*&* #9//GE **2J/. EF 'D9D'E*' 'D('12) DG0G 'D#2E) 'DA4D AJ 'D/1'3) HAB/'F 'D+B) H.J() 'D#ED H'D49H1 ('DJ#3 H'D9,2 HCDG' E4'91 J*AB 9DJG' 'D#HDJ!' H'DE/13HF H7D(' 'D9DE. EF F'-J) #.11 FD'-8 '3*A-'D 8'G1) 'D9FA AJ 'DE/'13 H(1H2 3DHJCJ* :J1 -6'1J) H*1',9 3D7) 'DE/13JF H9,2 'DE\$33) 'D*9DJEJ) 9F 6E'F /JEB'17J) A9DJ) DD*9DJE H*1',9 'DE3*HI 'D*9DJEJ HCDG' 9D'E*' ('12) DG0G 'D#2E). (7(J9) 'D-'D H-3(G0' 'D81A #H O'C H'DA*1* J7AH G0' 'D,'F(#H 'D".1 HJ-*D 'D5/'1) AJ 'D%9D'E HDCF *'.DG' H*49(G' J,9D EF 'D-DHD 'D81AJ) H'DE\$B*) H'DE-/H/) #E1' E3*-JD' E' /EF' DE F*71B DDE3#D) AJ *C'EDG'. #E'E CD 0DC *7(D 9DJF' H3'&D 'D%9D'E H*.'D AJ EG*1* 'D' ,/HI EFG' (D *(9/'F' 9F 'DE3#D) 'D#E H*-HD /HF '3*(J'F 'D-BJB) HC#F 'DE3#D) .5) HE-/H/). EF F'-J) #.11 FD'-8 -1(' E3*(7F) (JF 1,'D 'D(J':H,J' H'D3J'3JJF *,D* AJ 51'9 (JF 9BDJ) E-'A8) H#.D'BJ) (-*) H(JF /9) 'D'E*J'2 H'D(+ 9F 'D*9DJE 'DF.(HJ 'D0J J1C2 ,GH/G 9DI 'DF.() 'DFJ1) H'D0CJ). AEF E*-3Q1JF 9DI 'D#2EF) 'DE'6J) HEF /9) 'D5D'() H'D'F6(7 HA16 F8'E -/J/J HEF E/'A9JF 9F 'DE91A) 'D.'D5) H6E'F -B 'D*9DJE DCD 'D7D() H*HAJ1 'D81HA 'DED'&E) D0DC %DI /9) 'D*:JJ1 H'D%5D'- 'DE*9'B(H'DE*H'5D J*JG 'DEH'7F %0 #FG D' #-/ JB/1 9DI -D 'DE96D) 'D9EJB) 'D*J J*(.7 AJG' 'D*9DJE. EF F'-J) #.11 H*-6:7 'DEF8E*' 'D/HDJ) HEF (JFG' 'DEF8E) 'D9'DEJ) DD*,1) H'D*J A16* .5.5) 'D*9DJE (5A*G .E) H0DC EF .D'D E' J91A ('D*A'BJ*' 'D9'E) -HD *,1) 'D./E* H('DF81 D*1',9 'DE3'GE) 'D-CHEJ) AJ G0' 'DE,'D *E'E' CE' GH 'D-'D ('DF3() DDE,'D* 'D9EHEJ) (A*,1) 'D*9DJE EF (JF 'DB7'9* 'D#HDI 'D*J */1Q EDJ'1* 'D/HD'1*) (12* -ED* FB/ D'09) #BD E' JB'D 9FG' #FG' 'B*5'/HJ) (-*) HGJ D' *1I AJ 'D%5D'-* 'D61H1J) 3HI ,F(G' 'D'B*5'/J 'D(-* HG0' E' JA3Q1 %DI -/ (9J/ A4D -1C*' 'D-'*,', 'DE*9'B() H'D.5) (B7'9 'D*9DJE %0 #F 'D49'1* H'DE7'D(DE *.1, EF 'D%7'1 'D*BDJ/J 'D0J *-CQE AJG' EF0 9BH/. "F1J/ *9DJE/ /JEB'17J' H,'E9) 49(J)". E' E9FI #F JCHF 'D*9DJE /JEB'17J' HE' E9FI #F *CHF 'D,'E9) 49(J) GD J9FJ *H2J9 'D,GD (5A) 9'/D) #E GJEF) (J1HB'17J) 9DI E,'D 'D*9DJE #E' EF ,F(B7'9 'DE/13JF EF E9DEJF H#3*0) AAJ :D('D#-J'F *-HQD* 'DE3#D) EF B6J) 9'E) %DI E3#D) .5) (B7'9GE H/9' (96GE %DI -DHD 81AJ) H%DI 9D', J-/Q EF 'D#91'6 DCFG D' J1*BJ %DI #5D 'D/!(E' #FG JF-51 AJ -DHD *BFJ) 51A) H'D-'D #F #2E) 'D*9DJE GJ ('D#3'3 E8G1 EF E8'G1 #2E) 'DE,*E9. AJ 'D-BJB) E' J9H2 'DE/13) GJ "A'B 3J'3J) H'6-) HG0' GH ,HG1 'DB6J).

A'DE\$33) 'D*9DJEJ) E*GE) HDH 6EFJ' (9,2G' 9F *-/J/ EGE*G' H/H1G' %0' '3*+FJF' 'D*5H1 'D9'E 'D0J J,9D EFG' 1'A9' ,*E'9J) E97QD' H'DE/13) 'D*J C'F* *E+D ('DF3() DD#HDJ!' E,'D' EB/Q3' H('DF3() DD*D'EJ0 E-J7' 4'ED' H('DF3() DDE/13JF .J'1' HEHG() H*7D9' DE *9/ *D(J G0G 'DE7'E- H'D*5H1*. DB/ #5(-* E,'D' DD-J1) H'DBDB -J+ DE J9/ 'D-5HD 9DI 'D4G/'* #E1' E\$C/'. AG0G 'D#/) 'D*J J1/ EFG' #F *6EF 'DE3*B(D DE *9/ *E+D 'DE,'D 'D0J JA*16 AJG #F JCHQF 'D%F3'F HJ5BDG HJ9/QG DD-J') 'D9EDJ) HJ/E,G AJ 'DE,*E9 H/H1) 'D'B*5'/ .DB/ *:JQ1 /H1

'DE\$33) 'D*1(HJ) ,01J'. A'D9D'B) (JF 'DE,*E9 H'DE/13) #5(- *4H(G' -D) EF 'FA5'E 'D4.5J) H'D+F'&J). AEF F'-J) GF'C 'FA5'D *E (JF 'DE,*E9 H'DE\$33) 'D*1(HJ) (JFE' *13Q. 'D'1*(/7 (G0G 'D#.J1) (5A*G' 'DE1-D) 'D61H1J) DD'F5G'1 AJ G0' 'DE,*E9. AAJ 'DHB* 'D0J *7D(AJG 'DE\$33) 'D*9DJEJ) (*B/JE CD 'DE9'1A (E' AJ 0DC *DC 'D*J C'F* *9G/ DDE,*E9 H'D9'&D) *H,QG #5'(9 'D'*G'E %DI G0G 'DE\$33) DCHFG' #.DQ* (G0' 'D/H1 H#5(-* E,'D' DD'F-D'D 'H'DEJH9) H9/E 'DE3\$HDJ). DCF E' J(BJ 9DI 'D*E3QC 'DD5JB ('DE\$33) 'D*9DJEJ) GH /H1G' AJ *HAJ1 #H39 'DE9'1A. (E' #F 'DBJE) 'DH-J/) 'D*J #5(-* E9*(1) HEGEQ) ('DF3() DD:'D(J) *8D 'DBJE) 'D'B*5'/J) 91A* 'DE\$33) 'D*9DJEJ) -D) EF 'D'3*GD'C 'D#B5I H'DE*2'J/ HB/ *,DI 0DC AJ 'D/1H3 'D.5H5J) H'DEF'A3) H%B1'1 *(JF (JF 'DE\$33)* 'D*9DJEJ) H'D(-+ 9F 'D'E*J'2 H'D*AHQB.....

B/ *#0 'D.J() #4C'D' 9/J/) EF (JFG' 'D'F2H! AJ E,EH9* 6JB) B/ J*.0 7'(9' C'1+J' EF FH9 : Â« DJ-DQ EF (9/J 'D7HA'F Â» #H "DB/ #FGJ* /1'3*J HDF #:E1 (%F,' 'D#7A'D H*-EQD E3\$HDJ) *9DJEJE" HG0' J9FJ #F 'D#HDJ!' H'D#3*0) H'D7D() DE J9/ JC*1+HF AJ E98EGE ('DE\$33) 'D*9DJEJ).

('DF3(J) DD:'D(J) EF %7'1* 'D*9DJE H'D0JF 9H/HF' AJ 'D3'(B (#F JCHF' 3(BJF AJ 'D*91Q6 D/H1 'DE\$33) 'D*1(HJ) FD'-8 '3*B'D) *C/ *CHF 9'E) H'FB7'9' *E' 9F 'D-/J+ 9F 'DE3'&D 'D*J 'G*E (G' ,JD 'D3*JFJ* H'D*J *.5 'D(J/:'H,J' 'D,/J) #H 'D(/JD). (E' #F 'D*/1J3 B/ #5(- EGEQ) 4'B) H1(E' :J1 0J A'&/) *0C1 D,2! G'E EF 'D#3*0) A'D#,/I #F JC*AH' (#/! /H1GE AJ 'D-/H/ 'DEECF) H#F D' J,G/H' #FA3GE HJ-0H' -0H 'D*J'1 'D:'D(HJ*(CH' 9DI 'D95H1 'DE'6J) HJ*-31H' 9DI 'D*F8JE 'D3'(B DDE\$33* 'D*1(HJ) H9DI 'DE3*HI 'D*9DJEJ Â« 'D1'BJ Â» 'D0J C'F 9DJG F8'E 'D*9DJE EB'1F) (E' GH -DJ. ('DF3() D9// G'E EF 'DE/13JF #5(- 'D*9DJE H8JA) 4(G %,('1J) HE6FJ) HEA1H6) :J*G' 'D'1*2'B HC3('DBH* 9ED' (EBHD) EC1G #.C D' (7D. EF F'-J) #.1I HE9 *9'8E E.'71 'D9ED 'D#,J1 .5H5' AJ 'DB7'9 'D.5 -J+ J*91Q6 'D9E'D CD JHE D.71 'D(7'D) H'D*GEJ4 H'D71/ #5(-* EGF) 'D*/1J3 *,D('D9/J/ EF 'D7D() (E' #FGE J(-+HF 9F 'D'3*B1'1 'D9'&DJ. J8D 'DG',3 'D#HD GH 6E'F BH* HEC3(B'1 HG0' ,DJ AJ 'DEF'7B 'D49(J) H'D1JAJ) -J+ #5(-* EGF) 'D*9DJE 'DED'0 H'DED,# (9/ #F HB9 'DB6'! 9DI 'DE,'D 'D21'9J H*ACJC 'D(FJ) 'D',*E'9J) DD#1J'A H/A9 'D"D'A %DI 'DF2H- DDE/F 'DC(1I. EF F*,&, CD 0DC (1H2 -D) EF 'D-J1) D/I 'DE/13JF H'D*D'EJ0 H(1H2 .7'(JDBI 'D1H', J/9H EF F'-J) D6E'F 'D9/D) AJ 'D*9DJE HDCFG ('DEB'(D J-EQD 'D*DEJ0 E3\$HDJ) A4DG. EF 9D'E* G0' 'D*F5D EF 'DE3\$HDJ) H'D49H1 ('D.J() *1CJ2 'DE/13JF 9DI 'DE7'D('DEGFJ) H'D-1AJ) H'D*J H%F C'F* 419J) ('9*('1 :D!' 'DE9J4) H*/GH1 'DH69J) 'D',*E'9J) D3DC 'D*9DJE H81HA 'D9ED 'D3J&) H'DE6FJ) 'D*J *F9C3 9DI E3*HI 'D*9DJE DCFG' D' **H,G %DI #5D 'D/! H%DI ,HG1 'D#2E). AJ 'DH'B9 %F #2E) B7'9 'D*/1J3 DJ3* 3HI ,F(EF 'D#2E) 'D9'E) DD*9DJE HG0G 'D#.J1) DJ3* 3HI F*,' D*13(* AJ 'DE,*E9. A#2E* 'D*9DJE DJ3* AJ 'D-BJB) #2E* .5) ('DB7'9 (D GJ *E+D #2E) 4'ED) DD-J) HDDE,*E9. A:J(' 'DE9FI DJ3 .5' (B7'9 'D*9DJE (D GH :J(4'ED. DB/ AB/F' 'D(H5D) HDE F9/ F/1J E'0' F1J/ H#J E3*B(D F(*:J HAJ #J *,G F3J1 HD#J E,*E9 F7E-. %FG' #2E) 'D*7D9 'D/JEB1'7J CE' ,! 0DC 9DI D3'F #-/ 'DEAC1JF.

-III- 'D%7'1 'D,/J/ DD*9DJE : *9DJE AJ 8D E,*E9 '3*GD'CJ EF 'D*9DJE %DI C1G 'DE,*E9

9F/E' J9,2 E,*E9 9F 'D*9DJE AG0' D' J9H/ D69A H.DD AJ 'D,G'2 #H 'DE\$33) #H AJ Â« 'D5F'9) Â» AG0' J9FJ #F 'DE,*E9 %,E'D' 9',2 9F *9DJE FA3G. A('DF3() DCD 'D(41J) #F J9DQE 'DE,*E9 AE9F'G #FG B'/1 #F J*9DQE. AE,*E9 D' J9DQE GH E,*E9 JFC1 0*G HJC1GG' HD' J-*1EG'. %FG' -D) 'DE,*E9* 'DE9'51) 'D*J AB/* CD E9FI DH,H/G' HE3*B(DG'. A'DE,*E9* 'DE9'51) *-/HG' 1:() HJBH/G' HGE E' A*& J*9'8E HJ*13. EA/G #FG 3J3E- (E1'CE) D' -/Q DG' H*7'D CD E,'D* 'D-J) 'D',*E'9J). DB/ F,-* 'DE,*E9* .5H5' EFG' 'D:1(J) H%DI -/ (9J/ AJ *-BJB G0G 'DH9H/ 3H! AJ E,'D 'D.J1* #H E1'CE) 'D#4J!' H'D#ED'C #H AJ E,'D 'D*B/QE AJ EJ'/JF 'D7(H'D*CFHDH,J' H'DGJEF) 9DI 'D7(J9) H-*I 'D-1J* 'DA1/J) (D GJ 13Q.* AC1) 'D'3*GD'C 'D0J D' J91A 'D-/H/. 'DCD J3*GDC : 'D%F3'F J3*GDC 3FHJ' E' JAHB H2FG 10 E1* EF 'DE-1HB* HEH'/ 'D7'B) HE' JB'1(100 E1) H2FG ('DF3() D3C'F 'DE/F 'DC(1I. -J) 'DA1/ 1GJF) 'D#4J!' 'D*J J*-5D 9DJG' HJEDCG'. 'DF,- JB'3 (E/I B/1*G 9DI 41!' 'D3D9 'D'3*GD'CJ) 'DE91H6) AJ 'D3HB HÂ« #1A9G' Â» HÂ« #,H/G' Â» H5HD' %DI 'D5H1) HHGE 'D5H1). %FG J3*E/ 4.5J*G (E/I **+1 'D'.1JF (G H,(0(J*G H'3*,('G DFE7J) E9JF). GF'C EA'1B) ,/ E+J1) H D'A*) DD'F*(G. DB/ (FJ* 'D-/+) HE' (9/ 'D-/+) 9DI B'9/) 1A6 'DE'6J H%D:!' 'D0'C1). A2E'F 'D-/+) .7J J*3'19 %DI 'D#E'E HJ/9J #FG JD:J E' 3(BG AJ5(- 'D-'61 2&(BJ' JFAD* (E,1/ -6H1G. DCF 'D-/+) **F'B6 E9 0*G' (E' #FG' *.DB Â« *1'+G' Â» H0'C1*G' /HF #F *491 #H *9J (0DC. A'D/9H) %DI 'DB79 E9 'DE'6J .DA 1/ A9D D/I 9'E) 'DF'3 *,3/ AJ 49H1 ('D1J() H'D.HA EF 2H'D 'D0'C1) H 'D*1J. .5H5' H#F 'DE3*B(D 'DE6EHF (9J/ 'DEF'D HE\$,D %DI *1J. :J1 E-/H/ (CE' *D 9DI 0DC 'D5A) 'D*J *D5B ('DE,*E9 : E,*E9 E' (9/

'D5F'9)- E' (9/ 'D-/+) - E' (9/ 'D*1J. - E' (9/ ...) CE' #F *#2E 'D-'61 H(1H2 E.'71 9/J) ((7'D) - *GEJ4 #,2! E*2'J) EF 'D49(- E.'71 (JHDH,J) - *DH+ - *DH+ 'D79'E (EH/ CJEJ&J) H(JHDH,J) - -1H(- 'F.1'E 'D#EF - %,1'E ...) *9EB G0' 'D49H1. DCF #F J9/ 'DE,*E9 CD A1/ (%1,! 'D39/) D:/ :J1 E9DHE H('D*.D5 EF CD 'D91'BJD H'DE5'9(H/A9G' H5HD' D*-BJB #H39 'DE7'D(H'D1:(* AE9F'G #FG JGJ& 'D81HA 'D9EDJ) DC1G 0*J -BJBJ H1(E' FAJ H,H/G. ":' 3HA F*.D5 EF 'D#E1'6 HFHAQ1 CD 'D-',J* HF*:D(9DI CD 'DE5'9(HF-BB CD 'D#-'D'E HF3(J 'D9'DE HF:2HG HF#31G HF*-CE AJ CD 4J!. :/ 3FHA1 DCE CD 'D-',J* HF-BB 'DHA1) HF,9DCE #3J/ 'DCHF AD**1B(H' HD*5(1H' HD*5'(1H'''. #DE J9DF FJC3HF 'D1&J3 'D#E1JCJ 'D3'(B AJ 'D3(9JFJ* #F 'D*%F'3 3JB6J 9DI CD #FH'9 'D(C*J1' HJ*.DQ5 EF E16 'D317'F #DE J9/ .(1!' 'D(JHDH,J' H'DH1'+) (HD'/) (41 -3('D7D(H-3('D.'5J* 'DE1:H(AJG' #DE J9/ 'D.(1!' (9ED AJ 'DEF2D J,F('D*FBQD H'DDB!' E9 'D'.1JF %FG E,*E9 'DE9DHE'*. (EF 'DE6-C #J6' #F 'DE'1C3J) *9/ ('D9'/D) AJ E,*E9 'DHA1) : 'EF CD -3(7'B*G HDCD -3(-, *G" #J #F 'DE,*E9 'D4JH9J GH '3*GD'CJ ('D/,) 'D#HDI). J9FJ CD 0DC #F 'DE,*E9 J*FCQ1 D-'61G D5'D- HGE E' A* & J*9'8E. DB/ #5(- ,DJ' #F 'D61J() 'D*J J/A9G' 'DE,*E9 DB!' CD 0DC GH %9D'F -1('DCD 6/ 'DCD H'FGJ'1 'D9D'B*' (JF E.*DA ECHQF*' 'DE,*E9. A'D%/9! (#F 'D9D'B*' (JF 'D#A1'/ 'DE*011QJF C-(* 'D1ED H'DEF92DJF 3*-CEG' 1H'(7 *9'B/J) 51A) J9FJ #F F9/Q DD*.DQ5 EF ,ED) 'D9H'&B 'D*J *A16G' 'D9D'B*' 'D',*E9J) H'D-J') (5A) 9'E). A'D'F2H!' AJ 'D-J') 'DA1/J) H'D'FGE'C AJ E,*E9 '3*GD'CJ J.D5F' EF E*7D(* 'D-J') 'D,E9J) E9 #F'3 :1(!. CE' #F 'DDGH J.D5F' EF GEHE 'DH,H/ H'D*ACJ1. A59H/ 'DD'E9FI #H 'A*B'/ 'DE9FI J-11F' EF E9FI 'DH,H/ H'DA9D HE9FI 'D*ECQF EF 'D-5HD 9DI 'D#4J'!. A'D39'/) 'DEH9H/) GJ '3*BD'D *E 9F CD E' GH EH,H/ H9E' 3JCHF HJF4# H9/E 'C*1'+ (G. EF 'DEA'1B*' #F GH3 'D(-+ 9F E+D G0G 'D39'/) **4.5 AJ A1/'FJ) EBJ*) AJ 'DHB*' 'D0J *(/H AJG (5A*G' 0H('F C'ED H*7'(B 9'E E9 E' GH EH,H/ (-J+ #F 'DA9D J.69 D*5HQ1 H'-/ HA1J/. %FG 951 'D*7'(B 'DE9EQE AC1' H*5HQ1' H-J') JHEJ) HD('3' H-*I D:) HAF'. (J1HB1'7J) GJEF) E,*E9 'D5H1) H'DE4G/ 'DD'E9FI 9BDF) 'D-J') 'D.5) (E' AJG' 'DE4'91 'D/'.DJ) E16 'D'3*GD'C 'D*BDJ/ 'D#9E1 'D(-+ 9F 'D4G1) H'DF,HEJ) CDG' *3'GE AJ *:JJ1 (FJ) 'D4.5J) DD#A1/ 'DE9'51JF. %FGE B/ AB/H' 'D(H5D) H-*I 'D4.5J) 'DA9DJ). FA3 'DD('3 H'D#CD H'D*ACJ1 G0' %F C'F G'F'C *ACJ1 (D -*I FA3 'DD:). AEF (JF 'DH3'&D 'DE*-) DD*Q-CE AJ 'DAC1 G'F'C *6JJB 'DE,'D 9DI 'DDQ:) H9DI 'DB/1) 9DI *7HJ9G'. DB/ C'F G0' 'D#3DH(4'&9' AJ 'D#-2'('DA'4JQ) H'D4QEHDJQ). AJ 'D(/J) JB9 %AB'1 'DDQ:) H*-/J/ EA1/'*G' H#3'DJ(*9(J1G' H'D*Q.DQ5 EF 'DCDE'* :J1 'DE1:H(AJG' CE' JB9 'D-/Q EF 'D*9'(J1 'DE,'2) 'DB'(D) D#C+1 EF *#HJD HAGE. **,3Q/ EGEQ) 'DDQ:) 'D,/J) AJ 'DB6!' 9DI 'DE9FI. ACDE'* E+D 'D41A H'D%.!' H'D*Q-'((H'D*Q9'J4 *AB/ 4J&' A4J&' EF E9F'G' H-6H1G' H*:J(EF B'EH3 'DDQ:) 'D,/J) HJB9 *:DJAG' (*9(J1 #.11 A6A'6) *3-BG' H*F29G' EF 0'C1) HE.JQD) 'D4Q9H(. J-*HJ B'EH3 'DDQ:) 'D,/J) 9DI +D'+ #FH'9 EF 'DCDE'* :

- CDE'* :J1 E9(Q1) H%F ,2 'DBHD "E-'J) 3J'3J'" HGJ CDE'* E-/Q/) 'DE9'FJ HD' *B(D 'D*#HJD H*.5Q E,'D 'D-J') 'DJHEJQ) HGJ .DJ) EF #JQ *9(J1 E,'2J C#F FBHD 7'HD) HC13J H-&7.
- *9'(J1 E1CQ() ABJ1) 'DE9'FJ HB/ *\$/QJ E9FI EF'B6' DDEF7HB. %FQG 'D.7'('D3QJ'3J ('D#3'3 H.7'('D.(1!' 'D0J JA16 9DI 'D3'E9 'D*B(QD H'DB(HD. D' *3'E/Q 'DCDE'* E9'FJG' EF E6EHFG' HE/DHDG' 'DE*9'1A HDCF EF 41H7 H81HA %DB!' 'D.7'(A'DE.'7(JA16 EAGHEG '9'E/' 9DI E1C2G AJ 'D3QD7). E+'D 0DC : 'D,GD BHQ) H'D-1(3D'E... .
- J-*HJ 'DB3E 'D+'D+ EF 'DB'EH3 'D,/J/ 9DI CDE'* *BFJQ) H9DEJQ) #J D:) 'DE.*5QJF H'D.(1!' 'D*J D' JABGG' 3HI 'D1Q'3.JF AJ 'D9DE. JF-51 '3*9E'D G0G 'DE57D-* AJ 'D%7'1 'DE.*5Q. E+'D 0DC 'D,JF H'DFQH') H'D7QJA 'DE:F'7J3J H'D5Q(:J*...

BHE G0G 'DECHQF' 'D+D'+ DDQ:) 'D,/J) (%A1': 'D*Q.'7(H'DC*() EF -JHJQ*G' H/JF'EJCJQ*G' 'D.'5Q) H0DC ('.*2'D 'DE9FI H*6JJBG AJ '3*9E'D E-/Q/ HEDEH3 H*:JJ1 0DC %0' 'B*6* 'D-',). G'F'C A5D H'6- (JF G0G 'D#,2! 'D+D'+ 'D*J D' J3E- DG' (#F **/'.D. GC0' F6-QJ ('D#4C'D 'D*Q9(J1JQ) 'D(D':JQ) H'DAFQJ) H('D*DHQF*' *3',) DBH'9/ 5'1E) DD*QH'5D D' *B(D 'D*Q,'H2. 9DI CDQ CDE) #F *OF7B H*O3E9 (3GHD). CDQ #,2! 'D.7'(B'(D) DD*Q(/D H'D*Q'/.D : 'DA9D H'DA'9D H'DEA9HD (G. EH'5A*' 'D.7'('D,/J/ #F JCHF 3GD' J3J1' 31J9' E.*2D' CD:) 'D3*JF:1'AJ' HJ-*HJ 9DI #BDQ 9// EECF EF 'DEB'79 (Syllabe). 'DG/A EF CDQ 0DC GH A5D 'D.7'(9F 'DH9J. GC0' J*:DQ('D5QH* 9DI 'DE9FI H'DFQ7B 9DI 'DEH6H9. GH 9'DE E,*E9 'D*QH'5D H*('/D 'DE9DHE'* 'D0J J5(- #GEQ EF EH6H9G'. GH (9('1) #.11 9'DE *,1) 'DCD'E. Â€ .0 CD'E' HG'* CD'E' Â€ HCDQE' C'F* *,1) 'DCD'E #HA1 H#GEQ CDQE' C'F 0DC E9J'1' DDFQ, '-. D' J:1QFQCE G0' 'D*('/D. DJ3 'DEB5H/ (G *9EJB 'D-H'1 H*D'B- 'D#AC'1 H*5'19G' H*F'A3G' HDCF AB7 *F4J7 -1C) 'DCD'E H*-1JC G0G 'DH8JA) HAB' DE9JJ1 HEB'JJ3 E-/Q/). *,3Q/ 'DDQ:) 'D,/J) F8'E' .5Q' E3*-/+' G/AG 'DB6!' 9D CDQ %1'/) .5Q) HE*EJQ2) DD*QACJ1 H'D'3*9'6) 9F CDQ 0DC (@''1! 5-J-)

3J'3JQ'Â« C#F *BHD : Â»'D*QCFHDH,J' H3JD*F' D*-BJB 'D1QA'GJ) H'D/QJEB1'7JQ) H'DC'&F*' 'DE-HQ1) ,JFJ' #/'F' DDB6! 9DI 'DE,'9) #H CDQE' 2/' 'D'3*GD'C *1'CE* 'D3Q9'/)". G0G 'D#AC'1 *5(- E3DQE** H(/JGJQ* D' *B(D 'DFQB'4. EF JB/1 #F J4CQC AJ *9(J1 EF FH9 : "D*FEJ) 'DE3*/E)Â« H Â»'D+H1) 'D1QBEJ)". AGJ DJ3* F*,' DFB'4 #H +E1) DE,GH/ AC1J ,E'9J. 'DEGEQ #FQG' *9'(J1 *3J1 *3'A1 *F*BD H*3JD C'DE!' 'D1QB1'B. %FQG' *,3J/ DGJEF) E,*E9 'DFQ.'9 'D4QHCJ E,*E9 /HF E.Q JF-51 /H1G AJ 'D1Q/ 'D'F9C'3J 'D#HQDJ 'DECJQA H'DEGJQ# Réflexes conditionnés . *3*9J6 'DDQ:) 'D,/J/) Newspeak 9F 'DAC1 'DH'9J Â« ('DAC1 Â» 'DEFE7 H'DE9DQ(H'DE*7'(B. AF-F AJ 951 'D*Q7'(B 'DE9EQE 9DI -3(*9(J1 'DEACQ1 Cornélius castoriadis. CDQ .7(,/J/ HE:'J1 J9*(1 F4'2' D' J3*3': HD' JAGE. E'0' JBHD G0' 'DE9*HG #J G0'JF G0' 'D0J JF7B (G G0' 'D4Q'0 H'D.'1, 9F 'DE,EH9) *GJCD 'DD:) 'D,/J/) #3DH(*ACJ1 'D:D(JQ) H*,9DGE J491HF ('D'F*3'(%DI E,EH9) D:HJ) .5Q) *F:DB 9DI FA3G' CD'E' HE9'FJ F7B' HE/DHD' H*3,F FA3G' (FA3G'.

'F7D'B' EF G0G 'D-DB) 'DEA1:) HEF G0' 'D*.1J(H-*1 'DG/E DD-J') 'D4.5J) **ACQC 'D9D'B*' (JF ECHF** 'DE,*E9 H(JF 'D0H*' HG0' J.DB -D) EF 'DBDB H'D-J1) H'D'FGJ'1 'DFA3J E' A*&* **9EQB H*2// .7H1). DD*.D5 EF G0G 'DH69J) JF5- (*,F('D-J') 'D',*E'9J) H9/E 'D'D*2'E AJ 9D'B) 5'/B) #H -(H*,F('D'1*('7 'D4/J/ ('D'.1JF H('D'G*E'E ('DD-8) 'D-61) HDCF 0DC D' J2J/ 3HI AJ *9EJB 'D#2E). A'D4(' JH',G E,*E9' AB/ CD 'DBJE H'DE9'JJ1 H9H6*G' EB'JJ3 E+D E3*HI 'D9J4 HEB/1 'D39'/) 'DE'/J) H'DB/1) 9DI 'D'3*GD'C HE1'CE) 'DE'D H'DE*9. AD' #AC'1 3J'3J) HD' *6'EF ,*E'9J E9 'D#,H'1 H#(F!' 'DB1J) #H 'DE/JF) 'DH-/) #H 'D2ED!' AJ 'DEGF) H'D4:D #H 2ED!' 'D/1'3) H-*1 H%F 491 (#F 'DE,*E9 B/ GE4G A3JD,# %DI 'D-J') 'DA1/J) HJFCA& 9DI FA3G #H JF4:D AJ E3&D H#GH! 4.5J). F-F F9J4 BJ E,*E9 'DDH(J* H'D#GH'!. A'D*9'B/* H'D*A'B*' 'D*J C'F* *-CE 'DE,'D* 'D*BDJ/J) DD'D*B!' 'D',*E'9J H'D*J EF .D'DG' JB9 6(7 'D9D'B*' (JF 'D#A1'/ #5(-* *9*(1 E9JB) HEF(H0) H37-J) HD' **E'4I E9 'D9AHJ) 'D*J *-CE 'D951 H'D*J JECF *D.5G' AJ EBHD) Â« CF CE' #F* Â» G0G 'DEBHD) 'D*J #5(-* 'DE1,9J) 'DH-J/) H'D6E'F 'D#H-/ DD*9(J1 'D#5JD. A3H!' *9DQB 'D#E1 ('DE\$33* 'D3J'3J) #H 'DFB'(J) 'D*J DE *9/ *-8I (FA3 'D*B/J1 #H (E,'D*' 'D9ED .5H5' E9 'FGJ'1 'DE9'1A 'DB/JE) H'D*.DJ 9F 'DEH'B9 'D',*E'9J) 'DB/JE) D5'D- +B'A) 'DE\$33) #H AJ E,'D*' 'D3CF H'D*,H1 E9 *ACQC 'DB1I H*G,J1G' #H 'D#-J!' HE' 4'CD*G' ADB/ B6* 'D1#3E'DJ) 'DA'-4) 9DI CD 4CD EF #4C'D 'D3DHC 'D-6'1J H'D,E'9J H'D*6'EF 'D*J C'F* *-CE 'D9D'B*' (JF 'D(41. GC0' DE J9/ 'DA1/ B'/1' #F J*E'GI E9 'DE,*E9 'D0J JF*EJ DG (D #FG DE J9/ J9J1G #J 'G*E'E. A'3*1*J,J' 'DG1H(H'D*.DJ 9F 'DH',(' H'D'F3-'(EF CD E' EF 4#FG #F J3'GE AJ .DB -J) ,E'9J) #5(-* 7':J). DCF %0' DE FB(D (H,H/F' C71A AJ E,*E9 F*A'9D E9G H(HF 'D*E'GJ E9 G0' 'DF-F H'DF-'D'.1 J0H(CD E9FI DD-J) 'D',*E'9J) H'D,E'9J). A'DJHE JH,/ EAGHE 'DE,*E9 FA3G 9DI 'DE-CQ HAJ (96 'D-'D* J.'E1F' 3\$'D -HD E9FI 'DE,*E9 HGD E' 2'D DG H,H/ A9DJ. #D3F' #E'E *1'CE D#A1'/ :J*GE 'DH-J/) GJ 'D*.DQ5 EF AC1) 'DE,*E9 HEF AC1) 'D'F*E!' DG.

AJ :D(J) 'D#-JF #5(-* 'D9D'B) (JF 'D#2H', 9'(1) 9F *A'B E*:JQ1 (JF A1/JF #H 9D'B) E(FJ) 9DI EA'H6* HEA'GE* Â« 9BD'FJ) Â» #H 9B/ HB*J E91Q6 DD2H'D 'D31J9 #H DFBD B'(D DD**CD AJ #319 HB* HDE *9/ 'D9D'B) 'D9'7AJ) GJ 'D*J *-CE G0' 'D'D*2'E (D #F HD'/) 'D7AD #5(-* GJ 'D1'(7 'D-BJBJ. EF 'DEA'1B*' #F CD 'D,GH/ *3*+E1 AJ 'D9'&D) 'D*J *4CD EHB9 'D*01Q1 H'DA1'/FJ) H'DED'0 'D#.J1 6/ 'D-J') 'D,E'9J) (E' *E+DG ('DF3() DD#A1'/ EF BE9 H'D*2'E H-/H/. J5-(G0' 'DFE7 'D,/J/ EF 'D-J') 'D9'&DJ) :J'('D(9/ 'DE\$33*J 'D*J C'F J-CEG' HAB'/FG' DD/H1 'D0J C'F JF'7 (9G/*G'. A'D#HDJ! J1(HF #7A'DGE 9DI 9/E 'D'C*1'+ (E' JGE 'DE,EH9) H('DE\$33* 'D*J *-CE 'DE,*E9 HDCFG E J(-+HF 9F A16 4.5J) #(F&GE H%(1'2 7'B*GE 'DA1/J) HG0' AJ ,EJ9 'DE,'D*. DFBD #FG AJ #0G'F 'D9/J/ EF 'D#HDJ! JE+D 'D7AD 1#3E'D' J,(*H8JAG H'D9ED 9DI #F J/1Q 9DI 5'-G 'DF,- H'D4G1) H'D*AHQB H'D(1H2 H'DF,HEJ) AJ E,*E9 D' J9*1A %D' (Â« 'D'E*J'2 Â» 'DA1/J. EF 'DE9DHE #F 'D#HDJ! J4CDHF 'D-DB) 'D1'(7) (JF 'DE\$33) 'D',*E'9J) EF F-J) H*CHJF 'DFA3J) 'DA1/J) DD#(F!' #J #FGE JBHEHF (/H1 'DEE+QD D/I 'D7AD DDE,*E9 HD*1J. 'D%F3'FJ) HDG0' 'D%F3'F EF0 8GH1G 9DI H,G 'D(3J7). A'D*1(J) 'D*J J*DB'G' 'D7AD AJ 'DE-J7 'D9'&DJ *9ED 9DI /E, 'D7AD AJ .7 *H'5DJ J1(7G (%1+ 9'&DJ. A(%F,'('D#7A'D *E, 'D9'&D) 'D7AD AJ 9'DE EF 'DE\$33*' 'DEH,H). DCF G0G 'D9'&D) *91A *ACC' H*1',9' D/H1G' HG0' DJ3 ('1*('7 ('3*A-'D -D*' 'D7D'B HDCFG F*', 7(J9J DAB'/FG' D/H1G' CE-H1 HE1C2 DDE9'JJ1 H'DBJE. ".1 EH6) AJ E,'D 'D*1(J) *,DQ* AJ 49'1 Â« 'D*CHJF 'DF',9 DD#HDJ! Â» (#H 'D(+ 9F *5HQ1 DD9'&D) 'DE+DJ)) HB/ 1HQ, #5-(G' DEAGHE 'D9'&D) 'D#5JD) H'DE*#5D) HDCF 0DC DE J-D /HF *H*Q1 'D9D'B) (JF 'D#HDJ! H'D#7A'D H*/9JE 'DB7J9) (JFGE. AB/ 'DHDJ 'D-BJBJ H'D9'/J 'D+B) H'DB/1) 9DI *-EQD 'D#H/1' 'D#J31 H'DE*9DQB) (*1(J) 'D#7A'D. A.DA 'DHGE ((1H2 9'&D) E+DJ) */(Q/ 'D/H1 'D*BDJ/J DD#HDJ! : AEF # (J/DQD #7A'DG HJD'E DBD) 51'E*G HÂ« 1,HDJ*G Â» H'3*B'D*G 9F 'DBJ'E (/H1G H*.DJG 9F 5D-'J*G DA'&/) 'D#E 'D*J #5(-* *E+D 'D3D7) AJ 'DHB* 'D0J *9'FJ AJG EF -D) *E2B H*,0((JF E*7D(' 'D4:D HE*7D(* %9// 'DF4% J*JG 'D#HDJ! AJ 'D(+ 9F #5'D) E29HE) H9F 5H1) E+DJ) HJ9,2HF 9F *-J/ E' JECF #F

J3E-H' (G HE' JECF #F JEF9HFG. EF 'DE6-C #F J7F('D(96 EF 'D.(1! AJ 'D-/J+ 9F /H1 'D9&D) H61H1) '3*9/*G' D/H1G' 'D#5DJ H'D-D #F 'DE:'E1JF J9/QHF DHD') .1, 'D#1-E HAJ 'D#F'(J(#J *BFF) 'D9&D).

AB/* 'D9&D) /H1G' CE\$33) H.DJ) ',*E'9J) DG' EGE) *1(HJ) #3'3J) HHB9 '.*2'DG' AJ E,'D .5 EF92D. ADB/ *.DQ* 9F 'D*1(J) D5'D- 'DE/13). *CEF 'DEA'1B) AJ #F 'D9&D) B/ '.*1B*G' 'DE9JJ1 'DA1/J) H'D#F'FJ) 'D6JB) CCD B7'9*' 'DE,*E9 HD0DC F1'G' **H,Q3 EF 'DBH'FJF 'D*J *A16G' 'DE\$33) 'D*9DJEJ) HG0' E' JA3Q1 AJ (96 'D#-J'F 'D51'9*' 'D*J B/ *F4# (JF 'D#HDJ!' H'DE/13) H9/E *B(QD 'D#HDJ!' DDB1'1*' 'D2,1J) *,G #(F'&GE. EF F'-J) #.11 J9DE 'D#HDJ!' #F 'D-J)' 'D',*E'9J) B/ #5(-* E-AHA) ('DE.'71 D0' *1'GE J/DQDHF #7A'DGE HJ9E/HF D-E'J*GE EF *#+J1*' 'DE,*E9 HDCF /HF ,/HI. ""*1CHGE J*E*Q9HF (-1J*GE HJF9EHF (7AHD*GE B(D #F *-JF E1-D) 'D59H('*. %FQG 'D7AD 'DEDC. JD'-8 'D(96 #F G0G 'DE3#D) **9EQB AJ 'D#H3'7 'D49(J) -J+ J*1C 'DE,'D H'39' DD7AD DE4'G/) 'D*DA2JHF DE/Q) :J1 E-/H/) H'D-'D #F 'D9&D*' 'DEJ3H1) 'D*J *9DE -B 'D9DE E.'71 0DC *- /Q EF G0G 'D-1J) 'DE29HE). **BDQ5 'D9D'B) (JF 'D#HDJ!' H'D#(F!' /'.D 'D9&D) HJ*,F('D#HDHF 'D-/J+ 9F 'D#4J!' 'D*J *.5QGE H9F 9EDGE. DB/ 01Q1 'DE,*E9 'DE9'51 'D#A1'/ H'D9D'B*' H4,Q9 9DI 'DH-/) HACQC 'D9D'B*' 'D',*E'9J) H('DEB'(D :13 'D#F'FJ) H'DF1,3J) H-('D0*' HG0G 'DF1,3J) J3B7G' 'D#HDJ!' 9DI #(F'&GE H(0DC J*-HQD 'D'(F %DI E+')(EDCJ) .5) H,('D-A'8 9DJG' H-E'J*G' H*/DJDG' H*ECJFG' #B51 /1,* 'D-1J) H'D/A'9 9FG' EGE' C'F* 'D81HA H'D-'D*' 6/ 'D'.1.

EF0 'DB/E H',G* 'D(41J) #4C'D 'DBE9 H'D'3*9(/ H'DBG1 'DE.*DA) HB/ #/I 0DC D-1C*' 'DEB'HE) 'D*J D' J39 'DE,'D D0C1G' HDCF E' D'-8F'G AJ 'D9BH/ 'D#.J1) GH 9C3 0DC %0 (/D #F JH',G 'DEH'7FHF E.*DA 'D6:H7 'D*J A16G' E,*E9 'D'3*GD'C HJ.1,HF (*5HQ1 J-11GE EFG E' 9'JF'G HF9'JFG GH C1G DDE,*E9 H*,F(DG H'3*B'D) *C'/ *CHF 4'ED) H9'E) EF *-ED 'DE3\$HDJ) AJ 'DB6'J' 'D*J *GE 'DE,EH9) H-'D) EF 'D'F2H!' *B'(DG' 3D7) E*9'8E) D#HDJ:'14J' E'DJ) H(J1HB1'7J) AJ 'DE,*E9 */9EG' H3'&D /9'J) H%9D'E. -*1-1C*' 'D'-*,', 'D#C+1 9FA' H,01J) ADB/ 'F*GI (G' 'DE"D %DI 'D'D*A'A H'D3BH7 AJ #-'(JD 'DBHI 'DEGJEF) (D DB/ #/E,* 'DE7'D('D'-11J) AJ *5HQ1 DJ(1'DJ E*H-Q4 HEBJ* H%0' ('DE7'D('D*J */9H DD/JEB1'7J) H'D*-11 'D0*' A1/J' C'F #E ,E'9J) ((E' AJ 0DC -1C*' 'D'-*,', 'D*J 91A*G' 'D3FH*' 'D3*HF EF 'DB1F 'DE'6J) *3*B7(HJB9 5G1G' AJ E' J/9HG 'D(96 (*95J1 'DE\$33) H'DE,*E9 HE' #5(- 'DJHE J91A ('D-'CEJ) #H 'D-HCE). (7(J9) 'D-'D J9H/ CD 0DC %DI 9/E 'F5G'1 *DCE 'DE7'D('DE41H9) AJ H'B9 E9'4J JHEJ HAJ *5H1 4'ED HEDEH3 AJ FA3 'DHB*. ADB/ C'F* ,D 'DC*(' *D*J *H,G* DDE\$33* (E' AJ 0DC 'DE\$33) 'D*9DJEJ) J:D(9DJG' 'D',F('D#J/JHDH,J 'D0J B/ J5D -/ 'D30',) H'D37-J) #H 'D*F/J/ ('D',F('DBE9J DG0G 'DE\$33) (5A*G' *9J/ %F*, 'DE,*E9 H*A16 9FA' 1E2J' (-J+ *E+D 'DE/13) E,'D' DD*3D7 H'D9B'(H%.6'9 'D,3/ 9H6' #F *CHF #/) *-1Q1 EF 9'DE 'DCGHD HD%(1'2 H*CHJF 'D4.5J). CE' *H,QG 'DFB/ DDGJCD) 'DE*CD3) H'D,'E/) DDE\$33) 'D*9DJEJ) HD7(J9*G' 'DE-'A8) H9D'B*' 'D*1'(7 (JF E.*DA 'DE\$33* EE' J-/Q EF -1J) 'D#A1'/ HE('1'1*GE. DB/ C'F 0DC ,DJ' AJ C*(' *AHCH H(H1/JH H:J1GE'. DCF G0' 'DFB/ B/ *:6I 9F /H1 'DE/13) AJ %/E', 'D*D'EJ0 AJ 'DE,*E9 H*.DJ5GE EF 'D1*') CE' #FG *:6I 9F /H1 'DE/13) HE' J-J7 (G' EF .1,G' H9F H/H1G' AJ %9// 'D#7A'D H*1(J*GE HDCF E' JGEF' GH #F G0' 'DFB/ 'D1'A6 DE JA6 DE.1, H*5HQ1. J9H/ G0' 'D9,2 9F %J,/' D(/&D %DI ,EH/ AJ 'DB/1*' 'D.J'DJ) H'F9'E 'F(+B /D'D* ,/J) JECF DG' D' AB7 *,H2 'D#71 'D*1(HJ) H-/G' HDCF #J6' H('D.5H5 B'/1) 9DI *,H2 #2E) 'DE,*E9 B'7) H*01Q1 'DE,'D*' 'D*J EF 'DA1H6 #F *CHF #/) D',*E'9J) 'DA1/ H'F5G'1G AJ 'DE,EH9). A9DI 3(JD 'DE+'D %DI -/ 'D'F *9,2 'D/H'&1 'DE3\$HD) 9F 6(7 D-8) 'D*-HD %DI 3F 'DCGHD). #J 3F J3E- DD7AD #F J-5D 9DI *CHJF J.HQD DG #F J/.D AJ 9D'B) *1(HJ) E:'J1) A'DE\$33) 'D*1(HJ) *9'E/ 9DI 9F51 'D3F DD'F*B'D EF E3*HI %DI ".1 C'D*-HD EF A*1) 'D*9DJE 'D*-6J1J) HE' B(D 'DE/13J %DI A*1) 'D*9DJE 'DE/13J /HF '9*(1 DE' DG0G 'DB7J9) EF *#+J1 9DI FA3J) 'D7AD HE' J3((G 0DC EF 9FA. EF F'-J) #.11 H'9*(1' DD*-HD*' 'DE9'51) 'D*J 71#* 9DI 'DE,*E9 H('D#.5 :J('DB/1) 9DI 'D*E'GJ E9 ".1 H1E2 (HG0' ('1*(7 (*1',9 'DE1,9J* HGJEF) 'DF29) 'D*B'FJ) H'D9DEJ)) ADB/ #HCD DDE\$33* /H1 #3'3J AJ /E, 'D#A1'/ AJ 9EDJ) 'D%F*', H'DE,*E9 (5A) 9'E) (/! ('D9&D) HH5HD' %DI E\$33* 'D*9DJE. 'D(96 EF 'DE-DDJF J1HF AJ 'D9H) %DI 'D3D7) H'D9B'(H'D'F6('7 H'D*4/Q/ 'D-D 'D#E+D DCF G0' 'D-D 'D3-1J J*,GD -BJB) #F *E+QD 'D#A1'/ H'DE,EH9*' D' JECF #F J.69 D3D7) HD#E1 (-*1 H%F HB9 A16 0DC DE/) E-/H/)) HDCFG *5HQ1 0*J HDF JCHF (A9D 'DBH) H'D9FA 'DE3DQ7 9DJGE. C0DC A%F *-DQD 'D9&D) H*1',9 /H1G' 'D*BDJ/J D' J,(#F JF81 DG AB7 C9D'E) D#2E) 'DE,*E9 H'F-D'DG HAB'/FG DDE9'FJ HDCFG #J6' J-ED AJ 7J*G (01* *-1Q1 HB/ J9(Q1 9F 1:() 'D#A1'/ AJ 'D*-1Q1 'D0*'J (C'D*-11 EF 'D3D7) 'D#(HJ) AJ 'D9&D)). DCF 'F9C'3* 0DC *8D E*F'B6) HJ4H(G' 'D:EH6. ACDE' F*B/QE AJ 'D2E'F F, /#FA3F' E,(1JF 9DI 'D*3*\$D : GD #F G0' 'D*7H1 'D-'5D AJ 'DE,*E9 HAJ #H3'7 'D#7A'D H'D*D'EJ0 (5A) 9'E) J*1,E (/J) (1H2 H'F(+B #FE'7 ,/J) AJ 'D-J)' #E #FG 9D'E) 6J'9 H,EH/ AF-F FB/Q1 'D/H1 'D#3'3J DD9&D) AJ *+(J* 'DE9'JJ1 D/I 'D7AD H%9//G DD'F'E', AJ 'DE,*E9 HB(HDG ('D*-/J/ 'D0*'J H9/E 'D'F5J'9 D1:(*G 'D7AHDJ) H*ECJFG EF F3, 9D'B* E9 E-J7G H'D*.D5 EF 0DC 'D49H1 'DFA3J 'D(/&J ('DBH) H'D3D7) 'DD'E*F'GJ) DCF 'DB(HD (G0G 'DBH'9/ H'DBH'FJF H'DFH'EJ3 D' JECF #F J*-HD %DI

'DB(HD ('DEH,H/ H'D.FH9 DG (D D' (/ #F JCHF E5'(-) AJ 'D9'DE 'DE9'4 JB1Q (-BJB) #FQ 'DBH'9/ F'(9) EF 'DE,*E9 HD' .1,) 9FG. DB/ *.D* 'D9&D) 9F G0G 'DH8JA) ('3E -1J) E7DB) E29HE) DD7AD B/ **H-QD AJ (96 'D-'D'* %DI FH9 EF 'DF1,3J) */9J 'D/A'9 9F 4.5J) H#5'D) HA1'/) CD A1/.

AJ EDA #9/*G ,1J) 'D41HB (*1J. 16 ,FAJ 2012 FB1# E' JDJ :") (3((E' *-ED*G EF %5D'-* E.*DA) (#E2,) H#AC'1 E*6'1() AB/ AB/* 'DE/13) 1H-G' H*-HQD* %DI E,1Q/ (F'J) J1*'/G' 'D*D'EJ0 5('-' DJ:/1HG' E3! (CEQ BDJD EF 'DE91A) HCEQ G'&D EF 'DHB* 'D6'&9. AB/ .*AI E9DQE 'D#E3 0H 'D4.5JQ) 'D,0(J) H'DE3*HI 'D9'DJ EF 'D+B'A) 'D%F3'FJ) 'DH'39) 'D*J ECQF*G EF %/1'C E' J*1*Q(9DI 9EDG EF E3\$HDJ) *,G 'DE3*B(D H3'9/*G 9DI %/1'C 'DBJE 'D.DBJ) H'DE(/& 'D9DEJ) H'DEA'GJE 'DAFJ) HECF*G EF .*J'1 'D3(D 'D5-J-) AJ 'D*9'ED E9 'D-J') H%J5'DG' (#E'F) DD*D'EJ0 'D0JF J*91QAHF 9DI 'D9'DE EF .D'D G0' 'DE9DQE....." DB/ 'F-/1 E3*HI 'D*9DJE HEF E9'DEG "'D%JG'E (F, '-* 4CDJ) HA4D* 'DE\$33) 'D*9DJEJ) AJ 'D*HAJB (JF 'D*CHJF 'DE91AJ H'D9DEJ DDF4&) EF F'-J) H*13J. 'DBJE 'D%F3'FJ) H'D*F4&) 9DI 'DEH'7F)Â« HJ6JA H2J1 'D*1(J) 'D3'(B : Â» DB/ #5(-* 'DE/13) 'D*HF3J) A6! D-4H 'D#/E:) #J A6! *DBJFJ" HEF 9D'E* 1/!) 'DEF8HE) 'D*1(HJ) *DC 'D9D'B) 'D:1J() (JF 'D#HDJ! H'DE/13) %0" (E,1Q/ #F J*CDQE 'DE9DQE E9 *DEJ0G F5-' -*J G1HD #HDJ\$G %DJG 4'CJF HE.'5EJF HB/ J5D G0' %DI -/Q *G/J/G H#-J'F' #C+1 EF 0DC". J(BI #F 'D-DHD 'DEB*1-) DE **9/QI 'D%5D'-* 'DB/JE) -J+ *B9 'D/9H) "DD'3*F,/ (#5-'('D.(1) H'D'.*5'5 HEF DGE /1'J) H'39) ('DEH6H9" HC#F 'DE3#D) /'.DJ) H*BA -/H/G' 9F/ ,/1'F 'DE/13).

D3F' GF' (5// 'D(C!' 9DI 'D#7D'D HD' ('D-FJF D9G/ 0G(J HGEJ 9DE' (#F 'D*-HD*' 'D*J *91AG' CD E,'D* 'D'F/E', 'D,*E'9J (E' AJG' 'DE\$33* 'D*9DJEJ) B/ *E+D E,'D' .5(' D(1H2 1\$1 H*5H1'* *-11J) HEF7DB' DD.DB H'D'(*C'1 HDCFF' FD'-8 #F 'DE,*E9 J9J4 HC#FG EF5G1 AJ *1J. E'6J H**J AJ FA3 'DHB* J-ED AJ 7J*G E9'FJ *F(+B EF 'DE,*E9 D' (5A) %1'/J) HDCF CF*J,) 7(J9J) D*7HQ1 'D#EH1. AJ G0' 'D%7'1 HG0G 'D5H1) 'D9'E) F*3!D : #J E9FI DD*9DJE HDDE\$33) 'D*9DJEJ) E' GJ 'DE9DHE* H'DE9'1A 'D*J *B/QEG' G0G 'DE\$33) %0' C'F 'DE,*E9 D' JB/1 9DI *5HQ1 0*G CE' GH 9DJG H%0' C'F* CD 'D#(9/ 'D.'5) ('DF8'E 'D*9DJEJ H'DBJE H'DE9'JJ1 'D*J *4J1 DG' B/ AB/* CD E9FI ('DF3() DD,EJ9

-IV- -HD 'DE,*E9 'D(J/':H,J :

DE'0' 'D*9DJE D#J G/A HHAB #J H3'&D HEF'G, D' JECF #F F-5D 9DI 'D,H'(3HI EF 1-E 'DE9'JJ1 'D*J *-CE 'DE,*E9. AJ 'D-BJB) F-F F1+ F8'E' *9DJEJ' E3*H1/ AJ GJCD*G HF8'EG EF 'DE,*E9* 'D:1(J) 'D*J #13* /9&E E/13) ,EGH1J) *3*E/Q ,0H1G' EE' '57D- 9DI *91JAG ('D-'/+). AJ 'DB1F 'D*39 941 -/Q/* #G/A 'D*9DJE 'D9EHEJ AJ "CHJF 'DEH'7FJF 'DE3*BDJF HF41 'DE(/& 'D#HDJ) DD+B'A) 'DE9'51) H%JB'8 'D9BDJ) 'D1*J() H'DE*.DQA) D3C'F 'DEF'7B 'D1JAJ)". DCF HAJ FA3 'DHB* *,H2 'D/H1 G0G 'D#G/A D**H-J/ 'D#E) ('DB6! 9DI 'D*FH9* 'D,GHJ) H'DD:HJ) H:13 'D1H- 'DH7FJ) D/I 'D*D'EJ0 H'DHD! DE(/& 'D+H1) 'D/JEB1'7J) H#-/+ #.11 *1E2 DF4#) 'D#E)". EF0 'DD-8) 'D#HDI J*1!! DF' .D7 (JF E(/& /JEB1'7J) H#.11 D' /JEB1'7J) HG0G 'D#.J1) B/ -HQD* #G/A 'D*9DJE 'D9EHEJ %DI #BDE*G E9 'D#G/A 'D5F'9J) #J #G/A 'D%F*', 'D5F'9J. A'DG/A 'D#3E1 DDE/13) 'D,EGH1J) J(12 AJ '1*(7 H+JB E9 'D41H7 'D*1J.J) H'D',*E'9J) DDE,*E9 'D0J (12* AJG'. DG0' ACD /9H) D%5D'- B7'9 'D*9DJE /HF '9*(1 DG0' 'DE97I 'D,HG1J J8D 9ED' E"DG 'DA4D 'D01J9. A'DFB'4 'DE:4H4 H'D.'7& (JF -/+JJF HE-'A8JF #H (JF E9'51JF HE*4(+JF ('D#AC'1 'DB/JE) J1*C2 9DI HGE J4*1C AJG 'D71A'F EA'G #F 9H'ED #2E) 'DE/13) CE' 3(D 9D',G' 'DEECF) *CEF AJG' HEF /'.DG' #H AJ 'D(1'E, 'D*9DJEJ) H'D-'D #F 'D81A 'D9'E 'D0J J\$71 DD*9DJE GH 'DE3\$HD 9F CD 0DC. -*I AJ -D) *F'B6 'D%5D'-* H*(JFG' D' J*(/1 D0GFF' HDH DD-8) #FG' DE *.69 D/1'3) 9EJB). AG0G 'D%5D'-* 'D*J *(/H DDHGD) 'D#HDI E*9//) *F/1, 6EF FA3 'DE41H9 'D4'ED. DJ3 'DE,'D GF' DD*F/J/ (E\$E1) E29HE) HDCF 9DJF' #F D' F.*1Q #J6' ('D92JE) 'D*J *BA H1! G0G 'DE-'HD* 9DI 5/BJ*G'. AJ 'D-BJB) H1:E **DJ G0G 'DE4'1J9 H*9'B(G' DE J-D 0DC /HF */GH1 'DE3*HI 'D*9DJEJ HB/ *91Q6 D0DC 9/J/ 'DEAC1JF .5H5' AJ 'D:1(. AG0' 'DEACQ1 'DA1F3J Jean Claude Michéa J-/F' 9F Â« *9DJE 'D,GD Â» HG0' 'DEACQ1 'D#E1JCJ Christopher Leach J5A /H1 'DE\$33) 'D*9DJEJ) AJ Â« (+ (D'/) 'D0GF Â» HCD 0DC J(12 *-HD' #F+1H(HDH,J' D' *BA H1!'G 'DE\$33) 'D*9DJEJ) A-3((D CD 'DE,*E9 'D:1(J HC0DC E,*E9* (D/F 'D,FH('D*J E' A*&* *3'J1 'DEH,) 'D9'DEJ). 'DEAC1) -F) #1F/* Hannah Arendt AJ C*(G' Â« #2E) 'D+B'A) Â» *D.5 G0G 'DH69J) CE' JDJ :." JBHE 'DE/13HF (/H1 'DEE+D D9'DE DE J3'GEH' AJ H69G HDCFG E J491HF (H', (*-ED E3\$HDJ) 'D-A'8 9DJG -*I H%F C'FH' J(*:HF AJ B1'1 #FA3GE *.7JG H*5HQ1 4J! E:'J1 DG. 9DI CD EF J1A6 *-EQD G0G 'DE3\$HDJ) #F J*,FQ(%F,('D#7A'D #H *-ED E3\$HDJ) *1(J*GE". %0' :>(* 'D1:) AJ 'DE3'GE) AJ (F! E,*E9 A#J E3\$HDJ) 9DJF' *-EDG' H*,G #J 9'DE HE,EH9) D'

:1') AJ #F J*ED5 'D,EJ9 EF E3\$HDJ) *1(J) 'D#7A'D. A'DD'E3\$HDJ) #5(-* 3E) .'5) DDA1/ 'D#F+(HDH,J 'D,/J/ 'D0J 4G/* (1H2G 'D9BH/ 'D#.J1). AJ E,'D 'D*9DJE *,3Q/ 0DC AJ 0DC 'DHGE 'D0J J1HQ, DG H'D0J EA/G #F GF'C *7'(B *'E (JF 'D*1(J) H'D*9DJE #H (JF 'D*1(J) H'D/1'3) H(JF 'DE1(JF H'DE/13JF (BD DDE9DQE HAQG 'D*(,JD C/ 'DE9DQE #F JCHF 13HD') H*,3QE #J6' AJ *6.JE /H1 'DE/13) AJ *1(J) 'D#7A'D. BJ G0' 'D%7'1 J,(#F FAGE '-*C'1 'DE/13) D9/J/ 'D#F47) HE,'D* 'D*9DJE 'D*J C'F* AJ 'D3'(B EF E4EHD*' 'D9&D) 3H!' *9DQB 'D#E1 ('D#4:'D 'DJ/HJ) H'D9&DJ) #H ('D*1(J) 'D#.D'BJ) H(*H,JG 'D3DHC H-*I AJ 'DB6'J' 'DE*9DB) ('DE3'&D 'D,F3J) (HG0' 'D#.J1 ,DJ ('D.5H5 AJ 'D(D/F 'D:1(J)). DB/ 'A*C* 'DE/13) HH3'&D 'D%9D'E H'D*5'D EF 'D#HDJ! 3D7*GE. A'D+B'A) 'D,E'G1J) EF .D'D 5F'9) 'D/9'J) HH3'&D 'D%9D'E H*HAJ1 'D./E*' 'D5-J) B/ '3*-H0* 9DI ,2! G'E EF 'DH8'&A 'D.'5) (/E, 'D7AD AJ 'DE,*E9 H'D*J C'F* *HCD 9/) DD9'&D). *,/ G0G 'D8'G1) 'DE*E+D) AJ *.DJ 'D9'&D) 9F 9/J/ 'DE3\$HDJ*' 'D5'D- H3'&D 'D/9'J) H'D%9D'E H'DE\$33) 'D*9DJEJ) *A3J1' DG' AJ 9EDJ) 'D*E/13 0*G'.

DB/ (FJ* AC1) 'D*E/13 0*G' 9DI *9'16 *E E9 'DEE'13* 'D*1(HJ) 'DEH,H/) H'D-'5D) H'DE*1'CE) 9DI E/I 'D*1'J.. GJEF* 'DE/13) 9DI CD ,H'F('D*9DJE H'D-5HD 9DI 'DE9'1A (5A*G' 'DH3JD) 'DH-J/) DD*1(J). 1:E CD E-'HD*' 'DEB'HE) H'D*1/Q/ 'D*J 91AG' 'D*1'J. AB/ HB9 A5D 'D7AD 9F 'DCGHD H%(9/G 9FGE DJDBI (G (9/ 0DC AJ 'DE,*E9 HB/ 5'-(0DC 'F:D'B JC/ JCHF *'E' DD7AD E' A*& J*9ELB HGJ 8'G1) *- (H*H'C(8'G1) 'D*E/13. EF F'-J) #.11 2/* 3FH*' 'D*/1J3 3H!' ('DF3) DD#7A'D #H 'DCGHD (-J+ #,QD 'D'F/E', AJ 'DE,*E9 %DI 3F E*B/QE). #5(-* 'D*1(J) H'D*9DJE -C'1 9DI 'DE/13) H9DI 'DE\$33) 'D*9DJEJ). C0DC 3'GE FH9 .5 EF 'D(J/:'H,J) 'D951J) AJ *9HJ6 #4C'D 'D*1(J) EF .D'D 'D#D9'('D9AHJ) H'DF4'7* 4(G 'DE/13J) HAJ A16 FH9 EF 'D3D7) 'D(J/:'H,J) HG0' ,DJ ('DF3() DD#7A'D (-J+ #5(-* CD 'D#D9'(*+BJAJ) (E' AJ 0DC (96 'D(1'E, 'D*DA2J) 'DE9/Q) DD#7A'D.

DCF G0' 'DE+'D 'DHGEJ D/1'3) *7HD 3FH*G' H*9*(1 C417 #HDJ DCD *B/QE HG0' 'D>(*C'1 'D,/J/ 9DI -/Q *9(J1 PChristopher Leach H'DE1*(7 E(41) H(5A) D' *B(D 'D'FA5'E (*B/E 'D#EE 9D'H) 9F #FG J,FQ('DCGHD *-ED ,2! G'E EF E3\$HDJ) *1(J) 'D#7A'D 'D*J C'F* EF E4EHD*GE J-HJ AJ CFGG 9F'51 G/E) HE*9'16) E9 'D:'J) EF *1(J) 'D4'(. A'D*9DJE 'DE/13J JE/Q/ A*1) 'D4'(' HJ,9D 'D4'(' .69) DE1'B) ,3EJ) D5JB) HAB *BJJE (J/:'H,J 51A HJA5DG 9F 9'DE 'DCGHD (D H#C+1 EF 0DC *(+7 92'&EG H*EF9G EF 'D(-H+ H'D'C*4'A*' 'DE3*BD) H*-HD /HF %EC'FJ) *E'GJG E9 *5H1* #.11 :J1 *DC 'DE9GH/) H'DE91HA). EF F'-J) #.11 4ED 'D*9DJE A&* H'39). ADB/ *H3Q9 EAGHE 'D*E/13 DJ7'D E.*DA A&* 'DE,*E9 EF .D'D *(FJ EAGHE 'D*9DJE 9DI E/I 'D-J') #J 'D'3*9// 'D/'&E DD*9'ED E9 'DE3*,/'* H'D*-HQD*' 'D*J JA16G' 'D*B/QE 'D*CFHDH,J HE' JA16G EF #FE'7 *3JJ1 ,/J). AJ G0' 'DE,*E9 'D(J/:'H,J *7:I %0F AC1) 'D*4(J('D/'&E. D' J,3Q/ G0' 'D*H,G 'DE9'51 AB7 G1(' EF 'E*-F 'DEH* H'DH9/ (4'(' J'A9 H/'&E EF .D'D 'D*9DQE HDCFQG JC1Q3 -D) EF B(HD 'DCGHD D7AHD) #H 4'(' /&E D#FQ 'DE,*E9 D' J9*1A 3HI ('D7'B*' 'DEF*),. EF F'-J) #.11 H(A9D *3'19 'D*-HQD*' 'D*CFHDH,J) J-3Q 'DCGD (-D) EF 'D9,2 'D/'&E 9F 'D*#BDE HGJ -D) #BD E' JB'D 9FG' #FQG' 7AHDJQ). 'D#/GI EF 0DC #FQ 'DCGD #5(- *DEJ0' J1*(EF 1HQ/ 'D-/+) 'D0JF DJ3H' AJ 'DH'B9 3HI #('F'IG 'D0JF J1I AJGE E+'D) DD*#BDE (D H-*I DD-CE) (E' #FGE J*E*Q9HF (B/1* A'&B) *ECFQGE EF 'D*A'9D E9 'D7A1*' 'D'DC*1HFJ) 'D*J J4G/G' 'D9'DE. J,3Q/ 'D4'(' 'DFEH0, 'D#C+1 5A!' H'3*,() DD41H7 'D9'E) H'D9EJB) 'D*J J,(#F JCHF 9DJG' %F3'F 'D951. %0F 9DJF' #F FCHF 9DI '3*9// /&E DD*B(QD. H-/G' 'D9/'* 'DEA1H6) H'D.'1,) 9F %1/'*F' *- /Q/ DF' E4':DF' H#FE'7 9J4F' /HF #F J9FJ 0DC ('D61H1) #FQF' '3*F(7F'G' #H B/Q1F' BJE*G'. AF-F F.69 D3D7) *9,2 #F *9DF FA3G'. AJ 'D8'G1 F-8I (-BHB E-AH8) DCFQG' *8D 4CDJ) E' /EF' FA*B/ 'DB/1) 9DI 'D.'J'1 HF491 #F 9EDF' JAB/ E9F'G H#GEJ*G CDQ JHE. -J'D -J') E*.E) ('D#4J!' 'DE9/Q) DD'3*GD'C F491 (1'-) H#EF E'/QJ F3(J HDCFQG E5-H((-J1) HBDB. A'DBHQ) 'D*J *-EDG' 'D*CFHDH,J H'DHA1) 'D*J *5-(G' **1'AB E9 4CQ H1J() H.HA EF 'DE3*B(D.

-V- *@A@CQC 'DFQ@8'E 'D*Q9DJ@EJ

E' 'DE/13) GH E,'D J*,EQ9 AJG #7A'D H*D'EJ0 EF 3FQ E-/Q/) DD-5HD 9DI 'DE91A) HJ.69 F8'E 'D/1'3) AJG D(1F'E, H*HBJ* HF8'E 3DHC. 'D*5HQ1 'D:'D(D/I 'D#HDJ!' DDE/13) GH CHFG' -5F' DD#7A'D EF E.'71 'DE,*E9 H'D4'19 HGJ 'DH3JD) 'DH-J/) DD*1(J) H'D*9DJE H'D-5HD 9DI 'DE9'1A CE' #FQG' *3'GE AJ *- /J/ 'D3DHC 'D3DJE H'D#.D'B H*GJQ& 'D7AD DD-J') 'D',*E'9J) HDD-5HD 9DI 4G'/) *ECQFG EF 6E'F 4:D JCAD DG -J') C1JE).

J9(Q1 'D9/J/ EF 'DED'-8JF 9F BDBGE 'D4/J/ DE' "D* %DJG 'DE\$33) 'D*9DJEJ) 3H!' AJ 'D(D/F 'DE5FQ9) #H (D/F 'D,FH(A'D*DEJ0 'D0J J-12 9DI 4G'/) 'D(C'DH1J' J9,2 AJ :D('D#-J'F 9F *-1J1 F5Q /HF 'DBJ'E (#.7!' *1CJ(JQ)

HF-HJ) (3J7). EF F'-J) #.11 #5(-' DE\$33) 'D*9DJEJ) 'D*J J1'/ DG' #F *CHF #/) EF #/H*' 'D*1(J) E,'D' DD9FA H'D3(' H'D*G/J/* EE' ,9D 'DE/13JF J*0E1HF EF -D) 'D*3JQ(HJDBHF 'DDHE 9DI 'D#HDJ!' (JFE' J-EQD 'D#.J1HF 'DE3\$HDJ) DD#3*0) H'DE\$33) 'D*9DJEJ). (JF 3F) 1980 H3F) 2005 '1*A9* FAB*' 'D*9DJE AJ 'DHDJ*' 'DE*-/) 'D#E1JCJ) (F3) 73 ('DE'&) H2/ 9// 'D#3*0) E9 9// 'D*D'EJ0 HDCF 0DC DE J3'GE AJ *7HQ1 'DE\$33) 'D*9DJEJQ). AG0' (JD :J*3 JD'-8 AJ E-'61) 4GJ1) #FQ E'/13 'DHDJ*' 'DE*-/) 'D#E1JCJ) *91A %AD'3' 1GJ(' . A+D+ 'DE*-5DJF 9D 4G'/* ,E9J) AB7 B'/1HF 9DI 'DBJ'E (/H1GE C,'E9JJF. (JF 3F) 2000 H3F) 2006 *1',9* B/1) *D'EJ0 'DE9'G/ 'D+'FHJ) 9DI 'DB1!) (5A) ED-H8) AJ #3('FJ' H'DJ'('F H'DF1HJ, H%J7'DJ' HA1F3' H1H3J' HB/ *1',9* #J6' AJ EJ/F 'D1J'6J* AJ A1F3' H'DJ'('F H(D,JC' H:J1G' EF 'D(D/F 'DE5FQ9).

'DCDQ J*AB 9DI #FQ 'DE\$33) 'D*9DJEJ) AJ #2E) (/! ('DE3\$HDJF 9F 'DB7'9 'D*9DJEJ %DI 'D#HDJ!' H'DE/13JF H0DC EGE' *(JF* #AC'1GE H*,'G*GE H'DCDQ #J6' J*ABHF 9DI #F 7(J9) 'D#2E) **,3Q/ AJ 9/E *D*\$E 'D*9DJE E9 'DE,*E9 EF F'-J) HE9 EB*6J* E' J91A (@Â« 3HB 'D4:D Â». AD' 'DE/13) B/1) 9DI %9// ,JD J3*(7F (5A) CDJQ) E9'JJ1 HBJE 'DE,*E9 HD' GJ B/1) 9DI *HAJ1 J/ 9'ED) E.*5) B/1) 9DI *-EQD E3\$HDJ*G' AJ 'D/H1) 'D'B*5/J) CE' #1/ D0DC 'DE3\$HDHF. (7(J9) 'D-D JECF #F *(12 EF /'.D E\$33*' 'D*9DJE #4C'D DDFB/ H-*I 'DEB'HE) DE' GH EGJEF H3'&/ HE' GH EH1H+ HE' J1/ *(DJ:G EF .D'D 'D*/1J3. AJ .6EQ G0G 'D#2E) *F4# 51'9* H*('JF*' (JF /9) 'DE/13) (5A*G' E1C2' DF41 'D9DE H*(DJ: 'DE9'1A 'D-5D) H(JF #.11 *1CQ2 9DI ,F('D*CHJF H'D%9// 'D#,J'D B/1) 9DI 'D*#BDE E9 'DH'B9 'D'B*5/J H'D',*E'9J H9/) E' J-3('DEHBA 'D#HQD 9DI 'DJ3'1 (JFE' J-3('DEHBA 'D+'FJ 9DI 'DJEJF. AJ 'D-BJB) D' G0' HD' 0'C *ECQF' EF H69 #33 H.77 DD.1H, EF 'D#2E) DCHF EH'BAGE' D' *.DH EF 37-J) HF81) H-J/) 'D,F(. A'DE9DHE* D' *9FJ 'DE91A) H-A8G' D' J9FJ 'DB/1) 9DI 'D*-CQE AJG' H'D'F*B'D %DI E1-D) 'D%(/'9 H'D.DB H'D*1(J) DJ3* -C1' 9DI 'DE\$33) 'D*9DJEJ) CE' #FQ '-C'1 'DE\$33) 'D*9DJEJ) DDE9'1A B/ E+D #-/ 9F'51 #2E*G' 'D/.'DJ) G0' /HF '9*(1 'D*-HQD*' 'D',*E'9J) H'D3J'3J) H'D*CFHDH,J) 'D*J 91A*G' 'D9BH/ 'D#.J1) H'F9C'3*G' 9DI 'D'.J'1* 'D(J/:'H,J) EF F'-J) H9DI 'D*9DJE 0*G. #EQ' EF H,G) 'DF81 'DFA9J) 'D.'D5) AGF'C *5HQ1 7:J AJ #H3'7 'DEB1Q1JF EA/G #F *(DJ: 'DE9DHE*' DE J9/ ('D#E1 'D,HG1J (D D' (/Q EF *CHJF *D'EJ0 H*GJ*&GE DD*A'9D E9 'DE*.:JQ1*' .5H5' EFG' 'D*CFHDH,J). AJ 'D-BJB) D' *(DJ: 'DE9'1A 'D9'E) 'DEC*3() HD' 'D*CHJF 'D0J D' JG*E ('D-5HD 9DI 'DE9'1A (B/1 E' JG*E (%9// 'DF4& D3HB 'D4:D J3*BJE. A'D*CHJF JB*6J 'D-5HD 9DI 'DE91A) H'DE91A) 'D.'D5) D' **3E ('D61H1) DD*DEJ0 ('D*-11 H'D'3*BD'D H'D'F*B'D EF 'D-5HD 9DI 'DE9'1A %DI 'D*9DQE 'D0*J H'D(+ H'D.DB. DCF DB'&D #F JBHD : #JQ) E91A) H#J .DB H#JQ) E3\$HDJ) *9DJEJ) H#J) E(/1) HD#J E,*E9 A#G/'A 'DE/13) H'DE\$33) 'D*9DJEJ) (5A) 9'E) D' JECF AGE'G' 3HI 9(1 *5HQ1 4'ED DDE,*E9 HDD'.*J'1* 'D3J'3J) H'D',*E'9J) H'D*CFHDH,J) H-*I 'D(J&J). A'D49'1* 'D*J */9H D*9DJE /JEB1'7J HE\$33* *9DJEJ) 49(J) H*HAJ1 'D*9DJE DCDQ 'DEH'7FJF H9DI B/E 'DE3'H') *8D EFBH5) H%DI -/Q E' 37-J) D#FG' D' *FA0 %DI 9EB 'DE3#D). *9*(1 'DEACQ1) Hannah Arendt #FG EF (JF #G/'A 'DE/13) *CHJF 'D7AD H'D4'(EF F'-J) H6E'F *H'5D 'D9'DE EF .D'D *(DJ: 'DE9DHE*' H*F'BDG' ,JD' (9/ ,JD. DCF 'D7AD (-,). '5Q) DD-E'J) EF G0' 'D9'DE 'D0J B/ J-7QEG CE' #FQ 'D9'DE (-,). D-E'J) DCJ D' JB9 *.1J(G EF 71A EH,) EF 'D#,J'D 'D,/) H'DB'/E). %0F 'DE/13) E-'A8) HDCFG' *CHQF 4(' B/ J* ,H2 'D-/H/ 'D*J H69*G' 'DE/13) 0*G. *1J.J' *#3Q3* 'DE/13) 'D,EGH1J) AJ 'D(D/'F 'D:1(J) 9DI B'9/) HGE EA/G #FG GF'C *F'3B' (JF *7HQ1 'D*BFJ* AJ 'DE,*E9 H(JF 'D*7HQ1 'D0*J DD#A1/ HB/ AFQ/* 'D+H1) 'D5F'9J) 0DC ('9*(1 #FQ 'D9EQ'D DE JCHF' 3HI -DB) AJ 3D3D) EF 'D'DJ*' 'D'B*5/J) *.69 D*B3JE 'D9ED 'DE,2# H'DE91HA ('D*JDH1J). +EQ ,! HGE +'FJ J1I #FQ *7HQ1 'D#*E*) H'D%9D'EJQ) EF 4#FG #F J-1Q1 'D%F3'F EF 'D6:H7 'D*BFJ) HJA*- 'DE,'D D*-1Q1G H'3*BD'DG DCF 'D-BJB) 'D*J *(/H 'DJHE ('12) DD9'JF GJ #F G0' 'DE,*E9 'DE9DHE*' J H'D*CFHDH,J GH ('D/1,) 'D#HDI (-,). DEFA0JF B'/1JF 9DI '3*9E'D -H'3J(H'D*' #J E*ECQFJF EF E9'1A 9EDJ) /FJ HD' J3*/9J EFGE E91A) H0C'!. ADB/ .DF' 951 %J/JHDH,J' 'DE9'1A 'D9EDJ) 'D/FJ' H'DEGFJ) (#H 'D*CHJF 'DEGFJ 'DE-/H).

DF*HBA D-8) HDF3'&D G0' 'DE,*E9 'D1BEJ. E,*E9 'D#F'ED 'DA,H) 'D1BEJ) E,*E9 'DE9DHE*' 'D9'DE 'D'A*1'6J CDQG' E57D-* #5(-* E*/HD) AJ 951F' 'D-'61 (E' #F 'DE9DHE) 'D1BEJ) B/ 7:* H#5(-* 9'(1) 9F /E J:0QJ B7'9*' 'DE,*E9 HJ1(7 #,2!G. AEF 'D4'4*' %DI 'DGH*A 'DFB'D) H4(C** 'D*5'D H'D*H'5D %DI 'D#71'A 'D'DC*1HFJ) H'D5H1 H'D#AD'E H'D*B'1J1 *F*BD 'DE9DHE) AJ 4CD F5H5 HAJ/JH HE4'G/ (319) A'&B) D' *9*1A ('D-/H/ H'DE3'A'*. J/H1 'D-/J+ 'DJHE 9F 'A*B'/ G0G 'DH+'&B H'DE9DHE*' D7'(9G) 'DEDEH3 H'DE'/J (E' #F CD #4C'D 'D*H+JB H'DF41 'D9'/J EF 5-A HE,D* HC*(B/ 9H6*G' 'D4'4*' H'D#B1'5. *F4# CD JHE EF*/J* HA1B E,EH9* 1BEJ) **5D ((96G' 9(1 'D'A 'D#EJ'D /HF #F *D*BJ HDH JHE'. JECF E4'G/) (1'E, *DA2J) H#AD'E 9(1 GH*'AF' 'D,H'D) H/HF 'D*H,G %DI B'9) 3JFE' CE' JECF DDE\$33* H'DE5'F9 #F **.DI 9F 'DH+'&B H'DEDA* D*3*9J6 9FG' ('D*H+JB 'D1BEJ. **5'19 'D41C*' 'D9'DEJ) E+D E'JC1H3A* EF #,D 'DGJEF) 9DI E.2HF 'DE9DHE*' H'D*-CE AJG H*HAJ1G. 9DI E'*/ E3'-* H'39) *4J/

E\$33* E+D Google EB1* DG' *.2QF AJG' 'DE9DHE'*. EF 'DE9DHE #F 5F'9) 'DE9DHE' * Â« 'DD'E'/J) Â» FGE)
H*3*GDC CEJ'* G'E) EF 'DE!' H'DCG1(! HGJ 5F'9) EDH+). AJ HD'J) #HCD'GHE' #B1Q* 'D3D7) 'DE-DJ) B'FHF'
J3E- DDE\$33* 'DE.'5) AJ %F*', 'DCG1(! (9/E 'D*51J- (CEJ) 'DCG1(! 'D*J *3*GDCG' 'D5F'9) 'D1BEJ). AJ CD EF'7B
'D9'DE *9ED E\$33) Google 9DI (9+ EB1Q* DG' H**9'ED E9 E\$33* EF'HD) EGE*G' *H2J9 'DE9DHE' CE' *F4&
F3J,' EF 'D9D'B* E9 'D,'E9* D5F9 #F8E) .(J1) Logiciel B'/1) 9DI '.*5'1 'D2E'F H'D-/ EF E/) E9'D,) 'DE9DHE). *-DA*
Google E9 IBM D*HAJ1 3-() EF EB/EJ 'D./E*' 'D1BEJ) Serveurs. #E' E\$33) HP ADB/ '4*1* E\$33) EDS (E(D: 14
EDJ'1 /HD'1. CD EB/E DD./E* J39I %DI *HAJ1 'DE9DHE' D-1A'&G HJB/E %:1!' *E*FH9) HE*9//) D'-'C'1 #C(1 9//
EF 'DE4*1CJF. '3*BD'D '#A1/' H'DE\$33* H-* 'D#EE DE *9/ B6J) E,'D ,:1'AJ HE4*1C HDCFG' #J6' E1*(7) ('D5F'9*
'D,/J) 'DE.'5) AJ 'D%F*', 'DD'E'/J. AG0G 'DE\$33* 'D*J *B/E 'D./E*' 'D1BEJ) #5(-* B'/1) 9DI %/'1) 'DE9DHE) H'D#A1/
(E' AJ 0DC GHJ*GE H-',J*GE H*B/QE 'D./E*' 'DE9DHE'J) DDE\$33* 'D5F'9J) CJ *F/E, AJ E,*E9 'DE9DHE'*. ADB/
*:JQ1 EAGHE 'D'F*E'! D*9H6G EA'GJE HE57D-* E+D 'D-1JA H'DA1/ H'DE\$33) HJ*H-/ 'D,EJ9 -HD E-H1 H'-/ GH
'D'3*GD'C H'D-5HD 9DI 'DE9DHE) H*(DJ:G'. J(BI #F 'DE9DHE) 'D1BEJ) *1*(7 (%F*', E'/J EDEH3 H#F E,*E9 'D./E*'
'D1BEJ D' JECF #F J*:'6I 9F 'D-B'&B 'DE'/J). AF-F D' FD(3 HD' F#CD HD' F3CF E9DHE' D' E'/J). D' JECF AGE Â«
'D+H1) 'D1BEJ) Â» /HF 1(7G' ('DE41H9 'D/HDJ 'D0J J*E-H1 -HD 'D*',1) 'D9'DEJ) H*-HJD 'D9'DE %DI E,'D *,1J
9'DEJ *BH/G E\$33* 9'DEJ) *-D AJG 'DHD'J* 'DE*-/) '#E1J3J) EHB9 'D5/'1). AG0' 'D1BEJ H'DD'E'/J J9*E/ 'DE'/J
('D* EH/ E5'F9 ...) HJ1*(7 ('B*5/ 9'DEJ E'/J H-BJBJ. GH J-ED AJ 7J*G E41H9' CHFJ' HJ3*F/ D1\$J) 9FH'FG' :
'DCD 'D*',1J 9DI -3(' 'DE-DJ H'D,GHJ H'DH7FJ. DCF 'D#2E) 'DE'DJ) 'D9'DEJ) 'D#.J1) B/ #(12* DD,EJ9 -H/ G0'
'DE,*E9 'D1BEJ H'D'A*1'6J H#9/* DD#0G'F -B'&B *1*(7 ('DH'B9 'DEDEH3. E' 9D'B) CD 0DC (#2E) 'D*9DJE
H'D*4:JD F9H/ HFBHD GF'C *9DJE F.(HJ 4/J/ 'D'.*5'5 E1*(7 #4/Q '1*(7 ('D/H'&1 'DE'DJ) H'DE\$33* 'D/HDJ) 3H'!
(5A*G' EEHQD) #H E4:QD) HGF'C *9DJE #3'3J H'39 D' J*7DQ(*HAJ1 E9'1A H+B'A) HDCF *GJ&), JD H'39 DE' #5(-
J91A ('DCA!'* H'DCA!'* 'DEGFJ) DDBJ'E (4:D E-/H/ 'D'.*5'5 HB'(D D%9/) 'D*#GJD 9DI 6H! 'DE*:'JQ1* 'D*CFHDH,J).
%0F DB/ 'FG'1* *DC 'D5H1) 'DE+'DJ) 'D*J *,9D 'D/H1 'D#3'3J DDE\$3Q3) 'D*9DJEJQ) *ECJF CDQ 'D#7A'D
H'D*D'EJ0 H'D7D() EF #/H* *3E- ((F! 9D'B* A1/J) H,E'9J) E9 'D9'DE 'DE-J7 (-J+ J3'GEHF AJ F-* E9'DEG CDQ
E1Q). DCF D3'&D #F J3#D : EF 'D0J B1Q1 #FQ G0G 'DE\$33) GJ 'DH-J/) 'DE\$GQD) D0DC #DJ3* 'DE\$33)
'D*9DJEJ) C:J1G' EF 'DE\$33* *5HQ1' .J'DJ' (41JQ' B/ '1*(7* *1J.J) (#G/A ',*E'9J) H3J'3J) E-/Q/) +E #D' JE+D '-*C'1
'DE\$33) 'D*9DJEJ) DG0G 'DEGEQ) #-/ #3(' A4DG' H#2E*G' AG0G 'D%5D-* 'DE*9B() DE *9/ *,/J. EF F'-J) #.1I
F9'JF *1/QJ 'DE3*HI 'D9DEJ H'D+B'AJ DD*D'EJ0 H'D7D() H'9*E'/ 3J'3* *3*F/ %DI E' #7DB 9DJG 'D(96 (/1'3) 'DF,-.
A'DEGE GH 'D'F*B'D EF B3E D'.1 H'D-5HD 9DI 'DE9/QD*' 'D*J *3E- ('D'1*B'! H3JBHE 'D'F*B'! (A12 'DF.(. A3H'! F'/
'D(96 (E' F7DB 9DJG ,(EG1) 'D*9DJE #H (*.5J5 'D*9DJE .5H5' EFG 'D,'E9J DD#BDJ) 'DB'/1) 9DI E3'J1) 'D(1'E,
HA16 'F*B'! 5'1E A%F 'DF*J), *(/H E*B'1() %0 FD-8 */FJ 'DE3*HI 'D*9DJEJ (JFE' DE *9/ 4G'/* 'DF,- CAJD) (6E'F
'D4:D. AJ 'D-BJB) D' J9H/ *ACC 'DF8'E 'D*9DJEJ %DI 'F9'E 'D*E/13 #H FB5G H*1',9 'D1*('D9'DEJ) DD,'E9* CE'
J*1!! DD(96 'DEHD9JF ('D-3'(* H'DEB'1F** (JF 'DE\$33* 'D*9DJEJ) (D %DI 9H'ED #.1I #4ED H#9EB. 9DJF' #F
FH,QG %5(9 'D*G'E %DI 'FG'J1 'D*9DJE CE\$33) AJ -/Q 0*G'. A9/) E' **,FQ(EB'1() G0G 'DE\$33) DD*5HQ1
'DAD3AJ H'D3J'3J H**D.Q5 AJ %,1!'* *BFJ) (-). AF-F #E'E *9DJE Â« 951J Â» J*5(Q(91B' HDCFG D'2'D J-'A8 9DI
H,H/G 1:E -D) 'D%1G'B 'D*J *7'DG. F9DE ,JQ/ #FQ /H1 'D*1(J) 'D*J JHA1G' 'D9'DE 'DE9'51 *1*C2 9DI *B/JE
'DE'/13 *9DJE' 51A' HÂ« E-'J/ Â». DCF G0G 'D#.J1) *1HQ, JHEJ' EF .D'D H3'&D 'D%9D'E H'D*5'D D3J'3) H9E1'F
H5-Q) HAFHF... AG0G 'D*1(J) *E'13 AJ CDQ 'D#E'CF HAJ CDQ D-8). J9(Q1 9F 0DC 'DEACQ1 C'3*H1J'/J3 (EBHD)
4GJ1) : ,/1'F 'DE/JF) H'DC*('H'D91H6 H'D#-/' + *1(J- JOFA. AJ CDQ +BH('DE,*E9'. #AD'7HF C'F J\$CQ/ EF0 9GH/
.D* #FQ 'DE/JF) *1(J 'D#7A'D H'DEH'7FJF. DCF E' *:JQ1 AJ 'D9BH/ 'D#.J1) .5H5' GH #FQ G0G 'D*1(J) 'D*J *-5D
EF .D'D ,/1'F 'DE/JF) D' *\$/QJ %DI *1(J) *3E- ('D'3*BD'D 'D0*J H'D*J E+QD* %DI -/Q (9J/ H.D'D 'D*-HQD*'
'D*1J.JQ) 'D*J 91A*G' 'D49H('DE+D 'D#9DI H'DG/A 'D3'EJ ('D+H1) 'DA1F3J)-D#FH'1-EB'HE) 'D'3*9E'1-*CHJF
'D/HD 'DE3*BD)...). AAJ 'DA*1) 'D#HDI EF -5HD 'D(D/F 9DI '3*BD'DG' C'F 'DE9DE H'D#3*0 J-8J'F ('-1'E CE' C'F*
'DE\$33) 'D*9DJEJ) *-7 (B'/3) (5A*G' 'DH3JD) 'DH-J/) DD.1H, EF 'D*.DA H'D'D*-B (1C('D-6'1) H(F! 'D/QHD). DCFE'
'DJHE FD'-8 *-HQD*' 3J'3JQ) H',*E'9JQ) H'B*5'/JQ) D9DQ #GEQ 3E*G' GJEF) 'D.(1! H'DE-*1AJF AJ CD 'DE,'D*
H'D/H1 'DE*9'8E DD(1'E, 'D*DA2J) 'D3.JA) HE' *(+G EF #HG'E H'-*C'1 'D5H1 'D/9'&J) DDE,'D 'D(51J AJ 'D4H'19
HCDQE' J*F'B6 E9 'D*1(J) 3H'! 'DEH,G) DD#7A'D #H 'DEH'7FJF (5A) 9'EQ). A(96 'DED5B* 'D/9'&J) *4J1 %DI #D9'(
'DAJ/JH 'D*J D' *.DH EF 9FA HB/ *H-J (#-C'E E3(B). 'DCDQ J*0CQ1 *2'-E 'D#7A'D H'DE'1'GBJF D-AD DA1B)
EH3JBQ) HE' F*, 9FG EF EH* H,1- 9// EF 'D-'61JF H0DC (9/ #F 7(QD* DG' H3'&D 'D/9'J). 'DJHE DE *B*51 'D/Q9'J)
9DI ,D('D'F*(G DEF*H, E' ('D*91Q6 DE2'J'G 'DE29HE) (D %FQG' *5F9 EF*H,G' 0*G : %FQG 'DE3*GDC 'D0J J491
/'&E' #FG DE J4AJ :DJDG HJ*.(Q7 AJ -D) EF 'DBDB H'D:J8 EF 9/E -5HDG 9DI 'D#4J!' 'DE*HA1) H'D*J B/ J9,2 9F
41'&G'. 'D/Q9'J) Â« *1(QJ Â» 'D,EH9 9DI 'D49H1 ('D1:() 'D,-E) 'D*J DE *B9 *D(J*G' HDB/ #5(-* E+D *9HJ6' D#E'1'6
'D9'&D) HE5'9(G' HD-'D* 'DH-) H'D%1G'B H1(QE' 'D9B/ 'D,F3JQ). DB'&D #F JBHD E' 9D'B) 0DC ('D*9DJE

FBHD #F 'D#7A'D GE 'D6-J) 'D#HDI DCDQ 0DC. AEF EA'1B) 'D951 #FQG B/ #(/9 H*AFQF AJ %(1'2 'D4(' (H'9*(1GE FEH0,' DD3DHC 'DE9'51 AJ 'DHB* 'D0J J*916 AJG %DI 4*1 #FH'9 'DE9'ED) 'D3J&)' H'D*9'(AC1G H%-3'3G HB/1*G. GC0' HB9 %B1'1 3F) DD4('(. AF-F 4(' 'D:/ !!! DCF H3'&D 'D/Q9'J) H'D%4G'1 *1J/ EF 'D#7A'D H'D*D'EJ0 #F JBHEH' (/H1GE AJ 'D5AHA 'D#E'EJQ) AJ '.*J'1 'DEH/' 'D*J *3*GDCG' 'D9'&D) CE-1Q6JF D#HDJ'&GE D41!' CEJ* E*2'J/) EF 'D#4J'!. #EQ' 'DCGD AGH JB(D (-'D) EF FB5 'DF6, E6-J' (5H1) E+'DJ) DDCGHD) D5'D- 4(' /&E.

DB/ #5(- 'D7AD EF0 F9HE) #8A'1G E3*GDC' DD(1'E, 'D*DA2J) B(D #F J5(- *DEJ0'. AJ *-BJB #9/G A1/J1JC 2E1E'F AJ 'DHD'J* 'DE*-/) 'D#E1JCJ) *(JQF #FQ 40 ('DE'&) EF 'D16Q9 J4'G/HF (5A) /H1JQ) 'D*DA2) H#B1'5 'DAJ/JH H'D*3,JD* 'DE1&J) HB/ *(D: G0G 'DF3() 90 ('DE'&) ((DH: 'D7AD 'D3F) 'D+'FJ) EF 9E1G H0DC JHEJQ'. AJ A1F3' JE6J 'D7AD E9/QD 3'9*JF H15 /BJB) AJ E4'G/) 'D*DA2JHF JHEJ' HGJ E/Q) **,H2 CDQ F4'7 ".1. EF F*,&, GJEF) H3'&D 'D*5'D H('D#.5Q 'D*DA2JHF 'D-JDHD) /HF B'J'E 'D7AD (#F47) #.11 HDCF 'D#GEQ EF 0DC #FQG' F,-* AJ *-HJD 'D7AD %DI E4'G/ H-1JA B'1Q. A/E, 'D7AD AJ 'DE,*E9 EF .D'D 'D*DA2JHF J9FJ 'D*-/J/ EF 9D'B'*G E9 E-J7G 'D(41J 'DE('41 H-*I 'D-JDHD) /HFG'. %FG' 9EDJ) /E, /HF *5'D E('41 H/HF 9D'B'* E9 #J C'F J.69 DG' 'D7AD H0DC /HF EB'HE) #H 1/Q A9D J0C1 #H 'D*9(J1 9F '.*D'A HJ,F(G 0DC 'DE5'9('D*J B/ *8G1 ('D61H1) .D'D 'D9D'B'* E9 'D'.1JF. D' FF3I #J6' #F E4'G/) 'D*DA2JHF 9/) E' J5-(G' *F'HD 'DE41H(* 'D:'2J) H'D#CD* 'DE61Q) ('D5-Q). EF (JF 'F9C'3* .6H9 'D7AD D#,G2) 'D/9J) *DC 'DE*9DB) ('D3DHC (9/E '3*B1'1 %6'9) 'DHB* AJ 'D*FBD EF E-7) *DA2J) %DI #.11 69A 'DB/1) 9DI 'D*1CJ2 'D'FB7'9 9F 'DH'B9...). F6JA D0DC 'D*#+J1* 0* 'D7'(9 'D%/J/JHDH,J H'D*J JECF *D.J5G' AJ 'D49'1 'DE*9'1A : " *-5QDH' *E*Q9H' E' #ECF DCE. #E' E' 9/ 0DC AGH +'FHJ H.J1 0J BJE)". J*#+1 'D#7A'D -*I ('DGF'E : ,JF2 G'(7 '3*9E'D Â« 'D,'D Â» '3*9E'D 'DG*A 'DE-EHD CH3JD) D3E'9 'D#:'FJ... AJ E98E 'D-'D* 'D*J J*H,G AJG' 'D7AD %DI H3'&D 'D/9J) H'D%9D'E DD-5HD 9DI 'D*1(J) H'DE9DHE) JA',# ('D.5H5 (5H1) D0* 9FJA) HEE2QB) J*E'GI E9G'. #.J1' J\$/QJ 0DC %DI 'D'3*9'6) 9F 'DB/1) 9DI 'D*.JD H'D.DB ('DDGH 'D3.JA. A#7A'D G0' 'D951 J9J4HF E9 ,G'2 'D*DA2) H#D9(' 'DAJ/JH H'DGH'*A 'DE-EHD). %FQGE J3E9HF HJ4'G/HF H9F/E' J491HF ('DA1': J-+HF #HDJ!'GE 9DI 'D41!' HJD-QHF AJ 'D7D(D#FGE D' J*.JQDHF H3JD) #.11 DD'F4:'D AJ 4J! E' :J1 'DE4'G/) H'D41!' H'D'3*GD'C. D' E,'D D*7HJ1 'DB/1*' 'D0GFJ) 9DI 'D>(*C'1. CDQF' J9DE #FG JECF *5HQ1 B5Q) #H #H6'9 EF .D'D #D9(' (3J7) B/ D' *1BI %DI B/1) 'DH3'&D 'D/9'&J) 9DI 'D#.0 (EG, 'D#7A'D. A*7HJ1 'D.J'D 'D.D'B DD#7A'D H'DB/1) 9DI 'D:H5 AJ 9'DE 1-(C'F* EF (JF 'D#G'/A H'DE4EHD*' 'D1&J3J) DDE/13). A1:E E-/H/J) 'DE9DHE*' 'D8'G1J) H'D*J D' *(D: 'DE3*HI 'D*BFJ 'D0J *3E- (G *BFJ* 'D*5'D *.*AJ 1:(,) ,EH-) AJ 'D*5HQ1 H'D-DE. -*I 'D5H1) 'D(3J7) 'D#C+1 *4HQ4' H:EH6' B/ *H-J DD7AD ('D3A1 AJ 9'DE 'DE9'FJ H'DAC1 H'D#.JD) H-*I /B) 'D*H'1J. H'DHB'&9 AGJ D' *EF9 'D7AD EF 'D9H/) DDE'6J HD#-/'+ HB9*. AG0G 'D9DHE 0*'G' **-/Q+ 9F E('G, 'D7(J9) H#D:'2 'D9'DE. 'DJHE *:JQ1* #33 H1C'&2 9EDJ) 'D*.JQD D/I 'D7AD D-*C'1G' 'D5H1) H'DE4G/. A*7HQ1 'D*5'D 'D,E'GJ1J H.5H5',G'2 'D*DA2JHF B/ :JQ1 AJ 'D#3'3 'D41H7 'D*J *CJQA FEHQ 'D7AD H('D*DJ :JQ1 (5A) ,HG1J) 'D9D'B'* (JF 'D7AD H'DE/13). A'D5F'9) 'D*DA2J) *B6J 9DI #33 'D*1(J). AE' JBHE (G 'D#HDJ!' H'DE1(QHF EF F4'7 /\$H(HE1J1 D*(DJ: 'D7AD EF0 F9HE) #8A'1G #GEQ *1'CE*' 'D-6'1) 'D%F3'FJQ) *F.1G 'D5F'9) 'D3E9J) H'D(51J) JHEJ' EF .D'D *BFJ* 9FJA) H3.JA) AJ FA3 'DHB* 'D0J *H,QG AJG #5'(9 'D*G'E DD9'&D) HDDF8'E 'D*9DJEJ (5A*GE' 'DE3\$HD'F 9F G0' 'D'FGJ'1 'D0J *91AG 'D*1(J). DCF DE'0' *.D* 'D9'&D) 9F E3\$HDJ*'G' JA3Q1 (96 'DJ3'1JJF 9/) '3*B'D) 'D9'&D) (*GH1 'D-'D) 'D',*E'9J) DD9'&D*' (-J+ JF4:D 'D#HDJ!' AJ 'D9ED DC3('DBH* HJ9,2HF 9F *HAJ1 'DHB* 'DC'AJ DD9'F'J) (#(F'&GE. E'0' JCHF EHBA 'D7AD EF #(H#EQ J9,2'F 9F *HAJ1 E' *(+QG H3'&D 'D/9'J) EF %4G'1 HE' J*HA1 D:J1G EF 'D#7A'D AJ 'DH'B9 G0' 'D*A3J1 H-J/ 'D,'F(D#F *1',9 /H1 'D9'&D) D' J.5Q AB7 'D7(B*' 'DABJ1) H%F C'F* G0G 'D8'G1) #9EB AJ #H3'7GE. EF 'DEA'1B) #F 'D9'&D) B/ *-HQD* %DI ED'0 H-E'J) HG0' ('1*(7 (*BDQ5 'D9D'B*' 'D',*E'9J) H*9EQB 'DA1'/FJ) 'D6JB). +EQ %F 'D9'&D) 9/) E' *1A6 */.QD #J 3D7) .1,JQ) EH,QG) %DI #7A'DGE (D #FQG AJ 9/J/ 'D-'D* J*5D 'D#HDJ!' ('DE/1Q3JF E-*,JF 9DI 9B(3D7HG 9DI #(F'&GE E9*B/JF #FQGE B/ B'EH' (/H1GE 9DI #-3F H,G H1(H' #F!'GE #-3F *1(J) (D #FQGE #J6' H-/GE 'DE3\$HDHF 9F 0DC G0' AJ 'DHB* 'D0J J7'D(HF AJG 'DE/13) ('D9'F'J) (*G0J(3DHC #(F'&GE H*1(J*GE. #E' 'DE,'D 'D.'1,J AGH J(/H DD#HDJ!' E.JA' HE-AHA' ('DE.'71 H'D*#+J1* 'D3J&) H'D-'D #FG EF 'DEA1H6 #F J,3Q/ 'DE,'D 'D9EHEJ (9/ #F HB9 %9// 'D7AD EF 71A 'D9'&D) H'DE/13). J*F'3I G\$D!' #F 'DE.'71 'D-BJBQ) *#*J EF /.'D 'D(J* HEF 'D4'4*'. ('DEB'(D FD'-8 *1',9' G'E' DDE,'D 'D9EHEJ 9F *1(J) 'D7AD (JFE' *A4D 'D9'&D) AJ *(DJ: "1'&G' HA16 *5HQ1*'G'. A'D*DA2JHF J:13 AJ 0GF 'D7AD .D7' (JF E' GH H'B9J HE' GH HGEJ (JF 'D#F' H'D".1 (JF 'D-6H1 H'D:J'(+E G'GJ 0J 'DFJHDJ(1'DJ) 'DA'-4) (5// 'DB6!' 9DI CDQ 'DE\$33* H'D#4C'D 'D,E'9J). A5F'9) 'DA1/ 'DE9'51 'D0J 3'GE* AJ 5J:.*G 'D4'4* H'DE\$33) 'D*9DJEJ) DE *\$/Q 3HI %DI */FQJ 'DH8JA) 'DFB/J). A'D#HDI **3((AJ '671(AJ 'D9'DE 'D1QE2J H'DFA3J DD7AD H'D+'F'J) *9DQEG #F 'DE9FI 'D-BJB DD*9DJE GH E1'CE) 'DE9'1A H'D-5HD 9DI 4G/'*.

9/) E' JF-51 FB/ 'DE/13) 'D*9DJEJQ) AJ *BJJEG' EF 'D/Q'.D (3DHC 'D*D'EJ0 - EHBA 'DE/13JF - 'D9D'B) (JF 'D*DEJ0 H'D#3*0 - (1'E, 'D/Q1'3) - 'DB6'J' 'D(J/':H,JQ) - F3('DF,-...) HDB/ 'G*EQ 'D9/J/ EF 'DEACQ1JF H9DI 1#3GE 'DEACQ1 'DFE3'HJ Ivan Illich ('DEH6H9 H0DC AJ C*(4GJ1 : "EF #,D E,*E9 /HF E/13)" -J+ FB/ 'DE\$33) 'D*9DJEJQ) H#(12 A4DG' EF .D'D *1',9 'DE9'1A H*/FQJ 'DE3*HI 'D*9DJEJ H'D+B'AJ DD*D'EJ0 H*1',9 'DAC1 'DFB/J D/I 'D*D'EJ0 H'D#3*0) 9DI -/Q 3H'!

J9*B/ Ivan Illich #FQ 6E'F *1(J) CHFJQ) EF .D'D 'DE/13) E41H9 :J1 B'(D DD*-BJB HJ/DQD 9DI 0DC (9/J/ 'D#E+D) 'DE3*B') EF 'DH'B9. EF (JF 'D9F'51 'D*QJ 'G*EQ (G' *DC 'D*QJ **9DQB (E#33) 'DBJE #J ,9D 'DBJE *.69 DEB'JJ3 'DE\$33) 'D*9DJEJ. A'DE/13) *-BQB 'D*9DJE H'D*1(J) H'DE3*4AI J6EF 'D5-Q) H'D417) *-BQB 'D#EF #J #FQ 'D%F3'F J*.DQI 9F E3\$HDJQ*G HJ3DQE E5J1G DG0G 'DE\$33* HJ*B(QD CDQ E' J5/1 9FG' HJ*,FQ('D-5HD 9DI 'DE9'1A EF .1, 'DE/13) HJ*.DI 9F E3\$HHDJ*G 9F 5-Q*G D5'D- 'DE\$33) 'D5-J) AG0' 'D.D7 J\$/QJ %DI :13 9BDJQ) 'D9,2 H'D*B(QD H%DI -D) EF 'D*(9JQ) 'DEBJ*) *,G 'DE\$33) H'D'3*9'6) 9F 'D-',) 'D#3'3JQ) (A16 'D7D(9DI 'DEH/ 'DE3*GDC) H*5HQ1 EA/G #FQG D' JECF *-BJB #JQ 4J! EF .1, 'DE\$33) 'D*9DJEJQ) HG0' J-/Q EF Â« 'D%F*',JQ) Â» H'DB/1) 9DI 'D%6'A) H'D.DB.

CE' J*QGE Ivan Illich 'DE/13) (AB/'FG' DDF,'9). A#GEQ 'D#4J!' 'D*QJ J(*:J 'DE1! *9DQEG' 9/) E' *F(9 EF .1, 'DE\$33) 'D*9DJEJQ) HEF 81HA :J1 E-/Q/) E3(QB' C'D1:() AJ *9DQE D:) #H CA!) ,/J). CE' #FQ CDQ F4'7 9EDJ J4*17 AJG 'D-5HD 9DI 4G'/) EF %-/I 'DE\$33* 'D*9DJEJQ) HAJ #:D('D-'D* D' *1BI 'DE91A) 'D9EDJQ) D5-('D4G'/) DE3*HI 95'EJQ #H 4.5 *9DQE EF .D'D 'DEE'13) H/HF 'DDQ,H! %DI 'DE\$33) 'D*9DJEJQ). DB/ C1Q3 G0' 'DHGE GJEF) 'D.(1! AJ ,DQ 'DEJ'/JF 'D5F'9JQ) EFG' H'D21'9J) H'D(J&JQ) H'D+B'AJQ) HDCFQ 0DC DE J-D /HF 'DCH'1+ 'D*QJ *4G/G' G0G 'DEJ'/JF. A'D9BD'FJQ) 'D*QJ *13Q.* /'.D 'DE\$33) 'D*9DJEJQ) *(/H E*-,Q1) HD' *B(D (E1',9) 0*G' HG0' E' JA3Q1 'DAH',9 'D*QJ J91AG' 'D9'DE ('3E 'D9DE H'D*CFHDH,J' ('D*-HJ1 'D,JFJ - %G/'1 'DE5'/1 'D7(J9JQ) - 'DB6!' 9DI 'D(0H1 - 'DB6!' 9DI 'D*1) - 'D*DHQ+ -*ACJC 'D9D'B*' 'D',*E'9JQ) - 'D-1H(...). *9E/ 'DE\$33) 'D*9DJEJQ) #J6' %DI 'DA5D (JF 'D-5HD 9DI 'DCA'!) 'DEGFJQ) H(JF 'D*1(J) 'D+B'AJQ) 'D*QJ *9*E/ 'DE(/1) H'D.DB. EF F'-J) #.11 *:13 'DE\$33) 'DE/13JQ) AC1) *B(QD 'DG1EJQ) H'D'3*-B'BJQ). AJ 'D-BJB) DE *9/ 'DE/13) H'D,'E9) H3JD) DD'1*B! 'D',*E'9J CE' J*5HQ1 'D(96. AG0G /9) 3B7 AJG' 'DAB1'!. CE' #FQ 'DE\$33) 'D*9DJEJQ) ('*C'1G' DD*1(J) *-7Q EF /H1 'D9&D) H*69 -/Q' A'5D' (JF E' GH E/13J (-* HE' GH .1, 'DE/13) H'D0QJ J9*(1 /HF A'&/) #H BJE) *0C1. J*QGE Ivan Illich 'DE\$3Q3) 'D*9DJEJQ) (CHFG' B/ 3'GE* AJ %(B! 'D#7A'D AJ -D) 7AHD) /&E) H0DC D%9//GE DDE,*E9 'D5F'9J HE,*E9 'D'3*GD'C CE' #FQG J1I #FQ ,EG1) 'D*9DJE H*9EJEG E3#D) E3*-JD) E3*4G/' ('1*A'9 *C'DJA 'D*9DJE. C(/JD D-*C'1 'DE/13) DDE9'1A H'D*1(J) JB*1- 'DEACQ1 %9'/) 'D'9*(1 DD-J) 'D',*E'9JQ) H'DDQGH H*B'3E 'DE9'1A (JF 'DFQ'3 CH3JD) DD*1(J) H'D*9DJE 'D0QJ 9DJG #F J1*(7 (1:(/* 'DEH'7F HEJHDG. J3*4G/ 'DEACQ1 (9/J/ 'D#E+D) EF 0DC #FQ EH'7F' (1'2JDJQ) B/ *H5QD %DI *9DJE 'DB1'!) H'DC*() D#EJQJF AJ 81A 40 3'9) /HF 'DDQ,H! %DI 'DE\$33) 'D*9DJEJQ). JA1QB Ivan Illich (JF 'DCA'!* 'DEGFJQ) H'D+B'A). A%0' C'F* 'D#HDI *C*3(AJ 9D'B) (E.*5Q H.(J1 A%FQ 'D+/'FJ) *C*3(EF .D'D 'D9ED 'D,E'9J H'D(-+ 'DE4*1C HJB*1- %J,/ E,'D* D*('/D 'DE9'1A HFH'/J 9DEJQ) H+B'AJQ) H(J&JQ)...

EF 'D#CJ/ #FQ C*(/* Ivan Illich -HD 'DDQ:) H'DE/13) H'DE\$33) 'D5-JQ) H'D(J&JQ) H'D*-'((H'D9ED *4CQD E5/1' G'E'Q' JH-J (9/J/ 'D#AC'1 'D,/J) H'DA0Q) H'D*QJ D'2'D 5/'G' H'6-' AJ 'DC*'(/* 'DE9'51). DCF 9DJF' #J6' #F F*9'ED E9G' (1H- FB/JQ) *E'E' CE' /9' D0DC Ivan Illich FA3G.

J\$CQ/ 'DEACQ1 Paul Ariès 'D*4.J5 'D0QJ *H5QD DG Ivan Illich -J+ J1I #FQ 'DE/13) 'D-'DJQ) *13Q. #HG'E' 61H1JQ) D'3'E1'1 'DFQ8'E 'D',*E'9J 'DB'&E EF 0DC #FQG JECF 'D*B/J1 'DCEQJ ('D#9// - 'D4G/'* - 'D3J1) 'D0Q*JQ) - E1-'D 'D/Q1'3) - 'DC*'(/*...) HA16 'DG1EJQ) H'3*(7'FG'. A'D7AD 'D0QJ JB(D ('DG1EJQ) /'.D 'DE\$33) 'D*9DJEJQ) 3JB(D (G' AJ 'DE,*E9 CE' #FQ 9D'B) 'DE/1Q3 ('D*DEJ0 **Q3E ('DGJEF) H'D*3DQ7. *1A6 'DE/13) %EC'FJQ) *(DJ: 'DE9DHE'* H'DE9'1A EF .1,G'. JECF *4(JG 'DE/13) (E,*E9 'B*5'/J J*CHQF EF #3*0 JH2Q9 EF*H,' D*D'E0) E3*GDCJF. 'DF*J,) GJ #FQ 'DE/13) ('*C'1G' DEGEQ) *(DJ: 'DE9'1A DE *BE 3HI (*1(J) E6'/) HEF'B6) D#5D 'D*1(J) HE9F'G'. *E'E' CE' #FQ E\$33* 'D5-Q) #5(-* E3\$HD) %DI -/Q C(J1 AJ ,9D 'DEH'7FJF E16I H'D319) B/ #/Q* %DI 'D(7! ('*F'B 'D71B*).

J/9H 'DJ3'1 'D*BDJ/J %DI /JEB1'7JQ) 'D*9DJE H*9EJEG E*E3QC' (0DC 'D49'1 'DE*"CD : "9F/E' FA*- E/13) F:DB

3,F". #EQ' 'DJEJF AB/ '3*GH*G AC1) 'D*.DQJ 9F 'DE\$33*' 'D*9DJEJQ) 'D9EHEJQ) H'D*AQ 9DJG' DCJ J3.Q1G' D5'D-G 9DE' (#FQ 'D*9DJE #5(- E5/1' G'EQ' DE1'CE) 'DE'D H'D'3*+E'1.

J9*B/ Paul Ariès #FQ #AC'1 Ivan Illich B/ HB9 '3*:D'DG' (D *-1JAG' HB/ JCHF 0DC E1/QG 'DFB'&5 H'D#.7! 'D*QJ 3B7 AJG' G0' 'DEACQ1. A1A6 'D*(DJ: 'D9EH/J DDE9'1A B/ A*- 'DE,'D DHGE E' A*& J*13Q. EA/G 1A6 'D/Q1H3 'D*QJ *B/QE AJ 'DB'9* H'D/Q9H) %DI 'D-5HD 9DI 'DE9'1A EF 'DED*JEJ/J' H'D*CFHDH,J' H'D'F*1F* HG0' J\$/QJ %DI *9DJE E,2Q& A'B/ DD9D'B*' 'D(41JQ). A'DHGE 'DB'&D ('DB6!' 9DI CDQ 'DE\$33*' 'D*9DJEJQ) B/ #/QI %DI 9C3 E' C'F J#EDG Ivan Illich CE' #FQ 'D1Q:() AJ %7D'B 'D-1JQ) 'DA1/JQ) H'D,E'9JQ) H'DB/1) 9DI 'D'(*C'1 B/ 'D*AQ -HDG' /9) 3D9F) 'D*9DJE H#/QI 0DC %DI 'DB6!' 'D*/1J,J 9DI 'D/QH1 'D*9DJEJ DDE/13). Illich J-DE (E,*E9 J1:(AJG CDQ 'DEH'7FJF AJ 'DE91A) HG0' AJ *9'16 E9 'D*E/13 'D,E'9J HF-F FH'ABG AJ #FQ 'DE/13) D' JECF DG' #F *E+QD 'D%7'1 'D*9DJEJ 'DH-J/. J1I Paul Ariès #FQG DEH',G) 'D#2E) 'D-'DJQ) 'DF*',) 9F *1',9 'DAC1 'DFB/J H-('D%7QD'9 9DJF' #F F(-+ 9F "DJQ*' D/A9 'D1Q:() AJ 'D-5HD 9DI 'DE9'1A HDF *,/J E.*DA 'D-DHD 'DFA3JQ) D(DH: G0' 'DG/A. GF'C *,1((J/':H,JQ) B/JE) HE9'51) JECF #F F3*DGE EFG'. DF *,/J 'D%5D'-'* 'D*QJ *9*E/ %/1) 5'1E) E+D A16 (96 'D#2J! H1(7) 'D9FB HBH'9/ 3DHC .5Q) (CDQ E\$33) #H *DC 'D%5D'-'* 'DE9'E/) AJ E9'G/ 'D*CHJF 'DEGFJ 'D*QJ D' *-+Q 9DI 'DE91A) 'D9EDJQ) (B/1 E' *13Q. 'DB/1) 9DI 'D%09'F D%9// 'D*D'EJ0 DFEH0, 'D-J) 'D'B*5'/JQ).

GD F*.DQI 9F 'DE/13) GD F3*9J6 9FG' (E\$33*' *9DJEJQ) #.1I GD F-51 'D-5HD 9DI 'DE9'1A 9DI 'DE\$33*' 'D*9DJEJQ) 'DE9GH/) E' EF 4CQ #FQ CDQ E,*E9 (-,) DE\$33*' 3J'3JQ) H'B*5'/JQ) H*9DJEJQ) H+B'AJQ) DCF 9DJG #F J9J #FQ G0G 'DE\$33*' EF 5F9G H#FQG' B'(D) DD*:JJ1. EF G0' 'DEF7DB A%FQ 'DE3#D) D' *F-51 AJ 'DB(HD ('DE/13) #H 1A6G' DCF 9DI 'DE\$33) 'D*9DJEJQ) EGE' C'F 4CDG' #F *CHF #/) DFBD H*(DJ: H*ECJF #H39 A&* 'D49(EF 'D-5HD 9DI 'DE9'1A E9 F(0 *BFF) 'DE\$33) ('D-A'8 9DI 'D9D'B*' 'D(41JQ) /'.DG' H/9E 'D9D'B) (JF 'D*D'EJ0. 9DI 'DE/13) #J6' #F *3'GE AJ *-1J1 'D7AD EF 'D%7'1 'D9&DJ DD'F*B'D %DI E,'D #H39 H#C+1 '1*(7' ('D9'DE 'D.'1,J H#F *F(0 %/E', 'D9'D) AJ 'DE/13). 'DE/13) GJ #J6' 'DE,'D 'D0QJ J*.DQI AJG 'D7AD 9F E(/# 'DDQ0) H'D1Q:() 'D,EH-) 'D.'5Q) ('D#7A'D E1H1' %DI E(/# 'DH'B9 #J #F JB(D ('D*-/J/ 'D0Q*'J 'D61H1J DD-J) 'D,E'9JQ). AD' *-1Q1 0*JQ /HF H69 -/H/. (7(J9) 'D-'D A%FQ 'DE,*E9 'D-'DJ 'D0QJ D' J9*1A 3HI ('DE1'CE) H'D*H3Q9 H'D'3*GD'C H'DA1'/FJQ) H'DF,HEJQ) GH #(9/ E' JCHF 9F *-BJB E+D G0' 'D-DE. #.J1' HCE' *5HQ1 'D%F3'F 'DE\$33) 'D*9DJEJQ) AJ 4CDG' 'D-'DJ H'DE9GH/ JECF DG #F J*5HQ1 #4C'D' E.*DA) DD*9DJE H'D*1(J).

-VI- (96 E8'G1 #2E) 'D*9DJE

DB/ E+QD* 'D-/+ B7J9) ,01JQ) E9 'DE,*E9* 'D*BDJ/JQ) (E' -ED*G EF #4C'D H*,1(H*5HQ1*' HE.'JJD H#-C'E. AEF0 'F7D'B*G' *FCQ1* 'D-/+ D-BJB) #FQ 'D9'DE 'DE1'/ *-BJBG ,E'9J H#FQ 'DB7J9) D' *9FJ *,'GD 'DE5J1 'DE4*1C DCDQ #A1/' 'D4Q9((D DB/ /9* %DI *-BJB 'DE5'D- 'D,E'9JQ) EF .D'D 'D0Q*' 'DA1/JQ). A'DB7J9) E9 'DE'6J D' *9FJ ('D61H1) 'DFQ3J'F H'D*FCQ1 DCDQ E' J,E9 (JF 'DFQ'3. 9DI 3(JD 'DE+'D 'B*1F EAGHE 'D-1JQ) (B6'J' 'D*1(J) H*1HJ, 'DE9'1A H'D*9DJE (5A) 9'EQ). D' (/Q EF *HAJ1 FA3 'D-8H8 DDEH'7FJF DD-5HD 9DI *9DJE ,EGH1J H'DB(HD ('D*A'H* 9DI B'9) 'D'3*-B'B #J F,- 'D#A1/' H*EJQ2GE HDB/ C'F* EF (JF F*&, G0' 'D*5HQ1 '1*(7 'DF.(('D#13*B1'7JQ) H(7(B) EF 'D#HDJ:'14J' H*(FQJG' DFA3 'DE9'JJ1 H'D*H,QG'*. *13Q.* AC1) 'DF.() D/I 'D#3*0) 'D,'E9JQJF H'D.(1! HC('1 'DEGF/3JF 'D0QJF #5(-H) J491HF (#FQGE A&) EEJQ2) HE14Q-) DDBJ'E (/H1 'DBJ/) H'D*3JJ1 HH69 'DE.7Q7'*. EF (JF EG'E 'DE\$3Q3) 'D*9DJEJQ) %F*', 'DFQ.('DE+BQA) H'DE*EJQ2) 'DB/1) 9DI BJ/) 'D(D/ HGJ 'DH-J/) 'DE\$GQD) D*B/J1 #GEJQ) 'D9ED 'D,'/ H'D*A'FJ .D'A' DD:'D(JQ) 'DE3*GDC) H'DE*B(QD).

1- 'D*1(J) /'.D 'DE\$3Q3) 'D*9DJEJQ) 'DCDQ J*QAB #FQ 'DE/13) B/ #.D* (/H1G' AJ *1(J) 'DF4& H#FQG' #5(-* E,'D' DD9FA H'D'F-1'A CE' #FQ 'G*E'E 'D*DEJ0 ('D-5HD 9DI 'DE9'1A H'D+B'A) B/ *1',9 (5A) EGHD). *,'G G0G 'DE9'JF) *.*DA 'D'1!' EF /9J %DI */9JE '3*BD'D 'D*D'EJ0 %DI E7'D((*7(JB E(/& 'D51'E) H'D3DHC 'DE3*BJE H%9/) 'D'9*(1 DEGF) 'D*/1J3. 9F/E' JF4# 'D7AD JCHF (E+()) H-4 -J+ D' J91A 'D-/H/. DCFQG C'&F B'(D DD*9DQE : D:) H*51QA* H3DHC' H*ACJ1' H.DB' H*#BDE' E9 'DE-J7. *4CQD 'D*1(J) AJ EAGHEG' 'D9'E H'D4'ED 'D9'ED 'D#3'3J DD-A'8 9DI 'DE,*E9*'. A'DCGHD J1'ABHF 'D#7A'D HJ1(QHFGE DJF/E,H' */1J,JQ' AJ 'DE,*E9 HJ5(-H) B'/1JF AJ JHE E' 9DI 'D-A'8 9DI 'DE,*E9 H%F 'B*1F 0DC (%6'A* H*5HQ1*' HE9'JJ1 ,/J/). CDQ 0DC J*7DQ(3D7) 'D#HDJ!' /'.D 'D9'D) H3D7) 'DE/1Q3 /'.D 'DE\$33) 'D*9DJEJQ). CDQ 'D/Q1'3*' 'DFA3JQ) 'D.'5Q) ('D7AD **AB 9DI #FQ 'D3D7) *AB/

A'9DJQ*G' D/I 'D7AD %0' '9*E/* 'D9FA H'D9B'(H'DFGJ 'DE7DB #H %0' '.*2D* AJ E,1Q/ %BF'9 9(1 FB'4 HEF7B #JQ' C'F. GJ CE' D'-8* 'DEACQ1) Hannah Arendt DJ3* 3D7) B'G1) DEF DG 'DB/1) 9DI 'DBJ'/) H'D*H,JG. GJ 9D'B) (JF 71AJF : 'DHDJQ H'D7AD #H 'DE/1Q3 H'D*DEJ0 HGJ F*',) 9F 'D/QH1 'D#3'3J DD*1(J) (E' *E+QDG EF *CHJF H*H,JG H%-3'3 ('D#EF HE3'9/) 9DI #!/ (96 'DEG'E. 'D3D7) GJ %0F AJ G0G 'D-'D 9C3 'DBG1 H'D'3*9(/ (D GJ 61H1JQ) DE3'9/) 'D7AD DD-5HD 9DI B/1*' ,3EJQ) H0GFJQ) E1H1' %DI *CHJF 4.5JQ*G 'D.'5Q) (G H'D'F'E', AJ 'DE,*E9. GJ %0F 9D'B) HB*JQ). DCF G0G 'D3D7) (E9F'G' 'D0QJ 0C1F'G *91A *1,'9' H'G*2'2' (A9D '3*A-'D 'DA1/'FJQ) HF29) 'D'3*GD'C H*011 'DE,*E9* H*E2QB 'D9D'B*' 'D',*E'9JQ). A'D#A1/' H'D9'&D* H'DE\$33*' 'D*9DJEJQ) HCDQ 'DE\$33*' **#+Q1 (E' J-5D AJ 'DE,*E9. #5(- %F3'F G0' 'D951 J9J4 'D.HA H'D1QJ() EF 'DE,*E9 EF 'D-'61 H'DE3*B(D HG0' E' JA3Q1 %DI -/Q (9J/ 'F2H!' 'D#A1/' H*-HQD 'D9'&D) %DI 4(G ED'0 HED,& H'D-'D #FQ G0G 'D9'&D) *9J4 GJ 'D#.'11 G2Q*'. 'FG'1* 'DE9'JJ1 'D*BDJ/JQ) HDCF ('DEB'(D 'A*B/ 'DE,*E9 DD(H5D) 'D*J *\$33 DDE9'JJ1 'DE4*1C). AD' 'D9H/) %DI 'DE9'JJ1 'DB/JE) B'/1) 9DI *, 'H2 'D#2E) HD' 'F9'E 'DE9'JJ1 H'D.6H9 D9BDJQ) 'D'3*GD'C B'/1 GH 'D".1 #F JCHQF 0DC 'D%3EF* 'D1Q'(7 DDE,*E9 -*QI H%F *D-QA ('D-'/+). %0' C'F* 'D*1(J) E3\$HDJQ) 'DCGHD *, 'G 'D#7A'D HE3\$HDJQ) 'DE,*E9 *, 'G #A1/'G HE,EH9*G CJ JF5G1H' AJG HJ5(-H' 9F'51 A'9D) HJ5F9HF E3*B(DGE %0' C'F* 'D3D7) E1'AB) H*H,JG H*F4&) ACJA DF' #F F-BQB 0DC AJ 81A #5(-* AJG 'D#G'/A 6('JQ) CJA JECF DDE\$33) 'D*9DJEJQ) #F *3'GE AJ G0' 'D9ED H*3G1 9DI *GJ&) ,JD DDBJ'E (/H1G AJ 'DE,*E9 H*CHF 'DF'A0) 'D*J EF .D'DG' JC*4A 'D7AD 'D9'DE HJB79 E9 9'DEG 'D6JQB (9DE' (#FQ 'DE/13) D' *9FJ CDQ 'DE,*E9 HDJ3* 'D%7'1 'DH-J/ DD*1(J)) JFA*- 'D7AD 9DI 9'DE #H39 EF E-J7G 'D9'&DJ HJC*4A #4J!' ,/J) HJ5BD 0*G AJ *A'9D E9 'D".1JF 0CH1' H%F+' #7A'D' H4(' 'HCGHD' *D'EJ0 HE/Q13JF. J.69 'D7AD H'D*DEJ0 DBH'FJF HBH'9/ 3DHC E\$33) E3(QB'. DCF G0G 'DE\$33) 'D*QJ *-7 (B/3) *AB/ 3D7*G' E' /E* 'DE9'JJ1 'D*QJ *1(QI 9DJG' 'D7AD EF .D'D H3'&D 'D/Q9'J) H'D%9D'E H'D*DA2JHF HEF .D'D 'DE,*E9 0*G **D.Q5 AJ #HG'E 'D'3*GD'C (E' AJ 0DC '3*GD'C 'DE9'1A HB/ D' *E*Q DDH'B9 AJ 4J!. #J E9FI D-'*1'E 3D7) 'DE/1Q3 H'DE9DQE H'D#3*0 AJ 9'DE J1HQ, DD3D7) 'DE7DB) H'DB/1*' 'DD'QE*F'GJ) DD41!' H'DE1'CE) +EQ G'GJ 'DE\$33) 'D*9DJEJQ) 0*G' *5((H('! 'D'3*GD'C AD' *9*1A 3HI ('D#9// H'D*3'(B 'D0QJ B/ J\$/QJ %DI 'D9'!) (JF 'D*D'EJ0. F9H/ DEAGHE 'D3D7) DF\$CQ/ #FQ Â« .6H9 Â» 'D*DEJ0 DDE/1Q3 H'D#3*0 D' J9FJ 'D%,('1 H'D%1:'E H'D*3DQ7 H'DBG1 HDCFQG' *3F/ DE41H9JQ) JECF #F J*B(QDG' 'D9BD H-*QI 'D*D'EJ0 (-J+ **-'HQD 'D9D'B) %DI 4(G 9B/ .'J'1J (JF 'D71AJF J9*1A (EB*6'G 'D*DEJ0 (CA!) 'DE/1Q3 AJ EJ'F E-/Q/ HDCF JA*16 #J6' EF 'DE/1Q3 39) 5/1 HB(HD ('D*-'H1 E9 'D*D'EJ0 H*GJ&) 'D81HA D*B(D G\$D!' DDE9'1A D' (5A*G' ,ED) EF 'DE97J* H,(-A8G' (D (5A*G' 9F'51 #HDJQ) HEF7DB' DD*ACJ1 H'D*5HQ1 H'D%(/9. A'D3D7) CE' FAGEG' HC#/) *1(J) GJ B/1) 4.5 E' 9DI 7D(".1JF (%F,'2 9ED /HF 'DDQ,H! %DI 'D9FA HG0G 'DB/1) D' *3*E/Q EF EHB9' ,*E'9J E9JQF #H EF EJ2'F BHI HDCFQG' **1,'9 *1/J,JQ' E9 E1H1 'D2EF H5HD' %DI '3*BD'D 'D#7A'D H'D*D'EJ0 DJ*-HQDH' %DI CGHD E3\$HDJF B'/1JF 9DI 'D*ACJ1 'D-1Q H9DI 'D*-/J/ 'D0Q'*JQ H'D*1(J) 'D0Q'*JQ) /HF 'D1QCHF %DI #JQ 3D7) C'F*.

#E'E *1,'9 3D7) 'D#3*0 H'DE/1Q3 H'DE\$33) 'D*9DJEJQ) JB*1- 'D(96 -DHD' H%5D-'* B/ **F'B6 HDCFQG' **H-Q/ -HD *,FQ ('DB6'J 'D9'EQ). 'D(96 J1I #FQ 'D-DHD J,(#F *F(9 EF /.'D 'DE\$33) 'D*9DJEJQ) 'D*QJ DE *9/ *1(QJ 'D#7A'D (D *3'GE AJ G0' 'D'F-'D 'D#.D'BJ 'D0QJ E' A*&F' FD'-8G /.'D 'DE\$33) 'D*9DJEJQ) H.'1,G'. %0' C'F* 'DE9'JF) 5-J-) H*1*C2 9DI -B'&B +>(* A%FQ 'D-DHD *(/H 9BJE) D#FQG' D' *1*(7 (E' J-5D .'1, 'DE\$33) 'D*9DJEJQ) C'D9'&D) H'DE,*E9. A'D#.D'B D' */1Q3 (D *C*3(H*9'4 H*5': HCDQ F8'E #.D'BJ 3H!' '9'E/ #J/JHDH,J' #H EA'GJE #.D'BJQ) #H E3DE* H#-C'E HBH'FJF 3DHC E-CHE ('DA4D %F 9',D' #E ",D'. A-*1 H%F A16F' F8'E 3DHC 5'1E C0DC 'D0QJ 91A*G 'DE/13 AJ 'D#F8E) 'D3J'3JQ) 'D/QC**H1JQ) H'DA'4JQ) A%FQF' DF F6EF 'DF,'- AJ EGEQ*F' D#FQ 9'DE 'D/Q1'3) EA*H- 9DI CDQ 'D9H'DE 'D#.1I. #EQ' '3*9'/) 3D7) 'D#3*0) H%9'/) 'D9*('1 DD9B'(H'D9FA 'D,3/J ADB/ #+ (** 'D*, '1(9/E ,/H'G' H9BEG' HB/ *\$/QJ %DI 9C3 'DG/A 'DEF4H/. #DJ3 EF (JF #G'/A 'D*ACJ1 'D#.D'BJ AJ 'DE\$33) 'D*9DJEJQ) %9// 'D81HA 'DED'&E) DD*9DQE (-J+ J,/ 'D*DEJ0 E9FI DD(1'E, 'D*QJ *B/QE DG

GF'C E3#D) #.11 D' *BD #GEJ) 9F CDQ 'DED'-8* 'D3'(B) : 9F'E' FBHD D' (/ EF A16 3D7) H#.D'BJ* HF8'E 3DHC E-/Q/ HEBFQF F*3!D ('3E E'0' H('D1,H9 D#J) E9'JJ1 HF-F D' FB5/ GF' 'DE9'JJ1 'D#.D'BJ) 'D*BDJ/J) H'DEH1H+) H'DE9'JJ1 'D/JFJ) (D 'DE9'JJ1 'D.'5) ('DE\$33) 'D*9DJEJ) 0*G'. JCEF 'D,'F(' 'D%J,'(J 'DH-J/ DD*1(J) 'D5'1E) H'D*J C'F* *9'E/ AJ 'DE'6J (E' *-HJG EF 9FA H*.HJA H#4C'D 9B'(AJ #FG' C'F* *G/A %DI %9// #,J'D ,/J) D*#.0 'DE49D EF 'D#,J'D 'D*J 3(B*G' H'D*J C'F* E*-EQ3) D(F! E,*E9 ,/J/ HE*7HQ1. #EQ' 'DJHE AB/ *1,'9 G0' 'D-E'3 D/I 'DCGHD H'D#HDJ!' D*9HQ6G 'DA1/'FJ) H#5(-* 'DE3'&D */13 (5A) E92HD). #JQ E9FI DD*9DJE %0' AB/ 'DE,*E9 (#,EDG 'DE9FI EF H,H/G %D'Q E'GH '3*GD'CJ HA1/'FJ #JQ E9FI DD*9DJE %0' C'F* #,G2) 'D%9D'E H'D*DA2) *1HQ, DD3DHC 'D#F'FJ #JQ E9FI D*9DJE AJ E,*E9 J91A #2E*' ,*E'9JQ) H(J&JQ) H'F.'1'E' DD*H'2F* H*C'D(' 9DI 'D#4J!'

JB*1- 'D(96 /E, 'D9D'B* 'D#.D'BJQ) AJ 'D-J)' 'D*1(HJQ) #J EF .D'D 'D+Q 9DI 'D'-*1'E 'DE*(/D H9DI 'D*ACJ1 'D,E'9J
H'D*9'HF AJ */1J3 'D(1'E, (/D EF *.5J5 3'9* DD*1(J) H*/1J3 'DBH'9/ 'D#.D'BJQ) HE7'D() 'D*DEJ0 (-A8G' DJ3*4G/ (G'
JHE 'D'E*-'F. DCF *(FJ G0' 'DEFG, 'D3QDJE JA*16 #F D' JCHF 'D*9DJE E,1Q/ *DBJF H*B(QD H-A8 :J1 A'9D H:J1
E-AQ2 DD(+ H'D('C'1 (D H#J6' E3!D) DD0Q* H'D".1 H'DE,*E9 H'DE\$33* H'D'.*J'1*. A'D*DEJ0 'D0QJ GH B(D
CDQ 4J! EH'7F J-BQB 0*G AJ -1C) *AB/G 0*G 'DE'6J) /HF B79 FG&J H*FBDG %DI E1-D) ,/J). C0DC GJ 'D#.D'B
'D*QJ D' JECF AGE'G' %D'Q EF .D'D -1C) A'9D) H0*JQ) HAJ *A'9D E9 'D".1JF. E' J*, 'GDG /9) 'D#.D'B 'D5'1E) GH
#FQ 4.5JQ) 'D*DEJ0 *5BD EF .D'D 'D*(9/ 9F EH'BAG 'DE'6J) H3DHCG HE9 E' J-J7 (G H5HD' %DI FB/ E' GH EH,H/
HE*9'1A. #EQ' 'D*B(QD 'D3QD(J AGH FBJ6 'D*1(J). D' #-/ J1(QJ :J1G D' #-/ J1(QJ FA3G (FA3G 'D(41 J1(QHF
#FA3GE (5A) ,E'9JQ) HEF .D'D 'D9'DE 'DE'9'4 H'D*1(J) CEE'13). GJ F4'7 D' JB*51 9DI 'D0Q*' 'DA'9D) (D J*H,QG
#J6' %DI 'D".1JF (5A*GE A'9DJF HE3\$HDJF 9F *(J*GE H9F *-1Q1GE 'D0Q*'J 'D0J D' J*F'B6 E9 'D*-/J/ 'D0Q*'J.
'D*CHJF 'D#.D'BJ GH ('D#3'3 *,1) ,E'9JQ) *A*16 E,'D' EFA*-' H*3E- (DB! JGJQ& D41H7 9/D) DD*D'B- (-J+ J491
'D*DEJ0 #FQG *-HQD AJ D-8) E' %DI 0* #.1I EF .D'D 'FA*-'G 9DI #AC'1 H1\$! ,/J) *(/H 4AQ'A) DD,EJ9 AJECF #F
*-HQD %DI B'3E E4*1C (D JECF DD,EJ9 #F J3'GE AJ H69G' (%1'/) -1Q). #.J1' J*, 'GD /9) 'D5Q1'E) HA16 'D#.D'B
#FQ 'D7AD C'&F JACQ1 HJ-3Q HJ*A'9D HJFEH HJ1HF AJG E'/Q) B'(D) DD*:JJ1 EF 'D'.1, CB79) EF 'D5D5'D. B/
JF,-HF AJ 5F9 ,JD EF 'D*D'EJ0 'D.FH9JF H'DE*#/D,JF H'DE*95Q(JF *E'E' CE' F,- 'D/QC**H1JQHF H'DA'4JQHF
H'D(J1HB1'7JQHF J3'1' HJEJF' HEF CDQ A5JD DCF 0DC DF J-5D /HF 'DB6!' 9DI 'DB/1) 'DC'EF) D/I 'D#7A'D 9DI
'D*ACJ1 H'D*51QA 'D-1Q H'DE(/1) H'D%(/9.

2- 'D,'E@9) : %5D'-* E**DJ) AJ E98E (D/'F 'D9'DE 4G/ 'D*9DJE 'D9'DJ EH,* EF 'D%5D'-* D6E'F F,'9) DE\$33*G
H'D'3*,() DE' #5(- J91A (E,*E9 'DE91A) H'DE9DHE* HD61H1J*' 'D'B*5'/ 'D,/J/. AJ 'DH'B9 HCE' *H5QD D0DC 9/J/
'DE-DDJF A%FQ 'D1QG'F GH #(9/ E' JCHF 9F FBD H*(DJ: 'DE9'1A (#-3F H,G HD5'D- #H39 A&* 'D49(H./E)
DDE,*E9 H'D(-H+ 'D9DEJ) (D DB/ 'F-51 ('D#3'3 AJ *ECJF 'D7D() EF E9'1A E-/H) B'(D) DD*(/D AJ 3HB 'D4:D.
J*3!D 'D(96 #D' *E+D 'D%5D'-* 'D*J *B11 AJ 'DE\$33* 'D/HDJ) H*.69 DEB'JJ3 '9*(7J) %9D'F' 9F (/J) '-*6'1 'DE\$33)
'D,'E9J). AJ *B1J1 #9/*G E,D) Mauss AJ 9//G' 'D5'/1 AJ 3F) 2009 -HD #2E) 'D,'E9) HEF .D'D E.*DA 'D(-H+ 'D*J B'E
(G' EAC1HF EG*EHF (B6'J' 'D,'E9) #(12 G\$D! .D7' A/'- (JF 'D*9DJE 'D9'DJ H'D,'E9). GF'C *B3JE E' A*& J*9EQB
(JF *9DJE 9'DJ H,'E9). AAJ 9/J/ 'D(D/'F 'D5F'9J) H-*I AJ (D/'F 'D,FH(J*7HQ1 'D*9DJE 'D9'DJ AJ 'DE/'13 'D9DJ' HAJ
'DE/'13 'D*-6J1J) (C'D3FH* 'D*-6J1J) DDEGF/3JF) -J+ 'D'F*B!' 'D5'1E H'D*.55 'D4/J/ H0DC D%9// ,JD EF 'D9'EDJF
AJ EJ'/JF E-/Q/). #EQ' 'D,'E9) A*1J.G' J4G/ #FG' C'F* 9DI 'D/QH'E *-A8 (F3() EF 'D'3*BD'DJQ) *, 'G 'D/HD) H*, 'G
'D3HB CE' #F 'D#3*0) 'D,'E9JQJF C'FH' J-6HF ('3*BD'DJQ) F3(JQ) (-J+ E+D* 'D,'E9) E,'D' DD(+ HDE JCF JF81
DG' AJ 'D3'(B 9DI #FG' #/) DG/A EG/Q/ H6JQB. (7(J9) 'D-'D DB/ '1*(7 0DC AJ 'D(D/'F 'DE5FQ9) (+B'A) %F3'FHJ)
'JEB1'7J). #EQ' AJ (D/'F 'D,FH('DE*-5QD) 9DI '3*BD'DG' ADB/ E+QD 0DC '3*9/) D*1J.G' H4CD' EF #4C'D A16
'DH,H/ 9DI 'DE3*HI 'D+B'AJ H'D9DEJ. AJ 'D9BH/ 'D#.J1) *1',9 G0' 'DEAGHE DD,'E9) HD/H1G' H'1*(7* G0G 'D#.J1)
#C+1 (E9'JJ1 'DF,'9) 'DE'DJ) HDE J9/ 'D1,H9 %DI 'DE9'1A 'D,'E9) EBJ'3' D,/JQ) 'D(-H+. F*J,) DCD 0DC *91A
'D,'E9* F2JA' -/Q' D5'D- 'D#B3'E 'D*-6J1JQ) (CDQ E3*HJ*G' H'DE/'13 'D9DJ' H'D*9DJE 'DB5J1 AJ 'DE9'G/ 'D9DJ'.
#/QI CDQ 0DC %DI B7J9) (JF +D'+ E3*HJ*.

* 'D,'E9) (EAGHEG' 'DCD'3JCJ

* 'DE/'13 'D9DJ' : -J+ *GJ& ('D#.5Q DDEGF/3JF H'D'.*5'5* 'D9DEJQ) AJ 9/J/ 'DEJ'/JF H,2! G'EQ EF 'D7D() JG',1HF
%EQ' DEH'5D) *9DJEGE AJ 'D'.1, #H DD'3*B1'1 AJ 'D(D/'F 'D:1(J).

* 'DE9'G/ 'D9DJ' 0* 'D*9DJE 'DB5J1 H'D0QJ 9/) D' J*,H2 'D+D'+ 3FJF H*9*16 'DE*.1Q,JF EF G0G 'DE9'G/ 59H(*
,EQ) AJ 'D-5HD 9DI 4:D 1:E #FQ G0G 'DE9'G/ B/ #3Q3* (:J) 'D'3*,() DEB*6J* 'D3QHB.

AJ E.*DA (D/'F 'D9'DE J*1',9 'D/Q9E 'DE.5Q5 DD,'E9) HG0' (*#J1 EF 'DE\$33* 'D/QHDJQ) 'D*QJ */9H %DI .5.5)
'D*9DJE (5A*G ./E) *(9 H*4*11. #5(-* 'D,'E9* *.69 D*BJJE HDDEB'JJ3 'DE91HA) (*BJJE 4F:'J H'D*QJ *9*E/ 9DI
9F'51 D9DQ #GEQG' 'D*.5Q5 'D4Q/J/ H/1,) 'DE9'1A 'DE,2Q#) H9// 'D(-H+ 'D*QJ JB9 F41G' ('D.5H5 ('DDQ):
'D'F,DJ2JQ). (.D'5) *BJQE 'D,'E9) CE' FBJQE %F*,JQ) E5F9.

**9EQB 'D#2E) AJ (D/'F 'D,FH(%0' 9DEF' #FQ 'B*5'/G' E1*(7 #3'3' ('B*5'/JQ* 'D(D/'F 'DE5FQ9) H#FQ 3HBG'
'DE-/H/) 9',2) AJ E98E 'D#-J'F 9F '3*J9'(G0G 'D#AH', EF 'DE*.1Q,JF 'D0QJF J671QHF %DI 'DB(HD (9ED B/ D'
J*F'3('D(*Q) E9 '.*5'5'*GE HE9 E' -A8HG H*DBQHJG AJ 'D,'E9).

AEF0 'D3Q(9JF'* #5(-* 'D,'E9) *3J1 9DI .7I 'D#2E) 'D'B*5'/JQ) 'D9'DEJQ) H'F9C'3'*G' 9DI (D/'F 'D,FH((D DB/ #5(-*
G0G 'D#.J1) *CJQAG' : (7'D) 9ED HB*J HE91Q6 D.7I 'D*HBQA 'F9/'E 'DE3'H') 'D*F'A3 'D%F*,JQ) 'D.5.5). .D5
(96GE %DI F*J,) EA/'G' #FQ E,*E9' J9,2 9F /E, #5-'('D4G'/'* (HDFBD #J6' EH'7FJG) 9DJG #F J*:JQ1. (7(J9) 'D-'D
DCDQ 1#JG AJ 'DEH6H9. A'D(FC 'D/QHDJ 'D0QJ E' A*& J9/Q 'D*B'1J1 -HD 'D*9DJE 'D,'E9J AJ (D/'F 'D,FH(HJ69
'D*H5J*' JF7DB EF EA'GJE 'D-3'('D'B*5'/J H'DF',9). DCFQ G0' 'DEF7B 'D'B*5'/HJ 'D(-* J\$HD AJ 'D#.J1 %DI *GEJ4
'D*9DJE 'D9'DJ H'D(-+ 'D9DEJ (H,GJG 'D#3'3J H'D*7(JBJ. %FQG' 'D9BD'FJQ) 'D9DE'HJQ) 'D'B*5'/HJQ) 'D*QJ
**HGQE #FQG' (-3'(*G' JECF DG' #F *B(6 9DI ,HG1 'DE3#D).

E' EF 4CQ #FQ 'DE"D 'D#.J1 DG0' 'D*H,QG DF JCHF 3HI 'DB6!' 'DFG'&J 9DI 'D,'E9'* HG0' J5(Q 7(9' AJ '*,'G
'D*.DQJ 'D*Q'E 9F CDQ E3\$HDJQ) 9EHEJQ) AJ E,'D 'D*1(J) H'D*9DJE.

3- #2E) 'D,'E9) : A1F3' E+'D' (9J/ 9F 'D5Q1'9 (JF /9') 'D.5.5) H'DE/'A9JF 9F EC'3('D*9DJE 'D9EHEJ JECF DF' #F
F4.Q5 (/BQ) 'D#(9/ 'D-BJBQ) D#2E) 'D*9DJE 'D,'E9J AJ E.*DA (D/'F 'D9'DE (E' AJ 0DC (D/'F 'D,FH(H'D9H'&B
H'D59H(* 'D*J *9*16G. AJ 'D-BJB) G0G 'D9H'&B DJ3* HDJ/) 'DJHE CE' #FQ *4.J5G' DE J1*(7 (E' JO.7Q7 DG
'DJHE EF *-1J1 DD./E*.

AEF0 9BH/ 8G1* C*('H/1'3'* E9EQB) -HD G0' 'DEH6H9 HDCFQG' DE *DB 'D5/I H'DHB9 'D61H1JQJF. AEGEQ)
'D,'E9) H'D#3*0 'D,'E9J H'D(-+ 'D,'E9J GJ ('D#3'3 %F*', E9'1A 9DEJQ) H*1HJ,G' H'D*CHJF H*BJJE 'DF4'7 'D9DEJ
DD7D() H'DBJ'E ('D'.*(1 (expertise). AJ 'D-BJB) G0G 'DF4'7* DJ3* -C1' 9DI 'D,'E9) (D JECF DD9'&D* H'D,'E9JQ*
#F *3'GE AJG'. DCF 'D,'E9) *E*DC 'D9DHE Â« 'D-BJBQ) Â» H'D/BJB). GJ *FB3E %DI EJ'/JF HB7'9* HE.'(1 E,2Q#)
H,/Q E.*5Q) -J+ **9EQB 'DE9'1A HDCFQG' **6!D HDFBD E9 'DEACQ1 C'3*H1J'/J3 "CDQE' *H3Q9* 'DE9'1A %D'Q
H6'B* H'D9'DE J9DE #4J! #C+1 9F EH'6J9 #BDQ". +EQ E' GJ E9'JJ1 -BJB) E' .5H5' %0' 9DEF' #FQ 'D*,1J/ 'D0J
#5(- ED'2E' DCDQ F4'7 9DEJ H*1,E) 'DE9DHE*' AJ 4CD BH'FJF 1J'6JQ) JECF *1BJEG' *.69 DF81JQ) :H/D Godel
HE3DQE* Lokatos H'D*J *B1Q (#FQG D' JECF 'D%+(/* 9DI 5-Q) F81JQ) E' %D'Q EF /'.D F8'EG' HF3BG' 'D.'5 .
(7(J9) 'D-'D G0' D' JFAJ 9DEJQ) G0G 'D-B'&B HDCFQG J71- F3(JQ*G' (E9 #F G0' D' J,1QF' %DI 'D*4CJC AJ CD
4J! ('3E F3(J) E7DB) *3'HJ (JF CD 'D#4J!). CJA JECF *1,E) 'DE9'1A 'DE,2Q#) H4/J/) 'D'.*5'5 AJ 'D9'DE 'DE9'4.
A'DJHE *-HE -HD (-H+ 9DEJQ) E+D *DC 'DE*9DQB) ('D'3*F3'. H'D*-HJ1 'D,JFJ H'DF'FH*CFHHDH,J' 51'9* *4BQ
'DE,*E9 H-*1 #H3'7 'DEJ'/F 'D9DEJ 0*G. A3H!' *9DQB 'D#E1 (*9DJE ,E9J 9EHEJ #H .5Q ADB/ *51QA 'D(-+ 'D,'E9J
(5A*G 3D7) 9DJ' HE1,9' (-J+ #/Q* '3*F*',*G 1#3' %DI EE'13* 9EDJQ). AJ (96 'D#-J'F J*-HQD 'D(-+ 'D,'E9J %DI 4(G
'/9J) #H 13HD J*F(Q# ('DE3*B(D HJ9/Q/ 'DH9H/). J*-HQD 'D(-+ 'D,'E9J %DI .(J1 H#9E'D 'D.(1) 'D*J JE'13G' D' *.69
D#JQ FB'4 #H */DJJ. GH 'D(-+ H'DEB1Q1. #E' 'DEH'7F AGH ,GD ('D-B'&B 'D9DEJQ) HE' 9DJG 3HI 'D%09'F
H'DB(HD H'D-'D #FQ (96 'D'.*J'1* ('D7'B) 'DFHHJQ) - 'D*-HJ1 'D,JFJ - 'DF'FH*CFHHDH,J) *-JD 1#3' %DI FE7
'DE,*E9 H'D*H,QG* H'D'.*J'1* 'D#3'3JQ) DDE3*B(D).

9DI 9C3 'D9DHE 'DF81JQ) 'D*J **7DQ(EF7B' 1J'6JQ) H*F*, BH'FJF H9D'B* A%FQ 'DE9'1A GJ ('D#3'3 E9'1A
9EDJQ) *3*F/ DD*,1() HG0' -*I H%F '9*E/* 9DI BH'FJF 9DEJQ) F81JQ). J*7DQ(CDQ 0DC 15/ *EHJD* H*H,JG
'D'.*J'1* H'D#HDHJ*. DCF EF JB1Q1 G0G 'D#HDHJQ* EF JB1Q (#FQ 'D(-+ AJ E,'D 'D7'B) 'DFHHJ) GH #GEQ EF
'D(-+ AJ 'DB6'J' 'D(J&JQ) 9DI 3(JD 'DE+D %0' C'F 'D'.*J'1 -C1' 9DI G\$D!' 'D,'E9JQJF H'D.(1! A%FQG 3JCHF
'(D61H1) '9*(7JQ' HB/ J*9'16 E9 E5'D- 'DE,EH9) 'D*J HB9 *,'GDG'. CJA JECF *,FQ('DE.'71 H'D*HBQJ EFG' D'
JECF 0DC %D'Q (*.DJ5 'DE91A) EF F29) 'DGJEF) 3H! GJEF) 'D,EGH1 'DH'39 #H 'D/QHD) #H 'DE.*5QJF. CE' #FQ
'3*BD'D 'D(-+ 'D9DEJ J*9'16 E9 *BHB9 'D(-+JF HJA*16 'FA*-GE 9DI 'DE-J7 H'DE,*E9 H6'E'F -BQ 'DEH'7FJF AJ
'DE1'B(). EF 'DEA'1B* #F J3*F,/ 'D,'E9JHF (ECHQF*' 'DE,*E9 AJ 51'9GE EF #,D 'D/A'9 9F 'D,'E9) 6/Q F29* 'D.5.5)
DCFQGE *F'3H' #FQG 9DI E/I 9BH/ *,'GDH' 'DE,*E9 H#5/1H' #-C'E' HFAQ0H' E4'1J9 /HF #JQ '3*4'1). +EQ %FQ
'D*BHB9 9DI 'DEJ'/JF 'DE,2Q#) H*CDQ3G' H*1',9 F4'7G' 'D%(/'9J H9/E 'FA*-G' 9DI EJ'/JF 'D9DHE 'D#.1I B/ B/QE
'D*9D'Q* D/9) 'D.5.5) DD*.DQJ 9F G0G 'DB7'9*. AB(D #F *(12 #2E) 'D,'E9) 9DI 'D37- H*5(- EH6H9 FB'4 ,D(DG
'D1Q#J 'D9'E (12* AJ 'D(D/'F 'D#H1H(JQ) H(D/'F #E1JC' 'DD'Q*JFJQ) #4C'D H#71 DD(-+ 'D9DEJ :J1 'D1Q3EJ EF

0DC 'D,'E9*' 'D49(JQ) 'D*J *9B/ AJ 'D5JA H,E9JQ*' *(/D 'DE9DHE*' 'D9DEJQ) HE\$3Q3*' E+D : 'D9DE DDEH'7FJF
4(C* 'D97!' 'DE,'FJ DDE9'1A 'D9EDJQ) D9EHE 'DF'3 4(C*' 'D(-H+ :J1 'D1Q3EJQ) 'DEB'GJ 'D9DEJQ)..... DB/
,'GD 'D,'E9) G0G 'D#4C'D 'D-/J+). AAJ 'DHB*' 'D0J *39I AJG 'DE\$3Q3*' 'DC(1I %DI '-C'1 'DE9DHE) 4G/ 'D7D(9DI
'DE9DHE*' 2J/) ED-H8) H0DC (E92D 9F CDQ :J) E'/QJQ) HFA9JQ). :(' 'D,'E9) 9F G0G 'D-1C) 9DE' (#FQ -1C)
EF'B6) D.5.5) 'DE9DHE) B/ (12* AJ 'DE,*E9 H*,DQ* AJ E' J91A ('D#F8E) 'D.(J1) 'D-1Q) H'DE,'FJQ) H'D*1'.J5 'D-1Q)
HCDQG' *39I D*1HJ, 'DE9DHE) H*ECJF 'DA&* 'DH'39) DDE,*E9 EF 'D-5HD 9DI 'DE9DHE*' H*H8JAG' ./E)
DDE5D-) 'D9'EQ).

*E'E' CE' #FQ E4'1J9 'D%5D'- 'DE.*DA) DE *D, D(Q 'DE3#D) H#5D 'D/Q! H4.Q5* CDQ 0DC AJ 'D4CD 'D0J '*Q.0G
'D*9DJE 'D9'DJ 'D9EHEJ A%FQ 'D71A 'DEB'(D 'D'2'D J*4(Q+ (1\$J) 9BJE) H(J1HB1'7JQ) **FCQ1 DD-1'C 'D0J
J91AG 'DE,*E9 AJ E,'D*' 'D9DHE H*('/D 'DE9DHE*' H'DH9J (/H1 'DEH'7F AJ 'D'.*J'1*' H'D*H,QG'.

(9/ #F 4G/* A1F3' -1C) 7D'Q(JQ) EF'G6) DE4'1J9 'D%5D'- 'DE*9'B() HDE' #5(- JO91A (E41H9 Â« '3*BD'D 'D,'E9*'
Â» G'GE 1,'D 'D9DE H'D,'E9JHF H'D('++HF J*,FQ/HF 6/Q E4'1J9 *ACJC E\$3Q3*' 'D(-+ 'D9DEJ 'D*J C'F* HD'2'D*
A.1 'D#EQ) 'DA1F3JQ) C'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) CNRS H'DE9G/ 'DH7FJ DD9DHE 'D7(QJQ) INSERM
H'DE9G/ 'DH7FJ DD(-H+ 'D21'9JQ) INRA H1A9H' 49'1 Â« DFFB0 'D(-+ 'D9DEJ Â». -HD G0' 'D49'1 *,EQ9 9/J/
'D('++JF EF EO.*DA 'DB7'9*' HEF 'DEA'1B*' #FQ G0G 'D-1C) B/ 'D'B' /9E' EF BHI H#H3'7 E*(JF) (!' (BHI 'DJ3'1
'D*BDJ/J H'D'4*1'CJQ) 'D/QJEB1'7JQ) H5HD' %DI #B5I 'DJEJF H'D-1C*' Â« 'D3J/JQ) Â» (Souverainistes) HCDQG'
9(Q1* 9F *.HQAG' EF .71 'F/+1 'D(-+ 'D9DEJ 'DA1F3J.

(9/ 'D-1('D9'DEJQ) 'D+ 'FJ) (12* EH'2JF BHI 3J'3JQ) H9'DEJQ) #/Q* %DI *6JJB E,'D *./QD 'D41C*' H'DE\$3Q3*' 'D#E1JCJQ)
'DC(1I G0' 'DE,'D 'D0J C3(*G .D'D 'D-1(GCO' 8G1* AJ 9/J/ 'D(D'F 'DE5FQ9) E\$3Q3*' HE1'C2 (-+
9DEJ H7FJQ) HDE JCF 0DC (E92D 9F 'D5Q1'9*' 'D*J C'F* *4BQ G0G 'D(D'F EF #,D /9E FAH0G' AJ 'D9'DE. 91A*
G0G 'DA*1) *./QD' E('41) DD/HD) D/9E 'D(-H+ 'D9DEJQ). AAJ 'DHD'J*' 'DE*Q-/) 'D#E1JCJQ) (12 EAGHE J/E, 'D(-H+
'D9DEJQ) AJ 'D'3*1*J,J' 'D'B*5'/JQ) H'3*1*J,J' 'D/QA'9. JECF '9*(1 Vannevar Bush 1'&/ G0' 'D*H,QG -J+ /A9 ('DH37
'D3J'3J %DI (9+ E\$3Q3*' (-+ 9/J) E1*(7) ('D/HD) EF 0DC E' JO91A ('DE\$3Q3) 'D9DEJQ) 'DBHEJQ) : National
Science Fondation. '(*/! EF 'D3FH*' 'D.E3JF EF 'DB1F 'DE'6J (/## 'DE\$3Q3*' 'D/QHDJQ) *39I D'3*9'/) /H1G' 'D9'DEJ
9DI -3(E\$3Q3*' 'D(-+ 'DH7FJQ) H0DC ('3E 'DF,'9) 'D'B*5'/JQ) H(12* AJ 'D9'DE E\$3Q3*' 9DEJQ) 9'(1) DD#H7'F.
91A* 'D3(9JFJ*' H'D+E'FJF*' (1H2 'D*QA'B 'D9'DEJ -HD 'D*91JA*' 'D,E1CJQ) H'D*,1) GATT 'D*J 3*5(- AJ 3F) 1995
'DEF8QE) 'D9'DEJQ) DD*,1). AJ 3F) 1986 H%+1 ',*E'9 G0G 'DEF8QE) AJ 'DJH1H:H'J HBQ9 'D#96!' 9DI E' J91A
(@ "'D*QA'B 'D9'E -HD *,1) 'D./E*"' (A.G.C.S). J4ED G0' 'D*QA'B 160 B7'9' EF 0DC 'D3J'-) H'DFBD H'D(F!
H'D+B'A) H'DE!' H'D7'B) H'D(1J/ H'D*9DJE H'D5-Q) H'DB7'9 'D3E9J 'D(51J H'DEC*(JQ) H'D#14JA 'DH7FJ H'D(-+
'D9DEJ HB/ '3*+FI G0' 'D*QA'B 'D#EF H'DB6!' H'D,J4. ('D*H'2J 419* 'D-CHE*' AJ 'D(D'F 'DE5FQ9) AJ 'D*.DQJ
'D*/1J,J 9F E\$3Q3*'G' 'D9DEJQ) 'DH7FJQ) H0DC *EGJ/ 'D*7(JB E(/# -1QJ) *,1) 'D./E*' 'DQ0J 'D*2E* (G HHBQ9*
9DJG. AJ A1F3' HEF0 'D3FH*' 'D*39JF EF 'DB1F 'DE'6J (12 'B*1-'F JG/A'F %DI 'DB6!' 9DI E\$3Q3*' 'D(-+ 'DH7FJQ)
: %EQ' *-HJDG' %DI A1H9 E.*5Q) AJ 'D(-+ 9F E5'/1 'D*EHJD #H 92DG' CDQJQ' D5'D- A1H9G' 'DE.*5Q) H-DQ (96
'DA1H9 Â« :J1 'DE,'J) Â» CA19 'D(-H+ 'D%F3'FJQ) H'D',*E'9JQ) 'D*(9 DDE1C2 'DH7FJ DD(-H+ 'D9DEJQ). *1',9*
'D*EHJD*' EF0 3F) 1992 HG0' AJ 8DQ 'D-CHE*'JF 'D'4*1'CJQ) H'DJEJFJQ) 9DI -/Q 3H'!. ,!* 'QA'BJQ) D4(HF)
D*\$CQ/ G0' 'D*H,QG. ADB/ ,! AJ E,DQ) 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) E' JDJ : "'G/A '3*1*J,J' D4(HF) 'D*J
'F7DB* EF0 3F) 2000 %DI .DB 3HB A9DJQ) DD(-H+ AJ #H1H(' (-DHD 3F) 2010". F0CQ1 (#FQ 'DE1C2 'DH7FJ
DD(-H+ 'D9DEJQ) CNRS GH E\$3Q3) E*9/Q/) 'D'.*5'5* HB/ E+QD %-/I 'D1C'&2 'D#3'3JQ) DD3J'3) 'DFHHJQ)
'DA1F3JQ) (D JECF 'D%B1'1 (#FQ 'D(-H+ 'DAJ2J'&JQ) -HD 'D01*' C'F* EF (JF /H'A9 (9+ G0' 'DE1C2. ADB/ #F4&
G0' 'DE1C2 (#E1 1&3J AJ 19 #C*H(1 1939 #J 4G1 (9/ 'F/D'9 'D-1('DA1F3JQ) 'D#DE'FJQ) H:2H #DE'FJ' 'DA'4J)
D(HDHFJ'. #HCD* DDE1C2 'DH7FJ DD(-H+ 'D9DEJQ) EGEQ) 'DE3'GE) AJ E,GH/ 'D-1(EF .D'D E.'(1G. (9/ 'DG2JE)
HBQA 'D(-H+ 'D93C1JQ). (9/ 3F) 1944 HAJ 9G/ 'D,F1'D /J:HD #5(- 'D(-+ 'D9DEJ #HDHJQ) BHEJQ) H*6'9A*
'DEJ2'FJQ) 'DE.5Q5) DG H(12* D,F) -CHEJQ) *6EQ CDQ 'DH2'1* H*9*FJ ('D(-+ 'D9DEJ. EF 1-E 'DE1C2 'DH7FJ
DD(-H+ 'D9DEJQ) F4# 'DE9G/ 'DH7FJ DDA6!' H'D,JHAJ2J!' HE9G/ 'DAJ2J!' 'DFHHJQ) HAJ2J!' 'D01) CE' 'FA*
'DE1C2 9DI 'D,'E9*' H9DI B7'9 'D5F'9) HB/ 9B/ AJ 3F) 1975 #HQD '*QA'BJQ) AJ G0' 'D%7'1 E9 E\$3Q3) Rhône
Poulenc 1:E E9'16) (96 'D('++JF. AJ 3F) 2003 HB9 %D:!' 30 AJ 'DE'&) EF 'D*EHJD*' 'DE.5Q5) DD(-H+ ('3E 'DF,'9).
9D'H) 9DI 0DC DE JB9 *-HJD 'D#EH'D 'D*J HB9 %B1'1G' 3F) 2002 H%DI (/J) /J3E(1 2003 8DQ 'DE1C2 J*1BQ(G'
HC0DC GJ -D 'DE9G/ 'DH7FJ DD(-H+ 'D9DEJQ) H'DE9G/ 'DH7FJ DD(-H+ 'D21'9JQ). EF0 ,HJDJ) 2007 *(FQI E,D3

%/1) 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) (319) A&B) E.7Q7' '3*1*J,JQ' JB6J ('D*.DQJ 9F 'D#B3'E 'D9DEJQ) H'D'3*9'6) 9FG' (E9'G/ **CAQD (6(7 E4'1J9 'D(+ H%J,/' E5'/1 'D*EHJD. DB/ 'B*1F* G0G 'D%,1'!' (BH'FJF #A1JD 2006 H#H* 2007 'D*J (1E, * D9D'B) H+JB) (JF 'DB7'9 'DE51AJ H'DE'DJ H'D5F'9J EF ,G) H(JF 'D,'E9'*. 3J4G/ 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) %D:'! 380 EH7F 4:D J4ED 'D(-+JF H'DEGF/3JF H'D*BFJF. 51Q-* 'DH2J1) Valerie Pecresse %DI %-/I 'DBFH*' 'D*DA2JQ) : "D3F' (-,) 'DJHE DE2J/ EF 'D(-+JF". AJ #+F! CDQ 0DC (12* 'D'-*,'; * 6/Q E41H9 %5D'- 'D*9DJE 'D9'DJ H'D(+ 'D9DEJ H0DC *- * 49'1 : Â« DFFB0 'D(+ HDFFB0 'D,'E9) Â». A'D/9H) %DI '3*BD'DJQ) 'D,'E9' *9FJ ('DF3() DDE-*,QJF %.6'9G' DD#H3'7 'DE'DJ) H'D41C' *E*9/Q/) 'D,F3JQ'*. #EQ' E4'1J9 'D%5D'- 'D*J *.5Q E\$3Q3' * 'D(+ 'D9DEJ AGJ *1EJ %DI *B3JE 'DE9G/ 'DH7FJ DD(-H+ 'D7(QJQ) INSERM %DI 8 E9'G/ H'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) CNRS %DI 7 E\$3Q3' * H%.6'9 E\$3Q3' * 'D(+ %,E'D' %DI E' #5(- J91A (3HB 'D(+ HG0' J./D -3(#5-' ('DE41H9 6EF Â« *- /J+ H951F) Â» 'D(+ 'D9DEJ. AJ 26 E'13 2009 *,EQ9 EH8QAH 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) DJEF9H' 'F9B/ ' ,*E'9 'DGJ&) 'D%/1JQ) 'D*J C'F* 3*(-+ 'D9BH/ 'DE1*(7) (#G/A 'DE\$3Q3). ,! AJ CO*NJQ(5'/1 9F G0G 'DGJ&) : **7E- '3*1*J,J' D4(HF) 'D*J #B1QG' 'D*Q-' /'D#H1H(J AJ 3F) 2000 %DI %F*, 'DE91A) H*-HJD G0' 'D%F*', %DI E-1QC DD'B*5/ 'D#H1H(J (.DB E,'D #H1H(J DD(-+... %FQG EF 'D#GEQJQ) (EC'F A*- 'DE,'D DDE3'GE' * 'D(41JQ) H'DE'/QJQ) H'DE'DJQ)... H'D*9'ED E9 4(C* BHJQ) D(F! 41'C* EF E.*DA 'D(D'F H'D'A'B...'. AJ 2 #A1JD 2009 H(JFE' 4G/* A1F3' *8'G1* 9/J) HAJ CDQ #1,! 'D(D/ '9(J1' 9F 1A6 'D*.DQJ 9F 'D./E' * 'D9EHEJQ) H'D*9DJE H'D(+ *H'5D* 9EDJQ) *ACJC 'DE\$3Q3' * 'D9EHEJQ) DD(+ HB79* 4H7' G'EQ'. A9DI :1'1 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) H'DE9G/ 'DH7FJ DD(-H+ 'D7(QJQ) 91A 'DE9G/ 'DH7FJ DD(-H+ 'D21'9JQ) JHE' 5'.(' (D*-1QC* H0DC (EF'3() ',*E'9 E,D3 %/1) G0' 'DE9G/ H'D0J C'F EH6H9G %B'E) "CF31*JHE H7FJ DD21'9) H'D*:0J) H5-Q) 'D-JH'F H'D(J&)' A*- (0DC 'DE,'D D.5.5) 'D(-H+ 'D21'9JQ).

J1I 'DE9'16HF DE4'1J9 %5D'- 'D(+ 'D9DEJ #FQ G0' 'D#.J1 D' JECF #F J-'A8 9DI 'DEH6H9JQ) %0' C'F* 'DE\$3Q3) 'DE41A) GJ 'D.5E H'D-CE AJ "F H-'/ H0DC AJ EJ'/JF 9/J) C'D5-Q) H'D(J&) H'D7'B) H'D21'9). 3J-/Q/ 'DEEHQD 'D'.J'1* H'D(1'E, HJ\$+Q1 9DI F* &,G' H0DC (E' J*D'IE E9 E5'D-G. AJ 13 #A1JD 2009 F41* ,1J/) DHEF/ F* &, 9EDJQ) 3(1 DD"1! *(JQF EF .D'DG' #FQ :D(JQ) 'DA1F3JQJF J3'F/HF -1C) 'D'-*,' ,D*J B'E (G' 'D(-+HF H#3*0) 'D*9DJE 'D9'DJ H'D7D(). AJ 'D-BJB) DB/ *6'A1* 9/J/ 'D9H'ED D*\$'/QJ %DI E1',9) 3J'3' * 'D*9DJE H'D(+ 'D9DEJ. AEF F'-J) GF'C *H,QG F-H 9HDE) 'D(+ 'D9DEJ H.5.5) 'D*9DJE AJ ,EJ9 E1'-DG HEF F'-J) #.1I GF'C 1:() ,E-) DD#H3'7 'DE'DJ) H'D'B*5'/JQ) 'D9'DEJQ) AJ #BDE) 'D(-H+ 'D9DEJQ) H'D#C'/JEJQ) E9 E*7DQ(* 'D*.JJ1 'D*J J91AG' 'DB7'9 'D.'5Q H'DE\$3Q3' * (5A) 9'EQ). D(DH: G0' 'DG/A 7'D ('DE\$3Q3' * (.JJ1 #4C'D H71B 'D*9'ED H'D*9'HF E9 E\$3Q3' * 'D(+ (*41JC 'D#HDI AJ *- /J/ #HDHJQ' * 'D(+ H'D*EHJD H71B '3*:D'D F* &, 'D(-H+ .#4C'D 'D*9'HF 9/J) EFG' 'D3J'3) 'D*9'B/JQ) DE/Q) E-/Q/) H'D*J *,(1 'DE.'(1 9DI 'D*EHJD 'D0'*J DF4'7*G' H-E'J) 'DE9'1A H.5.5*G' H'D*.DQJ 9F 'D*41J9' * 'DB/JE) (E' J3E- (-1C) H'F*B'D 'D(-+JF EF EHB9 D".1. G0' GH 'DFEH0, 'DEGJEF AJ 'DHD'J' * 'DE*Q-) 'D#E1JCJQ) -J+ JF*BD 'D(-+HF EF E.(1 %DI ".1 CD 4 3FH'*. #HQD EF /'A9 9F G0' 'DFEH0, H-'HD A16G GH 'DH2J1 'D'4*1'CJ Claude Allègre. AJ 3F) 1980 3F* 'DHD'J' * 'DE*Q-) 'D#E1JCJQ) B'FHF' J3E- (-E'J) 'D(+ 'D9DEJ AJ 'DB7'9 'D9EHEJ EF .D'D *3,JD (1!' * 'D'.*1'9 H('D*DJ A*- 'DE,'D D'F*B'DG' DDB7'9 'D.'5Q. B(D 50 3F) EF 5/H1 G0' 'DB'FHF C'F 'DB7'9 'D93C1J 'DE-1QC 'D1Q&J3J DD('C'1 'D*CFHDH,J HB/ D9(* 'D3D7) 'DAJ/1'DJQ) /H1' E-H1JQ' AJ *7HJ1 'D(-H+ 'D#C'/JEJQ) HB/ ,! 'DB'FHF DJA*- 9G' /,J/ HJ13J #16JQ) B'FHFJQ) D'F*B'D 'D*CFHDH,J %DI 'D3HB. 91A* 'D,'E9' *EH,) EF *3,JD 'D(1!' * H*-HQD* 'DE.'(1 'D9EHEJQ) %DI E\$3Q3' * HE5'F9 HB/ '1*(7 G0' 'D*H,QG (*7HQ1 'D(JH*CFHDH,J' H(9/J/ 'D(-H+ 'D#.1I AJ EJ'/F 'D7(H'DCJEJ!' H'D#F8E) 'D.(J1) H'D%9D'EJQ) H'DGF/3). #5(- 'D9DE (6'9) H8G1 E57D- Â« 'B*5/ 'DE91A) Â» H*.DQ* 'DHD'J' * 'DE*Q-) 'D#E1JCJQ) 9F EAGHE 'D9DE CB7'9 9EHEJ H('D*DJ 9F 61H1) *./QD 'D/HD) AJ *EHJD H*H,JG 'D(+ 'D9DEJ H1'AB 0DC -1C) 9HDE) 'D(+ *F8JE' H'3*1*J,J' EF 0DC 'D*1CJ2 9DI 'D9BH/ H'D(-H+ 0* 'D,/HI 'DE'(41) 9DI -3('D(-H+ 'D%3*1*J,J). DCF G0' 'D*H,QG J*F'B6 E9 -BJB) #FQ E98E 'D*7(JB' * 'DG'EQ) DD9DHE C'F E5/1G' (-H+ #3'3JQ) (9J/) CDQ 'D(9/ 9F 'D*7(JB' * 'DE'(41). G' GJ %0F A1F3' *-0H -0H 'DHD'J' * 'DE*-/) 'D#E1JCJ) H*3*9/Q D.5.5) 'D(-H+ 'D9DEJ). J1I #5-' ('DE4'1J9 Â« 'D%5D'-JQ) Â» #FQ E\$3Q3' * 'D(+ 'D9DEJ GJ EF (B'J' 951 'D*-1J1 HGJ E-'A8) H:J1 B'(D) DD%5D'- (*B1J1 %/1) 'DE1'B) 'DE'DJ) H'D%/1JQ) 'DA1F3JQ) D3F) 2001). CE' #FQ 71JB) 'D*3JJ1 D' **F'3(E9 'D951 %0 #FQ G0G 'DE\$3Q3' * 4:QD EH8QAJF H(-+JF E3*BDQJF 9F B7'9 'D*9DJE H(5A) /&E). CE' J9('9DJG' E1C2JQ) 'DB1'1 H'F-5'1 9D'B*G' E9 (96 'D,G' * H'D,'E9' * H'D5F'9' * H'F92'DG' 9F 'DE,*E9. 1:E #FQ 'DE+'D 'D#E1JCJ J8DQ 'DE1,9 D#5-' ('DB1'1 H'DE/'A9JF 9F E4'1J9 'D%5D'- %D'Q #FQGE D' J*,1Q\$HF 9DI 'D%9D'F 9F 0DC 51'-). B(D #JQ'E EF 'D'F*.'(1* 'D1Q&'3JQ) 'D#E1JCJQ) *91Q6* 'DH2J1) Péresse %DI E+'D #DE'F'J' H'D-'D #FQ G0' 'D(D/ J91A *9'8E #9// 'D(-+JF 'D9'7DJF 9F 'D9ED. J*F'3I /9) .5.5) 'D(+ 'D9DEJ H'DE/'A9JF 9F 'DFEH0, 'D#E1JCJ #FQ *./QD 'DB7'9 'D.'5Q AJ E,'D 'D(-+ DE JB6 9DI *./QD 'D/HD). A'DJHE J7'D(1,'D 'D#9E'D 'D.H'5Q 'D#E1JCJHF (/9E *./QD 'D/QHD) AJ EJ'/F 'D(+ 'D9DEJ D#FQGE J1J/HF #F JF*A9H' EF F* &,G (#BDQ 'D*C'DJA. A'DE\$3Q3' * 'D.'5Q) D'

*9*FJ 3HI ('D(-H+ 0*' 'DA'&/) 'DE('41) H'D*J *9FJG' AJ F4'7G' H*F9C3 (5A) E('41) HEDEH3) 9DI #1('G'. +EQ G'GH ('1C #H('E' JB1Q1 E6'9A) EJ2'FJQ) 'D/QHD) DD(+ 'D9DEJ HB/ D'BI G0' 'D'.*J'1 E('1C) 1,'D 'D#9E'D. D' #-/ J4CQ AJ 1J'/) 'DHD'J*' 'DE*Q-/) 'D#E1JCJQ) DD(+ 'D9DEJ AJ 'D9'DE DCF E3'GE*G' *91A *1,'9' EB'1F) ("3J'. G0' E' *H5QD* DG E\$3Q3) Thomson Reuters AJ *B1J1 DG' 5/1 AJ ,FAJ 2009 HB/ D.Q5 12 3F) EF 'DE9DHE*' 'D*J '9*E*/ B'9/) (J'F* E\$3Q3) National Science Indicate H'DE\$3Q3) 'DE0CH1) GJ 'DE5/1 'D1Q&J3J DDE9DHE*' 'DE.5Q5) DDE\$3Q3* H'DEGFJQJF. AGF'C *1,'9 DD'G*E'E ('D(+ 'D9DEJ H*BDQ5 9// 'D('+-JF 'D#,F(H*1,'9 'D'3*+E'1*' 'DE.5Q5) DD(+ 'D9DEJ H'D*9DJE 'D,'E9J H*1,'9 'D5/1*' 'D*BFJ) 'D*J C'F* AJ -/H/ 29 ('DE&) 3F) 1970 H#5(-* 12 ('DE&) AJ 'DHB* 'D0J 91A* AJG 'D5JF H'DJ'('F 2J'/) AJ %F*,GE' H5/1*'GE' 'D*CFHDH,JQ). AG0' Â« (JD :J*3 Â» J7DB 5J-) A29 : '9F/E' #B'1F E3*HI 'D7D'Q(AJ 'D+FHJ) 'D9'EQ) AJ #E1JC' ('D7D'Q('D0JF #D*BJGE AJ #3A'1J JF*(FJ 'D1Q9(H'D.HA 9DI 'DE3*HI 'D*9DJEJ DG0' 'D(D/".

9(Q1 'D3JQ/ Albert Fert 'DE/J1 'D9DEJ DDH-/) 'DE4*1C) (JF 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) HE\$3Q3) Thales H'DE*-5QD 9DI ,&2) FH(D 9F 'F4:'DG EF E.'71 *(FQJ "'DFEH0, 'D#E1JCJ". EF 'DE9DHE #FQ E,EH9) Thales E.*5Q) AJ 'D%DC*1HFJC 'D/BJB) AJ EJ/F 'DA6!' H'DEJ/F 'D93C1J H*CFHDH,J' 'DE9DHE*' H*E*DC 'D/QHD) 27 ('DE&) EF -55G' HB/ -O8J* (-E'J) .5Q). JBHD 'D3JQ/ Albert Fert : "DJ3 GF'C H,G 4(G E9 E\$3Q3*' 'D(+ 'D#E1JCJQ) 'D*J **E*Q9 (B/1*' E'DJ) A'&B). A'DFEH0, 'D#E1JCJ E.5Q5 DD#:FJ!' -J+ *(D: FAB*' 'D*9DJE DDA1/ 'DH'-/ ('E9) G'1A'1/ 50 #DA /HD'1 DD3F) HG0' JA3Q1 -D*' 'D'FGJ'1 'D95(J H'D'F*-1 'D*J *4G/G' 'DE1CQ(' *D,'E9JQ) (E' AJ 0DC ,E9) G'1A'1/... EF 'D61H1J 'D-A'8 9DI #33 'D*F8JE 'D,EGH1J DD(+ 'D9DEJ H'D*9DJE 'D,'E9J... HCDQ 0DC J6EF '3*BD'DJQ) 'D('+-JF...". J*:'AD CDQ 'D('+-JF 'D0JF J1A9HF 49'1 "DFFB0 'D(+ 'D9DEJÂ« H Â»DF-'A8 9DI '3*BD'DJQ) 'D('+-JF" #FQ E\$3Q3) Thales 9DI 3(JD 'DE+D '1&/) AJ EJ/F Â« 'D(JHE*1J) Â» HB/ 6:7* 9DI 'D/HD) 'DA1F3JQ) D*(FQJ (7'B) 'D*91JA 'D%DC*1HFJQ) HGJ 'D*J 5F9* C'EJ1*' 'DE1'B() AJ E-7Q*' 'DB7'1*' HGJ *F*, E.*DA #FH'9 'D#3D-) (E' AJ 0DC 'D#3D-) 'DF'FHJ) H'D#B1'5 'DB'/1) 9DI E1'B() *-1QC* 'D#4.'5. CE' #FQ 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) D' J.69 D#JQ B'FHF #.D'BJ Ethique HDB'9/) *BJJE 4A'A HD' '3EJ CE' #FQG J9*E/ #3DH('DEB1Q1 'D0J D' J.DH EF '9*(7JQ). #.J1' *H/, E1'C2 6:7 H*#+J1 EF (96 'D#3*0) 'D,'E9JQJF #H EF BHI A'9D) 3'GE* AJ *H,JG 'D*EHJD* %DI EJ/JF /HF #.11 -*1 H%F DE *CF *E+QD #HDHJQ). A%0' C'F* .5-5) B7'9 'D(+ 'D9DEJ *F01 (%.6'9G DE5'D- 'D/H'&1 'DE'DJ) H'D'B*5'/JQ) 'D9'DEJQ) H'D-'D #FQ 'D9'DE J9J4 #2E) E'DJ) .FB) A%FQ EHBA 'DE/'A9JF 9F 'DB7'9 'D9EHEJ H9F 'DEC'3(D' J5E/ #E'E -BJB) 'D(+ 'D9DEJ 'D9EHEJ. AG0' 'DB7'9 D' J.69 DDE1'B() *F8JE' H5J:') H*BJJE' HAJ CDQ E1-'D 'D(+ HG0' F*, 9F :J'(4(C) EF 'D9D'B*' (JF 'DEH'7FJF EF F'-J) H'D('+-JF.

DD*1J. FBHD #FQ 'F(+B 'DE1C2 'DH7FJ DD(-H+ 'D9DEJQ) CNRS C'F F*', 'D*-DA 6EFJ (JF 'D/J:HDJF H'D-2('D4JH9J 'DA1F3J (0J 'D*H,QG 'DBHEJ) HB/ 1#J' AJG 'D#/' 'DA9Q'D) D'3*1,'9 A1F3' DEC'F*G' 6EF E,EH9) 'D(D'/F 'DE5FQ9) HB/ C'F DDB7'9 'D93C1J /H1' E-H1JQ' AJ /9E F4'7*G H0DC AJ 51'9 E9 'DHD'J*' 'DE*Q-/) 'D#E1JCJQ) H'D*Q-/ 'D3HAJJ*J 'D3'(B. #E' 'DJHE HAJ 951 'D9HDE) H'FGJ'1 EA'GJE Â« 'D/HD)-D#E) Â» HGJEF) 1#3 'DE'D 'DE'DJ 'D/HDJ H'D0J D' J9*1A ('DH7FJ) H'D,F3J) A%F 'D/A'9 9F FEH0, E' (9/ 'D-1('D9'DEJ) 'D+'FJ) J9/Q EF B(JD 'D(C!' 9DI 'D#7D'D. G0' D' J9FJ #F 'DFEH0, 'D-'DJ DD(+ 'D9DEJ GH 'D#A6D HDCF 'DE3#D) **7D(5J':) ,/J) H*5H1' E3*-/+' JB79 E9 'D(J1HB1'7J) EF F'-J) HE9 'DE5'D- 'D6JB) DDE,EH9* 'DE'DJ) .5H5' H#F G0G 'D#.J1) B/ #/.'D* 'D9'DE AJ /H'E) 'B*5'/J) D' JECF 'D*CGF (E/I .7H1*G'. AD' JECF 'D/QA'9 9F 'DF8'E 'D9EHEJ DD(+ 'D9DEJ %0' DE JB*1F 0DC (E1',9) ,HG1JQ) DE-*HI 'D(+ HD9D'B) 'DE,*E9 ('D9DHE (-J+ J3*,J('D(+ D-',J* 'DEH'7F 'DA9DJQ) HJFA*- 9DI 'D-J) 'D',*E'9JQ) HJ.69 DDE1'B(). A'D(+ 'D9EHEJ D' J9FJ ('D61H1) 'FA*'-' 9DI 'D9EHE. DB/ *A7QF #96! -1C) "DFFB0 'D(-" DD+:1*' 'D/JEB1'7JQ) D(1F'E,GE -JF 4.Q5H' "'3*BD'DJQ) 'D(+ 'D9DEJ AJ -H'1 /.'D 'D9'&D) 'D9DEJQ)" H.5H5' 9F/E' D'-8H' 9/E *6'EF 'D1Q#J 'D9'E E9 E7'D(GE A-HQDH) (1F'E,GE %DI "91J6) EFA*-) 9DI 'DEH'7FJFÂ« H#5(- 'D49'1 : Â»DFA*- #(H(' 'D(+ 'D9DEJ".

#JQ (-+ J,(%FB'0G H#JQ) 9DHE #9DHE FBJ) HE-'J/)! #9DHE FHHJQ) H(JH*CFHDH,JQ) HF'FH*CFHDH,J' DE *.69 D*BJJE #HQDJ DE.'71G' #E *BFJ* 93C1JQ) H*BFJ* E1'B() DB/ 'B*1F 'DE1H1 EF 'DE,*E9 'D5F'9J %DI 'DE,*E9 'D%DC*1HFJ E,*E9 'D-1C) H'D(6'9) H'DE9DHE) ('D'F*B'D EF 'D9ED CBJE) %DI 'DBJE) 'DE(GE) H'DE,1Q/) ((E' AJ 0DC -1C) 'DE'D) HG0' E' JA3Q1 %DI -/Q (9J/ 'D#2E) 'DE'DJ) 'D9'DEJQ) 'D*J *F9C3 3D(' 9DI E3J1) 'D(+ 'D9DEJ. %FQ 'D*-/QJ GH #(9/ E' JCHF 9F 51'9 (JF .5Q H9'E (JF E/'A9 9F 'DB/JE HE,/Q/ (JF E-'A8 H*B/QEJ %DI 3(1 CFG 'D9DHE H'D*BFJ* HG0G B6JQ) #.11.

4- 'D%7'1* 'D9DEJQ) 'D91(JQ) : 'DEGF/3 AJ (D/F 'DE:1('D91(J E+'D' 9DI E/I *1J. 'DE:1('D91(J 'DE9'51 C'F DDEGF/3 /H1 ', 'E'9JQ E-H1JQ %0 E+QD E1C2 'D+BD D'3*1*J,J* 'D*FEJ) 3H! EFG' 'D9E1'FJQ) #H 'D5F'9JQ) #H 'D21'9JQ). #JQ 5H1) DDEGF/3 AJ E1-D) 'D'3*9E'1 HE' GH EHB9G AJ 'DE, *E9* 'DE:1(JQ) 'DE9'51) .5H5' AJ 'D9BH/ 'D#.J1) 'D*J *H',G AJG' (D/F 'DE:1('D91(J 'DC(J1 *- /QJ* 'D'FA*- H*-1J1 'DB7'9* 'D'B*5'/JQ) #HQD 5H1) 91A*G' (D/F 'DE:1('D91(J 'DC(J1 GJ 5H1) 'DEGF/3 'DB/E EF 'D(D/ 'DE3*9E1 DJC*4A HJ(FJ 9'DE' E*-6Q1' 9DI :1'1 E' *91AG 'D(D/ 'DE5FQ9). *13Q.* G0G 'D5H1) AJ 'D#0G'F HA16* 9DI 'DE, *E9 .5H5' H#FQ 'DBHI 'D'3*9E'1JQ) B/ -'D* /HF *CHJF EGF/3JF E:1(JQJF. (9/ 'D'3*BD'D *:JQ1* 'D1QG'F* H'D*- /QJ*. C'F 9DI G0G 'D(D/F #F *39I %DI '3*('D 'DEGF/3JF 'DA1F3JQJF (%7'1* *BFJQ) H7FJQ) DD%41'A 9DI 9EDJQ) 'D*FEJ) 'D5F'9JQ) 'DEH,QG) HAB' D*.7J7 'D/QHD) 'D*J 3*5(- (319) A'&B) #HQD E4:QD DDEGF/3JF 3H! *DBH' *9DJEJE AJ 'D.1, #H AJ (D/ EF (D/F 'DE:1(. #EQ' 'DJHE ADB/ *:JQ1* 'DE97J*. ADB/ /.D* (D/F 'DE:1('D91(J 'DC(J1 E1-D) EF *-1J1 'D'B*5'/ HE' JF*, 9F 0DC EF '4*// 'D*2'-E. CDQ 0DC J71- B6JQ) /H1 'DEGF/3 AJ 'DE\$3Q3) HE/I B/1*G 9DI %/1) 'D*CFHDH,J' 'D, /J) H9DI 'D('C'1 'D*CFHDH,J. -*I H%F DE **.DQ 'D/QHD) FG'&JQ' 9F /H1 'DE4:QD DDEGF/3JF %D'Q #FQG' DE *9/ 'D6'EF D*4:JD 'D%7'1* 'D*BFJ) 'D*J HB9 *CHJFG' -/J+'. CE' #FQ /H1 'D/HD) AJ /A9 'D*FEJ) B/ *1',9. #/QI CDQ 0DC %DI %9/) GJCD) #F8E) 'D*CHJF H*B3JE ,/J/ DDB7'9* 'DEGFJQ) H(1H2 '3*1*J,JQ* ,/J) D/E, 'DEGF/3JF AJ 'D-J) 'DEGFJQ) CE' #FQ 5H1) 'DEGF/3 'D*J GJEF* 9DI E/I 9BH/ B/ 91A* G2Q* H*-HQD* 9EJB). AJ 'D,2! 'D#HQD EF 'DB1F 19 (12* 'D-',) DD*BFJQJF H'DEGF/3JF .5H5' AJ 'DEJ/F 'D93C1J HCDQ 0DC JG/A %DI EB'HE) 'D6:H7 'D'3*9E'1J) H'D*5/QJ DG'. 'DEGF/3 'D93C1J GH 0DC 'D*BFJ 'D61H1J 'D0J JB/QE -DHD' 93C1JQ) F',9) DEB'HE) 'DBHI 'D#H1H(JQ). AJ G0' 'D%7'1 HB9 %F4!' 'DE/13) 'D-1(JQ) ((1/H AJ 3F) 1840 (EC* ('DEGF/3JF) H'D*J 91A* #J6' (E9G/ 'D(HDJ*CFJC. *1CQ2* EF'G, 'D*9DJE AJ G0' 'DE9G/ 9DI 'DEH/ 'D9DEJQ) H'D1J'6JQ) H'D*CHJF 'D93C1J. D'B* G0G 'D951F) 'D*J DE **, 'H2 'DE, 'D 'D93C1J 'DA4D 'D01J9. A.(D'A #H1H(' DE J1'AB (1H2 E/'13 'DEGF/3JF FEHQ' 5F'9JQ'. +EQ ,! 'D'3*9E'1 DJ-HD /HF *5FJ9 'D(D/ 'DE3*9E1). EF (JF (FH/ E9'G/) 'D-E'J) 'D'3*9E'1JQ) 'D*2'E 'D(D/ 'DE3*9E1 (9/E E2'-E) 'D5F'9* 'DA1F3JQ) H('D'B*5'1 9DI *HAJ1 'DEH/ 'D21'9JQ) D5'D- 'D(D/ 'DEGJEF. %0' '3*+FJF' (96 'D-'D*' 'DF/1) JECF 'D,2E #FQG DE J4ED %7'1 'DEGF/3JF 9DI 'DEGF/3JF H'D*BFJF 'DE:1(). A9DI 3(JD 'DE+'D HAJ (/J) 'DB1F 'D941JF B'E* 'DBHI 'D'3*9E'1JQ) (#4:'D G'E'EQ) AJ *HF3 HDE JE+QD 'D9F51 'D*HF3J 3HI 5% EF 'D9'EDJF 'DB'1QJF H'DHB*JQJF 9DI -/Q 3H'!. AJ 3F) 1945 9(Q1 'DA19 'D*HF3J D*Q- /' 'DEGF/3JF H'D*BFJF 9F 'F4:'DG D'F-5'1 9// 'DEGF/3JF H'D*BFJF 'D*HF3JQJF. #EQ' AJ 'D,2'&1 ADB/ EF9 'D'3*9E'1 'DEH'7FJF 'D,2'&1JQJF EF *DBQJ *9DJE *BFJ. A'D9// 'DBDJD EF 'DE\$3Q3*' 'D*9DJEJQ) JB/QE *CHJF' *BFJ' D:'D(J) EF 'D#H1H(JQJF. AJ 'DA*1) 1949-1950 C'F 9// 'D7D() 'D,2'&1JQJF 77 EF (JF 453 7'D(' E13QE' AJ E\$3Q3*' 'D*9DJE 'D*BFJ 'D21'9J. #EQ' ('DF3()) DD*9DJE 'D*BFJ 'DEGFJ ADB/ C'F 9// 'D,2'&1JQJF 271 EF (JF 1702. *,3Q/ 'D5H1) 'DEGJEF) DDEGF/3 AJ 'DEGF/3 'DA1F3J. AJ A1F3' #HCD DDEGF/3 /H1 G'E AJ *7HJ1 'D%F*',JQ) H'D-/Q EF *C'DJA 'D%F*', H'DH3J7 AJ 'D51'9*' /D 'DE\$3Q3). AJ 3F) 1895 #F4&* 'DE\$3Q3) 'DA1F3JQ) DDEGF/3JF 'DE9EQ1JF HAJ 3F) 1898 #F4&* E/13) 'D#4:'D 'D9'EQ) HB/ #A5-* G0G 'DE\$3Q3) 'D*9DJEJQ) EF0 'D(/J) 9F *H,QGG' 'D'3*9E'1J .5H5' ('/! EF 3F) 1912 E9 (/J) 'D-E'J) 'DA1F3JQ) DDE:1('D#B5I. #EQ' 'DE\$3Q3) 'D*9DJEJQ) 'D#HDI ADB/ C'F* *9*FJ ('D*H3Q9 'D9E1'FJ H(/H1 'DEGF/3 AJ 'D(D/F 'DE3*9E1) E9 'D*#CJ/ 9DI 'D3CC 'D-/J/JQ) CH3JD) #HDI DD*GJ&) 'D*1'(JQ) DDE3*9E1*. DB/ 1HQ,* G*'F 'DE\$3Q3*' 'D*9DJEJQ*'F DD5H1) 'DFEH0,JQ) DDEGF/3 'D'3*9E'1J (5A*G #/) DD*:JJ1 'D*J *BH/G' 92JE) D' *CDQ. AGH 'DE9E'1J H'DE-'A8 9DI 'D3D'E) H'DEJC'FJCJ H'DB'&/ H29JE 'DE, EH9* 'D(41JQ) 'D*J *HCD DG' EGEQ) 'D*FAJ0 HGH 'DH-J/ 'DB/1 9DI 'DFB/ H'D*5HQ1 H'D*#BDE E9 ,EJ9 'D#H6'9 H'D-'D*. EF (JF 'DB7'9* 'DG'E'EQ) 'D*J JBHE AJG' 'DEGF/3 ('D/H1 'DE-H1J F0C1 'D#4:'D 'D9'EQ) H'D(1J/ H'D*Q5'D*. 'D#:D(JQ) 'D3'-B) EF 'DEGF/3JF GE EF #5D A1F3J %0' '3*+FJF' (96 'D#3E! E+D 'DEGF/3 'D*HF3J E-E/ 9DJ 'D9F'(J H'DEGF/3 'D*HF3J E-E/ 'DEJDJ. *1*A9 F3() 'DEGF/3JF #5JDJ 'D(D/ 'DE3*9E1 AJ E/'13 'DGF/3) 'D21'9JQ). DB/ (9+ 'D'3*9E'1 E/'13 21'9JQ) D*CHJF 'DE9EQ1JF H*GJ*GE EF 'DF-'J) 'DFA3J) DD(B! HÂ« 'D*9EJ1 Â». DCF 0DC DE JEF9 EF *ECQF #(F!) (96 'DED'QCJF 'D9B'1JQJF 'DC'(1 EF E2'HD) *9DJE 21'9J %DI ,F('DA1F3JQJF. ADB/ E+QD* 'D21'9) 'DB7'9 'D1&J3J 'D0J 9E/ AJG 'DEGF/3 'D'3*9E'1J %DI A16 F81*G DD*FEJ). ADB/ 7(QB 'DEGF/3HF 'DA1F3JQH 'D*BFJ* 'D21'9JQ) 'DE9'E) AJ A1F3' #HBDEHG' E9 #H6'9 'DE3*9E1*. (D'5) 9F/E' *-5QD* (D/F 'DE:1('D91(J 9DI '3*BD'DG' C'F* *A*B/ DDEG'1* H'DCA!'* 'D*BFJ) H('D0* DDEGF/3JF. ('/! EF 'D3FH* 'D3*JF H*- *#+J1 'D%J/JHDH,J' 'D*FEHJQ) 'DEGJEF) AJ 'D:1(419* (D/F 'DE:1('D91(J AJ *CHJF %7'1* HCA!'* *BFJ) B/1) 9DI *.7J7 H%/1) 'D*FEJ) 'D'B*5'/JQ) H'D%41'A 9DI 'DE\$3Q3*' 'DE\$NEQNE). DB/ HB9 *4,J9 'D7D() 9DI 'D*H,QG %DI A1H9 'D*9DJE 'D*BFJ) H'D9DEJQ) CE' HB9 *4,J9 #F,('D*D'EJ0 DD*H,QG %DI /1'3) 'DGF/3). *9/Q/* E\$3Q3*' 'D*CHJF H2/'* #9// 'D7D() EF 3F) D#.1I HJECF *4(JG G0' 'D*H,QG ('D'3*1*J,J' 'D3*'DJFJ) DD*FEJ) 'D'B*5'/JQ) -J+ B'E* 'D/HD) (/H1 'DEB'HD H1,D 'D#9E'D %6'A) %DI /H1G' 'DE-H1J AJ 'D*9DJE. AJ CDQ 'D(D/F 'D91(JQ) #5(-* 'DGF/3) EGF) EB/Q3) H#HDHJQ) H7FJQ) -*I AJ 'DE:1('D#B5I 'D0J C'F F8'EG 'D'B*5'/J #C+1 DJ(J1'DJQ) EB'1F) ((BJQ) (D/F 'DE:1('D91(J. ADB/ E+QD 'DB7'9 'D9EHEJ 95(

'D'B*5/' AJ 'D3FH*' 'D3*JF H'D3(9JF EF 'DB1F 'DE'6J. #:D('DEGF/3JF C'FH' J9EDHF AJ 'DB7'9 'D-CHEJ H4(G 'D-CHEJ. '(!/! EF 'D3FH*' 'D+E'FJF /,D* 'B*5'/J*' 'D(D/'F 'D91(JQ) E1-D) ,/J). ADB/ A4D FEH0, 'D*FEJ) CE' *1',9* E/.'JD 'D/HD) EF E(J9*' 'DEH/' 'D#HQQJ) H'DEF,EJQ) H'DFA7 H3'9/ 0DC 9DI *.DQJ 'D/QHD) 9F /H1G' 'D0J 'D*2E* (G AJ 'D9BH/ 'D#HDI DD'3*BD'D. AJ 'D#+F!' 'FG'1* 5H1) 'DEGF/3 'DEH8QA H*1',9 /H1 'DEGF/3 AJ 'DE,*E9. AJ E98E 'DB7'9*' 'D9EHEJQ) *-HQD 'DEGF/3 %DI (J1HB1'7J H*1',9 /H1G 'D*BFJ D5'D- EG'E %/'1JQ) H('D*H'2J *1',9* B/1*G 'D41'&JQ) H*/FQI EHB9G AJ 'D3DE 'D,*E'9J. DCFQ 0DC DE J4ED ,2! 'G'EQ' EF 'DEGF/3JF 'D0JF *DBQH' *9DJEGE AJ 'DE/'13 'D9DJ' 'DA1F3JQ) H'D:1(JQ) (5A) 9'EQ) CE9'G/ 'D(HDJ*CFJC. A(JFE' '1*BI 'D,JD 'D#HQQD EF G\$D!' %DI EH'B9 'DE3\$HDJQ) 'D9DJ' AJ 'DE\$3Q3*' 'D9EHEJQ) 'F/A9 ,JD 'D3(9JFJ*' %DI (9+ EC*(/1'3* .5Q) ('1*(7 ('DE\$3Q3*' 'D5F'9JQ) 'D#H1H(JQ) 'DC(1I H*H,QG ,2! 'G'E EF ,JD 'D+E'FJF*' AJE' (9/ %DI 'D'3*B1'1 AJ 'D(D/'F 'D#H1H(JQ) #H AJ (D/'F #.1I C(D/'F 'D.DJ, H-*QI H%F B1Q1H' 'D1Q,H9 %DI 'D(D/ A%FQGE 'D*-BH' (A1H9 DDE\$3Q3) 'D#EQ 'DEF*5) AJ (D/GE. AJ (D/'F 'DE:1('D91(J 'DC(J1 JECF *B3JE 'DB7'9 'D.'5Q %DI FH9JF EF 'DE\$3Q3*' :

* E\$3Q3* .5Q) C(1I *HAQ1 9// 'E-/H/' EF EH'7F 'D4:D DDEGF/3JF.

* 9// G'E EF 'DE\$3Q3*' 'D5:1I H'DH37I (96G' 4(G -1AJ) HF47) DCFQG* *9'E/ J/' 9'ED) JB9 %9//G' AJ EH'B9 'D9ED H0DC (E' J*D'!E E9 -,J*'G' E9 'D'3*F,/' AJ 81HA E\$BQ*) HE-/H/) (.1) EC'*('D/1'3* H./E*' (96 'DEGF/3JF. DB/ 'B*1F *1',9 'D/HD) E9 A16 3J'3* %9//) 'DGJCD) HE' #5(- J91A ('D*#GJD H0DC (/9E EF 'DE\$3Q3*' 'DE'DJ) 'D/HDJQ) HB/ 'F7DB* G0G 'D9EDJQ) AJ 3F) 1983 ('DE:1('D#B5I HAJ 3F) 1986 (*HF3 AJ 3F) 1995 ('D,2'&1. AJ EF*5A 'D*39JF*' HBQ9* *HF3 H'DE:1(E9'G/'* *-1J1 'D*',1) E9 'D3HB 'D#H1H(JQ) 'DE4*1C). #/QI 0DC %DI %9//) *4CJD 3HB 'D4:D H%9//) GJCD) H*B3JE DDB7'9*' 'DEGFJQ). *1',9* #9// 'DEGF/3JF 'DE4*:DJF AJ 'DB7'9 'D9EHEJ EB'1F) E9 'DB7'9 'D.'5Q (JFE' *4CQD* G1EJ) AJ #H3'7 'DEGF/3JF 'DE4*:DJF ('DB7'9 'D.'5Q H*FHQ9* A1H9 'DF4'7 'DGF/3J EEQ' #/QI %DI *1',9 'DDQ-E) 'DEGFJQ) DDEGF/3JF. H69JQ) 'DEGF/3JF 'D21'9JQ(F 'DE:'1) 4/J) 'D/QD'D). A'D,JD 'D#HQQD EF 'DEGF/3JF 'D21'9JQJF #5(-H) J4:DHF EF'5(%/'1JQ) AJ 'DE\$3Q3*' 'D9EHEJQ) (JFE' 6'B* 3HB 'D4:D ('DF3() DD,JD 'D,/J/ EF 'DEGF/3JF 'D21'9JQJF H'1*A9* F3() 'D(7'D) AJ #H3'7GE. #EQ' AJ *HF3 AJD'-8 'DE.'5QHF *,FQ('DB7'9 'D.'5Q *4:JD 'DEGF/3JF H'DJ/ 'D9'ED) 'DE.'5Q) H0DC DD-/Q EF CDA) 'D%F*.,.

.5Q5 (D/'F 'DE:1('D91(J 'DC(J1 AJ B7'9*' E-/Q/) EF 0DC 'DF3J, H'D21'9) H'D3J'-) H'D%DC*1HFJC H'DEJC'FJC HD' JECF DG0G 'D(D/'F #F *2'-E E+JD*'G' AJ 'D3HB 'D/HDJQ) 3HI ('D-/Q EF CDA) 'D%F*.,. DCF AJ 'D#+F!' 8G1* BHI 'B*5'/JQ) ,/J) B'1) 9DI E2'-E) 'DEF*', 'DE:'1(JQ) C'D5JF H(D/'F ,FH(41BJ "3J'. AJ 'DE:1('D#B5I 'D0J 91A 'F*9'4) DB7'9 'D'B*5/' 'DE51AJ *1',9 /H1 'DEGF/3 EB'1F) E9 EGF #.1I E+D 'D%7'1*' 'D9'EQ) AJ B7'9 'D*',1) H'DE\$3Q3*' 'DE51AJQ). A'DJHE #:D('DEGF/3JF AJ G0' 'D(D/ EF ,0H1 E*H'69) HE*H3Q7) (JFE' J*H,QG #(F!' 'D9'&D*' 'DEJ3H1) %DI '.5'5*' 'D*',1) H'DE'D.

D' JECF A5D #2E) 'DEGF/3 AJ 'DE:1('D91(J 'DC(J1 9F E-*HI (1'E, 'D*9DJE. A9// G'E EF 'DEGF/3JF 2'HD *9DJEG AJ 'D(D/'F 'D#,F(JQ) H('D#H.5Q #H1H(' .#3Q3* 9/J/ 'DE9'G/ 'DE.'5Q) AJ *CHJF 'DGF/3) (,EJ9 A1H9G' H'.5'5*'G' (JFE' D'2'D* 'DBDQ) EF 'D*D'EJ0 Â« 'DE*AHQBjF Â» J2'HDHF *9DJEGE 'D9'DJ (#H1H(' H,2! 'G'E EFGE J.*1 'D(B!' GF'C. EF F'-J) #.1I (12* E9'G/ GF/3) .5Q) HDE *B/1 %DI -/Q 'DJHE E2'-E) 'DE9'G/ 'D9EHEJQ) H'D'1*B!' %DI E3*H'G'. D'2'D 'DEGF/3HF AJ 'DE:1('D#B5I 'D0JF 2'HDH' #H J2'HDHF *9DJEGE 'D9'DJ AJ 'DE/'13 'D9DJ' 'D#H1H(JHF J4CQDHF F.()) 'DE,*E9 'D3J'3JQ) H'D'B*5'/JQ). *H',G 'DE\$3Q3*' 'D'B*5'/JQ) AJ (D/'F 'DE:1('D91(J 'DC(J1 *-/QJ*' ,EQ) D9DQ #GEQG' .6H9 EF*,*G' DDEH'5A*' 'D/HDJQ) HG0' D' J*#*QI 3HI ('D'3*',) D@Â« -,J*' Â» 'D3HB 'D*J DE *9/ AB7 H7FJQ) (D H('D#H.5Q #,F(JQ) H/HDJQ). E98E 'D/1'3*' *4J1 %DI #FQ E3'GE) 'DEGF/3 AJ 'D(+ H'D('C'1 D'2'D* E-/H/) ,/Q' HG0' 1',9 D9'E 'D*7'(B (JF 'D4G'/) 'DE*-5QD 9DJG' (E-*HI 'D*9DJE) H'D/H1 'DEHCHD DG AJ EJ/F 'D%F*', HEHB9G AJ %/'1) 9EDJQ) 'D%F*', H9D'B*G ('DB7'9*' 'D'B*5'/JQ) 'D#.1I H'DEGF 'D#.1I. EF 'DEGF/3 'DEH8QA 'D0J CHQF 'DF.()) 'D*J #'1* E.7Q7*' 'D*FEJ) AJ (/J) 'D'3*BD'D %DI 'DEGF/3 'DE9'51 'D0J J(+ 9F 'D'F/E', AJ F3J, 'B*5'/J EFA*- 9DI 'D.'1, G0G GJ E3J1) 'DEGF/3 AJ 'DE:1('D91(J 'DC(J1 HD9DQG' 5H1) 5'/B) DH69JQ) ,DQ 'DEGF/3JF 'D91(H-*I 'DEGF/3JF AJ (D/'F 'D,FH(B'7()). D' JECF A5D 'DE96D*' H'D59H(* 'D*J J*91Q6 DG' 'DEGF/3 'D91(J /HF 1(7G' ('DH69 'D'B*5'/J 'D9'EQ H('D*-HQD*' 'D*J J91AG' 'D'B*5/' 'D9'DEJ H'D*J -*QE* 9DI CDQ (D/'F 'D,FH('D'F5G'1 AJ FEH0, 9'DEJ 37Q1*G 'DBHI 'D'B*5'/JQ) 'D9'DEJQ) 'DA'9D).

5- 'D*9DJE AJ 'DHD'J*' 'DE*/-Q) 'D#E1JCJQ) EF0 3F) 1958 F(QG* 'DEAC1) -FQ) #1F/* EF 9,2 'DE\$33) 'D*9DJEJQ) 9F *HAJ1 *1(J) F',9). A*-* :7! *HAJ1 FA3 'D-8H8 DCDQ #A1/' 'D4Q9(*#3Q3* G0G 'D#.J1) 9DI FE7 'DE\$3Q3*' 'D5F'9JQ) AH69* EB'JJ3 H-/Q/* #G/'A' *BH/G' AJ 0DC 9BD'FJQ) -3'(JQ). 3H!' *9DQB 'D#E1 ('DE-'A8JF #H ('D/JEB1'7JJF ADB/ '*QAB 'D,EJ9 9DI #FQ 'D.5.5) *8DQ 'D-DQ 'DH-/J. 9DI 'DE/13) 'D9EHEJQ) #F *3'GE AJ 'D1A9 %F*',JQ) 'DE\$3Q3*' (*CHJFG' DJ/ '9ED) E.*5) HAJ 'D-/Q EF 'D*A'H* 'DFQ*', 9F *H2J9 'DEF*',*. DCFQ 'DH'B9 J\$CQ/ #FQ G0G 'D#G/'A 'D*QJ *(/H %F3'FJQ) DE *-BQB (D 'D9C3 GH 'D0QJ FD'-8G EF .D'D *BJJE #HQDJ DDE\$3Q3) 'D*9DJEJQ).

4J1 'D%-5&JQ' 'D1Q3EJQ) %DI #FQ F3() 'D(7'D) D/I 'DE*.1Q,JF 'D, // H'D0QJF :/1H' 'DE/13) B(D 'D-5HD 9DI 4G/'* *(D: 55 ('DE'&) (%-5&JQ*' 2009) (JFE' (D:* 28 ('DE'&) ('DF3() D#5-'('D4G'/'* .E' JB'1(*DEJ0 EF +D'+) #J EDJHF H200 #DA *DEJ0 AJ 'D3QF) J:/1HF 'DE/'13 'D%9//JQ) #H 'DE9'G/ B(D -5HDGE 9DI 'D4QG'/'* H*1*A9 G0G 'DF3() AJ 'D#-J!' 'DABJ1) -J+ JB7F 'D#E1JCJQH 'DD'Q*JFJQH H'D3QH/ D*(D: 60 ('DE'&). 1A9 'DE-'A8HF (29'E) (H4 49'1 DF3*+E1 Â« 'D1Q#3E'D 'D(41J Â» H'9*(1H' #FQ 'D*9DJE (E+')('3*+E'1 5F'9J #H E51AJ HF'/H' (*F8JE 'DE\$3Q3) 'D*9DJEJQ) HAB 'DFEH0, 'D*JDH1J 'DE9'E/ AJ 'DE5'F9. GC0' #B1Q* 'D3QD7) #4C'D' EF 'D9B'(9DI 'DE\$3Q3*' 'D*9DJEJQ) 'D*QJ D' *-12 9DI 'DFQ* '&, 'DE1,HQ) H0DC AJ 4CD 1A9 'D/Q9E 'DE'DJ #H 71/ 'DE/J1JF H5HD' %DI :DB G0G 'DE\$3Q3*' .2'EF CDQ 0DC E9 (1H2 'DE\$3Q3*' 'D*9DJEJQ) 'D.'5Q) -J+ J2'HD '(F EF '+FJF D#96!' 'D(1DE'F 'D*9DJE 'D.'5Q (JFE' (D:* G0G 'DF3() 14 ('DE'&) ('DFQ3() DC'ED 'D4Q9('D#E1JCJ. #EQ' %5D'-!* #H('E' AGJ DE *.1, 9F G0' 'D%7'1 %0 #B1Q 9BH/' E9 'DE\$3Q3*' 'D*9DJEJQ) 'D9EHEJQ) HEF (JF 41H7 G0G 'D9BH/ 'D*2'E #:D(JQ) 'DE/1Q3JF (9/E 'D'F'E!' %DI #JQ E\$3Q3) FB'(JQ) -J+ J*91Q6 G\$D!' %DI .71 'D71/ HJA16 9DI 'D*D'EJ0 'DE*.DQAJF AJ 'D/Q1'3) 9F'J) A'&B) EF #, D 6E'F E1/H/JQ) 9'DJ) DDE\$3Q3) 'D*9DJEJQ). '9'E/* %/'1) #H('E' 9DI E(/# 'D*F'A3 (JF 'DE\$3Q3*' 'D*9DJEJQ) H1A9* 49'1*' 'DF',9) HDE J-D 0DC /HF *9EQB #2E) 'D*9DJE (5A) 9'EQ) H*9EQB 8'G1) 'D*A'H* (JF E.*DA A&* 'D4Q9(.5H5' (JF 'DEH'7FJF 'D3QH/ H'DD'Q*JFJQJF H(BJQ) 'D4Q9(.

-VII- 'D*9DJE H'D*4:J@D

D' *.DH 'D5-A 'DJHEJQ) H'DE\$33*' 'D%9D'EJQ) EF 'D-/J+ 9F 61H1) 1(7 'D*9DJE ('D*4:JD H/E, 'DE*9DQEJF AJ 'D/H1) 'D'B*5'/JQ). A'DCDQ J(-+ 9F 'D-DB) 'DEABH/ 'D*QJ *3(Q* AJ G0G 'DB7J9). DE *5(- B6JQ) 'D*4:JD E3#D) *4:D 'DE3\$HDJF H'D3J'3JQJF H'D(-+JF 3HI AJ 'D9BH/ 'D#.J1). *9/Q/* 'D/Q1'3*' -HD 9D'B) 'D*9DJE ('D*4:JD H9F 61H1) '3*',() 'D#HQD DD+'FJ H'FA*-' 'DE\$33) 'D*9DJEJQ) 9DI 9'DE 'D%F*',. 1:E CDQ 'D,GH/ H'D%5D'-!* H'DE4'1J9 *H'5D '1*A'9 F3() 'D(7'D) AJ 'D9'DE 'DE5FQ9 %,E'D'. #EQ' AJ 'D(D/F 'DF'EJ) 'D*QJ *1*(7 ('D(D/F 'DE5FQ9) AJ ,EJ9 'DE,'D*' H'D*QJ 'F/E, 'B*5'/G' (/1,* E*A'H*) E9 'D'B*5'/ 'D/QHDJ A%FQ 'DE3#D) D' *.DA ,01JQ' H%F C'F* #4/Q -/Q). DJ3 EF 'D:1J(#FQ 'DB7J9) (JF 'DE,'D 'D*9DJEJ HE,'D 'D9ED B/ *1'AB* E9 'FA5'D 'D-J) 'DA1/JQ) H-*QI 'D9&DJQ) 9F 'D-J) 'D',*E'9JQ) (E' AJ 0DC 'D-J) 'DEGFJQ). AJ E1-D) +FJ) FD'-8 B7J9) (JF EJ/'F 'D/Q1'3) .D'D 'D%FG!' EFG' H(JF E' J91A (3HB 'D4:D %0 DE J9/ -5HD 'D4G'/'* 6E'F' DD-5HD 9DI 'D9ED CE' #FQG 9/) E' D' J1*(7 'D4:D ('DE9'1A 'D*QJ HB9 'D-5HD 9DJG' EF .D'D 'D*9DJE. 'DE\$33) (-, DCA!) B(D CDQ 4J! HG0' D' J9FJ ('D61H1) 4G'/). CDQ 'D%9D'F*' 'D5-AJQ) -HD 91H6 'D4:D *C/' *H-Q/ -HD 'DE7'D() ('D*,1() 'DEGFJQ). DCF EF #JF DD7'D('D0QJ #FGI /1'3*G #F J-5D 9DI 'D*,1() %0' C'F DE JD*-B (9/ (E\$33) *4:QDG. EF GF' (12* #71 **H3Q7 (JF 'D/Q1'3) H'D*4:JD EGEQ*G' %9// 'D7D() 'D0QJF #FGH' /1'3*GE #H *GJ&GE DD'D*-B ('DE\$33*' 'D5F'9JQ) #H :J1G' EF 'DE\$33*' H0DC EF .D'D 9BH/.

91A* 3J'3* 'D*9DJE *-HQD*' G'EQ). AEF 'DCDQ 'DE/13J H'D*9DJEJ 'D9EHEJ 'D0QJ EJQ2 8GH1 'D/QHD)-'D#EQ) H-5HD 'D(D/F 9DI '3*BD'DG' %DI -/Q FG'J) 'D3*QJF*' (/# 'D9'DE J91A 'D*F'A3 9DI 'D4:D (1:E #FQ 'D(7'D) C'F* EH,H) HE+QD* %-/1 1C'&2 'DE,*E9*' 'D:1(JQ)) H0DC (-/Q) DE J9G/G' AJ 'D3'(B %0 *H3Q9 'D*F'A3 EF 'D9EQ'D DJ7'D 'DE.*5QJF H#5-'('D4G'/'* H*-HQD*' 'D3J'3) 'D9EHEJQ) EF /9E 'DE\$33) 'D*9DJEJQ) %DI 'D*.DQJ 'D*/1J,J 9FG' D5'D- *9DJE .5Q (%6'A) %DI 'D/Q1H3 'D.5H5JQ) AJ 'DE\$33*' 'D*9DJEJQ) 'D9EHEJQ)) H'FGEC* 'D/QHD AJ %/'1) 'D(7'D). AJ 8DQ G0G 'D#2E) 8G1* 'DEGF 'DHB*JQ) H'DEF'HD) H'D*9'B/ HCDQG' #4C'D G4Q) DD4:D *91Q6 5'-(G' DD(7'D) AJ CDQ HB* (JFE' #,(1* 'DE\$33) 9DI E' J3EQI 'D*#GJD 'D4'ED H'DGJCD) D*F'A3 E+JD'G' AJ 'D9'DE HE' J5-(0DC EF -/Q EF 9// 'D9'EDJF 9E'D' H#5'-(4G'/'* H0DC AJ CDQ 'DE3*HJ*' H'D'.*5'5'. #5(-* EB'JJ3 *BJJE 'DE\$33) 'D*9DJEJQ) D' *3*F/ DDE9'JJ1 'DF81JQ) 'D*QJ #A12* EB'1F*' /HDJQ) (JF 'DE\$33*' 'D,E9JQ) 9DI 3(JD 'DE+'D (D %FQ E,'D 'D*BJJE 'DA9DJ GH E/I '3*',(*G' D3HB 'D4:D. (7(J9) 'D-'D CDQE' 491 'D*DEJ0 #H 'D7'D(

#FQ 'D*9DJE 'D0QJ J*DB'G DF J6EF DG 'D4:D :/1 'DE\$33) 'D*9DJEJQ) #H 'FB79 9F 'D/Q'1'3) 9DE' (#FQ G0G 'D49(9/) E' **A'BE AJG' 8'G1) 'D9FA.

CJA F\$BDE 'DE\$33) 'D*1(HJQ) E9 -,J* 'D3HB DCF #JQ 3HB #J %F*', D#JQ G/A E' GJ 'D-',J* 'D*QJ F(:J *HAJ1G' #J E3*GDC #J E9FI DG0' 'D%F*', +EQ GD F*9DQE AB7 DFF*, HF1A9 EF E3*HJ* 'D%F*', HF-BQB 2J/) AJ 'DEF*H, 'D/Q'.DJ 'D.'E HF5/Q1 #3&D) DF F,/ DG' EF #,H(). #EQ' ('DF3() DD7'D('DE*.1Q, AAJ 9/J/ 'D-'D* DE *GJQ&G 'DE\$33*' 'D*9DJEJQ) DE+D G0G 'D#3&D) (D #FQG DF J.71 (('DG 71-G' 9DI FA3G D#FQ 'DE3#D) 'D#EQ 'D*QJ *\$1QBG GJ CJAJQ) 'D-5HD 9DI 4:D D6E'F 'DBH* H'D/Q.D H'D*ECQF EF 'D'F/E', AJ 'DE,*E9 H'D2H', H(F!' 9&D) HDE D' 41!' 3JQ'1). DE J9/ 'D'1*B'! 'D',*E'9J E1*(7' ('D61H1) ('D*9DJE H%F 4G/ G0' 'D#.J1 '3*B7'(' (JF #BDJQ) HF.) 6JQB) EF F'-J) H#:D(JQ) E91Q6) %DI 'D(7'D) H'D*GEJ4.

#JF JCEF 'D-DQ %0F E' -JD*F' #E'E *2'J/ #9// 'D9'7DJF H'DEGEQ4JF ('DF3() D.(!' 'D'B*5/ H-*QI 'D*5HQ1 'D9'E 'DEGJEF AJ 'DE,*E9 J8DQ 'D'3*+E'1 H(9+ 'DE4'1J9 H'D*FEJ) H-4JQ) C'F* #E Â « E3*/JE) Â»!! H(9+ 'DE4'1J9 'D5F'9JQ) H*95J1 'DAD'-) H:J1G' EF 'DE4'1J9 GJ 'D-DQ H'DEA*-. 'D*FEJ) 'D-'DJQ) #/Q* %DI 'D(7'D) HDCFQG' GJ 'D-DQ DD(7'D). EF 'D*FEJ) %DI 'D(7'D) AE2J/ EF 'D*FEJ). GC0' F/H1 AJ -DB) EA1:). DF3'9/ 'D4Q('F 9DI (9+ 'DE4'1J9 'D5:1I H'DE*H3Q7)! DCF #J) E4'1J9 HE' GH E/I *#BDEG' E9 'DH'B9 'D'B*5'/J H'D',*E'9J DF-+Q 'D'3*+E'1 'D.'1,J HFGJ& DG #3(' 'DF,- H'D9ED! DCF E' GJ 'D61J() DG0' 'D'H,G %F 9DI 'DE3*HI 'D',*E'9J #H 'D(J&J GF'C AC1) 1'&.), AJ #H3'7 'D.(!' HJC/ JB(DG' CDQ 'DE,*E9 /HF FB/ #H E,1Q/ 'D4CQ EA'/G' #FQG CDQE' 7HQ1 'D#A1/ %F*,GE H3'GEH' AJ .DB 'D+1H) %D'Q H9/ 0DC ('DFA9 9DI 'DE,EH9). C'F* G0G 'DAC1) 'D*QJ GJEF* AJ 'D(D/'F 'DE5FQ9) #+F!' 'DB1FJF 18 H19 HF*, 9F CDQ 0DC *3'19 AJ 'D%F*', H*1'CE DDEH/ 'DB'(D) DD'3*GD'C (D %FQ 'D-1C*' 'D'-*,JQ) 'D*QJ B'E (G' 'D9EQ'D EF #,D *-3JF #H6'9GE 'D',*E'9JQ) B/ 3'GE* AJ /A9 9,D) 'D'3*GD'C. DF#0. E+D A1F3' : D'-8 'D.(!' 'D'B*5'/JQHf GF'C #FQG DDB6!' 9DI 'D(7'D) D' (/Q EF 6E'F F3() FEHQ 3FHJQ) *(D: 4 ('DE'&) H0DC DE/Q) +D'+JF 3F). J9FJ 0DC #FQG DDB6!' 9DI 'D(7'D) D' (/Q EF E6'9A) 'D%F*', #1(9 E1Q* H0DC J9FJ #1(9 #69'A 9// 'D3J'1* H"D* 'D:3JD H'3*GD'C EH/ 'D7'B)... DCF 0DC J(/H E3*-JD'. ACDQ 2J/) AJ 'D%F*', H*3'19 AJ 'D*FEJ) *9FJ ('D61H1) 'DC'1+) : *DHQ+ *1'CE 'DFA'J* (*DBJ *HF3 3FHJ) 75 #DA 7F EF 'DFA'J* 'DCG1('&J) H'D%DC*1HFJ)) '3*:D'D 'DEH'1/... DF*5HQ1 #FQ 3CQ'F 'D5QJF 'D49(JQ) J(D:HF E3*HI '3*GD'C 'D(D/'F 'DE5FQ9) EF 'D3JQ'1* : 3J\$/QJ 0DC %DI FA'0 EF',E 'D-/J/ H'DF-'3 H'D2QFC HE5'/1 'D7'B) 'D#-AH1JQ)... JD'-8 'DEACQ1 Albert Jacquard #FQG AJ 9G/ Adam Smith 'DEACQ1 'D'B*5'/J C'F* 97 ('DE'&) EF 'DF4'7* 'D'B*5'/JQ) DD(D/'F 'D:1(JQ) EH,QG) D%F*', EH/ '69) DD(J9 H'D41'!. #EQ' 'DJHE AE' JB'1(50 ('DE'&) EF 'DF4'7 'D'B*5'/J J*E+QD AJ 'DF4'7 :J1 'D3D9J E+D 'D5-Q) H'D*9DJE H:J1GE'... DCJ F7(QB F81JQ* 'E 3EJ+ 9DJF' #F F.5.5 G0G 'DB7'9* 'D9EHEJQ) HF,9D EFG' (6'9) #H ./E) *(9 H*4*1I HG0G GJ 'D(1(JQ) (9JFG'. EF F'-J) #.1I H('9*(1 'D'3*F2'A 'D0QJ *91AG E5'/1 'DCHF EF EJ'G HGH! H(-1 H*FHQ9 (JHDH,J H:(' HEF',E HEH'1/ 'D7'B) ADB/ /.DF' E1-D) D' JECF AJG' #F FH'5D 9DI FA3 'DH*J1) H%D'Q 91Q6F' H,H/F' DD.71. AF-F F9J4 (H'/1 -1H('DEJ'G. CDQ (7'D) *F*, 9F *6.QE AJ 'D%F*', D#FQ 'D9ED DJ3 (.J1* F*B'3EG' (D GH .DB DD.J1*. A'D(7'D) DJ3* 'D9,2 9F .DB 'D.J1* 'DB'(D) DD'3*GD'C H0* 'DBJE) 'D',*E'9JQ). EF F'-J) #.1I 3'GE* 'D9HDE) H*3'19 'D*('/D 'D*',1J (JF 'D(D/'F AJ 'D'A'H* (JF 'D(D/'F 'D5F'9JQ) H(D/'F 'D,FH(EF F'-J) HAJ *9EJB 'D'A'H* /'.D 'D(D/'DH'-' 5F'9JQ) C'F #E F'EJ' (JF ,G* EGEQ4) H9/) E' J:D(9DJG' 'D7'(9 'D21'9J H(JF #.1I -61JQ) **C+QA AJG' 'D./E* H*2J/ '.F'B' (3CQ'FG'.

GF'C 1G'F ".1 J9HQD 9DJG 1,'D 'D'B*5/ DDB6!' 9DI 'D(7'D) 3H! AJ 'D(D/'F 'DE5FQ9) #H AJ (D/'F 'D,FH(HGH 'D*5/J1 : *5/J1 'D.J1* 'D7(J9JQ) H'DEF*,* 'D21'9J) H'D5F'9JQ) H-*QI 'D./E*. DCF 'D*5/J1 DJ3 3HI FAJ H*,GD H*.DQ5 HGEJ EF 'DCDQ 3H! EFG 'DH7FJ #H 'D9'DEJ. F5/Q1 DF-5D 9DI A'&6 EF 'D9ED) HDCF 0DC 9/) E' JCHF 9DI -3(' 'D-',J* 'D/Q'.DJQ) H9DI -3(' B7'9* G'EQ) EF 'D'B*5/ HC0DC 9DI -3(' 'D(J&J H'D',*E'9J. +EQ %FQ 'D3HB 'D9'DEJQ) *C/ *CHF EO4(9) HD9DQ B7'9 'DFQ3J, #-3F E+D %0 #FQG J91A '1*A'9 F3() 'D(7'D) H'D71/ (A9D *1',9 B/1) 'DE\$33* 9DI 'DEF'A3) 'D9'DEJQ). E9 '1*A'9 'D%F*',JQ) H*7HQ1 'D%9D'EJQ) H'D#*E*) #5(-* 'D5F'9* 'D-/J+) (-, DJ/ 9'ED) DG' CA!) E-/H/) AJ G0' 'DEJ/'F #H 0'C. DCF G0G 'DCA!) JECF 'D-5HD 9DJG' AJ E/Q) EH,2) EEQ' JGJQ& DD*.DQ5 EF ,2! G'EQ EF 'DJ/ 'D9'ED). -*QI AJ G0G 'D-'D J5(- *1HJ, 'DEF*H, 1GJF 'D-ED* 'D%9D'EJQ) H'D/Q9'&JQ) H319) (+Q 'DE9DHE) H%J5'DG' DDEH'7F. D0DC #5(-* 'DE\$33* *H8QA ,2! G'EQ' EF '3*+E'1*G' DD/Q9'J) (E' AJ 0DC E\$33* 'D5J/D) 'D*QJ *FAB AJ 'D/Q9'J) +D'+ E1Q* E' *FABG AJ 'D(+ 'D9DEJ. AJ 'D(D/'F 'DE5FQ9) D' *9H/ 'D(7'D) AB7 DD*B/QE 'D*CFHDH,J H*1',9 'D-',) DDJ/ 'D9'ED) DCFQG' %DI -/Q E' '.J'1 A16G '.*D'D EH'2JF 'DBHI 'D',*E'9JQ) H*1',9 'D-1C*' 'D',*E'9JQ). #EQ' AJ 'D(D/'F 'DF'EJ) AD' (/Q EF 'D%4'1) %DI 0DC 'DB6!' 'D*/1J,J DDE,'D 'D2Q1'9J H*ACJCG HA16 AD'-) E5FQ9) HCJEJ'&JQ) E9/Q) DD*5/J1 H*G,J1 'D#1J'A H/9E

'DEF'7B 'D-61JQ) H'D3'-DJQ) 9DI -3(' 'DEF'7B 'D/'.DJQ) 0*' 'D7'(9 'D21'9J.

E' EF 4CQ #FQ 'D9'DE JE1Q (#2E) 'B*5'/JQ) HE'DJQ) E' A*&* **A'BE *5'-(G' #2E) (J&JQ) *G/Q/ (C'1+). DE J9/ ('D%EC'F 'DEH'5D) AJ FG(.J1*' 'D9'DE H-1B 'D*1() E(J/'* H#3E/) H'DB6!' 9DI 'D*FHQ9 'D(JHDH,J H'D(0H1 'D#5DJQ) HG/1 'DE5'/1 H'D.J1'*. A-*QI 'DEF8QE) 'D9'DEJQ) DD21'9) 'DE91HA) (E3'F/*G' DDAD'-) 'DE5FQ9) H'DCJEJ'&JQ) *1',9 EH'BAG' H*/9H DAD'-) 'DE2'19JF H%9'/) 'D9*(1 DD1QJA HDD21'9) 'D96HJQ) HD*B'FJ* .AJA) HED'&E) H-*QI 'DE3\$HDJF 'D3J'3JQJF AJ 'D9'DE JB1QHF (#FQF' B/ (D:F' -/Q' D' JECF *,H2G.

%0F F-F *,G #2E) (7'D) 9'DEJQ) GJCDJQ) E2EF) HG0' J9FJ #J6' #FQ 'D-DHD DF *CHF H7FJQ) #H ,GHJQ) (D CHFJQ) H',*E'9JQ). %0' C'F* 'D(D/'F 'D*QJ *9/ ('D'3'+E'1 AJ (D/'F 'D,FH((E' AJG' (D/'F' GJ 0*'G' *9'FJ EF 'D(7'D) 'DE3*A-D) H%0' C'F* 'D*FEJ) ('DH*J1) 'D-'DJ) *A6J %DI C'1+) (J&JQ) A#JQ -DQ DE96D) 'D(7'D) DF*HBQA BDJD' : 'D4:D CE' JAGEG :D(JQ) 'DF'3 GH AJ 'D-BJB) /D'D) E.J'DJ) #J *5HQ1 EGJEF H.'5Q ('DE,*E9*' 'DE9'51) HGH D0DC J9*(1 F3(JQ' AJ *1J. 'D(41JQ) #J #FQG %A'1'2 EF %A'1'2*' 'DE,*E9. *1J.JQ' 'FG2E* CDQ 'D-1C*' 'D'4*1'CJQ) 'D7H('HJQ) AJ EH',G*G' DGJEF) G0' 'D*5HQ1 HD9(H/JQ) 'D'D) 'D951JQ) +EQ E' D(+ #F 'F/E, E' JBJ EFG' AJ 'DF'8'E 'D',*E'9J H*#3Q3* 9DI BH'9/ ,/J) C'DE'1C3JQ) #H 'DAH6HJQ)-'DFB'(JQ) H0DC 9DI #33 9E'DHJQ) H'B*5'/HJQ). E98E 'D-1C*' 'D'4*1'CJQ) 'DE9'51) "EF* (%EC'FJQ) *-1Q1 'D(41 EF .D'D 'D9ED H'D'B*5'/ H'D*CFHDH,J' H*7HJ1 BHI 'D%F*', H(DH: 'DHA1). ('D*9DJE F-BQB 'D*1(J) H('D9ED F-1Q1 'D%F3'F H(E1'CE) 'D%F*', F-BQB 'DHA1) H('D*CFHDH,J' 'DE*B/QE) F-BQB 'D9/D) 'D',*E'9JQ). CDQ 'D-1C*' 'D'4*1'CJQ) 'DE9'51) "EF* (E-H1JQ) 'D'B*5'/ H#3Q3* F8EG' 'DAC1JQ) 9DI G0' 'D#3'3. 'D*FEJ) GJ 'DED'0 #H 'D.D'5 'DH-J/ DD(41J) HH3JD*G' D*-BJB '2/G'1G' H('D*FEJ) F6EF EH'7F 'D4:D. 'D%F3'F J-// (-,J*G 'D*J J-BBG' ('D%F*', H'D9ED AJ E,*E9 JE*2 /&E' ('DF/1) D#F 'D7(J9) D' *HA1 G0G 'D-',J* (3GHD) H('D*D'J H,(%.'6'9G' AF5(- CE' JBHD /JC'1* : " #3J/ 'D7(J9) H#5-'(G". EF GF' FAGE E1C2J) 'D'B*5'/ H'D%F*', AJ F81J) 'D*FEJ) H'D*B/E. D' (/ EF *-BJB E,*E9 'D1.! B(D *-BJB E,*E9 'D9/D H'D-1J) (49'1 'DE,*E9 'D'4*1'CJ GH EF CD -3(7'B*G HDCD -3(,G/G #E' 49'1 'DE,*E9 'D4JH9J AGH EF CD -3(7'B*G HDCD -3(-,J*G). %0F D' JECF *-BJB 'D-1J) 'DE7DB) %D' E9 'DHA1) H'D39J F-H E,*E9 'DHA1) HJA*16 0DC H69 9D'B) 'D%F3'F ('D#4J!' 'DE*-) AJ 'DE1*) 'D#HDI (9/ 'D9D'B*' 'D',*E'9J) H'D+B/AJ) H:J1G' (AG0G 'D#J1) *.69 DD#HDI) H5HD' %DI '9*(1 'D%F3'F 4J&' EF 'D#4J!'. EF GF' *(12 DF' 'DF29) 'D*#DJGJ) DD*CFH9DHE 'D*J *5(- E-'J/) HE3*BD) HE95HE) EF CD 1,3. #HD EF '(*/9 49'1* EF FH9 : 'DE,*E9 'D3(1F*JCJ H951 'D(JHDH,J' GE 'D3HAJ* HB/ *7H1* G0G 'D*9(J1* H#.0* #4C'D' 9/J) : E,*E9 'DE9DHE*' E,*E9 'D4(C* 'DB1J) 'D9'DEJ) HE,*E9 'DFED.

9(1 'DDJ(1'DJ) #F *1'CE 'D%F*', 3J-/ EF 'DA1HB 'D',*E'9J) HJB1('DA&* D(96G'. A('D*CFHDH,J' 3F-BB 'D/JEB1'7J) 'DB5HI H'DE+DI HFHAQ1 'D4:D HF-BB 'D1.! H**B'3E 'DE'1C3J) 'DDJFJFJ) G0' 'DHGE. 'DEGE #F F+B AJ 'D*CFH-9DHE H'D*B/E HD' F97D E3J1*G' H3J#*J 'D1.! H'D9/D EF *DB! FA3JGE'. D' *9'16H' 'DC'&F*' 'DE-H1) ,JF'J'OGM D' *B'HEH' 'D'3*F3'. *1CHF' F*D'9(('D,JF*' ,JF*' 'DF'(** H'D-JH'F H'D%F3'F *1CHF' F219 GF' HGF'C 'DEA'9D*' 'DFHHJ) *.DH' 9F E4'91CE HEG,CE HE9'1ACE 'D9EDJ) *1CHF' F7H1 G0' 'D9'DE HFO.69 'D7(J9) HF-F F9/CE (E3*B(D 2'G1. 'B*1F* F81J) 'D*FEJ) ('DH9H/ : E,*E9 E' (9/ 'D-/+) E' (9/ 'D5'F'9) E' (9/ 'D*1J.. ADF*1B(. #E' /H1 'D/HD) AJ *-BJB 'DFEH A'DDJ(1'DJ) *9*(1G #3'3J) ('DF81J) 'DCJF2J)) DD-A'8 9DI BH'FJF 'D3HB H-1J) 'DE(/1) H6(7 BH'9/ 'DF4'7 'D'B*5'/J. ADD/HD) /H1 H8JAJ HB*J . ('DF3() DDF81J) 'DE'1C3J)(H.5H5' 'DDJFJFJ)) 'D/HD) GJ #/) E1-DJ) EGE*G' 6E'F "/JC*H1J) 'D(1HDJ*'J" (-J+ JEF9 'D9E'D EF -B 'D%61'() H*H,JG 'D'B*5'/ (E' J3E- ('D*B/E Â« H*7HJ1 BHI 'D%F*', Â» (D DB/ *(FI 'D%*-/' 'D3HAJJ*J 'D*F8JE 'D*JDH1J 'DE9'E/ AJ 'D(D/'F 'D1#3E'DJ) HC'F 'DE+D 'D#9DI DD'B*5'/ 'DF',- H'D0J 9(Q1 9FG DJFJF GH 'DE+D 'D#DE'FJ. DD/HD) /H1 H8JAJ. 'D:'J) GJ 'DH5HD %DI E,*E9 'DHA1) H'D39'/) 'DE+DI HCD .7H) *B1(F' EF 'DG/A AJ*6'!D /H1 'D/HD). CD' 'DEAGHEJF J71- %4C'DJ*' HEA'1B*'. A%0' C'F* 'D*FEJ) #F F5D %DI E3*HI E9JF D*7H1 BHI 'D%F*', (E,*E9 'D1A'G) #H 'DE,*E9 'D4JH9J) AE'0' (9/ 'D*FEJ) E'0' 3FA9D H%0' C'F EAGHE 'D*FEJ) H'D*B/E D' J91A 'D-/H/ A9F/G' F*3'!D E' GH 'DG/A EF 'D*FEJ) H'D*B/E %DI E*I F8D F1,& 'DG/A %DI : /D' #.'D A,1G (B1J(GD JH,/ '-*E'D HDH 6&JD #F JBH/F' Â« 'D*B/E Â» %DI 9C3 'D1:(* 'DE1,H) AF1*/ %DI 'DH1'!

J8D 3\$D J\$1BF' HJ(9+ AJF' 'D-J1) : DE'0' 'D-/J+ 9F 'D*B/E H'D*FEJ) H'D-'D #F 'D(41J) DE *A9D EF0 F4#* 3HI #FG' Â« *B/E* Â» HÂ« FE* Â» HDCFG' DE *9DF 0DC AJ (1F'E, HDE *1(7G (EAGHE. J8G1 #F AD3A) H69'FJ) *BA H1'! CD 0DC HGJ *.1B CD #J/JHDH,J*' 'D951 (-J+ #F .'D'A*G' DE *EF9 EF *H-/G' -HD 61H1) 'D*FEJ) H'D*B/E. #E'

'D*FEJ) 'DE3*/JE) AGJ 5H1) (D':J) **E+D AJ /E, CDE*JF E*F'B6*JF C#F *BHD : "'DH6H- 'DE8DE 'D0J JF2D EF 'DF,HE" HGH *9(J1 D@ Victor Hugo HG0' 'D#3DH(AJ 'D*9(J1 '(*9G 'D491!! DD*9(J1 9F 4J! D' JECF H5AG #H *5H1G #H *5FJAG HGH *9(J1 #5(- 4'&9' AJ #H3'7 'D*CFHB1'7 DCJ J,9DHFF' F\$EF ('DE3*-JD C#F FBHD : Â« -1(' F8JA) Â» #H '9HDE) 0* 7'(9 %F3'FJÂ« #H Â» 'B*5'/ 3DJE HE*6'EF". AJ 'D-BJB) %F H'69J 'D*FEJ) 'DE3*/JE) J1J/HF %J,'/ 5J:) *7JD EF 9E1 'D*FEJ) H*9J/ %F*,G' (5A) D' FG*&J).

DCF 'DJHE H(9/ #F #5(- G0' Â« 'D*B/QE Â» 'D*CFHDH,J J-HJ AJ 7JQ*G (01) 'DEH* HJG/Q/ (C'1+) (J&JQ) J*1!! DF 'D.7# 'D0QJ 3B7* AJG G0G 'D*5H1*' 'DEH1H+). A'DE,*E9 'DE9'51 J-JI HC#FQG F8'E (JHDH,J EF*8E "DJQ' H(5A) 0*JQ) HE*H3Q9' EF .D'D '3*GD'C 'D7'B) H'DE9DHE) H'DEH/' 'DE*HAQ1) HEF .D'D *-CQE 9BD'FJ AJ 'D3J1H1*' 'D',*E'9JQ) H'D7(J9JQ). G0' 'D*5HQ1 9D'H) %DI 'DCH'1+ 'D',*E'9JQ) H'D(J&JQ) H'D+B'AJQ) 'D*QJ #A12G' J9FJ AJ 'D-BJB) FAJ 'DE,*E9 D0*G HDD%F3'FJQ) (5A*G' **EJQ2 9F CDQ 'DC'&F* 'D-JQ) (B/1*G' 9DI 'D.DB H'D*5HQ1 H'D(F! H'DB1'1 HC0DC 'D*-/J/ 'D0Q*JQ. 'D9ED EF H,G) 'DF81 'DEGJEF) J9/D (JF (C*J1' HE,*E9 (HDB/ *#+Q1* 'DE'1C3JQ) 9DI 3(JD 'DE+D ('D/'1HJFJQ)).

.D'D 'D9BH/ 'D#.J1) *6'9A 'D%F*', 'D9'DEJ H2J/) H*1',9* 3'9*' 'D9ED (F3()) *B'1('D+D+ (E9/QD 9'DEJ ('3*+F!' 'D5JF 'D49(JQ)). %0F *1',9* #J6' 'DE/Q) 'D2EFJQ) 'DE.5Q5) DD9ED .5H5' E9 (1H2 'D*BFJ*' 'DE9'51). F-F F9J4 EA'1B) : A'DE,*E9 J*7HQ1 9DI B'9/) 'D(+ 'DE*H'5D 9F *#EJF HB* DD9ED #J 'D4:D (JFE' *- /Q 'D%F*',JQ) 'D9'DJ) EFG. GF'C *A'B ,E'9J -HD 61H1) 3/Q HB* A1': AJ 'D9ED EF #,D *HAJ1 'D4:D HDCF 'D*7HQ1 'D*CFHDH,J H'D*H,QQ 'D9'E J\$HD %DI 'D-/Q EF EH'7F 'D4:D. F3E9 .7/(' E9GH/ J-BQ1 EF 'D9'7DJF HJ*QGEGE ('DC3D H1A6 'D4:D H9/E 'DB(HD ('D#,1 'DEB*1- "'D4:D E*HAQ1 HDCF 'D4('(' J92A 9FG". J*0EQ1 (96 'DED'CJF 'D9B'1JQJF H#1('(' 'D9ED .5H5' AJ E,'D 'D(F! EF BDQ) *HAQ1 'DJ/ 'D9'ED) H'D-'D #FQ 'D(D/' *9,Q ('D9'7DJF. AJ 'D-BJB) J9FJ 0DC #FQ 'D4('(' J1A6HF 'D'F/E', EF .D'D 'D4:D H#JQ 4:D !!! %FQG' #2E) 'D4:D 0*'G' CEAGHE : "(D9DE H'D9ED A1-) 'D-J')!! #JQ 9DE H#JQ 9ED H#JQ) A1-) H#JQ) -J) JE6J 'D%F3'F 'DHB* AJ 'D%F*', H'D9ED H'D'3*GD'C H'DE'4'G/) H'D*B(QD H1(QE' 'D(+ 9F 4:D. #EQ' 'D,2! 'DE.5Q5 DD.DB H'D('C'1 H'D5'/B) H'D-(Q H'DH-/) H'D*ACJ1 (1HJQ) AJ 'D'A'B 'DE3*B(DJQ) AD' EC'F DG. B/ J1/Q 9DJF' 'D(96 : "G0' CD'E E+BQAJF E92HDJF HG0G #AC'1 7H(HJQ) :J1 B'(D) DD*-BJB... #F*E *4CQCHF AJ #33 'DF8'E H'DE,*E9... #*-+QHF 9DI 'DC3D #DJ3 'D#,/1 'DB(HD (#JQ 4:D (/D 'D*B'93 ..." DCF 'D4:D DJ3 AJ 'D-BJB) FBJ6' DDC3D HDCFG 417 DG. EF 'D0J (EB/H1G 'D*E*Q9 ('DC3D ('3*+F!' EF (J/GE 3D7) 'DB'1'1 +E #DE J5(- 'D4:D 4CD' #H 5H1) F47) HÂ« 9'ED) Â» HEBFQ9) DD(7'D) (E' #FG B/ AB/ BJE*G HE9F'G H*-HQD %DI 9B/ J7HD E/G #H JB51 HJ-*C1 'D-J') HJD.5G' %DI /1,) 'DEDD

*,1QF' B6JQ) 'D(7'D) H#2E) 'D*9DJE H'D*1(J) %DI 'D(+ AJ E' GH #9EB H#H39 HG0' E' J1A6G 'D:D(JQ). A#E'E 'DE#2B 'D*QJ *E1Q (G 'DE,*E9* H'DG2Q* 'D',*E'9JQ) H'D'B*5'/JQ) H'DE'DJQ) H'D(J&JQ) H'D+B'AJQ) H'D*9DJEJQ) #E'E *01Q1 'DE,*E9 H'FB3'EG 7(B* HA&* H,G* H9'EDJF HE97QDJF 9DJF' #F F,/Q/ F81*F' DD9ED H'D4Q:D H'D*CFHDH,J' H'D'B*5'/ H'D9E1'F H'D(J&) HDD9D'B*' 'D(41JQ) HD9D'B) 'D(41 ('DE-J7. D' E,'D DD-DHD 'D,2&JQ) H'D81AJQ) H'DE-/H/). DF *B/1 '3*+E'1*' 'D(*1H/HD'1 #H 'D4Q1C*' 'D9'DEJQ) 9DI '3*B7'(E&* 'D'D'A EF 'D9'7DJF HDF *,/J 'DH9H/ H'D'E'D. D' EF/H-) %0F EF 'D*.DQ5 EF E-H1JQ) 'D'B*5'/ HG0' J9FJ *.AJ6 3'9*' 'D9ED H*B'3EG' D5'D- F4'7* #.11 +B'AJQ) (J&JQ) HE.5Q5) DD('C'1 HDF3J, 'D9D'B*' 'D(41JQ). D' EF/H-) EF *5HQ1 E9FI ,/J/ D-J*F' JB79 E9 'D'3*GD'C H'DHA1) H'DE1'CE) H'D*B(QD. A.D'D B1F HF5A 2/ 'D%F*', 'D9'DEJ ('DF3() DDA1/ 'DH-'/ (F3() 1300 ('DE'&) #J 13 E1Q) HDE **1',9 3'9*' 'D9ED 3HI (F3() 45 ('DE'&) HAJ FA3 'DA*1) *6'9A* 'D%F*',JQ) 2500 E1Q) HDCFQ 'D(7'D) 8DQ* E3*A-D). 'D.J1*' **1'CE H'D(D/'F *9'FJ EF *1'CE 'DA6D*' H'DFA'J*' (*DBJ *HF3 3FHJQ' #C+1 EF 50 #DA 7F EF 'DFA'J*' 'D%DC*1HFJQ) H'DCG1('&JQ)) HDCF #9// 'DEGEQ4JF AJ '2/J/'. J1'AB CD 0DC %G/1 DD*1() HE5/1 'DEJ'G H*G,J1 DD1JA HB6! 9DI 'D*H'2F*' 'D7(J9J) (*.31 *HF3 3FHJ' 10 "D'A GC*1 EF 'D*1() 'D.5() (A9D 'D'F,1'A H'D*5-1 H .E3 'D#1'6J 'D21'9J) EG//) (AB/'F .5H(*G' AJ 'DE3*B(D 'DB1J((A9D '3*9E'D 'DE(J/'* H'D#3E/) H'1*A'9 EDH-) 'D#16). +E E' 'DE9FI EF 'B*5'/ 9'DEJ #5(- *3E*G 'D#HDI 'DE6'1(' *DE'DJ) AAJ G0' 'DE,*E9 'D0QJ #5(- 4(JG' ('DC'2JFH J(D: 'D'B*5'/ 'D'A*1'6J EF .D'D 'D*D'9(AJ 'D(H15) 4 E1Q* 'D'B*5'/ 'D-BJB. D' (/Q EF %JD!' 'DE5D-) 'D9'EQ) H'D*6'EF 'DBJE) 'D#HDI HG0' 'D'.*J'1 D' J3*F/ AB7 9DI E9'JF) DD#H6'9 'D/HDJQ) HDJ3 *5HQ1' JF(9 EF EHBA #.D'BJ A1/J DCFQF' F9*(1G ('D#3'3 EHBA' F6'DJQ' H1,9' D5/l 'D+H1*' 'D91(JQ) H'D9'DEJQ) 'DEF'/J) ('D/QJEB1'7JQ) 'D-BJBQ) Real Democracy 'D*QJ D' **D.Q5 AJ H69 H1B) 'F*.'(CDQ .E3 3FJF CE' C'F J51Q- 'DEACQ1 1H3H.

D' (/Q EF (1H2 EH'7F) ,/J) D' **HBQA 9DI 'D-BHB 'D#3'3JQ) DF.() EF 'DE,*E9 HDCFQG' 'DEH'7F) 'DE3\$HD) 'D*QJ *B(D (*B'3E 'D.J1* H3'9* 'D9ED. DG0' F9*(1 #FQG D' (/Q EF 6E'F /D E*B'1(DCDQ 'DEH'7FJF. AE' 'DA'&)) EF 6E'F 4:D D@20 #DA 9'7D H*1C 500 #DA ".1JF 9'7DJF 9F 'D9ED. (7(J9) 'D-'D DF J*#*QJ 0DC 3HI (E1',9) EFH'D 'D*FEJ) (*1(J) H*9DJE' H+B'A) H'B*5'/ HAD'-) H(J&)... H*41JC CDQ 'DA'9DJF H'DEH'7FJF /HF #F J9FJ 0DC 7(9' A16 3D7) /C**H1JQ) #H (J1B1'7JQ) 4EHDJQ) EGE' 'Q9* 'D+H1JQ) H*E+JDG' DD49(. #EQ' *B/JE 'D%9'F* H*.5J5 5F/HB DD9'7DJF H1:E #FQG JHAQ1 B/1' EF 'D/Q.D DD9'7DJF AGH D' J.DH EF %G'F). A'D9'7DHF J7'D(HF (-BQGE C'ED' CEH'7FJF EF FA3 'D/Q1,) HJ1A6HF 'DEFQ) H'D5/B) HJ1J/HF 'DE3'GE) AJ F-* ED'E- 'DE,*E9. DF *B/1 'D'3*+E'1*' 9DI 'DB6'! 9DI 'D(7'D) (+EQ %FQ EH'7F 'D4:D 'DE3*-' /+ 9') E' *CHF G4Q) HE91Q6) DD'G*2'2) 9DE' (#FQ 'D'3*+E'1*' 3*-' +Q 9DI E2J/ EF 'D'3*GD'C H*-' /+ -,J* ,/J) E9 E' JF*, 9F 0DC EF 'F9C'3* (J&JQ). A'D-J) 'D,E'9JQ) DJ3* E,1Q/ "D) 6.E) (96 B79G' :J1 61H1JQ) D*4:JDG' (D #+1 *1J.JQ J3'GE AJ F-*G CDQ 'DFQ'3 EF0 'DHD'/) %DI 'DEH*. %FQ 'D0QJF J-DEHF (#FQ 'D'3*+E'1*' 'DB/E) EF 'D(D'/F 'D:1(JQ) (#H EF (D'/F 'D(*1H/HD'1) 3*B6J 9DI 'D(7'D) H*(9+ 'DE4'1J9 H*-HQD 'D(D'/ %DI GF: CF: +'FJ) J*,'GDHF -BJB) #FQ G0G 'D(D'/F 0*'G' *9'FJ EF #2E) 'D(7'D). AAJ 'DHD'J* 'DE*-' /Q) 'D#E1JCJQ) *9'FJ CDQ B7'9* 'D%F*', H'D*9DJE EF 9/E '3*B'1'1 'D4:D HB/ 7'D 0DC -*QI 'D#3*0) 'D,'E9JQJF. 9DI 3(JD 'DE+'D (12* AJ 'D9BH/ 'D#.J1) .7Q) 'D#3*0 'D,'E9J 'DE9HQ6. #EQ' 'D#3*0) 'D,'E9JQJF 'DE13QEJF AF3(*GE AJ *1',9 E3*E1Q. J/A9 'D9ED 'DE\$BQ* H'D,2&J (B3E G'EQ EF 'D49(%DI 'DBJ'E (#4:'D E*9/Q) D6E'F 'DBH* 'DJHEJQ. J9*(1 'D(96 #FQ 'D(7'D) D' *FA5D 9F EF7B 'D1Q#3E'DJQ) 'DA'-4) H'D9HDE) 'DE*H-Q4) D#FQG' *4CQD #/) D6(7 'D*-1QC* 'D,'E'9JQ). DCFQ G0' 'D*A3J1 J8DQ H-J/ 'D,'F(HB/ J3B7F' AJ 'D'B*5'/HJQ) 'D(-) HAJ '3*F*', *'DJ3'1 'D*BDJ/J. A'DE3#D) **9DQB ('D9ED CBJE) HCE9FI H('D*9DJE CE9FI H(*B/J1 /H1 'D'B*5'/ AJ 'D-J) 'D9'EQ). AG0G 'DE,*E9* 'DE9'51) B/ ,9D* EF 'D'B*5'/ E-H1 'D-J) HEF 'D'3*GD'C #3'3G H#/QI 0DC %DI *.1J(DDE-J7 H*ACJC DDE,*E9. AJ 'D-BJB) H('D1,H9 %DI E.*DA 'DEH'BA J*(JQF #F 'DJ3'1 9') E' JBA 9DI J3'1 EH'BA 'DJEJF DJ*EJQ2 9FG HDCFQG J8D (0DC E1*(7' (G HB/ #+(*' 'D#-' /+ 'D*1J.J) #FG D' JECF *,H2 'DJEJF ('DHBHA 9DI J3'1G.

AJ #H1H(' J(D: E*H3Q7 F3() 'D(7'D) 10,2 ('DE'&) HJB1Q 'D.(1! #FQ CDQ 4G1 J#*J (1BE BJ'3J ,/J). ('DF3() DD/JH'F 'D#H1H(J DD%-5! ADB/ 3,QD 4G1 /J3E(1 2011 E3*HI *1J.JQ' DE *9G/G #H1H(' .%3('FJ' GJ 'D(D'/ 'D0QJ 3,QD* AJG #9DI F3() %0 (D:* 22,8 ('DE'&) H*(D: 18,3 ('DE'&) AJ 'DJHF'F. -*QI 'D(D'/F 'D*QJ 3,QD* AJG' F3(EF.A6) E+D GHDF/ 'H'DFE3' A%FQ 'D*HBQ9*' *4J1 %DI 'D*-'BG' 'D*/1J,J ('DE3*HI 'D9'E. %0' .5Q5F' G0G 'D%-5'&JQ* 9DI 'D4('(' 'D0QJF J(D:HF #BDQ EF 25 3F) A%FQ F3() 'D(7'D) *1*A9 D*(D: 20,5 ('DE'&) H4('(' %3('FJ' GE 'D#C+1 *91Q6' DD(7'D) %0 #FQ 43,2 ('DE'&) EFGE 9'7DHF (JFE' *(D: 'DF3() 26,2 ('DE'&) AJ %J7'DJ' H25 ('DE'&) AJ A1F3'. **-/Q+ 'DEF8E) 'D9'DEJQ) DD4:D 9F "4(- 'D,JD 'D6'&9". EF F'-J) #.11 A%FQ 2J/) F3() 'D(7'D) HB/HE #AH', ,/J) EF 'D9'7DJF JG/Q/ ('D*.DQJ 9F ,2! EF EF- 'D(7'D). (.D'5) E' JB'1(18 EDJHF #H1H(J E97DHF 9F 'D9ED. -D) 'D(1*:'D EDA*) DD'F*(G AAJ G0' 'D(D'/ 'D0QJ J&FQ EF #2E) 'B*5'/JQ) .FB) /9' 'DH2J1 'D#HQD #.J1' EH'7FJG %DI 'D(+ 9F 'D4:D .1, 'D-/H/ (BHDG : Â« G',1H' Â»!! DCF 'DEH'7FJF #,(HG : "-*QI H%F B(D'F) (G0' 'D-DQ AGD GF'C EC'F FG',1 DG"

#EQ' AJ 'D5QJF 'D49(JQ) 'DBHQ) 'D'B*5'/JQ) 'D+'FJ) AJ 'D9'DE A*(D: F3() 'D(7'D) AJG' 22 ('DE'&) EEQ' ,9D E3\$HD' EF H2'1) 'D4\$HF 'D(41JQ) JDBJ 5J-) A29. AGF'C 100 EDJHF 9'ED AD'-J /HF 4:D. EF 'DE9DHE #FQ 'D5JF 'D*QJ 'F7DB* AJ E:'E1) 1#3E'DJQ) E*H-Q4) B/ 9E/* %DI *5FJ9 'DAD'-) H*G,J1 'D#1J'A (-+ 9F 'DJ/ 'D9'ED) 'D*QJ **7DQ(G' 'DE5'F9 H'9*E/* 3J'3) 'D3Q/H/ 'DC(J1) H*GEJ4 'DEF'7B 'DAD'-JQ). A'D*-' /QJ 'D1Q&J3J 'D0QJ 3*H',GG 'D5JF (J&JQ ('D#3'3 : *DHQ+ %G/'1 DDE!' H'D*1() 'DB6'J' 9DI 'D*H'2F* 'D(J&JQ)...

#EQ' ('DF3() DD(D'/F 'D91(JQ) ADB/ -0Q1 'DE9G/ 'D91(J DD*.7J7 EF 'D'1*A'9 'DE*3'19 D#9// 'D9'7DJF 9F 'D9ED (-J+ B/Q1 #FQG 3J(D: 19 EDJHF' 3F) 2020. AJ *HF3 H-3(/1'3) DH2'1) 'D*4:JD H'D(FC 'D/QHDJ D3F) 2008 (D:* F3() 'D(7'D) 14 ('DE'&) #EQ' (7'D) 'D4Q(' (JF 18 H29 3F) AGJ *AHB (7'D) 'DCGHD +D+ E1Q*'. AJ /1'3) '3*41'AJQ) (#F81 ,1J/) DHEF/ (*1J. 7 ,FAJ 2011) *(JQF #FQ 17 ('DE'&) EF 'DE*.1Q,JF EF 'D,'E9) EC+H' 9'7DJF 9F 'D9ED DE/Q) *2J/ 9F +D+ 3FJF HF5A. AJ 3F) 2011 (D:* F3() 'D(7'D) 16,3 ('DE'&) #J #C+1 EF 650 #DA 9'7D H3*(D: G0G 'DF3() 19 ('DE'&) (-DHD 3F) 2012. EF (JF 'D9'7DJF GF'C 160 #DA E*-5QDHF 9DI 4G'/'* ,E9JQ). EF0 3F) 2010 #B1Q* 'D/HD) (1F'E, #7DB* 9DJG **95J1 F8'E 'D*CHJF 'DEGFJ H'D*9DJE H*#GJDGE' H%9/) GJCD) F8'E 'D*9DJE -*QI J5(- AJ .E) #5-' ('D4G/'* H'DE\$33) H'DB7'9* 'D'B*5'/JQ)...'. *DQ* 'D/HD) 9F /H1G' AJ *HAJ1 'D4:D H('DEB' /D /9* 'D4(' %DI (9+ E4'1J9GE 'D.'5Q) EF .D'D *B/JE 'DB1H6 'D5:J1). DCF G0' 'D4(' ('DA'B/ DD*,1) 'D,'E'9JQ) H'DEGFJQ) H'D-'DE (4:D B'1 AJ E\$33) 9EHEJQ) DF J,2A ('D*'/JF. -3(/1'3) DDE9G/ 'DBHEJQ DD%-5!

AB/ '1*A9* F3() 'D(7'D) AJ #H3'7 'DE*.1Q,JF EF 'D,'E9) EF 14 ('DE'&) 3F) 2005 %DI 32 ('DE'&) 3F) 2010. ('DF3()
DD*BFJQJF 'D3Q'EJQJF 2/ 9// 'D9'7DJF EF 17900 3F) 2005 %DI 57900 3F) 2010 HG0G 'DA&) *E+QD 41,6 ('DE'&)
EF ,ED) 'D9'7DJF H'DE*-5QDJF 9DI 4G/'* 9DJ'. %0F JECF 'DBHD #FQ GF'C %AD'3 JC'/ JCHF *'EQ' DDE\$33)
'D*9DJEJQ) H9,2 9F '3*B7(' 'DB7'9*' 'D'B*5'/JQ) 'DE.*DA) DG0G 'D#AH', EF 'D4('(' 'DE*.1Q,JF EF 'D,'E9*' H'DE/'13
'D9DJ'.

F-F F*DBQI %1+' E91AJQ' 1'CE*G 'D(41JQ) (E.*DA -6'1'*G' H9DI E/I B1HF H('DEB'(D D' F/Q.1 ,G/ FB/QE E' D/JF'
EF %EC'FJQ'* HG0' J*'F'B6 E9 9BDJQ) : Â« 'FG6 #H AD*E* Â» #H Â« 'D(B'! DD#5D- Â» HE9 9BDJQ) '3*F2'A
'D.J1*' 'D7(J9JQ). D' JECF *-1J1 B/1*' 'D(41 9DI 'D.DB %D'Q E*I HA1QF' DGE /.D' E*B'1(' HDE F,9D EF B6JQ) 'D(-+
9F 'D4:D 'DB6JQ) 'D1Q&J3JQ) 'D*QJ *\$1B 'D4('(. B/ J9'16F' 'D(96 HJ1/Q 9DJF' (#FQ 0DC EF 4#FG 'D-+Q 9DI
'DC3D (-J+ J*-EQD ,2! EF 'DE,*E9 'DE3\$HDJQ) C'ED) (JFE' J*E*Q9 'D('BJ (+E'1 F4'7GE. AJ 'DH'B9 D' JECF AGE
G0' 'DEB*1- %D'Q %0' E' 5G1F'G AJ *5HQ1 ',*E'9J H3J'3J H'B*5'/J H(J&J E*C'ED F7DB 9DJG ('DE,*E9
'D/QJEB1'7J 'D-BJBJ 'D0QJ J9ED 9DI 'D*-HJD 'D(J&J DD'B*5'/). JECF #F F9J/ DD9ED BJE*G 'DAFJQ) H,'F(G
'D*-1Q1J HF*B'3E 'D#4:'D 'D+'FHJQ).

E' 9D'B) CDQ 0DC ('D*9DJE CJA D' F,9D EF 'DE/13) H'D,'E9) E-'6F D*A1J. 'D9'7DJF D' (/Q DD*9DJE #H 'D*1(J)
(5A) 9'EQ) #F *9/Q ,JD' D*-EQD E3\$HDJQ'*G H'DE3'GE) 'D-1Q) AJ (F! E,*E9 E*6'EF D' #F F-41 /E':G (E9'1A
HE9DHE'* E*,2Q&) HF13Q. AJG 1H- 'D#F'FJQ) H'DA1/'FJQ). D' (/Q #F *CHQF 'DE9'1A 'D*QJ J*DQB'G' 'D*DEJ0
H'D7'D(#33' J(FJ 9DJG' HJ(*C1 DJ3'GE AJ 'D(-+ 'D9DEJ H'D*BFJ H'D+B'AJ H'D(J&J ./E) DDE,*E9 B'7() HDJF/E,
AJ 'DE,*E9 D' AB7 CBHQ) EF*,) H9'ED) HDCF CEH'7F E3\$HD D' *B*51 EH'7F*G AJ 'D-5HD 9DI 'D4:D. (7(J9) 'D-'D
D' (/Q #F JF5G1 0DC AJ *5HQ1 4'ED D' JB*51 AB7 'D-DHD 'D81AJQ) 'DE-/H/) AJ 'D2QE'F H'DEC'F CE' #FQG
J*7DQ(*6'EF' /HDJQ' HE1',9) #33 'D9D'B*' 'D*J *1(7 (JF 'DE,*E9*' H'D(D'/F.

(.../...)

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