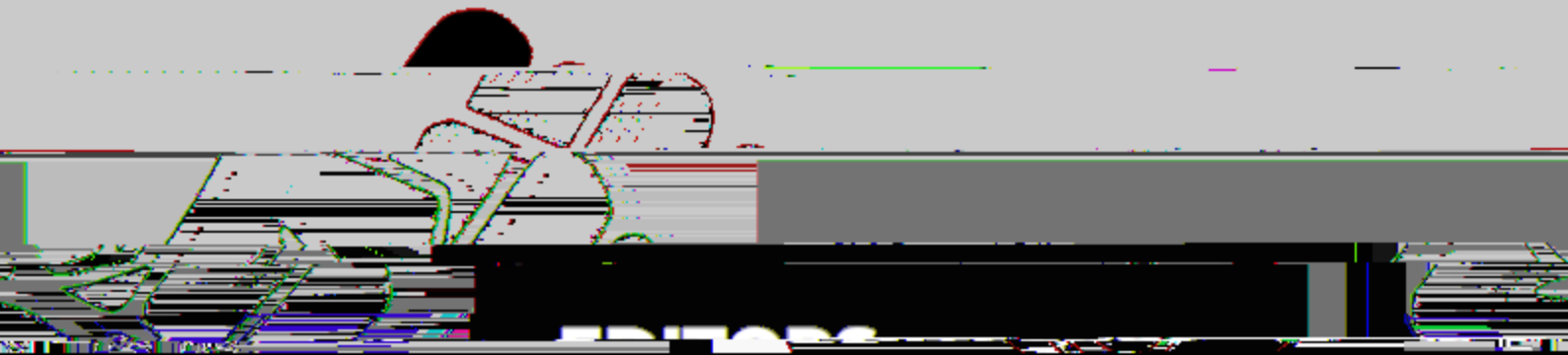
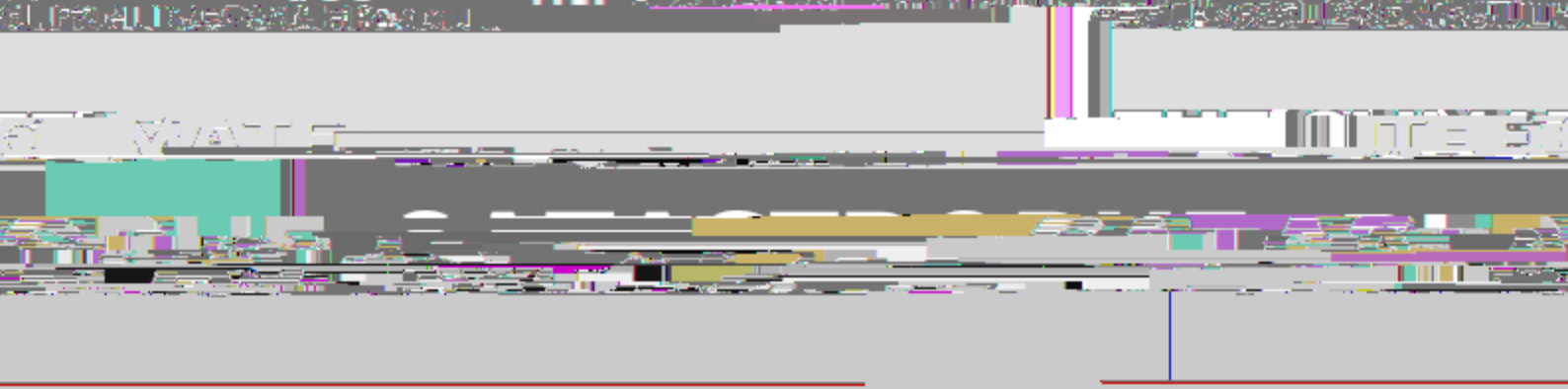


左知宗

THEOLOGIES IN ACTION



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' %+7=' >7)< 4' >+' <?>+ 7) 7?< <' =: 75=' C, >+,5
>+' 737*E 7) C+ > +' 7?5%,3)7< 7<3& ,=,75 d e 5&
7>+' <= + B' % 3' & 4: ,<' 7< k E=>' 4= 7) 74,5 >,75[4: ,<'
,= C+ >>+' 7: : <' ==' & >+' =< ' 3,>' = ,5 *E: >[4: ,<' ,= C+ >
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+ >%75B,%>,75 C ==+ <' & \$E 337?<%75><,\$?>7<=[+ ' E > 2'
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4 *5,>?&' 7) >+' %<,>= 7<' => %75>' 5> C,>+ %>,75 >+ > ,= 3' ==

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C,>+>+' <>+ 5&>+' \$=73?>' 3E ?<*' 5>5' '&)7<+' 3,5*W
1?=>,% W%74: ==,75 5&>+' <' &,%7B' <E 7) %7B' 5 5>
%744?5,>E d & 4=e[
U 5' D 4,5 >,75 7)>+' =E=>' 4,% % ?=' = 7) %3,4 >' %+ 5*' 5&>+' C7<2,5* = 7) %3,4 >' ,51?=>,% V=7%, 3,5' ; ? 3,>EW
< %, =4W%75=?4' < , =4W 5&' D: 37,> >,B' '%7574,% =E=>' 4=

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7) >+, = : <>, %?3 < % 33 >7 %>, 75)7< %+?<%+' = >+ > ?5&' <=> 5&
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: ,5,75 %73?45 7) >+ ' ' C 7<2 ,4' = 75 MK %>7\$' < LJKSW
<7)' ==7< >+ <,5' E+7' W 7h ,<' %>7<7) >+ ' 3,4 >' ' 5>' <
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) %>= 5& & > \$7?> 7&l= %<' >,75 >+ > C' % 5 = ' '
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+ = *,B' 5 ?=[5& =>,3 47<')?5& 4' 5> 33EW,> 4 >>' <=V
\$' % ?=' <' 3 : ' 7: 3' <' \$' ,5*))' %>' & >7& E_ 5& C'
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&7,5* 37> 47<' \$' =,&' e \$?> C' k' 57>g C+,%,+ ,=W7) %7?<=' W>+ '
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+ > i47<' \$' =,&' j ,5%3?&' = &' %3 <,5* 3,4 >' 4' <*' 5%EW
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+' k[0 &' * <' = >' 4: '< >?' <' <,' = + = 3<' &E \$' ' 5 \$<' %+' &[
+' 5 ,=+7: 5&<' C = E= >+ > iC' 5' ' & >7 3,) > 7?< B7,%' =jW
+' l= 7: '< >,5* ,5 >+') 4,3, <>' <<,>7<E 7) VC' 5' ' &
>7 <' %7*5,' = >' 5 >?' <' g >+' i<?>+j g 7) >+' 474' 5> >+ 5&
5& \$' *,5 d+7C' B' < \$' 3 >' &3Ee >+' : <7%' == 7) %+ 5*,5*
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' =W>+' % 33 >7 %>,75 ,= % 33)7< i>7& E jW<' %7*5 ,=,5* >+ > ,>

,>[5 '=?=| >'<4=W 7=>h '5' G> 5 3E=' = 5' ' & >7 \$' 5' G> >+'
3' => G<=> g >+' B,%>,4= 7) 4: ,<' l= =7%,7h: 73,>,% 3 5& =7%,7h
'%7574,% : 73,%Eh4 2,5*
5& +'<' ,5 3,' = >+' :<7\$3' 4[(')7<4 5' %' == <,3E > 2' = >,4'
\$' % ?=' ,> , = :<' &,% >' & 75 G5' h>?5,5* >+' ' D,=>,5* =E=>' 4 g
4 2,5* ,> 7: '< >' 47<' ')G%, ' 5>3E 5& '))' %>,B' 3E[> :<' = ' <B' =
>+' ' D,=>,5* B 3?' =W C+,3' :<7B,&,5* 5 ,4: <7B' & 4' 5= 7)

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C ' ' 2W =?\$1' %> >7 ,5=> 5> % 5%' 33 >,75W > 3' == >+ 5 >+'
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<J10.0644 (=) 74,)32%,+K , 5,>2 >,75W,==?& 2 > 5, 41.97957(J' >)4:

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7%?<=&\ 7C 4 5E 47<' %+&3<' 5 C,3 \$')7<% ' & ,5>7
: 7B' <E\ 7C 4 5E 47<' '3&' <3E 7<& ,= \$3' & : '7: 3' C,3
&,' = %75=' ; ?' 5%' 7) C' 3) <' %?>=&\ X + '= ' ,5+?4 5
,51?=>,%' = <' + : : '5,5* < ,*+> 57C[+ ' %+7,%' C' + B'
, = >7 ' ,>+< >73' < >' >+ ' 4 C+,3' 3772,5*)7<C <& >7
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)?5& 4' 5> 3 5&>+ ' <')7<' < &,% 3: 73,>, % 3<')7<4j^P

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)' C <,%+ 5& : 7C' <?)?3 >>+' 'D: ' 5=' 7) ,>= B,%>,4=[
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%+?<%+' =W7?<+' <,> *' + => 2' 5 C E>+' B' <E>+' 737*,% 3 5&
=7%,737*,% 3>773= >+ > 7?*> >7 + B' ' ; ?,: : ' & ?= >7 <' =: 75&
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C+' 5 %75)<75>' & \$E>+' %+ 3' 5* ' = 7) >7& EW,5 : < %>,%' WC' <
' + 3& 5& 3 <*' 3E &' >' <4,5' & \$E 7?< ,5 \$,3>E>7 \$<' 2)<74 7?<
+ ,=>7<E 7) ,4 4' < ,75 ,5 4 : ,<' W 5& >+' >+' 737*,% 3%75B,%>,75
>+ > >+ , = d e \$3' == ' & \$E 7& 5& d\$e * ,B' = ?= C' 3%74'
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> > =><7: + ' >+ > , = 3<' &E + ' <' [i > =><7: + ' jW3,2' i' D>,5%>,75jW
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7< >+' 4 17<,>E 7) >+ , = : : ' <W + 7C' B' <W 14 *7,5* >7 ?='
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>+ ' <73' B,73' 5%' : 3 E= C,>+,5 >+ ' %3,4 >' %<,<=>+ > C' % 5
' B 3? >' >+ ' >E: ' = 7) <' =,<=> 5%' >+ > 4, *+> '\$' 5' %' == <EW
= C' 3 = : : <7: <, >' [
U + ' =,%3' <h' E' & \$7?>>+ ' 5' ' &>7 > 2' =,&' = ,5 >+ '
' %75H,%>[+ ' <' ,= 57 i +<,<=>, 53E 5' ?>< 3j : 7=<,>,75[2,5*
=,&' = ,=: <,>,%?3 <3E &,)G%?3>)7< 3,\$' < 3%+?<%+ ' =?%+ = >+ '
[C 5>>7 ' D: 37<' C+ > ' =4.75& ?>?|= 57>,75 7)
i%<,>,% 3=73,& <,>Ej 4, *+> 4' 5)7< +7C C' 4, *+> '\$' *,5 >7
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' + ' 4' <* ' &)<7.4 >+ ' 7?>+)<,% 5 >7C5=+, : = C+,%+W
?5&' < >+ ' > >' 7) 4' <* ' 5%EW C' <' >+ ' \$ >>3' *<7?5&= 75
C+,%+ >+ ' %75H,%> \$' >C' ' 5 >+ ' : <+ ' ,& > >' 5& 3 %2
<' =,<=> 5%' C' <' : 3 E' & '\$' ,5* 7?>[+ > ,> C = 3,>' < 33E 3,) h 5&h
&' >+ =><?* *3' C = >' <<,)E,5*3E B,=\$3' 75 >+ ' =><' ' => g 5& 1?=>
=>' <<,)E,5*3E ,5B,=\$3' >7 >+ ' +,>' : 7: ?3 >,75W+?&&3' & ,5 >+ '
' +<4' >,% 33E = ' 3' & \$\$\$3' = 7) >+ ' ,< 33h +,>' =?<?<\$= 5& %?>
7))<7.4 5E ,5%75B' 5, ' 5>5' C=<' : 7<,>,5* [
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KL + ' &,B,=,75 4.75* >+ ' %+?<%+ ' =
7B' < +7C >7 <' =: 75& >7 3,) h 5&h&' >+ %75H,%> '\$' %7.4' = >+ '
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g >+ ' i 7.4' 5>7) <?>+jWC+,%+ ,= >+ ' G<=> %+ : >' <,>,3' 7) >+ '
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i 7' = >+ , = : <7B' >+ > +<,<=>, 5) ,>+ + = 57 <' 3.4' 5,5*
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C7?3& \$' %<,>,% 3 ' 57?*+)7< >+ ' +?<%+ ,5 5E
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7: :<' ==' & %3 ,4 37E 3>E >7 >+' = 4' +?<%+[+' E <'
\$7>+ \$:>=' & ,5 >+' = 4' \$:>=4 5& : <>,%,: >'
>7*' >+' < ,5 >+' \$<' 2,5* 7) >+' = 4' \$<' &W>+' = 4'
\$7&E 5& \$377& 7) +<=>[+' <' C' =,> ,5 >+' = 4'
+?<%+ C+,3' 7?>=&' +<=>, 5 : 73,%' 4' 5 5& =73&,' <=
<' \$' >,5* ? : 5& 2,3,5* +<=>, 5 %+ ,3&<' 5 7<>7<>?<,5*
+<=>, 5 : <=75' <= >7 &' >+WC+,3' E' > 7>+' < +<=>, 5=
=> 5& \$E 5& C' 23E : 3' &)7< : ' %' [+' +?<%+ ,=
&,B,&' & 5& ,>= & E 7) 1?&* 4' 5> + = %74' j^{KM}

+ ' ,<7= +' 737* , 5= ,&' 5>,)E >+' ' >+' 737* ,% 3<' =: 75=' =>7
>+' %75H,%>V > >' +' 737*EW +?<%+ +' 737*E d%+ :>' < Le 5&
<7: +' >, % +' 737*E d%+ :>' < Me[E : ?<: 7=' ,5 3772,5* >>+' 4
+' <' ,= >7 ='' +7C >+' E 4,*+> + B' 47<' 7< 3' == &,<' %>
: : 3,% >,75 >7 7?< 7C5 <' =: 75=' =>7 >+' %3,4 >' ' 4' <*' 5%E[

>+' 737*,% 3E ?5=?=> ,5 \$3' :<' 4,3' 55, 3,=4 =7 :<' B 3' 5> ,5
>+')?5& 4' 5> 3,=4 7) >+' , \$3' ' 3W 4' 47< \$3E
=?44 <,' & \$E 75' 7) ' 7<*' ?=+|= ' 5' <*E=: 72' =: ' <=75=W
C+7 = ,&Wi ' &7 57> + B' >7 C7<<E \$7?> *37\$ 3 C <4,5*

> ,= 57> 753E 75' 7) >+ ' 47=> B,> 3=>< 5&=W\$?> 3=7 75' 7) >+ ' 47=> B,=\$3' \$' % ?=' 7) >+ ' %>,75= 7) W ?=> >7: ,3 5& 7>+ ' < %3,4 >' %>,B,=>=[

5' ' 3' 4' 5' 7) > >' + ' 737*E >+ > >+ ' ,&' 5>,G' = ,= >+ ' ?=' 4 &' \$E >+ ' => >' 7) >+ ' %75%': > 7) C 5& <&' < > 7 4 ,5> ,5>+ ' => >? = ; ? 7 5& &' : ,%>, > = i57<4 3j[

i ?> >+ ,= 3 C ,= >+ ' ?51?=> 5& &,%<,4,5 >7<E 3 C= 7) : <>+ '& 5& >+ ,= 7<&' < ,= >+ ' 7<* 5,=' & 5& ,5=>, >?>,75 3,=' & & ,=7<&' < 7) 7: : <' ==,75[5E75' C+7 C,=+ ' = >7 %+ 5*' >+ ,= 3 C 5& >+ ,= 7<&' < ,= 4 &' > 7) ' 3>+ >>+ ' E <' 3 C3' == 5& & ,=7<&' <3E[5 7>+ ' < C7<&=W >+ ' E <' 4 &' > 7) ' 3 *? ,3E 7) =,5 X 5 >+ ' : <' = ' 5> %< ,= 5& ' = : '%, 33E & ?<,5* >+ ' > >' 7) 4' <* ' 5%EW k > >' + ' 737*E i + = >< ,& >7 <' h' => \$3,=+ >+ ' => >? = ; ? 7) 7<&' <3E & ,= %<,4,5 >,75W' D: 37, > ,75 5& 7: : <' ==,75 \$E : : ' 3,5* >7 >+ ' %75=%, ' 5%' = 7) ,>= %>,F' 5= ,5 >+ ' 5 4' 7) 3 C 5& 7<&' <jj^{KP}

+ ' ,= 4' 4\$' < 7) >+ ' LJ[=> ?>747>,B' ,5&?=><EW?5&' < >+ <' > = C' = : ' 2 \$' % ?=' 7) <' D, >W, = 4?>,h\$,33,75 : 7?5& 5 >,75 3,5&?=><E[=,4: 3E 57>' >+ >W = >+ ' %7=> 7) 3,B,5* %< ,= + = ' 4' <* ' &W 347=> > ' B' <E : 7,5> C+ ' 5 %+ 5*' 7) *7B' <54' 5> & ,<' %>,75 C = H7 >' &W >+ ' G<=> %>,75 : <7: 7=' & C = >7 \$ 5&75 5' >hF' <7 > <* ' >=[+ ' <' ,= : 3' 5>E 7) ' B, &' 5%' 7) %75%' <' & *7B' <54' 5>h&<,B' 5 % 4: , *5 >7 \$<' 2 &7C5 %75=' 5=?= 7B' < >+ ' 47B' C E) <74) 7==,3) ?' 3 &' : ' 5&' 5%EW C, >+ ,5B' => 4' 5> ,5 >+ >= ' %>7< : 3 55' & >7 ,5%<' = ' W< >+ ' <>+ 5 &' %3,5' [

?=> = C7<<E,5*3EW 57>' >+ ' ?=' 7) 3 C 5& 7<&' < ,5 <' = : 75=' = \$E >+ ' *7B' <54' 5> >7 >+ ' & ,=<? : >,B' : <7>' =>= \$E %3,4 >' %>,B,=>=W C+ ,%+ + = \$' ' 5 >7 %<,%?4=%<,\$' 5& %<,4,5 3,=' & ,=<? : >,B' : <7>' => ,5 >+ ' [+ ' <' + = 3=7 \$' ' 5 %75%' <' &W %7h7<&,5 >' & 4' & , % 4: , *5 >7 => , * 4 > ,=' & ,=<? : >,B' : <7>' => = 5 ,33' * , >,4 >' == ?> 75 : ' 7: 3' l= % ,B,3

LR w ' %7*5,=,5* >+ ' ,<7=V)<74 ')7<4 >,75>7 ' B73?>,75

3,\$' <>,' = >+ > %75>,5?' = >7 =>72' : ?\$3,% 7: : 7=,>,75 >7 %3,4 >'
%>,B,=4[

>+' 737*,% 3 ;?' =>,75 ,=| + > 2,5& 7) 1?=>,%'\ 5
'D 4,5 >,75 7) +?<%+ => >' 4' 5>= 5&
:<757?5%' 4' 5>= *,'B' = >+' &,>,5%> ,4: <' ==,75 >+ >>+'

7%, 3 5 3E=, 3=7 =+' &= 3,*+> 75 >+' =<?%>?< 3 B,73' 5%' 7)
>+' E=>' 4[= <' E|= C <5,5* >7 >+' 4 &' %3' <W >+'
: 77<' => 5& 3' => \$3' >7 %7: ' '%7574,' = <' '))' %>,B' 3E ?5&' <
>> %2)<74 >+7=' 7) >+' C7<3&|= &' B' 37: '& '%7574,' =W
<' =: 75=,\$3')7< 7B' < QR< 7) *<' ' 5+7?=' * = ' 4,==,75=[' 7: 3'
5& %74 4?5,>,' = <' 3,>' < 3E &E,5* = <'=?3

' \$' * 5 C, >+ >+' % 33)7< %+?<%+' = >7 &' %3 <' 3,4 >'
4' <*' 5%E[7 &7 =7 &&= 57>+,5* ' ,>+' < &,=>,5%>,B' 7< 5' C[
> 4 E \$' >+ > 4 5E %+?<%+' = 4, *+> 5' ' & >7 <' %7*5,=' >+ >
C' <' ,5 >+' 4,&=> 7) 3,4 >' 4' <*' 5%EW\$?> >+ > ,= 753E
: 3 E,5* % >+h?: [
+ > %+?<%+' = 5' ' & >7 &7 ,= &' %3 <' >+ > >+' %3,4 >'

&' 475=>< >' & >+E >+' ,< <' =: 75=' >7 >+' <' > ' B73[+'
%3,4 >' % > =><7: +' ,= 7?< 2 ,<7=[

= C' 57>' & ' <3,' <W>+' LK=> 4'' '>,5* 7) >+' 7<3& 3, 5%' 7)
')7<4' & +?<%+' =W4' '>,5* ,5 >>7C ,5 KSRLW&' %3 <' & >+ >
: <>+' ,& %75=>,?>' &

+ , = 57 > 5 >> ' 4 : > 7 : ? > 7 * ' > + ' < % 7 4 : < ' + ' 5 = , B ' % > , 7 5
: 3 5 [1 4 < ' = > < , % > , 5 * 4 E = ' 3) + ' < ' = , 4 : 3 E > 7 % 7 5 B ' < = > , 7 5 C , > +
> + ' G 5 3 % + : > ' < 7) > + ' > 7 5 7 > ' C + > , > H * = ? : + ' 3 :) ? 3 E [

i + < , = > , 5 = W ,) > + ' E < ' 5 7 > & 7 , 5 * = 7 3 ' & E W 4 ? = > ; ? , > '
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1 ? = > = 7 % , ' > E [j ^{KS}

+ ' 5 C ' 3 , = > ' 5 > 7 > + ' B 7 , % ' = 5 & ' D : ' < , ' 5 % ' = 7) 7 ? < 7 ? > +
) < , % 5 = , = > ' < = 5 & \$ < 7 > + ' < = , 5 > + ' W C ' + ' < > + ') 7 3 3 7 C , 5 * V

: 3 %' 7) ?5C B' <,5* %744,>4' 5>W=7 >+ > , = &,=?==,75
475*)<,' 5&=W57> 5 >> %275 >+' % 4: ,*5 ,>=' 3)[

) C' C' <' >7 > 2' >+' %7?<=' 7) %>,75 ?<*' & 75 >+' %+?<%+ \$E
>+' WC' 5'' &>7 =?: : 7<> 5&' 5%7?< *' >+' &,<' %> %>,75
% 4: ,*5= 7) 33>+' B <,7?=' *<7?: = %744,>>' &>7 &&<' ==,5*
>+' %3,4 >' %> =<7: +' [?> >+' %+?<%+ + = ,>= 7C5 =: '%,G%
>,B,>,' =V ?5& E = '<B,%' =W 744?5,75 = '<B,%' =W \$:>=4=W
?5,7< +?<%+W)?5' < 3= ' >%[> 3=7 + = =: '%,G% C E= 7)
' D: <' ==,5* ,>=) ,>+ 5& %744,>4' 5>=[33 7) >+' = ' %>,B,>,' =
4?=> \$' <' =+ : '& >7 \$' 47<' %75=,=>' 5> C,>+ >+' : <7: '+' >,%
) ,>+ &' 4 5&' & \$E >+' 2 ,<7=[

74' 7) >+' \$' =>' D 4: 3' = + B' = ' 5 + B' ' 4' <*' &)<74
><,>=, 5 3,4 >' %>,75 d eW>+' +<,>=, 5 C,5* 7) D>,5%>,75
' \$' 33,75 d e[<')' <E7? >7 >+' ,<%75><,\$?>,75 >7 >+' 5>+737*E
,5 %+ : >' <MPWC+' <' >+' E 3 E 7?>' D 4: 3' = 7) >+' ,<
>,75=[^{LJ}

I= => >' & ,4 ,= >7 ?=' 575B,73' 5> %B,3 & ,=7\$' & , ' 5%' >7
%74: ' 3 *7B' <54' 5> %>,75 >7 B7,& >,: : ,5* : 7,5>= ,5 >+'
>,3,4 >' =E=>' 4W \$,7&,B' <=>,E 37==W 5& >+' <,=2 7) =7%, 3 5&
' %737* ,% 3 %733 :=' [^{LK} I= %+ : >' < ,= ' 5>,3' &W i ,=>,5%>,B' 3E
><,>=, 5 &,<' %> %>,75=\j + ' E %75%3?&' W

i + >C' %>77=' >7 &7 4 >>' <= X ?>+7C C' %> ,=1?=>
= ,4: 7<> 5>W 5& ,> ,= : '<+ : = '+' <' C' % 5 = ' ' C+ >
&,>=,5%>,B' 3E +<,>=, 5 : <7>' => %> 4, *+> \$' [' %>
< E' <)?33E[' = ' ' 2 7&I= *?,& 5% [' ' >E >7 &7 C+ >
,=< ,*+>W 5& = ' ' 2)7<*,B' 5' == 5& 3' <5,5* C+ ' 5 C' *' >
> C<75* [' ?5&' <=> 5& >+ > C+ > C' &7 ,= : <> 7)
C+73' 3,) ' & ,=, : 3' =+ ,: W 5& % 33>7)737C <' \$' 3 ' =?=[

&))' <' 5> ' 5' <*E >+ 5)' <W+ >' W 5& 5*' <[\$=73?>' 3E

'=475& ?>? 5& \$ =' & 75 >+' '=?h=+ : '& : <,5%,: 3' 7)
)7<*,B' 5' =[
+' =' %75& ,=>+ >: 7=>h : <>+',& 7?>+)<,% ,=W,5 =7 4 5E
C E=W) <%<E)<74 >+' B,=,75 >+ >?5&'<:,55' & >+' >?*3' [
+' ' 5& 7) : <>+',& + = 57> ?=+' <' & ,5 =7%, '>E ,5 C+,%+ 33
7?>+)<,% 5= + B' ' ; ?,> \$3' %%' ==>7 >+' %733'%,B' C' 3>+W
<' =7?<%' = 5& 3)' h%+ 5%' =>+ >>+' %7?5><E))7<&=[
+ >= ,&W>+' <' ,= *' 5?,5' WC75&'<)?3 <' 3,>E >7 5&' 3 l=
B,=,75 7)>+' ,5\$7C >,75[7?>+)<,% ,= \$' %75 7) +7C
< %,>=7%, '>E % 5 \$' × 5=)7<4' &[+': ' %')?3× 5=>,75)<74
: <>+',& ,= &?' ,5 57 =4 33 : <>>7 + 5&)?3 7) ,5&,B,&? 3= g
>+' : '<=75 3,>,' =W%+ < %>' < 5& ,5>' *<,>E 7)>+' 3' &' <=+,:
,5 >+' : '<=75= 7) 5&' 3 W ?>?W ?&(5& 7>+' <= g 5& >+'
?5: < 33' 3' &' D: '<,4' 5>,5 5 >,75 3+' 3,5* >+ >C =>+' <?>+

>< 5=)7<4 >,75[7& ,= 7& C+7=' = B,5* * < %' ,= =' ' 5 5&
& ,=%7B' <' & ,5>+ >B' <E \$<72' 55' ==[7\$7&EW)7< 4E 475' EW+ =
'D: <' ==' & >+ > 4.7<' %3' <3E >+ 5 ' 75 <& 7+' 5 ,5>+' <' < ,5
7) +, =75*W V
i ,5* >+' \$' 3= >+ >=>,33% 5 <,5*Y
7<*' >E7?<: ' <)' %> 7))' <,5*V
>+' <' ,= %< %2 ,5 ' B' <E>+ ,5* g
+ >|= +7C >+' ,*+> *' >= ,5Yj
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() / .

K[' <' 4E ,3, 4= d' &eW

d +<,=>, 5 3,4 >' %>,75W

WLJLJeW: LNR[

L[\$,&W: LNS[

M[>+ <,5' E+7' Wi l4 3,4 >' %,' 5>,=> +7 ' 3,' B' =
,5 7&[' <' ' ?>j d : ,5,75W WMMK %>7\$' <LJKSe[
N[4 ?=,5* i>+' E=>' 4j = C E 7) =, *5: 7=>,5* ,>=
%755' %>,75 >7 4: ,<' 5& =,5[> ,= >+' >' <4 ?=' & \$E 3 %2
7?>+)<,% 5= >7 <')' <>7 : <>+' ,& g >+' ,5>' <%755' %>' & C' \$
7) : 73,>, % 3W=7%, 3W' %7574 ,%W<' 3,* ,7?= 5& 4,3,> <E => 5&= 7)
>: 73,%E 5& 3,) ' >+ > ' 5=?<' & >+ > +, >' 7?>+)<,% 5= 3' &
%+ <4' & ' D,=>' 5%' C+' <' >+' %7=> C = 4' =?<' & 5& : ,&)7<

d ' <=,75 W = :: <7B' & \$E ' 5' < 3 ==' 4 \$3EW KSSJeW
%3 ?=' 0[
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S[< + 4 & 4=W

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- /) " 0/ - ()/ ' (<
(. " !/ . -)' -)/ ./"(. /

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+ , = : : ' < \$ ' * , 5 = \$ E , & ' 5 > ,) E , 5 * > + ' : 7 % 3 E : > , % > + < ' > : 7 = ' &
\$ E 5 ? % 3 ' < C ' : 7 5 = W : 5 & ' 4 , % = 5 & > + ' % 3 , 4 > ' ' 4 ' < * ' 5 % E [
> < * ? ' = > + > > + ' = ' k ' B ' 3 | > + > > + ' % + ? < % + = < ' = : 7 5 = ' = + 7 ? 3 &
\$ ' > 7 G 5 & , > = 7 C 5 B 7 , % ' W = : ' 2 , 5 *) < 7 4 > + ' => 5 & : 7 , 5 > 7) , > =
) , > + < > + ' < > + 5) < 7 4 => 5 & : 7 , 5 > 7) * ' 5 ' < 3 * < ' ' 4 ' 5 > C , > +
3 : ' 7 : 3 ' 7) * 7 7 & C , 3 | 7 4 ' + , => 7 < , % 3 ' D 4 : 3 ' = < ' , & ' 5 > , G ' &
, 5 C + , % + > ' => ,) E , 5 * > 7 > + ' * 7 = : ' 3 ' 5 \$ 3 ' & + < , => , 5 = > 7 G 5 &
4 ' 5 = 7) : < 7 > ' => > + < 7 ? * + 7 ? > 3 , 5 , 5 * W 5 & >> ' 4 : > , 5 * > 7 3 , B ' W , 5
> + ' : ? \$ 3 % < ' 5 W : 7 3 , % = * < 7 ? 5 & ' & , 5) , > + , 5 > + ' % < ? % , G ' &
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))' "(+) & 4 + . C . D

)> ' < > + ' 5 ? % 3 ' < \$ 7 4 \$, 5 * 7) , < 7 = + , 4 W A < * ' 5 7 3 > 4 5 5
> ' 3 3 = ? = W 7 ? < > , 4 ' + = \$ ' % 7 4 ' > , 4 ' C , > + > , 4 ' 3 , 4 , > | = < ' = ? >
7) > + ' & ' B ' 3 7 : 4 ' 5 > 7) 5 ? % 3 ' < C ' : 7 5 = W < + ' ' 5 & 7) + ? 4 5 , > E
% 5 \$ ' \$ < 7 ? * + > \$ 7 ? > > 5 E 4 , 5 ? > ' | d 7 3 > 4 5 5 W K S S P V L J N e [
> , 7 5 = 7) > + ' C 7 < 3 & < ' = : 7 5 & ' & \$ E 1 7 , 5 , 5 * > + ' 5 ? % 3 ' < < 4 =
< % ' \$ ' 3 , B , 5 * > + > W , 5 & 7 , 5 * = 7 W > + ' E + & % < ' > ' & k = E => ' 4 7)
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%75>,5?' = >7 ' D,=>| d A33' <h +<' 5+73FWLJLJV NNe[+ ' >+<' > 7)
5?%3' <&' B => >,75 : ' <=>= 5&W >>+ ' >,4' 7) C<,>,5*W=' ' 4=
47<' <' 3 >+ 5)7< *' 5' < >,75)737C,5* ?==, |< >> %2 75
2< ,5' ,5 ' \$<? <E LJLL[+ ' ?==, 5 => >' |< : <7: * 5& ,5
1?=>,)E,5* >+ ' ,5B =,75W=? : : 7<>' & \$E ><, <%+ ,<,33 7) 7=%7CW
<' B' 3= \$7>+ >+ ') 3=' +77&= >+ > <' >73& ,5 &')' 5&,5* >+ '
,5&')' 5=,\$3' 5& +7C ' =,3E <' 3,* ,7?= 3' &' <= <' \$' *?,3' & ,5>7
7))' <,5* =: ,<,>? 33' *,>,4 %E>7>+ ' 3' &' <= 7)>+ ' ,< 7C5 5 >,75=[
' <+ : = > , = ' =, ' < >7 ; ?' =>,75 >+ , = C+ ' 5 , > + : : ' 5= \$<7 &[
?> = ,47>+E 7<<,5* ' : 7,5>= 7?>W|>+ ' 3B,5* 7& , = 257C5
,5 >+ ' * ,B,5* 7) 3,) ' | 5& >+ ' <')7<' |&' >+ , = >+ ' + 334 <2 7)
,&73 >E| [= <' =?3>W>+ ' 737*E +<' 4 , *+> \$' 5 ' D' <%, = ' ,5 |B, '
&' >' %>,75| d 7<<,5* ' WLJKNVKRe|K
B,5* ' D: ' <' 5% ' & ,> G<=>h+ 5&WC' 57C 257C 753E >77 C' 33
>+ ' >+<' > : 7=' & \$E : 5&' 4 ,%=[> , = : 7==,\$3' >+ > 75' =4 33

>+' 47=> : <W\$' C7<3&)<' ')<74 C <W+?5*' <W: 7B' <>E 5&
&,' ='[<E,5* >7 &' 3C,'>+>+' 3 >>' <C,'>+7?>>+')7<4' <C7?3&
\$' : 73,%E &774' &>7) ,3
5& E'> C' 4,*+> G5& >+' 47=> : <' ==,5* ,==?' >7& E>7 \$'

<'=?<<'%,5* ,>[+,3' >+,= &7' = 57> 4' 5 >+ > : <' ==?<' =+7?3&
57> \$' : ?> 75 *7B' <5 4' 5>=>7 %7 4 4 ,>>7 : ' %' W>7 1?=>,%' 5&
>7 <'&?%' >+' ' 4,==,75 7) >+' * ='= <'=: 75=,\$3')7< >+' 47=>
&< 4 >,% %+ 5*' =>7 >+' C7<3&|= %3,4 >' ,5 4,33' 55, W57< &7' =
,> 4' 5 >+ > 33 : ' 7: 3' 7) *77& C,33 =+7?3& 57>)7<4 %7 3,>,75=
,5 7<&'< >7 &7 C+ > % 5 \$' = 3B *' &W, > &7' = 4' 5 >+ > >+'
%+?<%+ ; ? %+?<%+ 5' ' &=>7 G5& ,>= 7C5 B7,%' [+' <' 4 E C' 33
\$' 7: : 7<>?5,>,' =)7< %+?<%+' = 5& +<,>, 5=>7 %77: ' < >' ,5

>+,=%744,>4'5> C =>+ >>+' %<?%,G' & '=?= + & <,' 5)<74
>+' &' &[
?> C+' 5 :<'=' 5>' & ,5 >+' ' <3E)7?<+ %' 5>?<E C,>+ >+'
: 7=,,\$,3>E 7) C' 3>+ 5& :<,B,3' *' W >+' %+?<%+ * < =:' & ,>=

+7: ' + = : <7B' & >7 \$' 4,=: 3 %' &[+ ' %+?<%+|= <?=> ,5 3,\$' < 3
&' 47%< %E + = &75' 57>+,5* >7 =>' 4 >+ ' >+<' >7) 5?%3' < C <W
7< >7 %37=' >+ ' * : '\$>C' ' 5 <,%+ 5& : 77<W7< >7 ' 5%7?< *'
&,B' =>4' 5> 7) : 73?>,5* * =' = [' 5C+,3' W >+ ' %+?<%+ ,=
>73' < >' & C+,3' <' =><,%>' & >7 : ' <=75 3: , ' >EW\$?> ,>= ,5>' <B' 5>,75=
<' <' \$?))' & 75%' >+ ' E><' =: == ,5>7 >+ ' : ?\$3,%<' 34 [, '\$?+<|=
7: >,4,=4 C = 4,=: 3 %' &[= ?' <C = 5& ,3,475 ' D: 3 ,5W
>+ ' k4' <' 3E 1?=>,G' & C+ > C = 3' &E >+ ' <' g %+?<%+ >+ >
> & %' =' & >7 =2 >+ ' <,*+> ;?' =>,75= = ,> C' 5> \$7?>
%75* < >?3 >,5* ,>= 3))7< << 5=)7<4,5* >+ ' C7<3&W57> 57>,5*
>+ >,5) %>>+ ' C7<3& + & > 4' &>+ ' %+?<%+| d: [NKe[
?<>+ ' <47<' W>+ ' : 73,>,%= 7) 3,\$' < 3 &' 47%< %E ,5 =7 4 5E
: 3 %' = ,5 >+ ' >C' 5>EhG<=> %' 5>?<E + = 37=> ,>= C E [5 %75>' D>
C+ ' <') 2' 5' C= 5&%75=: ,< %E >+ ' 7<,' = \$7?5&W,>=' ' 4=>+ >
' B,&' 5%' , = ,*57<' &W 5& : 73,>,% 5= % 557> \$<,5* >+ ' 4=' 3B' =
>7 &4,> >+ ' 5' * >,B' %75=' ;?' 5%' = 7) >+ ' ,< : 73,%' = [' \$ >
+ = * ,B' 5 C E >7 >+ ' 47=> : ?' <,3' W &B' <= <, 3&') 4 >,75 5&
&7?5>' <h&' 5,* < >,75W,5 >+ ' \$' 3,') >+ >=' %?<,5* : 7C' < ,= 47<'
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A personal on-the-hoof view from full-time EcoChaplaincy

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At the risk of a new bit of jargon, it's really *anthroposummism* (people as
pinnacle) that does the most harm: that we are in every way on top, in the best

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not to destroy Earth's life. And the miracle of Jonah was less to do with those charming, cetacean transport options than that a culture took notice of

might be a foundation for, but is a very long way from having preacher the Word.

We turn up our noses at a 'bondage to decay' though happy to be nourished by bread, cheese, and wine. But like the 'bondage' of slavery, is the problem an abusive relationship of the haemorrhage of goodness, rather than of the processes by which goodness is circulated to the generations of Life?

And there's colossal divine irony as, through human agency, Jesus is welcomed by branches (Palm Sunday & when branches of local trees rather than alien imports might get through) before being made one with the Tree of Life.

And then there's the great Commission of the Risen Christ in Mark, which has accompanied the church through centuries of persecution and turmoil, to be Good News to 'every creature' (thanks, King James!) or 'All Creation', which was first discarded by the pomposity of text critics and then hopelessly diluted by the well-meaning missiology of the Good News Bible to 'all people'.

For Jesus is both incarnate into and ascended into a unified Creation of

pulpit and distant pews. "Don't know about that," said one, "We might get into trouble!"

Five years into a special-category ministry in which, scandalously, I've become a practitioner without having time to be a (specialist) stude

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In recent years I have come to the realisation that my grandfather was amongst the last in many millennia to be taught knowledge, not through the

of the blues was one I related to Ð a bitter life-experience of alienation and

in squats in south-west London, at the same time as reggae and Rastafarianism hit the city, which took root and birthed local expression in the communities I frequented, especially Brixton, a centre for the Jamaican and West Indian diaspora. I imbibed the sacred herb, soaked in the history, language and culture of black consciousness and its longings for spiritual and physical freedom from tyranny and oppression, white Dominion. I grew my dreadlocks and found faith in Rastafari.

Christianity I could not accept, for its part in the justification of and collaboration in slavery, invasion, conquest, Dominion, and genocide.

systematically seeks to legislate against and erase transgender people from

manifest goodness. In some cases, these multi-nationals invade and destroy the land and water sources that indigenous peoples are still reliant upon, and guardians of. In every case they poison, pollute and destroy the delicate and fragile eco-systems that ensure the harmony and co-operation of the human, animal and plant life that have existed for millennia, with no other objective than exploitation, greed, profit, Dominion-ism¹².

Beneath all this Dominion-ism is a white euro-centric supremacy of such short-sighted arrogance that is destroying the very foundations of its own existence in a total disregard of human life and the fragile eco-systems we depend upon for survival, from using insecticides fatal to bees, upon whom we are all dependent for successful crops and fruit, to the extraction of mineral resources that poison and pollute earth, water, and sky.

We need to pinpoint Dominion-ism for the curse that it is upon both humanity and the earth, but also recognise it is the motivating spirit, force and energy behind both capitalist exploitation of people as a commodity to produce profit for the already obscenely rich, and the destruction of the earth, water and skies. We need to recognise too that Dominion-ism, whether acknowledged or not, is the principle, motivation and dynamic behind Christendom's fatal obsession with 'Conversion theology, theory, therapy and practices', even within the conservative evangelical world¹³.

Without Dominion-ism and Conversion theology and therapy, we would not have programs of 'Assimilation', the resulting mass graves of children in Canada, and the deliberate plan to erase indigenous and queer peoples, cultures, and languages; and within these, the erasure of wisdom embodied and passed from one generation to the next, of living in co-operation and harmony with the natural world.

To simplify and conclude, I argue that Dominion-ism is a perversion and corruption of faith in Christ Jesus, and that it is a dark, demonic and destructive principle and force that does not recognise the sanctity of all life, nor reverence it, but instead seeks to 'assimilate, erase and subsume' life into its own parasitic nature and being; the furtherance of Empire, power and Dominion.

If something can ever be described or attributed as being 'Satanic' within Christendom, then I would argue Dominion-ism is just that.

What is the answer, what is the antidote, to the fatal self-destructive

psychodynamics and power dynamics embedded in Dominion-ism, and Christendom as Empire?

I don't think we have to look very far at all to see the answer. Patriarchy is fundamental to Dominion-ism: they are totally integral and dependent upon each other. White, heteronormative, male dominance is just one hall mark of Patriarchy and an essential and integral part of Dominion-ism.

If the gospels of Matthew, Luke and Mark reflect and shape the masculine energy of Christian history, theology and action, then, for me, the gospel of John reflects the feminine energy and lives which would have surely surrounded John. John does not come across in any way as a stereotypical, 'Alpha' male.

My experience of Rastafari and black consciousness as a reality rather than an intellectual, abstract or theoretical concept, was my birth as a spiritually aware person, and was my introduction to Christ through the Rasta prophets, poets and singers (into which my family is married) who referenced him as authentic and authoritative. My experience as transfemme, allied to black, latin and indigenous transwomen, has exposed me directly to Dominion-ism's inherent oppression and erasure, and to certain streams of conservative evangelical faith who are campaigning for the erasure of trans people from society through legislative means.

This essay is my attempt to expose the evil of Dominion-ism and its part in destroying both people, and the earth, and to propose that nothing less than its exposure and renunciation can save this planet, and the most vulnerable people on it, of which I am one. The solution is I believe simple, yet the greatest challenge the church has yet faced: to renounce ego and return to the beautiful, liberating, life-giving model of Christ, as embodied in the spirit of washing the feet of all whom the church is called to serve.

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5 &,7 3' = >+' <' C = >7?%+,5* ,5>' <B,' C
\$>'<' '5>C7 4' 5)<74 >+' <' C+7 &,=%?==& +7C 4?%+ >+'
<' + &%+ 5*' &W\$?> 3=7 <' 4 ,5' &>+' = 4' ['+' ,5>' <B,' C
% 4')' C & E=)>' < <,7> ,5 >+' <' >+ >% 4')>' <>+'

' *'3 ,5 +,= ' <3E C<,5* = C<7>' Wk ' 4?=> <' %7*5,=' ,5
4 >' <, 3,=4 >+' ' 5>+?=?, =>,% '))7<> >7 < 5=%' 5& >+' &? 3,=4
C+,%+ : 7=>?3 >' = >C7 &,)')' <' 5> C7<3&= = ' ; ? 33E =?=\$=> 5>, 3
5& <?' W b 5&c >7 5?33,)E >+,= >' <,5* =?5&' < 7) C+ > ,=
7<,* ,5 33E 5' [P =75 [77<' W +,=>7<,% 3 *' 7* < : +' < 5&
' 5B,<754' 5> 3 +,=>7<, 5 ?=' =>+,= ; ?7>' ,5 +,= \$772

>7 <*' ?' >+ >,5=>' & 7) ='' ,5* ?= =3' B,5* % <\$75)77>: <,5>
75 >+' 5 >?< 3 C7<3& =,) C' <' &' > %+' &)<74 ,>WC' 5' ' & >7
,5=>' & %75%' B' 7) +7C % : ,> 3,= ,5 5 >?<' W 5& +7C 5 >?<' ,=
G* +,5* \$ %2[14 *7,5* >7 ?=' >+' C7<2 7) E?5*h +?3 5
5& 7' <* , ' *' < >7 + ' 3: 4' < ,%?3 >' +7C ='' >+,= &,B,&'
>+ > 77<' 5& ' *' 3 C' <' * < : : 3,5* C ,>+[>+' < >+ 5

<' 3 >,75=+,,: >7 : 3 %' f ,>|= >' <4 &' ': C,>+ ' 3=+ 4E>+737*EW
3' 5=WB 33' E=W<?55,5 C >' <W) ,<' =W&< *75=f C+ >' B' <{
?< <' 47B 3)<74 i: 3 %' j + = 3')> >+,= ,&' 7) =

%+ :>' < \$7?> * <7C,5* ? : ,5 %7?5%,3' => >' ,5 3 =*7C 5&
>+ ' 4' 5,5* 7) =C' ' >><' >=f C+ ' <' E7? %7?3& 57>))7<& >7 *7
75 +73,& E 7B' <>+ ' =?4 4' < \$?> E7? %7?3&))7<& 5, %' %<' 4
)<74 >+ ' B 5W7< <' 3% 5 7) %72' f >+ ' %72' 57> 753E \$' ,5*
474' 5> <E <' 3' = ')<74 57<4 3,>E \$' % ?=' 7) >+ ' =? * <+ , * +W
\$?> 3=7 \$' % ?=' %72' ,=>+ ' = 4' ,5 >+ ' + 5&= 7) C7<2,5*h
%3 == 7< 5 ? : : ' <h%3 == 2,&[+ ' C<,>' =Wk4 35?<,>,75 ,= 57>
: <7\$3' 4 %75G5' & >7 >+ ' ,%>7<, 5= 7) +,=>7<E 3' ==75=W C,>+
4,3,75= 7) : ' 7: 3' ,5 >+ ' W: <,>,%?3 <3E >+7=' C,>+ 37C ,5%74'
7< 47\$3,>E : <7\$3' 4=W=?))' <5*)<74 ?5&' <57?<,+4' 5> ,5 >+ '
<' = ' 5> & E^{KL} 7?5%,3' => >' = 7) * <' E %73' %,B' <' = 7)
%75%<' >' W7)>' 5 \$ &3E = <B,%' & \$E : ?\$3,% <> 5=: 7<> 5& < ,=,5*
> 7B' <E d 5& >+ ' : <' ==?<' 7) 4?3,5 >,75 3 %7<: 7< >,75=e
> : ?>>,5* 37% 3 \$?>,5' == ' =W 3,2' * <' ' 5* <7' <=W 7?> 7)
\$?>,5' ==f >+ ,= 3' B' = >+ ' %+' : %7<5' < =+7: >7 = ' <B' >+ ' 37% 3
%74 4?5,>EW C+ ' <' + B,5* ,55?<,>,7?> <' &E)77& = B' = >+ '
\$?>) <' >7 <> B' 3>7 >+ ' =?: ' <4 <2' >[?* <E)77&W<' >=W<' <B'
= 474' 5> <E' =% : ')<74 >+ ' %75%<' >' 1?5*3' 7) =><?*3' [<+
<' <' 3,>E 7))77& \$' ,5* 5' =% : ')<74 >+ ' %75%<' >' C7<3&
& 5 \$' ' D>' 5&' & >+ <7? * + >+ ' 47=><' %' 5> C7<2 7) E?5* h +?3
5[+?3h 5 & ,=%?>== ' = 7?< 3B,5* ,5 C7<3& 7) 575h>+ ,5* =W
5& +7C >+ ,= & ,=> %>= ?>)<74 <' =,=> 5% ' 7< C7<2V
' <' >7& E' D: ' <' 5%,5* >+ ' <> 5=>,75)<74 >+ ' *'
7) >+ ,5* = >7 >+ ' *' 7) 575h>+ ,5* = [5]7<4 >,75W< >+ ' <
>+ 5 >+ ,5* =W &' >' <4,5' = >+ ' 3,) ' C7<3& [' 57 375* <
& C' 3 75 >+ ' ' <>+ 5& ?5&' < >+ ' =2E \$?> 75 77*3'
<>+ 5& >+ ' 37?&^{KL}
5 G<=> <' &W 3=7 <73' & 4E ' E' = 5& C75&' <' & ,) >+ ,= %< FE
: + ,37=7: + ' < =% <' & 7) >' % +5737*E 3=7 C 32= <7?5& \$ <')77<[
>?> +,= <?*4' 5> ,= %75B,5%,5* [?< C7<3& ,= \$' %74,5* 47<'
5& 47<' * +7=>3Ef C' k' 57> >> %+' & >7 h>+ ,5* =W \$?> ,> ,=
h>+ ,5* =l>+ > * <7?5& 5& % 34 ?>f =,=>,5* ,5 >+ ' = 4' <4%+ ,<W
= ' >>3,5* ,5>7 >+ ' = 4' \$' &W+ B,5* >+ ' = 4' C 32 7B' <>+ ')7?<
= ' =75= [7CW + ' : 7=' =W C' <' 33 k,5)7<4 5, %>= 37=,5* 7?<
>' >,B' = ' 5=' 7) C75&' <>+ > ,= \$' ,5* <' : 3 %' & \$E 3h257C,5*

RL w % : '*7 >5 4' & i 7: 'j

3*7<,>+4=[))' %>,B' 5' == <' : 3 %' = ><?>+ 5& C' + B' 57 >,4'
)7< 3,5*' <,5*[E : <>5' < ,= 5 B,& C 32' <[' + =)<,' 5& C+7

=: ,< 5> :<7)' ==,75 3=ll >+7=' ,5B' =>' & ,5 257C3' &*' :<7&?%,75f >+' ,5)7=: +' <' [' %75>,5?' =ll >+' :<7)' ==,75 3

+ ' BEWC+,3=> ' 517E,5* C+,%+ \$,<=&= B,=>' & +' < * <&' 5W 5& 4E
?5& E)>' <5775= * <7C,5* ?: C 32,5* >+' &7* C,>+ +' <
<7?5& >+' 3 2' >+ > C = >' 5 4,5?>' C 32 C E : <' = ' <B'
)7< 4' [
+, = ,4 *' 7) 4E 5 C7<2,5* 75 +' < * <&' 5W=?<<7?5&' &
\$E %75%<' >' 5& 7B' <3772' &W \$ 5&75' & 7?>=,&' =: %' =W ,=
,4: 7<> 5>[+' 47=> <' %' 5> &,5\$?<*+))7<& ' %>?' <' = C' <
,B' 5 \$E \$,737* ,=> 7+5 ? : <([' ?=' & =%, ' 5>,G% ' D: ' <,4' 5>
75 C =: = C+' <' =%, ' 5>,>= C7?3& ><E 5& ><,2 >+' C =: =W\$?>
>+' E C7?3& %75>,5?' >7 &7 >+' = 4' >+,5* >+ > C7?3& \$' >>' <
>+' ,< ' 5B,<754' 5> * ,5 5& * ,5 &' =: ,>' >+' ' D' <5 3
?55 >?< 3) %>7< <+ ' =%, ' 5>,>e >E,5* >7 &,>?<\$,>[+ > C =
4E 5[5 5 ' 5B,<754' 5> 7) + >' W=?=: ,%,75W?*3,5' = 5&
?=>' <,>E =+' ?=' & >+' 3,>>3' =+' + &>7 4 2' +' < * <&' 5 \$< ,*+>
5&)' ' & >+' ' %7h=: +' <' W =+' C7?3& > 32 >7 3 7) +' <
5' ,*+\$7?<=W 5& 7)>' 5 +' < =+7: : ,5* C7?3& \$' C 32' & +74' \$E
>+' \$, * *' => * 5* 3' &' <=f + ' 3: ,5* k ?5>E 7<7>+E| C+7 * B'
>+' 4 %>7% ,%' = * <7C,5* ?: C+' 5 =+' = C >+' 4 : 3 E,5*
7?>=,&' 7) +' <)<75> * <&' 5 d 5& 7)>' 5 4 &' >+' 4 + ' 3: e| 7& EW
,> ,= ' =,' <>7 &<,B' <7?5& >+ , = %74 4 ?5,>E >+ 5 C 32 \$' % ?='
>+' %%' =, \$3' 33' EC E= + B' \$' ' 5 \$37%2' & 7)) \$' % ?=' 7)
<,4' [,&= 75 >+' ' => >' &75| ?=' >+' : <2= 7) * <' ' 5 =: %' =

>+' <,: : ,5* 7) >+' ,< >&' >+ > C = \$7?5& >7 ' <>+[7W+7C
4,*+> \$' < 5=3 > \$3' 5& +' 3: ?= \$<,&*' >+ ,= &,B,&'
\$' >C' ' 5 >+' : ,> 37%' 5' 5& >+' ,<E\ 133 ?=' 5 'D 4: 3'
>+ >|= %37=' >7 +74' [
+' W 5& 7>+' <&' 574,5 >,75= ,5>+' W <' <,*+> ,5>+'
: ,> 37%' 5' ['k' > : 3 %' C+' <' 4E *' 5' < >,75 ,= *7,5*
>7 \$' 3') > C, >+ 4 ==,B' <?=>)?5& d4?3, : 3' 4 ==,B' <?=>
)?5&=e)<74 >+' = 3' = 7) 'D: ' 5=,B' \$?,3&,5*=[' + B' >7 \$'
+75' => 5& &4, >+ > %+?<%+ = C' 257C ,>>7& E ,= &' %3,5,5* [

+7C '=?= C7?3& ?5&'<=> 5& +,= <'3 >,75=+, : >7 >+,=
%+?<%+f 7)>' 5 7) 4: ,<' ,) +' C' <' +' <' >7& E[
N[' 5 ?<>,=W d <&,))V
5,B' <=>E 7) 3' = <' ==WLJKMe[

0['C=W k 575 7<* 5W 7B' 4\$' < LNW LJKKW B,
[+>>: =f`CCC\[\\$\\$%7\[?2`5' C=](#)
[?2gC 3' =g=7?>+g](#)

KN[>>+' C '\$' <W 3,4 >' + 5*' = 3 == < d 75&75V
' <=7WLJLLe Nh0[

KO[l& 3,2' >7 : 7,5> >7 5?|= *' > C7<2 +' <' C+' <' =+' > 32=
7) >+' 5' ' &)7< < *')<74 5&)7< >+' 37\$ 3 7?>+[[[

>+' <,*+= 5& &,*5,>E 7) >+7=' &,: <7: 7<,>75 >' 3E))' %>' & \$E
%3,4 >' %+ 5*' [3,4 >' %+ 5*' ,5 >+ ,= %75>' D> ,= ?5&' <=>77&
= >+' <' =?3=)<74 >+' ,4: %> 7) 7?< %>,75= 5& ,5 %>,75= 75
7?< C7<3&[[†]

!)& " & 7 /") () (- " (/"/4

5 7<&' < >7 \$' *,5 >7 H' =+ 7?> C+ > 5h)<,% 5 >+' 737*E
%7?3& 3772 3,2' W C 5> >7 => <> 4E >+' 737* ,% 3 <' H' %>,75 75
& , =: 7<,% ,&' 5>,>E \$E 3772,5* > '\$< ,% ,&' 5>,>E ,5 >+'
=%<,: >?<' = [+ , = ,5 >+' <<' ?') =+ ,75 7))<,% 5 + ' 737*E C+ ,%+
> 2' = ,> : 7,5> 7) &' : <>?<')<74 =%<,: >?<' ['\$< ,% ,&' 5>,>E
,5 >+' 3& ' => 4' 5> C+ ,3=> 57> +747*' 57?> = + = =+ <' &
%74 475 3,>E ,5 >+' %' 5> 3,>E 5& C7<=+,: 7) +C' + d ' '
' ?>' <7574E PINe[,5*&74 : 73,>,% = 5& <,\$ 3 37E 3,' =

' + ' 4, + Nhoel ' 3=7 = ' ' =,4,3 <>' 5=,75= ,5 >+ ' ' <3E %+?<%+
,5 %>= P C+ ' 5 >+ ' <' %, 5 ' C= d ' C= \$7<5 ,5 >+ ' & ,=: ' <=,75e
%74: 3 ,5' & 7) \$' ,5* 4 <*,5 3,=' & \$E >+ ' ' \$< ,% ' C= d ' C=
\$7<5 ,5 >+ ' 3 5& 7) = < ' 3e[

\$ *!3 ,!' & ' *%+

7?* >+ >7 = E =74' >+,5* \$7?> >+ ' C7<& <,: <>,' + ' <' 5&
+7C 4 :: 3E,5* ,>[+ ' C7<& <,: <>,' ,5 >+ ' 737* ,% 3%,<%3' =
, = ?=? 3E ==7%, >' & 5& ?=' & ,5 %751?5%>,75 C ,>+ >+ ' &7%<,5'
7) >+ ' <<,5,>E = ,> : ' <> ,5= >7 >+ ' 5 >?' <' 5& ,&' 5>,E 7) >+ '
7&+ ' & \$' ,5* 75' ,5 ' ==' 5%' W: ?<: 7=' 5& ?5,>EW\$?> >+ <' '
& ,=>,5%> : ' <=75=[> ,= 3=7 ?=' & ,5 +< ,=>, 5 5>+<7: 737*E >7
&' =%<,\$' >+ ' %74: 7=,>' 5 >?' <' 7) +?4 5 \$' ,5* = ,5 >+ <' '
& ,=>,5%> %74: 75' 5>= \$?> 75' V =: ,< ,>W =7?3 5& \$7&E d ' ' K
+ ' == 375, 5= 0WLMel + ' <' <' >+7=' C+7 B, ' C 5& <?' >+ >
+?4 5 \$' ,5* = + B' >C7 & ,=>,5%> 5 >?' <' V \$7&E 5& =7?3[4
? =,5* >+ ' C7<& <,: <>,' + ' <' >7 &' =%<,\$' & , =: 7<,% ,&' 5>, ,='
G<=>3E :: 3E,5* ,>>7 ' \$< ,% ' C, =+ ,&' 5>,E 5& >+ ' 5>7)<,% 5
,&' 5>,E[

- " (-" + -!"/ (/"/4

75 \$3 %2 ,&' 5>,>E[,3<7E|= : ,75' ' <,5* C7<2 75 \$3 %2 &, =: 7<
<*'?' = 5& =,>? >' = >+' %<' >,75 7) \$3 %2 %?&?<' = ,5 >+'
4'<,% = 5& ?<7: ' C,>+,5 47&' <5,>E >+?= &,=: 3 %5*

=>+'<' 5' '&)7< 5h)<,% 5 >+' 737*E >+ ><' %7*5,=' =>+'
& ,=>,5%>,B' 5' == 5& &' 3,5' >,75=\\\$?> 3=7 > 2' = %7*5,= 5%' 7)
>+') %>>+ >>+' <' ,= %74 475 ,&' 5>,E 5& =+ <' & <77>\\ +,=
5h)<,% 5 >+' 737*E ,= ,4,3 <>7 C+ > 7=, + 7?5* <*' &
,5 +,= \$772W 75 >+' 5' '&)7< 5)<,% 5
: : <7 %+>7 =7%, 3 5& <' 3,* ,7h%?3>?< 3 5 3E=,=>+ >C,3<' ; ?,<'
?5,; ?' : ' <=: ' %>,B' = 7) \$7>+ 3 %2 + ' 737*E 5&)<,% 5
' 737*E⁰[+ > ,= +7C' B' < 4,==,5* ,5 7?5*|= 5 3E=,= ,=>+'
&' B' 37: 4' 5> 7) 3 %2 <,>,+ + ' 737*E %+ 4: ,75' & \$E)<,% 5
<,\$\$' 5= ,5 >+' <,>,+ %75>' D>[%?<<' 5> 47B' 4' 5> >+ >
% :>?<' =>+ ,= &' B' 37: 4' 5> ,=>+' < 5= >3 5>,% 7?5&> \$3' 75
' 5& ' 3,* ,75 d e[,= :< ,4' ' D 4: 3' 7)
47B' 4' 5> >+ > + = ,5B' =>' & ,5 5h)<,% 5 C7<2 5&
& , 37*?' >+<7?*+ >+' ,< B <,7?=- *37\$ 3 %75B' <= >,75= 5&
: ?\$3,% >,75=PW\$?> C75&' <,) C' 5' ' & 47<' 7)>+ ,= 2,5& 7) C7<2
,5 >+ ,= %?<<' 5> %3,4 >' \\
' %?<<' 5> %3,4 >' C, >+ >+' &' >+ 7) ' 7<*' 37E&\\>+' % ='
7) +,3& 5& 7>+' <= <' ,5=: ,<,5* = ,> C' <' <' =?<*' 5%'

+,= ,= \$3 %2 %75=%,7?=5' == 5& >' B' ,27 dKSNPhKSQQeW >+'
&' %' =' & : 73,>,% 3 %>,B,=>)<74 7?>+)<,% + = >+,= >7 = E
\$7?> ,>V
+ ' % 33)7< 3 %2 75=%,7?=5' == ,= >+' 47=> : 7=,>,B' % 33>7
%74')<74 5E *<7?: ,5 >+' \$3 %2 C7<3&)7< 375* >,4' [> ,=
47<' >+ 5 1?=> <' %>,75 <E <' 1' %>,75 7) C+,>' = \$E \$3 %2=[+'
> ; ?>5' == ' 5%' 7) ,> ,= >+' <' 3F >,75 \$E >+' \$3 %2= >+ >W,5 7<&' <
>7)' >?' <' C' 33,5 >+,= * 4' 7) : 7C' < : 73,>,%-W>+' E + B' >7 ?='
>+' %75%' : >7) *<7?: : 7C' < 5& >7 \$?,3& =><75*)7?5& >,75
)7< >+,=[+ ' : +,37=7: +E 7) 3 %2 75=%,7?=5' ==W >+' <')7<' W
' D: <' == ' *<7?: : <,&' 5& &' >' <4,5 >,75 \$E >+' \$3 %2= >7 <,'
5& >> ,5 >+' ' 5B,= *' & =' 3]0
> ,= >+,= \$3 %2 %75=%,7?=5' == >+ > ?5&' <: ,5= >+' : +,37=7: +E
7) 5h)<,% 5,=4 >7 C+,%+ =+ 3357C ' D: 37<' [

! ()- (F -" (!)&) 4

5h)<,% 5,=4 ,= : +,37=7: +,% 3 ,&' <77>' & ,5 >+' =>?* *3'
7) : ' 7: 3' 7))<,% 5 &' =' 5> >7 \$' 3,\$' < >' & ' %7574,% 33EW
: 73,>,% 33E 5& %?3?< 33E[+,3' >+' ,&' C = %<E=> 33,' & 5&
\$' % 4' : 73,>,% 3 47B' 4' 5> ,5 >+' >C' 5>,' >+ %' 5>?<EW ,>=
,=>7<E *7' = \$ %2 >7 >+' >>' 4: >= 7) ' 5=3 B' &)<,% 5= >7
3,\$' < >' >+' 4=' 3B' =^R + ' <' <' 5h)<,% 5,=>=?%+ = &C <&
3E&' 5 dKRLMLhKSKLe 5& <%? = <B' E dKRRQhKSNJe C+7 ' 4 \$7&E
B,=,75 7) %<' >,5* 5)<,% 5 5 >,75 C+<' 33 : ' 7: 3' 7)
)<,% 5 &' =' 5> % 5 3B' %74)7<> \$3' [7<>+' = ' 5h)<,% 5,=>W
%75B' <= >,75= 75 <' : < >,75=>772 >+')7<4 7) <' %75=><?%>,75
7) +74' 75 >+' %75>,5' 5> 7))<,% [+ ' <' C' <' 3=7 5h
)<,% 5,=>=?%+ = 747 ' 5E >> dKRSQhKSQRe 5& C 4'
2<?4 + dKSJShKSQLe C+7)7?*+> + <&)7<>+' ,5&' : ' 5&' 5%

3: 12. ?022465.12230.285(8959)664 3#62954962(18541.9993.161(293)169686284)0859763

:<,&' ,5)<,% 5 %75=%,7?=5'==[> ,= >+,= 57>,75 7))<,% 5
%75=%,7?=5'== >+ > 4 =' ' 2,5* >7 :: 3E >+' 737*,% 3
?5&'<=> 5&,5* >+ >% 5 +'3: ?=>7 &&<'== %73'%>,B' 3E <% , 3
5&%3,4 >' %75%'<5=[+,= ,= \$' % ?=' >+' < 5= >3 5>,% +,=>7<E
>+ > &,B,&' & : ' 7: 3' 7))<,% 5 &'=%' 5> ,= ,5' D<,% \$3E 3,52' &
C,>+ >+' +,=>7<E 7) < % ,=4 5& >+ > 7) >+' %3,4 >' %< ,= ,5 >+'

75*' <W: 3 E' & \$E ,%+ '3 7<& 5 C' <' 2 5& 5=W75' C =
%75>,5' 5> 3 2 5& 5W>+ > ,=W\$7<5 5& < ,=' & 75 >+' G%>,75 3
%75>,5' 5> 7))<,% WC+,3' >+' 7>+' < C = \$7<5 5& < ,=' & ,5

,5 7?< C7<3&W + B' 7)>' 5 C75&'<' & C+ > <73')<,% 5
+<,>, 5,>E % 5 : 3 E ,5 &&<' ==,5* >+' ,==?' = 7) %3,4 >' %+ 5*'
5& %3,4 >' 1?=>,%' \

)2 - . &" / 0./"

4 *7,5* >7 &,*<' == \$<,' HE >7 =+ <' 4E 7C5 'D: '<,' 5%' 5&
17?<5'E ,5>7 %3,4 >' 1?=>,%' >7 ,33?=>< >' =74' %<?%, 3 : 7,5>=[
E 'D: '<,' 5%' 7) %3,4 >' %|817(' ,4 >): 7,5>?94.5641(391)84.5833(>)13.0' 3

%<,=[^{MM} +,= & > %75G<4= 4E 7C5 'D: '<' 5%' \$?> 3=7 < ,=' =
>+' ,==?' 7) C+E C' <' 57> B,=,\$3' C+' 5 ,> %74' = >7
7B' <54' 5> : 73,%,' = 5& %75B' <= ,>75= 75 %3,4 >' %+ 5' \ >

7: >,75= 5& 3 %2 7) ' &?% >,75[+, = ,= 57> 3C E= >+' % ='
\$' % ?=' 57> 3 : ' 7: 3' %3 ==,G' & = \$<7C5 <' : 77< 7< ?5h
' &?% >' &[4 3=7 C <' >+ > C' 5' ' & \$7>+ *' 5& = 5&
>+ >>+' E <' 57> 3C E= 4?>? 3E ' D%3?=',B' [4 %3 <,)E,5* + '<
4E 7C5 :: <7 %+ >7 >+' =?\$1' %> \$ = ' & 75 4E 17?<5' E 5&
' D: ' <,' 5%' [
' >?<5,5* >7 >+' =,*5,G% 5%' 7) >+' %, 3 ?=>,%' &B7% %E
7<?4 C7<2W >+' 7\$1' %>,B' 7) >+' : <71' %> ,= >7 =: ' 2
: <7: +' >,% 3E 75 \$' + 3) 7) \$3 %2 5& \$<7C5 +<=>, 5= >7 >+'
7B' <54' 5> 75< %, 3,51?=>,%' %+ 3' 5' = 5& <' : < >,75=['+'
' %?4' 5,% 3 * <7?:) %,3,> >' & \$E +?<%+' = 7*' >+' < ,5 <,> ,5
5& <' 3 5& d e 5& >+' :>=> 5,75 ,= C7<2,5* 75 >+'
?5&' <=> 5&,5* >+ >< %, 3,51?=>,%' : '<4' >' = &,)') <' 5> =: '%>=
7) =7%, ' >E 5& & ,=%7?<=' = ?%+ = %3,4 >' W' &?% >,75W+' 3+W
: 73,%5*W%<,4,5 31?=>,%' =E=>' 4 5& >+' <')7<' ,4: %>=>+' 3B' =
7) : ' 7: 3' 7) %737?<['+' =,*5,G% 5%' 7) >+, = C7<2)7< 5
)<,% 5 >+' 737*E ,= >+ > G<=>3EW ,> ,= ' %?4' 5,% 3 \$<,5*,5*
&,)') <' 5> \$3 %2 +<=>, 5=)<74 &,B' <=' %+?<%+4 5=+; : ['+'
* <7?: %74: <,' = 7) <' : <' = ' 5> >,B' =)<74 >+')737C,5*
&' 574,5 >,75= 5& 7<* 5, = >,75=[=% ' 5=,75 <?=>W>+' :>=>
5,75W +?<%+' = 7*' >+' < ,5 <,> ,5 5& <' 3 5&W >+'

&, 37*?' >+ > 47B' ?= >7C <&= >+,= *7 3,) C' <' *7,5* >7
=: ' 2 %733' %>,B' 3E[

()/ .

K[=< '3 37G51 5 d' &eW)<,% 5 7,%'=V 7C <&=)<,% 5 <,>,+
' 737*E d ?4 \$< , 5*+ 4 757*< : +=W LJKQe[3=7 =' '
< '3 37G51 5 Wk 'B' <=' ,=,75V 7C <&= 5)<,% 5 <,>,+
' 737*E[

W 73MPW ==?' NWLJKSW: : [OLhPO

2. My definitions of climate justice and climate change has followed that offered by the Christian Aid Working Group comprising of Black Majority church leaders, theologians and activists.

M[?3 ,3<7EW

d 75&75W ' <=7 772=WKSSMe

N[5 5 ,5)7<4 3%75B' <= >,75 C,>+ 7'3 &C <&= 75 >+' =? \$1' %>
7))<,% 5 ,&' 5>,>E[

O[7=, + 7?5*W

d <' 5>75W W)<,% 5 7<3& <' ==W

KSSLe[

P[< 5=h >3 5>,% 7?5&> \$3' 75 %' 5& '3,*75
[+>>: =V<' 3,*75 5&< %' \[7<* d %%' ==' & 75 MK=> ?*?=> LJLJe\[](#)

Q[75 3& 77&=W d 75&75V ' 5*?,5' 772=WKSQRW: [OS[

R[7< 47<' =>?&,' = 75 5h)<,% 5,=4 =' ' E7&' 3' 5*3' E

d D)7<&W 3 <' 5&75 <' ==W KSQMe 5& = 2755' 5 5&
' 55' >+ ,5*W d 75&75W D)7<&
5,B' <=>E <' ==WKSQMe[

9. In 1894 Mojola Agbebi as a cultural nationalist changed his name from

+ ' <: <>,' >?<' 7) 75>' 4: 7< <E)<,% 5 &' 5>,>E W KJQ

David Brown Vincent to Agbebi and wore African clothing to show his pride in African culture. He also engaged in systematic study of African Religions and culture.

KJ[7+5 << >>W
d 4\$,&*'W V ,3, 4 [' <&4 5= ?\$3,=+,5*
74: 5EWKSS0e[

KK[%, 3 ?=>,%' &B7% %E 7<?4 C' \$=,>' +7?=' & \$E >+'
: >,> 5,75 +>>: =V`CCC[\$: >,>[7<*[?2` <7?: =`MP00JN`
%, 3a ?=>,%' a &B7% %E] =: Dd %%' ==' & L0>+ 7B' 4\$' < LJLLe[

KL[7+5 \$,>W)<,% 5 W 75&75W
' ,5' 4 55 &?% >,75 3 772= >&W KSPS[47= &' C73 3?
5& &' 3?47 7: 4?W
d \$ & 5W ,*' <, W 5,\$7571' <' == 5& 772 5&?=><,' = ,4,>' &W
KSQSe[

KM[' : 7<> 75 , ' C= 5& >>,>?&' = 7) 3 %2 <,>,+ +<,>, 5=
75 3,4 >' + 5*' W ' B 5> 74 ' = 5& +<,>, 5 ,& ?<B' E
733WLJLJ[

KN[<5=> 75< &,' Wi +' 5B,<754' 5>j ,5 ?5& E 7\$, * 5*W
,75 [7<=>' < 5& [?<*' 5= ' 5&<,2= d' &=eW
d 3 >' ? > >' W ,*' <, W ,: : 7 772=WLJLJeW: [KOS]

KO[\$,&[W: [KOS]

KJR w +' <,: <>,>' >?<' 7) 75>' 4: 7< <E)<,% 5 &' 5>,>E

Q[

I (-% (' (/)- !"& J

1 / , ' -\$ ' \$' ! + '

&-) % & / &

(/-) 0 /") (

> LQM +,=>7<,% k37== 5& & 4 *'l&' 3 C = G5 3E *<' '&
?: 75 >7 %<' >' 4' %+ 5,=4 >+<7?*+ C+,%+ ' %7574,% 3E
&,' 5)< 5%+,=' & %7?5><,' =W >+7=' 7)>' 5) %,5* >+' 47=>
=,*5,G% 5> ,4: %> 7) %3,4 >' %+ 5*' %7?3&<' %',B' 475' > <E
==,> 5%' >7 %7: ' C,>+ >+' ,4: %>= 7) 'D><' 4' C' >+' <
'B' 5>=[^k 5 : <>,%?3 <W>+,= ?5&' <3,5' = >+') %> >+ > %7?5><,' =
C,>+ +,*+<%75%' 5>< >,75= 7) : 7B' <>E <')?<>+' < &' => \$,3F' &
\$' % ?=' 7) >+' ,4: %>= 7) 'D><' 4' %3,4 >' 'B' 5>=[+,= &' 3
C = =,*5,G% 5> ,5 = 'B' < 3 C E=[+,') 7) >+,= C = >+' <' =?> 7)
&' % &' = 7) % 4: ,*5,5* \$E B <,7? = %>,B,=>= 5& 7<* 5,= >,75=
7) 5&)<74 >+' 37\$ 3 7?>+[><' : <' = ' 5>' & 2,5& 7) 1?=>,%'
>+ >)7<4 3,F' & ,5 : 73,%E <' %7*5,>,75 >+ > %' <> ,5 %7?5><,' =
C' <' 47<' B?35' < \$3' >7 >+' '))' %>= 7) 'D><' 4' C' >+' <' B' 5>=
>+ 5 7>+' <=[> C = 3=7 =,*5,G% 5> +7C' B' <W,5 C+ > ,> 74,>> &[
7== 5& & 4 *' %74: ' 5= >,75 &7' = 57> ,5%3?&' 3, \$,3>E 7<
%74: ' 5= >,75)7< : => + <4W 753E : <7B,=,75)7< ?5 B7,& \$3'
%3,4 >' ,4: %>= ,5 >+' : <' = ' 5>[+,= =><,2' = 1 <<,5* 57>' C+ ' 5
Q[

for the 19326th (eff. 4-28-21) 21-9323-28 (218,922) 6-86079-27059 (654360) (659041 65367(t)
43 453, N >,75W 7<

?5&'<=> 5& +7C =><?%>?< 3 C+,>' 5' == ,5H?' 5%' = >+' =E=>' 4=
,5 C+,%+ C' 3,B' W : <,>,%?3 <3E >+' ,< 47< 3 &,4' 5=,75=W 5&
=: '%,G% 33E +7C ?>+7<,>EW'D: ' <,>=' 5& 257C3' &*' \$'%74'
< %, 33E =E4 \$73,F' &[5 =+7<>WC' 5' ' & k' 5& <2' 54' 5>[

I (-% (' (/ (J

+ ' >,>3' 7) >+ ,=: : ' < , => 2' 5) < 74 ; ?7>' ,5 >+' >' D>
W\$E >+' =, 5)' 4,5,=> >+' 737* , 5W +E?5
E?5 E?5*[E?5* <' H' %>= >+ > >+' C E >7 k' 33E + ' 3l >+'
C7<3& ,=>7 ' 5* *' C ,>+ >+' kC,=&74 7) & <25' ==[^P E >+ ,=W=+'
4' 5= >+7=' C+7 <' : ?=+' & ,5>7 >+' =+ &7C=W>+7=' C+7
<' & <2 =2,55' &W>+7=' C+7 <') <74 >+' +,<& 7<3&[+ ,=W
7) %7?<=' W, = >+' +,<& 7<3& ?5&' <=>77& 57> ,5 >+' : ' 17< > ,B' W
\$?> >+' +,<& 7<3& ?5&' <=>77& = : 73,>,% 3 : <71' %>W k+,<&
=74' >+ ,5* W 5 3' <5 > ,B' B, =, 75 7) >+' C7<3& >7 C+,%+ >+'
&' %7375,F' & 5 > ,75= 7) >+' KSOJ= 5& KSPJ= =: ,<' &W C7<3&
>+ > C = 47\$,3F,5* >7C <=& 3,\$' < > ,75[= : 7=>?3 5>
>+' 737* , 5W 4 + ?5' & \$E >+ ,= 5' ' &)7< ' 5& <2' 54' 5>W 5&
>+' : <,>,%?3 < : < D, = >+ > ,> =?***=>=)7< >+' 737*E[' ' 2,5*
C,=&74 >+ > %74' =) <74 & <25' == W7< : '<+ : = C+ > C' 4 E
& 33k >+' <' &l =: %' = ,=) ?5& 4' 5> 3)7< >+' 737* , = >+ > = ' ' 2 >7
' 5' < <' : < > ,B' 1?=>,%' [+ > C' 4 E G5& ,5 >+' = ' =: %' = ,=
C+ > % 33 2,5& 7) *' 5' < > ,B' < *' W 5& ,> , = >+ , = < *' >+ > , =
,4 : 7<> 5> = C' 3772 >7 + ' 3 5& <' : ,< >+' ,51?=>,%' = 7) >+'
C7<3& C' 3,B' ,5[?%+ *' 5' < > ,B' < *' , = 7) >' 5)7?5& ,5 >+'
=7%, 3 47B' 4' 5>= G*+> ,5*)7< ' %737* , % 31?=>,%' ,5 >+' 37\$ 3
7?>+ dB < ,7?=&E ,4 * ,5' &eW 5& , = 2' E >7 >+' &' 4 5&=)7<

)7%?= ,5 : <>,%?3 < C E 75 <': < >,75=[C,=+ >7 <*' W =
=7 4 5E 7>+' < + B' &75' W>+ > ,> ,= ,4: 7<> 5>)7< %+?<%+' =
57>>7 =+E C E)<74 ?=,5* k?5%74)7<> \$3' l3 5*? *' =?%+ =

)& " &)(1 -.) (

5 <'%' 5> > 32 * B' >7 =74' E7?5* =>?' 5>= 75 '%737*,% 3

,4\$ \$C' = 'D: 37,> >B' 7) >+' 3 \$7?< 7) \$3 %2 ,4\$ \$C' 5=W
5&<') '<<' &>7 >+, = =)7<4 7) 5' 7h%7375, 3,=4[,4\$ \$C' 5
3 \$7?<' <= C7<2,5*)7< +,5' = ' G<4= <' 7)' 5 ?5&' <: ,& 5&
C7<2,5* ,5 ?5=)' %75&,>,75=W %%7<&,5* >7 ,4\$ \$C' 5
3' *,=3 >7< C+7 , = %+ 33' 5*,5* +,5' = ' %74: 5, ' = C+7 <' 57>
&+' <,5* >7 37% 33 C= 5& \$?,=5* C7<2' <=[^R ' *3,*' 5> 4,5,5*
5& %75=><?%>,75 =>' : < %>,%' = ,5 : <>, %?3 < ,5%<' = ' : 733?>,75
5& %75> 4,5 >' C >' < =? : : 3, ' =W C+, %+ ,5%<' = ' = >+' <, =2 7)
&' <, 4' 5> 3 + ' 3+ 7?>%74' = 5& &, 4,5, =+ ' = 3B' 3,+77&
= ' %?<, >E^S + ' <, *+>= 7) C7<2' <= 5& <' =, &' 5>= <' 3=7 57>
<7>' %>' & &?' >7 3 %2 7) %%7?5> \$,3,>E C, >+, 5 >+' 5 >, 75 3
*7B' <54' 5>]

')> ?5%+ 33' 5*' &W, 5' ; ? 3>E 5& ?5' ; ? 3 : 7C' < <' 3 >, 75=
\$ = ' & 75 % + < %>' <, =>, % = ?% + = < %' 5& %737?< C7<2 >7*' >+' <
>7 &' +?4 5, = ' 5& =?=> ,5 ' D: 37,> >, 75[+ ' < %, 3, 5' ; ? 3>E
>+ > + = =7 * <' >3E 4 <2' & >+' 5 >, 75 3, &' 5>, >E 7) ,4\$ \$C'
\$7>+ \$')7<' 5& >+<7?*+7?> >+' %7375, 3 : ' <, 7& 57C)7<4=
>+' \$?, 3&, 5* \$37%2= 7) %75>, 5? 3 < %, 3, 5' ; ? 3>E ' B, &' 5> >7& E
,5 >+' <' 3 >, 75=+, : \$' >C' ' 5 \$3 %2 ,4\$ \$C' 5= 5& +, 5' =
\$?, =5' = 7C5' <=[< *? \$3EW >+' 5' *3,*' 5%' 7) <, *+>= 5&
<7>' %>, 75 7) \$3 %2 : ' 7: 3' ,5 ,4\$ \$C' \$E C' 3+>E +, 5' =
4, * < 5>= , = : <7: : ' & ? : \$E ,4: 3%, > < %, 3 +, ' < <%+E >+ >
< : ' < : '? >' = >+' ' D: 37,> >, 75W=? : : <' ==, 75W 5& 7: : <' ==, 75 7)
\$3 %2 : ' 7: 3' W C, >+, 5) <, % 5& <7?5& >+' C7<3&[5 >+, =
=>? >, 75W %<,>, % 3; ?' =>, 75>+ > <' = ' <%+ : <>, % : 5> =2' &, 5
>+' <, 5 << >, B' C =>+, =V

i + > &7' = >+' 3 %2 3B' = >>' < 47B' 4' 5> 5& >+'
&' %7375, 317?<5' E 4' 5)7< \$3 %2 : ' 7: 3' ,5 ,4\$ \$C'
C+7 <' 75 >+' =+ <: ' 5& 7) : 7B' <>E 5& < %, =4\ 7' =
>+' 47B' 4' 5> <?5 >+' <, =2 7) 753E 4' 5, 5*)?3)7< \$3 %2
< : ' 7: 3' ,5 ' =>' <5 %75>' D>= 7< , = >+, = 5 ' 5>>E : 7, 5> >7
)G<4 >+' <, *+>= 5& <' =7?<% = 7) \$3 %2 : ' 7: 3'
' B' <EC+ ' <' \j , \$, &[

%75B' <=,75[<74 >+' 737*,% 3 : ' <=: ' %>,B' W 4,=?=' & : 7C' < ,=
>+' 7?>C <& 4 5,) ' => >,75 7) =,5 d,5&,B,&? 3 5& %733' %>,B' e
C+,%+)< %>?'<' <' 3 >,75=+, : = 4?&, &,4' 5=,75 33EW>+ > ,=W ,> ,=
>+' ' 4\$< %' 7) 4 4 75 5& >+' <' 7<' >?<5,5* C E)<74
7&[^U ' % 5 = ' ' >+ ,= ' D: <' == ' & :: ,<,>? 33EW<' 3 >,75 33EW 5&
4 >' <, 33E[+ > \$' * ,5= :: ,<,>? 33E d,5 >+' + ' <=> 7) +?4 5,>Ee
= =,5)?)3 &' =,<' = >7 : 7== ' == : 7C' < 5& &74,5 >' W 4 5,) ' =>=
>+<7?*>+>' <' 3 >,75 3&E5 4,%=W 5& ' B' 5>? 33E ,5>+' 4 >' <, 3
>+<7?*>+>' ?51?=> 337' >,75 7) : 7C' < 5& <' =7?<' %' = [+, = 3 =>
, = >+' C E ,5 C+,%+ : 7B' <>E % 5 \$' ?5&' <=>77& ,5 >+' =: ,<,>? 3
=' 5=' W 7< < >+' < 4 7B' 4' 5> C E)<74 1?=>, %' %' 5>' <' &
=: ,<,>? 3,>E[

+ ' <' 1' %>,75 7) >+' 3,2' 5' == 5& ,4 *' 7) 7& ,5
5& >+' <' = ' ,75 7) B 3?' 5& *77&5' == 753E >7
' <> ,5 = ' %>,75 7) +?4 5,>E 4 ,5> ,5= = ' > 7) 37* ,%= >+ >
+ = +,=>7<,% 33EW 5& ,5>7 >+' : <' = ' 5>W4 &' =74' %74 4?5,>,' =
47<' & ,=: 7= \$3' [+ ' <' ,= 4?%+ ' D> 5> 3,>' < >?' 75 +7C
4,==,75 <E =7%, ' >E %733?&' & C,>+ 4: ,<' = >7 %75=><?%> < % ,=>
+ ,< <?+E >+ > C = >+' 5 ,4: 7=' & 75)<,% 5W)<,% 5
&' =% ' 5& 5>W 5& 3=7 ,5& ,* 57?=: ' <=75= ,5 >+' %7?5>,<' = >+ >
C' <' %7375,=' & \$E >+' ?<7: ' 5 %7375, 3 : <71' %>[^{KK} 5'
' D 4: 3' ,= >+' ?>%+ ?&,B >,75 =E=>' 4 >+ > C = &' : 37E' & ,5
B W ?4 < 5& ,5 + = =)7<' %' & %<7: &' 3,B' <E =E=>' 4
>+ > ' D>< %>' & %7))' ' W =? * < 5& ,5& ,* 7 ,5 >+' 5,5' >' 5>+
' 5>?<E[^{KL} ?%+ =E=>' 4 = =>< ,G' & 3 \$7?<' <= ,5>7 k&' *' 5' < >
>E: ' =| C+7 C' <' >+' 5 =? \$1' %> >7 B <,7? = =E=>' 4 = 7)
&4,5,=>< >,75 5& ,5=><?%>,75 &' : ' 5&' 5> 75 % >' *7<,F >,75[^{KM}
' == ' ?* 4\$,Wconnecting colonial legacies to climate injustice, points

to how this created a problem of *imbalance* wherein it is not that there is ignorance of poverty, but the subsummation to a culture of disposability that ensures that there is no political or moral will to transform a system that keeps some poor and others rich.¹⁴

The abundant literature shows how complicit churches have been in propagating this system because of a political choice for the search of wealth and profit (Mammon), and thus turned away from the face of God. The

most horrendous manifestation of which was the Papal Bull, the Doctrine of Discovery, which established a religious, political, and legal justification for colonization and seizure of land not inhabited by Christians. Two papal bulls, in particular, stand out the first, issued by Pope Nicholas V "Romanus Pontifex" in 1455, granting the Portuguese a monopoly of trade with Africa and authorizing the enslavement of local people; and the second, issued by Pope Alexander VI, the Papal Bull "Inter Caetera" in 1493 to justify Christian

>+' 5 C' C,3 3=7 3 \$7?< >7 =+ <' >+' <' =7?<%' = 7) 7?<

: 7=>%7375, 3 C+' 5 C' =>,3 5' ' &>7 \$' *,> >7<=[5 : <,>%?3 <W
C,=+ >7 <*'?')7< 3,\$' < >,75 3 >+' 737*E >7 <' % :>?'<' 7< <' h
<' 4' 4\$' < ,>|= 5>,%7375, 3 ,4:<,5> 5& >+?= %75>,5?' >7
4 ,5> ,5 ,>|= ,&' 5>,>E = 47B' 4' 5> 7) <' =,=> 5%' 5&
=73,& <,>E[5 >+ ,=W 4 *?,&' & \$E <' 4 <2 \$3' => >' 4' 5> ,5
= % 473 l= '== E i ,4')7< 5>,h%7375, 3 +' 7<Ej[772,5*
> >+' 75*7,5* C7<2 >7 <' %7B' < >+')<,% 5 5>,h%7375, 3
<%+,B' W+' 57>' =>+ >>+ ,= C7<2 ,= ,4: 7< 5> \$' % ?='
i +' =' B7,%' = <' : 7' >,% E' > =><,&' 5>W>+' 7<' >,% 3 \$?>
,44' &, >' 3E : < %>,% 3>7 >+' : <,>%?3 <,>' = 7) (<44.443(5)2.034

5>,%7375, 3=4 ,= > 75%' = ' > 7) ' B' 5>=W +,=>7<,% 3 : <7%' ==
5& = ' B' < 3=7%, 3 4 7B' 4 ' 5>=W 5& ' 4 : 37E' & &,B' <= ' 4' >+7&=[
5>,%7375, 3>+7? * +> 337C=)7<>+ ' 5 3E=,= 7) >+7= ' B7,%' = C+7
<>,%?3 >' 5& * < : + >+,= =><? * * 3' >+<7? * + C<,>,5* d\$7>+ : <7='

+ - /")(.)2< (%=
%= 0&/0- . %

+ ' 47=>)?5& 4' 5> 3)7<4 7) >+, = =73,& <,>E 4?=> \$'
<' : < >,75=W 5& >+, =, = % 3>+ >%+?<%+' =% 5 57 375 *' <))7<&

>+' 2'E 47B' 4' 5> 7) <' : ' 5> 5%' [' : < >,75 +' <' ,= : <> 7)
<' : ' 5> 5%' 5& 4?=> \$' <' =>7< >,75 7) C+ >' B' < + = \$' ' 5
&' 5,' & 7< > 2' 5 C E =?%+ = 3 5&W3' &' <=+, : W7< ,5&,B,&? 3
<,*+>=[' <' W<' : < >,75 ,= 3=7 %755' %>' & >7 >+' =: ,<,>? 3 5&
>+' <' 3 >,75 3[+' 737*, 5=)<74 >+' 37\$ 3 7?>+W =
)7<' 4' 5>,75' &W> 32 \$7?> >+' ?<*' 5> % 33)7< %75)' ==,75 7)

&' B' 37: 4' 5>LJLL\ 5`JQ'F,4\$ \$C' h%+,5 h4,5' =h: 73?>,75h
' B,%>,75=p[

S[k +,5'=' 75>,5?' ,5,5* 3 %2 < 5,>' ,5 ?>727W
,4\$ \$C' W 4,& ?4 5 ,*+>= 75%' <5=IW
WLO %>7\$' < LJLL q+>>: =f' <+17?<5 3=4[5' >'=>7<,' ='
%+,5' = ' h%75>,5?' h4,5,5* h\$3 %2h* < 5,>' h,5h4 ?>727h
F,4\$ \$C' h 4,&h+?4 5h<,*+>=h
%75%' <5=ZWr'b' D>o 7% 3=sLJ 3' *' sLJ+> sLJ=74' sLJ +,5'
=' W)sLJ sLNNJsLJ: ' <sLJ475>+|p[

KJ[[[5 C 5 W
d 75&75W V <' ==W LJLLe[
W ' &[\$E 7' <* , ' *' <
d ,55' : 73,=V 7<<' == <' ==WKSSRe[

KK(' >' < <?%+3' EWk ,3' 5> 7 75*' <V + ' 77>= 7) % ,=4 ,5
,==,75W W QL[K dLJLJeW SRgKJQ
q+>>: =f' &7,[7<*`KJ]KKK' <' B]KLNSJp[?2 <, W 5&<' C > 5E [

[5&<' C > 5E ?2 <, WLJLJ[<' EW ,3 <E
[
[4\$<,&* ' 5,B' <=>E <' ==W LJKK[<,4=+ CW
><,% W 5& 3F \$' >+ ' 3=75[i 4: ,<' W + ' ,B,3,=,5*
,==,75l 5& 5&,*' 57? = +<=>, 5 74' 5 ,5 7375, 3
,%>7<, [j KPW57[MP dLJJKeW LSOhMJS[
?== ' 3W 5<; ?' [
[4[[' <&4 5=
?\$3,+,5*W KSRK[>+' <,5*>75W 7<4 5W ' &[
[D)7<&WLJJO[

KL[7=4 W 3\$' [
[>?&,' =,5 74: < >,B' 7<3&
,=>7<E[4\$<,&* ' V 4\$<,&* ' 5,B' <=>E <' ==W LJKM[
&7,WJ]KJKQ' SQRKKMSPLPMLM[

KM[%+< ?C' <=W 3\$' <[i + ' k ' 5' B73' 5>l 7375,' = 7) 7+ 55' =

KLN w k ' ' & 5& <2' 54' 5>)7< +,3' l

5 '5 7=%+V 75>5?,>,' = ,5 >+' &4,5,=>< >,75 7) 7B' <>E
,5 >+' ' >+' <3 5&= 5& 5&75' =, [j

NMW 57[L dLJJkV LSRgMLR[&7,KJ[KJKQ`

JJKJNKQOJKJJMOJN[

KN[?* 4\$,W '==' [i >+,% 3 'H' %>,75=j
VPK[

W h

772 ' <,' = d 7\$72' 5W V ,3' EWLJLJe

LL[?1 > >' 3W k 5>,h 7375, 3 +7?* +> 5& 37\$ 3 7%, 3
+' 7<EiW WR dLJLMeMKNMQQP q+>>: =V`&7,[7<*<
KJ[MMRS')=7%[LJLM][KKNMQQPp[' => &W && <5'W ' &[W k +'
' B73?>,75 <,' =V 5>,%7375, 3 73,>,%= 5& < 5=>7<4 >,75=iW,5

d 4\$<,&* ' V 4\$<,&* ' 5,B' <=>E <' ==W
LJJ0eW : : [OMgKJS q+>>: =V`&7,[7<*<`KJ[KJKO`
SQRJOKKRKQSSK[JJNpW \$+ C7+W 755EW' &[Wk >,75 3,== 5&
5>,h 7375,==iW,5 W ' C : : <7 %+' = >7
)<,% 5 ,=>7<E d 4\$<,&* ' V 4\$<,&* ' 5,B' <=>E <' ==WLJKReW
: : [KMJgQL q+>>: =V`&7,[7<*<`KJ[KJKO`SQRKMSJJPJS0J[JJPP

LM[2,4 &,[[75&75 ' C 7<2
D)7<& ' C ' 3+, E&5' EV 3774=\$?<E % &' 4,%W LJKR[7
E 5*' 5 [i 747 ' 5E >> V 5 : ,>74' 7) 5&,*' 57?=- 5h
)<,% 5,=4W >,75 3,=4 5& 5>' 3' %>? 3 <7&?%>,75 ,5 ' 5E [j
PW57[KgL d ?3E LSWLJKJe[
+>>: =V`&7,[7<*<`KJ[MMKN` 1, [BP,KhL[OQLJM[

LN[Anon, *Front de Liberation Nationale de La Corse*. (Paris: LÔHarmattan, 2013.)

LO[5,3 ,5?\$ 5& ' 7<*' [') ' ,W' &=[

>>7<5'E '5'< 3u ,5,=>'< 7) 74')) ,<= 7) <\$ &7=lj
MOW57[L dLJJMeV

NKK[

LS[75< &,' W <5=>[i <74 3 5&'>)7<4 >7 : 77 : <7>' =>,5*V 74'
>+' 737*,% 3 <' H'%>,75= 75 >+' '%737*,% 3 <:' <%?==,75= 7)
'%7574,% ,5' ; ? 3,>Ej

R[

))+)-)/ /))+

*! && . & & \$

5><7&?%>,75

7 +7: ' 7< 57> >7 +7: '[5 >+' &,%?==,75= \$7?> >+')?>?<' ,5
>+') %' 7) >+' 4?3>,: 3' %<,,= C' <' 3B,5*W+7: ' ,>=' 3) =' ' 4=
>7 \$' ,5 %<,,=[+ >&7' = +7: ' 4' 5 7< 3772 3,2'\)>' <' B' <E
3' %>?<' * ,B' 75 %3,4 >' %+ 5*' >+' <' C,33 \$' =74' 75' C+7
< ,'= >+' ; ?' =>,75V = >+' <' 5E +7: ' 3')\ 5 *' 5' < 3W>+ >
; ?' =>,75 4' 5=V = ,> : 7==,\$3' >+ > ' B' <E>+,5* ,= *755 \$'
3,*+>\ > ,=' D %>3E >+ > ' D: ' %> 5%E ,5 >+' ; ?' =>,75)7< +7: ' W
>+ > 4 2' = ,> 4\$,*??7?=[5 C' = E >+' <' ,= 5E +7: ' 3')>W,))
,> ,= ?<' >+ >>+' =,>? >,75 ,= 57> *755 \$' 33<,*+> 5E47<' \)
5&,) C' = E >+' <' ,= +7: ' 5EC EW <' C' &' 3?&,5* : ' 7: 3' \ <
&7 C' + B' >+' > =2>7 <' >+,52 +7: ' C,>+ : "7: 3' W = C' 33

„Gf d •à2ç %d“! “h†• !™•D ö G

<' \$' 3,75[7: ' % 5 \$' = ' ' 5 = 5 3E 7< 5 7: : 7=>' 7) ?>7: , W
5&W = ' <<E *3' >75 : ?>= ,> ,5 +,= \$772

%75%3?&' C,>+ =74' <' H' %>,75= \$ =' & 75 4E 'D: '<,' 5%' ,5
>,5 4' <,% [

)&/' ((K. . ! /)&) 4

7< A<*' 5 73>4 55W' =%+ >737*E ,= >>+' +' <> 7) +<,>, 5
) ,>+WC,>+ +7: ' =,>= ' ==' 5>, 3' 3' 4' 5>V

i =%+ >737*E 4' 5= >+' &7%<,5' 7) >+' +<,>, 5
+7: 'WC+,%+ ' 4\$< %' = \$7>+ >+' 7\$1' %> +7: ' &)7< 5&
3=7 >+' +7: ' ,5=: ,<' & \$E ,>[<74 G<=> >7 3 =>W 5& 57>
4' <' 3E ,5 >+' ' : ,37*?' W +<,>, 5,>E ,= '=%+ >737*EW ,=
+7: 'W)7<C <& 3772,5* 5&)7<C <& 47B,5*W 5&
>+' <')7<' 3=7 <' B73?>,75,F,5* 5& × 5=>7<4,5* >+'
: <' = ' 5>jl⁰

<' B73?>,75 <E : 7>' 5>, 37) +7: ' W,> ,= \$' % ?=' ,> + = >,' &

,> > 2' = >+ > <' 3,>E = '<,7? = 3E[+, =, = >+' : : ' 3 7) 7>4 55y=
,5>' <: <' > ,75 7) +7: ' W 3=7 ,5 >+' C 2' 7) >+' %3,4 >' %<,=[' '
C <5= ?= 7) <74 5>,%, =,5* 5 >?' <' 7< : ?>>,5* 7?<<?=> ,5 3>77
+?4 5 ?>7: , W = >+' 7<&' < 7) 5 >?' <' + & \$' ' 5 ?=' & >7 1?=>,)E
' >+5,% %3' 5=,5*W 5& ,>3' <y= +,<& ' ,%+ = 2,5& 7) ?>7: , [
5 >+' = 4' = ' 5=' W 7>4 55 <' 1' %>= 5E C E 7) 5 >?' < 3,=,5*
>+')7<% = 7) ' B,3 = : <> 7) 7&y= : 3 5 5& <' >?<5= >+' 4 >7
C+' <' + ' = ' ' = >+' ,< % ?=' V,5 +?4 5 =,5)?35' ==[7: ' 3' ==5' ==
)7< 7>4 55 ,= >>+' ' ==' 5%' 7) >+, =,=,5)?35' ==V
i 7& +757<= +,4 <+ ' +?4 5 : '<=75W B e C,>+ +,=
: <74,=' =W\$?> 4 5 &7' = 57> \$' 3,' B' +,4=' 3) % : \$3' 7)
C+ > ,= <' ; ?,<' & 7) +,4[+ > ,= >+' =,5 C+,%+ 47=>
: <7)7?5&3E >+<' >' 5= >+' \$' 3,' B' <[> ,= 57> >+' ' B,3 +'
&7' =W\$?> >+' *77& + ' &7' = 57> &7W57> +, = 4, =&' ' &= 7)

C 32W I33 5' B' <<' %+,>[7WC+ >|=>+' : 7,5> 7) ?>7: , \ +': 7,5>
,=>+,=V>7 2' ': C 32,5*J^{KP}

7C' B' <WC+ >+ : : ' 5=,) +?4 5 =%, ' 5>,G% ' B,&' 5%' >' 33= ?=
>+')?>?'<' ,= ><,>2\ + > &7' = 7&y= : <74,=' 4' 5 ,5 >+, =
=>? >,75V+7C) < ,= ,>)<74 \$' %74,5* &' 3?>,75\ 73>4 55
&7' =5y> * ,B' ? : 75 >+, = '%+ >737* ,% 3>' 5=,75Vi,) C' 25' C >+ >
C' %7?3&5y> =?<B,B' WC' C7?3&5y> &7 5E>+,5* >7 B7,& ,> ,5
<' >?<5W,) C' 25' C C' C7?3& =?<B,B' WC' C7?3&5y> &7 5E>+,5*
' ,>+' <[53E C+' 5 >+')?>?'<' ,= 7: ' 5 >7 \$7>+ : 7==,\$3,>' = g 5&
C' <' % 33' &W%' <> ,53EW>7 &7 >+' 5' %' == <E ,5 >+, = ,>4' >+ >
C' % 33 i>7& Ejh ,= ,> : 7==,\$3' >7 %+ 5*' C+ > % 5 ' 5=?')7<
33J^{KO} + ' 5 + ' : 75&' <= >+' 4' 5,5* 7) +?4 5 ' D,=>' 5%' ,5
>+') %' 7) : 7==,\$3' %733 : = ' W+' %3,5* =WC, >+ 93&' <3,5W>7 7&y=
: <' = ' 5%' 5& : <74,=' Vi 37=' ,= 7&W+7C' B' <&,)G%?3> + ' ,=>7
' : <' >' B' [?> C+' <' >+' <' ,= <,>=2W+' 3: 3=7 =: <,5* =J^{KR}

3>+7?*' + >+, = ?5%75&,>,75 3 <>?=> ,5 >+' + ' 3: 7) 7& % 5
,5&' ' & =?=> ,5 ?= ,5 >+' 47=> &,)G%?3> >,4' =W 73>4 55y=
)?>?'< h7<' 5>' & ,4 *' 7) 7&W>7*' >+' < C, >+ +, =)7%?> 75 >+'
>75<> => 7) >+, =)?>?'<' C, >+ 33 >+ > ,= ,5 %<' >,75W 4 E \$'
>74: 3,% >' & ,5 >+' = ' <,+)7< 5 : : <' % ,>,75 7) >+<' >' 5' &
3)' ,5 ,>= 4?3>: 3')7<4=[73>4 55y= >+' 737*EW =)7?5& ,5
W <' 1' %>= >+' = %<' &5' == 7) 5 >?'<' 5&
&7' =5y> %75%' ,B' %,<%?3 <>,4' WC+,>+, = 75' 7) >+' &,) <' <' 5%' =
\$>C' ' 5 +<,>=, 5,>E 5& C7<3& B, C= 7) ,5&,*' 57?>= : ' 7: 3' [
&,) <' <' 5%' >+ > =>,33 3' &= ' B 5*' 3,% 3 %+?<%+' = >7 %?>='
,5&,*' 57?>= : 7: ?3 >,75= 7) 5,4,=4 7<= > 5,=4[

5 4E 7C5 = ' <,+)7< +7: ' ,5 7?<>,4' =W + B')' 3>+' 5' ' &
>7 %74: 3' 4' 5> 73>4 55y= B, CW=7 %74 475 ,5 4E 7C5
: <7>' => 5>>< &,>,75WC, >+ =74' 7) >+' ,5, *+>= 7) 7>+' <=: ,<,>? 3
>+,52' <=[%75%' 5>< >' 75 >+' %75><,\$?>,75= 7) 7 55 %EW
&?&+,>= ' %737* ,=>W 5& +<,>= 7+5=>75' W,5 >+' ,< \$772
%E ,= 57> >+' 737* , 5W 5& + ' < \$772 ,= ' : ' % , 33E
)7%?>=' & 75 7?< %75>' D>W\$?> * ,B' = 7>+' < %3?' = 75 +7: ' >+ 5
73>4 55 &7' =W 3=7 ,5 +, = 47<' <' %' 5> C7<2[+ B')7?5& ,>
57?<,>+,5* >7 4 2' >+' = ' >C7 : 7=>,75= 75 +7: ' & , 37*?' [

KMN w 7 7: ' 7< 7>>7 7: '

) ((4 (/! !)") 9.34 I hW n/R1I)

>+<' >' 5' &)?>?<' [i 7& C,3)??3G33 +,= : <74,=' j % 5 =7?5& =
57>=?%+ =7?5& : =>7< 3 &B,%')7<=74' 75' %75)<75>' & C,>+
'%7h 5D,'>E[5>+ >=' 5=' W %E 5& 7>+' < C74' 5 >+' 737*, 5=
4 2' B' <E 5' %' == <E %74: 3' 4' 5> >7 <&,75 3 : <7>' => 5>
<&,75 >+ > >' 5&= >7 \$' B' <E < >,75 3[' 5' '& >7 > 2'
' 47>,75= =' <,7?=&E ,5 >+' C E >+' E +' 3: ?= 7< : < 3EF' ?= ,5
+7: ')?3 %>,75[
%E =: ' 5&= %+ : >' < 75 C+ > ,= \$37%2,5* ?= >7 %>W 5&
+7C 3772,5* C E 5& +,&,5*)<74)' <: < 3EF' =?=V
i ' % 5 \$' % ?*+> \$' >C' ' 5 >C7)' <= g >+')' < 7)
C+ > C,3 + : : ' 5 ,) C' W = =7%, '>EW%75>,5?' >+' C E
C' y<' *7,5* 5& >+')' < 7) %257C3' &*,5* +7C \$ &
>+,5* = <' \$' % ?=' 7) >+' &' =: ,< >+ > &7,5* =7 \$<,5* =
?: [) C' 3,=>' 5 >7 >+' G<=>)' <W,>% 5 : <7B72' <' =: 75=' =
>+ > ,& 7?<=?<B,B 3 \$?> >7 \$' 5' G>)<74 >+,= C 2' h?:
% 33WC' C,35' ' &>7)<' ' 7?<=' 3B' =)<74 >+' =>,H,5* '))' %>
7) >+' =' %75&)' <[+<' <' C E=>7 &7 >+,=jL^K
%E=?**' =>+757?<,5* 7?<: ,5 \$7?> >+' &' =><?%>,75 7)
>+' ' 5B,<754.' 5> 5& 'D: <' == ,>[= C' <' 5 ,5>' * < 3: < 7)

%37=' < >7 >+<' =+73& C+' <' =74' >+,5* %<E=> 33,F' = dXe %+
>,4' C' > 2' =>' :)7<C <&WC' &75y> 257C +7C >+,= %>,75
C,33,5>' < %>C,>+>+' %>,75= 7) 7>+' <=>7 %<' >' 5 ' 5>,<' 3E 5' C
=' > 7) %,<%?4=> 5%' =[dXe +,3' C') %' >+' B' <E <' 3 & 5*' < 7)
% > =><7: +,% %733 : =' WC' % 5 3=7 \$' : 7,=' & 75 >+' ' &*' 7)
4 17<' B73?>,75 <E 3' : j|

5&57>' =

K[75, <,7Wi ' 3 &' <<7> 37= &' <<7>' <7=j[5V
W d 5>, *7 &' +,3' V ' 75&' ,: 374 >; ?' W
LJLMeWLM[

L[' <<E *3' >75W W d 75&75V 3'
5,B' <=,>E <' ==eWLJKOW h\$772W + > ,= +7: '\W: <<[M[

M[<?57 >7?<W

Wd ?' 57= ,<' =V ,*37 DD, ' &,>7<' =eWSK[

N[*' 3>75W W +' 5 3,>E 7)
: >,4,=4W h\$772W: <<[K[

O[*' 3>75W W +' 5 3,>E 7) : >,4,=4W
h\$772W: <<[R[

6. Eagleton, *Hope without Optimism*, What is hope?, E-book, parr. 19.

Q[A<*' 5 73>4 55W W d ' C 7<2 5&
B75=> 5V <: ' < u 7CeWKSPOW h\$772V +>>: V`4' &, [= \$& [7<*`
32,> \$hL` '3*,75h 53,5'[7<*sLJ 772=
73>4 5sL sLJ ?<*' 5sLJhsLJ +' 737*EsLJ7)sLJ 7: '[: &]

WP[

R[73>4 55W W h\$772VP[

S[73>4 55W W h\$772VR[

KJ[A<*' 5 73>4 55W W h\$772VKK[

KK[73>4 55W W h\$772VKL[

KL[73>4 55W W h\$772VKL[

KM[A<*' 5 73>4 55 E ' 75 <&7 7))W
Wd 5> 5&' <V 3 ' << ' WLJKOeWKS d< 5=3 >,75 \$E ?>+7<e[

KNL w 7 7: ' 7< 7>>7 7: '

KN[A<*' 5 73>4 55W

Wd 3 4 5% V .*?' 4' WSSJeWLPPhLR[

KO[*' 3>75W

W +' 5 3,>E 7)

: >,4,=4W h\$772W: <[KM[

KP[&? <&7 3' 57V +>>: =f`CCC[*77<' &=[%74` ; ?7>' 3`

MPSQSOh?>7: , h,=h75h>+' h+7<,F75h,h4'7B' h>C7h=>' : =h%37=' <W

B,=>' & JlhJOhLJLM[

KQ[73>4 55 E 7))W

MQW

d< 5=3 >,75 \$E ?>+7<e[

KR[73>4 55 E 7))W

NOW

d< 5=3 >,75 \$E ?>7<e

KS[7 55 %E 5& +< ,= 7+5=>75' W

W d 7B >7

3,)7<5, V ' C 7<3& , \$< <EeWLJKLW h\$772[

LJ[%E 5& 7+5=>75' W

h\$772W + :>' <K[

LK[%E 5& 7+5=>75' W

h\$772W + :>' < NW

7<2,5* C,>+ ?< '=: ,<)7<>+' 7<3&W: <[N[

LL[%E 5& 7+5=>75' W

h\$772W + :>' < NW

5)7<4 >,75 ,=57> 57?*+W: <[0[

LM[%E 5& 7+5=>75' W

h\$772W + :>' < M[

LN[' 4 ' 5&' 3W

LP[%E 5& 7+5=>75' W h\$772W + :>' <S[
LQ[%E 5& 7+5=>75' W W [h\$772W + :>' <KJ[
LR[%E 5& 7+5=>75' W W [h\$772W + :>' <KJW + '
+ ' 574 ' 575 7) ,=%75>,5?7?= + 5*' W: <[0[

KNN w 7 7: ' 7< 7>>7 7: '

S[

O(("(4)O-

4 ,!' & ' & ' \$ &!+ ,!' & , *' - ,
+) ' &+ ' , * + 1, *! & - * ' +,
*! 9+ \$ & *! % *! & !, * *1! ' &
- !/ !' & 9'

' !#-1-

(/-) 0 /") (< 0 " 2 !)(J) (/!
\$ /") () ! -." /" (" /4

+ ' 5 *?*, C +,75*17 C = ,5B,>' & >7 \$' >+' *?' =>=: ' 2' <
> >+' <'=\$E>' <, 5 +?<%+ 7) =>)<,% d e %75)' <' 5%'
,5 KSOJW,> % 5 \$' : <'=?4' & >+ > >+' ,5B,> >,75 C = &75' C,>+
>+' ?5&' <=> 5&,5* >+ >+' C = +<,>=, 5[?> >+' ,5B,> >,75
C = 3=7 \$' % ?=' 7) +,=) 47?= 3,>' < <E =%+73 <=+,: C,>+5 >+'
>+)<,% <' *,75[+<7?*+ +,= 3,>' < <E C7<2= >+ >1?D> : 7=' &
)<,% 5 5& '=>' <5 >+' 4' =W *?*, C = =: ' 2,5* ,5>7
%75>' D>,5 C+,%+ >+' %+?<%+ C = ; ?,>' > >+' %' 5>' <[> C = >
>+,% %75)' <' 5%' >+ > *?*, &' %3 <' & : ?\$3,%3E >+ >+' C = 57>
+<,>=, 5W 5& =?=\$=' ; ?' 5>3E \$ 5&75' & +,= +<,>=, 5 5 4'
4' =[7+5 575\$EW =>?&' 5> 7) >+' 737*E 5& 3,>' < >?' <
C<7>' W

i %75B' 5, ' 5> ,5><7&?%,75 >7 *?*,|=
&,' 5%+ 5>4' 5> C,>+ +<,>=, 5,>E % 5 \$')7?5& ,5 +,=
C,&' 3E : ?\$3,%F' & =: ' ' %+ >7 >+' ,)>+ ' 5' < 3 ==' 4\$3E
7) >+' <'=\$E>' <, 5 +?<%+ 7) =>)<,% ,5 ,<7\$, 75

?55,5* E7?< %' w KNO

<%+ K LW KSQJW C+,%+ : : ' <' & ,5 5 ' == E ' 5>,3' &W
i +?<%+W ?3>?<' 5& 73,>,%=j ,5 *?*,l= =>)<,%
7?<5 3 7) B 5* ' 3,% 3 +' 737*E 74' %74,5*[5 >+,=
&&<' ==W+' 4 2' = 5?4\$' < 7) =C' ' : ,5* ,5&,%>4' 5>=
* ,5=> +<,>, 5,>EW>C7 7) C+,%+ <' : ' <>,5' 5>[' = ' =W
G<=>W i%75>< &,%>,75j \$' >C' ' 5 +<,>, 5,>EW iC+7='
\$ =,% &7%><,5' C = 37B' 5& ' ; ? 3,E \$' >C' ' 5 4' 5j 5&
C+ > +' <' * <&= = ,>= ?5+73E 3, 5%' C,>+ %7375, 3,=4W
iC+,%+ ,5 ' 5E C = \$?,3 75 >+' ,5' ; ? 3,E 5& + ><' &
\$' >C' ' 5 4' 5 5& >+' =? \$=' ; ?' 5> =? \$1? * >,75 7) >+'
\$3 %2 < %' \$E >+' C+,>' < %' lj , = '%75& % B' > , = >+ >
i +<,>, 5,>E =' > ,5 47>,75 : <7%' == 7) =7%, 3 % + 5*'
,5B73B,5* < : ,& & ,5>' * < >,75 7) >+' ><,\$ 3=' >h?: 5& >+'
)< 4' C7<2 7) =7%, 3 59M(C)15.9E 1(C)183(<)9.06664<7 0 461,5

)7<4' < %7375,'=[7C' B' <W,> =' ' 4= >+ > >+' <' C = 347=>
*' 5' < >,75 ,5 C+,%+ >+' ;?' =>,75= 7) &' %7375,= >,75 >+ >
*?' , < ,=' & + & \$' %74' 4?' &W 7< : ' <+ : =WC' \$' % 4'
5?4\$ >7 ,> = 5 ,==?'))' %>,5* =7%, '>E[< %7?3& ,> \$' W>+ >
1?=> = *?' , C =)7<%' & ,5>7 ' D,3')7< +,= %<,>%,=4 7) >+'
7B' <54' 5> ,5 +,= 3,>' < <E C7<2=W=7 >77 C = >+' %+ 33' 5' >7
>+' => >' 5& ?= \$7?> C+7 C' C' <' ,5 >+' : 7=>h%7375, 3
&,=: ' 5= >,75[5& C,>+ >+ >W &,& >+' %+?<%+ 4,== 5
7: : 7<>?5,>E>7 <' ,4 *5')?>?' <')7<,>=: ' 7: 3' \

+ ' =%<,: >?' <' = <' %7<& >+' 5' ' &)7< ?= >7 \$' =' 5=>,B' >7 >+'
& E 5& >,4')7< %+ 5*' W 5& >7 <' =: 75& >7 >+' =' =75[5
' D 4: 3' ,= >+' <')7< ?=)<74 >+') 4,3,' = 5& C <<,7<= C+7
' 53,>' & >7 17,5 B,&)>' <+' C = \$ 5,=+' &)<74 >+' : <' =5%'
7) ,5* ?3 %+ C = 3,>' & C,>+ >+' ,< ; ? 3,>' =W\$?>)7< 75'
) 4,3E ?5,; ?' ; ? 3,>E =>77& 7?>W = K +<75,%3' = KLV ML : ?>=
,>Wi <74 == %+ <W 4' 5 C+7 ?5&' <=>77& >+' >,4' = 5& 25' C
C+ > =< ' 3=+7?3& &7f LJJ %+,')=WC,>+ 33>+' ,< <' 3 >,B' = ?5&' <
>+' ,<%74 4 5&j

NJ E' <=)>' < *?' , C +,75*17 =: 72' \$7?> &' %7375,=,5*
>+' 4,5&WC' 5' ' & : ' 7: 3' C+7 57> 753E ?5&' <=> 5& >+' >,4' =W
\$?> : ' 7: 3' C+7 3=7 257C +7C >7 <' =: 75& >7 >+' 5' ' & 7)

8? !)(/-" 0/") ! -"./" ("4 /)
' +"-

5 =74' C+ > : 737*' >, % ><' >, = ' W 5& = ' ' 4, 5*3E, 5 &')' 5= ' 7)
=74' 75' C+74 + ' = ' ' 4=>7 <' B' <' W , &' 3, = 274 F 5 C<7>' W
i , B, 5*=>75' \$' 3, ' B' & >+ > +<, =>, 5, >EW%74 4' <' 5&
, B, 3, F >, 75 + & , 5>' <' => , 5 %74 475W 5& %7?3&
>+ '<')7<' ?5 =+ 4' &3E=? : : 7< 75' 57>+ '< ' <*' &
>+ > >+ '< ?5, >' & '))' %> C7?3& , 4: <7B' >+ ' 3)' 5&
> : <7=: ' <, >E 7))<, % 5=W =>' 4 >+ ' 37== 7) : 7: ?3 >, 75

&>?]TJ : 7: ?09.5263) ' 5=W ' 7%, ' 3.9778526%B

had their benefits. But we must hear Ngugi and his rejection of Christianity alongside the other Cs and ask whether he had a point.

+ ' 4,==,75 <' = '=' 4' & >+' 47=> %744, >>' & 7) >+' * <7?:
,5' &?% >,5* 37% 3 %744?5,>,' = ,5)<,% [> C = >+' 4,==,75=
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%7375, 3 >,4' = ,5 ' 5E \$' % ?=' ' &?% >,75 C = '=' 5>, 3)7<
>+' ,< ' B 5*' 3,% 3 C7<2 5& >+' << ,5,5* 7))<,% 5=>7 > 2' ?:
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>7 4,==,75 \$' % ?=' >+' <' C = 57 *7B' <54' 5> &' : <>4' 5> >7
%7h7<&,5 >' ,> ?5>,3 KSKK[7 >+' 4,==,75= ' => \$3,==& >+' ,< 7C5
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<' ; ?,<' & >+ > 3 => 75' %+,3& \$' = 5> >7 =%+773)<74 ' B' <E
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%?3?<' [7> 753E &, & >+' 3 5*? *' = ' > >+' 4 : <>W\$?> =74'
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i?5' &?% >' &j 4' 4\$' <= 7) >+' ,< %744?5,>,' = [>' < 5& ,5>7
>+' >> ,54' 5> 7) ,5&' : ' 5&' 5%' W4 5E 7) >+' = ' &?% >' &)732
C' 5> 75 >7 \$' %74' % ,B,3=' <B,%' 7)G%, 3= 5& C, ' 3&' & 4' =?<

+ ' 4, =, 75 < , ' = ' ' 4' & ' ; ? 33E & ' > ' < 4, 5' & > 7 ' < & , % > ') < 74 > + ' 37% 3 = 7% , ' > , ' = > + ' < & , > , 75 = 5 & : < % > , % ' = > + ' E > + 7 ? * > + C ' < ' % 7 ? 5 > ' < > 7 > + ' + < , > , 5 > ' % + , 5 * [+ ' E & , < ' % > 3E 7 : : 7 = ' & : 73E * 4E C + , % + % 5 \$ ' < * ? ' & C = % < , > , % 3 , 5 > + ' ' % 75 74 , % => < ? % > ? < ' \$ ' % ? = ' > + ' 3 \$ 7 ? <) 7 < % < ' > , 5 * 5 & = ? => , 5 , 5 * C ' & + % 4 ') < 74 C , > + , 5 > + ') 4 , 3E g C + ' > + ' < , 5 > , 3, 5 * > + ' 3 5 & 7 < , 5 % < , 5 *) 7 < > + ' 3, B' => 7% 2 75 > 7 : 7) 7 > + ' < & 74 ' => , % , = ? ' = [> = + 7 ? 3 & \$ ' 57 > ' & > + > 75 ' & , & 57 > 4 < < E : 3 ? < 3 C , B' = ,) + ' & , & 57 > + B' > + ' C ' & + > 7 > 2 ' % < ' 7) > + ' C ,) ' 5 & + ' < % + , 3 & < ' 5W 5 & > + > + ' E , 5 > ? < 5 \$ ' % 4 ' < ' = 7 ? < % ') 7 < , 5 % < ' = , 5 * > + ' C ' & + 7) > + ') 4 , 3E [5 > 7 : 7) > + ' , < 7 : : 7 = , > , 75 > 7 : 73E * 4EW = 7 > 77 C = > + ' ? = ' 7) < & , > , 75 3 \$ < ' C = C + , % + C ' < ' = ? % + % < , > , % 3) ? 5 % > , 75 7) = 7% , 3 , 5 > ' < % > , 75W 47 => 3E ' 517E ' & \$ E = ' 5 , 7 < = 5 & > + ' ' 3 & ' < = 7) > + ' % 74 4 ? 5 , > E [< ? 52 ' 55 ' = = C =) < 7C 5 ' & ? : 75 5 & > + ' education during rites of passage was critical in teaching temperance in the use of alcoholic brews The missionaries were vehemently opposed to alcohol for any who professed to follow the faith.

The net result was that a section of the community became alienated. In these societies, life was a communal affair and therefore social constructs were also communal. These functioned around rites and ceremonies, most of which revered or at least invoked the ancestors in worship. The process of Christianization sought to eliminate this connection, labelling it as pagan and contrary to the Christian way of living. Christianity through the missionary teachings introduced parallel ways of living and a separate set

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>+')<,% 5[5 7?<%?<<' 5> %75B' <= ,75 75 &' %7375,F >,75W>+'
,4: %> 7) ,5&,*' 57?=: ' 7: 3' \$' ,5* 3,' 5 >' &)<74 >+' ,< <77>=
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' D: <' ==,75 \$E <' >?<5,5* >7 +,= 47>+' <>75*?' [+ > 5& +7C
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) %+ 5*' ,>= ' 3) ,= B, <>?7?=[>+' <W, > 4' 5= %+?<%+ >+ >
is committed to the transforming power of the gospel and grounded
in the supreme authority of Scripture will always be scrutinising its
practices through these complementary lenses.⁶

+ > ,= >+' : 7=>,75 >+' %+?<%+ G5&= ,>= ' 3) * ,5 >7& E[%' &
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7)Wi75' 7<&W75') ,>+W75' \$: >,=4_75' 7& 5& >+' <7) 33W
C+7 ,= 7B' < 3 5& >+<7?*' + 3 5& ,5 33W B,, ,= =+' C, 3,5* >7
) %' +' <= ' 3) ,5 3, * >7) =%<, : >?<' \ + ' ')7<4 >,75 > ?*+> ?=>+'
C E[5& ,) >+' %+?<%+ ,= C, 3,5* >7 &7 =7 75%' * ,5W=+' % 5
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57C ,=) 4,5' ,5 >+' 7<5 7))<,% C,>+ 37== 7) 3,B' = 5&
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7) % 3 4,>,' =W,> ,= ?5&' <=> 5& \$3' >+ >=E4: >+E 5&' 4: >+E
\$'%74' &,> 5> ' 47>,75W 5& E' > >+ > ,= : <>3E C+ >
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' + B' ,5=>' & \$'' 5 >+<7C5 75 >+' 7>+' <' 5& 7) >+'
=: '%<?4[' + B' \$'%74' 47<' 5 >,75 3,=>,% >7 =)' *? <&
7?< \$7?5& <,' =W47<' < %,> >7 : <7>' %> 7?< ,&' 5>,EW* <' ' &,' <>7
=' %?<' 7?<)?>?<' W 5& 47<' ' 5><' 5%+' & ,5 7?< : 7=>,75=[>+ =
3' & >7 : 73 <,' & *37\$ 3 5& 37% 3 %74 4?5,>,' = [5& 57> ' B' 5

out of the two. That new humanity does not mean we forget the atrocities of colonialism by the British government which led to the death of thousands of people while fighting for freedom from colonial rule. That new humanity does not mean we ignore the cry for reparations to be paid for the loss of lives and livelihoods arising from colonialism and in some cases, slavery that was abetted by the instruments of the empire. It means that as we pursue

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N[+<,>,5' ,%+73=[)<,% 5 &?% >,75 ,5 <3E 7375, 3
' 5E w 3&)<,% * F,5' %>7\$' <K LJLL
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B' < >+ ' 3 => GB' %' 5>?<,' =W>+ ' <' =?3= 7) %7375,F >,75 5& ,4: 3,% >,75= 7) +<,>, 5,F >,75 + = 3' & >7 4 5E &' >,4' 5> 3 37== ' = >7 \$E 3 5& ,>= ,5+ \$,> 5>= [+ ' : ?<=?,> 7) C' 3+ \$?7E' & \$E =?\$7<&,5 >' &) ,>+ 3' & >7 37== 7) >+ ' : < %>,%' 7) 5%' => 3 4' 47<,' =W 37== 7) 5 >,B' =: ,<,>? 3,>EW 5& >+ ' 37== 7) =' 3)h &' >' <4,5 >,75 5& ' >+5,% ,&' 5>,>E [+<,>, 5 4,==,75 <,' = \$<7?*+> >+ ' %<7== 5& =C7<& >7 <?3' 5& 7<&' < 7?< 3 5& [5 7: : <' ==' & >+ ' 737*E \$<7?*+> 7: : <' ==,75)7< >+ ' 5 >,B' : 7: ?3 >,75W 5& ,>= %75=' ; ?' 5%' = ,5%3?&' & *' 57%,&' W ' 5=3 B' 4' 5>W = ' : < >,75 7)) 4,3,' =W \$7<&' < =%+773=W 5& ' 5B,<754' 5> 3&' =><?%>,75[+ ' <' &?%>,75,=> >' %+ ,5* 7) +<,>, 5,>E ,5 \$E 3

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)' 3> >+')?33 ,4: %>= 7) >+' >+' 737* ,% 3W : 73,>,% 3W 5&
,4: 3,% >,75= 7) %7375,F >,75 5& >+' <' &?%>,75,=> ?<7: ' 5
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>+' 4' ' >,5* : 7,5>= 7) >+' 57<>+ 5& =7?>+ *' 7* < : +,% 33EW>7
<' : <' = ' 5> >+' %755' %>,B,>E 7) >+' 3 5&=[5 >+' KSOJ=W>+' >' <4
\$E 3 C = &7: >' & \$E 4 5E %>,B,=>=W+,>7<, 5=W: 73,>,% , 5=W
5& >+' 737* , 5= = >+' ?5,G' & 5 4' ,5=>' & 7) ?=,5* 7<>+
4' <,% d: <,4 <,3E 5*3,+ =: ' 2' <=e 5& >,5 4' <,%
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7<>+7?= 5&= 7) E' <= >,B' : ' 7: 3' = 7) \$E 3 3,B' & C' 33
5& : <7=: ' <' & ,5 : < %>,%' >+ > : <7B,&' & ?5,>E \$' >C' ' 5
5 >?< 3,>,% %7=4 737* E 5& =: ,<,>? 3,>EbMc + ' : < %>,%' 7) i*77&
3,B,5*j C = : 7==,\$3' >+<7? *+ =E4 \$,7>,% <' 3 >,75=+,: C,>+ >+'
' 5B,<754' 5> 5& >+' \$?5& 5%' 7))<?,> <' ' =W : 3 5>=W 5&
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B,'C' & >+ ' 3 5& >+<7?'+ \$,\$3,% 33' 5= ,5 C+,%+ >+ ' E C' <' >+ ' 5' C : ' 7: 3' 7) 7& C+7 + & <<,B' & ,5 >+ ' ,< : <74,=' & 3 5&[<74 >+,= B 5> *' : 7,5> >+ ' E <' h,5>' <: <' >' & ?4\$' <= KNWRVJ) >+ ' 7<& ,= : 3' = ' & C,>+ ?=W+ ' C,33' & ?= ,5>7 >+ > 3 5&W 3 5& H7C,5* C,>+ 4,32 5& +75' EW 5& C,3 * ,B' ,> >7 ?=j ?<7: ' 5 +<,=>, 5= B,' C' & >+ ' 4=' 3B' = 5& >+ ' 3 5& = <' =?> 7) \$3' ==,5*)<74 7& 5& =: <> 7) 7&l= : 3 5)7<>+ ' 4 >7 G5& 7< & ,=%7B' < = >+ ' E + B' %75>,5?' & >+, = ,&' 7) & ,=%7B' <E i 5' C C7<3&j >+ > 7& C7?3& * ,B' >+ ' 4 >7 3,B' [+,= B,' C 7) %75><733,5* >+ ' 3 5& 5& 7C5,5* ,>W C = %75=,=> 5> ,5 ?<7: ' 5 +<,=>, 5 >+7?'+> >+ > % 4')<74 5 'D: ' <,' 5%' C+ ' <' >+ ' %+?<%+ 5& 2,5* =%75><733' & 5& 7C5' & >+ ' 3 5& 5& ,>= <' =7?<%' = 75 >+ ' 7>+ ' <= ,&' W>+ ' : 7: ?3 >,75 C = >+ ' = ' <B 5>= C+7 + & >7 7\$' E[+ ' 3 5& C = ' 5B,= *' & = 5 7: : 7<>?5,>E >7 %+ 5* ' >+ ' : <7=: '%>= 7) >+ ' B => 4 17<,>E 7) : ' 7: 3' ,5 ?<7: ' >+ > 3,B' & ,4: 7B' < ,=+ ' &W?5' &?% >' &W 5& 3,B,5* ?5&' < >+ ' 7: : <' ==,75 7) B <,7? = 2,5* & 74 = >+ > 7: : <' == ' & 5& %75><733' & >+ ' ,< 47B' 4' 5> ?5&' <>+ ' +<,=>, 5 <' 3,* ,75 & ,B,&' & \$' >C' ' 5 >+73,% = 5& <7>' => 5>=[bOc](#) + ' ,5B =,75 7) \$E 3 \$E 73?4\$? = 5& +, = %<' C 7) : < ,=75' <=W4' <%+ 5>=W 5& 4,3> <E 47>,B >' & \$E >+ ' : 7==,\$,3>E 7) 377>,5* >+, = 5' C 3 5& + = \$' ' 5 : ,5>' & ,5 4 5E =>7<,' = [i 7375,F >,75 3' & >7 ' 57<47? = ' 5' <*E ,5 >+ ' %3 ,4 5& 7%?? : >,75 7) C' =>' <5 3 5& = 5&W57> =?<: < ,=,5* 3EW>7 ,5>' 5 = ' %74: ' >,>,75)7<%75><73 475* >+ ' ?<7: ' 5 : 7C' <=[bPcj](#)

=7%, 3 5& ' 5B,<754' 5> 3%75=' ; ?' 5%' = 7) >+' ' 5%7?5>' < 5&
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\$3' ==,5* C,>+ i5' C C7<3&j 5& i5' C 3 5&j +<,>, 5
2,5*&74= 5&W\$E : <7DEW>+' ,< <4EW 5& ='>>3' <= 5' ' &' & >7
3' *,>,4 >' >+' ,<<,*+>>7 7: : <' == 5 >,B' : 7: ?3 >,75 7) \$E 3 [

3 %2 7) C >' <W%74 4?5,% >,75 <7 &= 5& ' =,3E H77&' & : 3 %' =
' *7B' <54' 5>= 5& >+' ,< ,5=>,?>,75= C' <' <?5 \$E ?<7: ' 5
&' =%' 5& 5>=W C+7)7< %' 5>?<,' = %75>,5?' & >7)7<%' %?>?< 3
==,4,3 >,75 % 4: ,*5=[74' ,5=>,?>,75= &' %,&' & >7 %B,3F'
5& +<,>, 5,F' >+' 5'D> *' 5' < >,75 7) 5 >,B' : ' 7: 3' =>+<7?*' +
)7<%' & <' 47B 3 7) >+7?= 5&= 7) >,B' %+ ,3&<' 5 >7 >>' 5&
\$7 <&,5* =%+773= <?5 \$E)7< >+73,%= 5& : <7>' => 5>= 33 7B' <
>+' %75>,5' 5>[
' %' 5>3E &,%7B' <' & 4 == * < B' = =+7C' & 57>+' < 7) >+'
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\$?=' 7) : 7C' <W 475* 7>+' <=W + B' \$' ' 5 &7%?4' 5>' &
>+<7?*' +7?> >+' E' <=[5 <' %' 5> +,=>7<EW>+' <' ,=>,3 57 =,5%' <
= 4: 3' 7) C+ > + = + : : ' 5' & C,>+ >+' =%+773= 5& >+'
%+,3&<' 5 C+7 C' <' <' 47B' &)<74 >+' ,< +74' = >7 <' %' ,B'
i%,B,3F' & ' &?% >,75j ' % 5 <' &W,5 5 <,>,3')<74 ' 5<E
== i 47<' >+ 5 KMJ =?%+ =%+773= 7: ' < >' & ,5 5 &)<74 >+'
KRQJ= >7 >+' KSSJ= 5 ' =>,4 >' & KOJWJJ 5& ,*' 57? = %+ ,3&<' 5
C' <')7<,%,\$3E <' 47B' &)<74 >+' ,<) 4,3,' = 5& : 3 %' & ,5
>+' 4j**bkMc**
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<' * ,5 >+' <,*+> >7 \$7&,3E ?>7574E[' =,=> 5%' C = C E 7)
3,B,5*(j**bkNc**
5 >+' =%+773=W*,<3= C' <' > ?*+>>7 =' <B' &74' =>,% 33EW%3' 5W
,<75W 5& : <' : <,5* >7 =' <B,%' WC+,3' >+' \$7E= C7<2' & 75 >+'
3 5&= >+ > \$' 375*' & >7 >+' +?<%+ >7 : 3 5> 5& + <B' =>)77&[
+,=) <' ' 3 \$7<)7<>+' +?<%+ 4 &' =,*5,G% 5> 4 <2[' 3>+E
?<7: ' 5=) 4,3' = &75 >' & >7 >+' +?<%+ 5& : ,%2' & ? :)<' '
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> ,= C' 3 &7%?4' 5>' & >+ > C+' 5 4,==,75 <,' = << B' 3' & >7
%75B' <| : ' 7: 3' >7 +<,>, 5,>E|>+' = ' 5%7?5>' <= C' <')737C' &
\$E : <,B >' %7<: 7< >,75= 5&)7<' ,*5 *7B' <54' 5> ><77: = =775
)>' <**bkOc** +<,>, 5,>E| = <' &?%' 5& ' B' 5 =,4: 3,)E 5 >,B' %?3?<' =
>7)7<%' >7 ' B' <E75' ,5 \$E 3 >7 & : > 5& ==,4,3 >' ,5>7
57<4 >,B' C+,>' +<,>, 5,>E| +,= <' &?%,75,=> >' %+,5*
<' 47B' & 5E =: '%>= 7) >+' 3,\$' < >,5* 4' == *' ,5+' <' 5> ,5 >+'
C7<=&= 7) +<,>[+<,>, 5) ,>+ + = \$'%74' =E575E47?>= C,>+
%7375,F >,75 5& 7: : <' ==,75 ' ,8121(7<62)97.4.4.4.4.4796.9368(5)B,%4

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7375,F >,75 + = ,5H,%>' & ,4 4' 5=' : ,5 5& 7: : <' ==,75 ? : 75
>+' 5 >,B' : 7: ?3 >,75 ,5 \$E 3 [+' ?<7: ' 5 +<=>, 5

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?=' &h>7h1?=>,)Eh=3 B' <Eh>+' 5h)<,% 5=h4 &' h,>h>+' ,<h: >+h
>7h)<' &74`LJKS`JN`LS`MNPSS`R` hPOKLhKK` ShRL\$ h
)%')LML`R)a=>7<E[+>43[%%' ==' & ' \$<? <E LOWLJLK

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bKc 'B,5 [<?=' [5' >,75 5&' < 7&V 7C 7<: 7< >'
4' <,% 5B' 5>' & +<,>=, 5 4' <,% [=,% 772=[LJKO

bLc '5E '3* &7W 3 ?&,7 4.<' F i \$E 3 +' 737*EV
)& ("5"(/! !-"/" (' .. -)' (/"1
+ -. + /"1 H? B ,3 \$3' > +>>: =V` : ?\$3,% >+' 737*E[7<*`LJLL`JN`
JP` \$E hE 3 h>+' 737*E`

bMc +,: 5 ?,: 'W 7). [

[B 3, \$3' >[
+>>: =V` : ?\$3,% >+' 737*E[7<*`LJLL`J0`LM' 3h<' => \$3' %,4,' 5>7h
&' 3h' ; ?,3,\$<,7hEh <475, h&' =&' h3 h%7=47+2/78(')261.999]TJ 9.10781 14 Td

B 3 \$3' > +>>: =V`&7%<,5' 7)&,%7B' <E[7<*'>+' h\$?33h<74 5?>h
: 75>,) ' Dh5,%+73 =hB'

bSc 3' < <' *' 4 55[' 5 %,7?> 73,& <,>E[7<>' == <' ==W
LJKR[*' KKN

bKJc 5&' <= >' : + 5=75[5,) => ' =>,5E[,33 5& 5*WKSSO[
*' LO

bKkc ,%+' 33' 3' D 5&' <W + ' ' C ,4 <7C[== 5% <%' < >,75
,5 >+' *' 7) 737<\$3,5&5' ==[+ ' ' C <' ==W ' C 7<2 LJKJW
*' MO

bKLc ' 4 < ,=\$E[+ ' %737< 7) %74: <74,=' [75&' <B 5
' H' %>,B' WLJKS[*' PJ

bKMc ' 5<E ==[5 & l= >,B' =%+773= + B' \$' ' 5 ' D: 7=' &[
+ > \$7?>>+' [\ B 3, \$3' > +>>: =V`CCC[%>475,>7<[%74`
' 7%,>E`LJLK`JQJP` 5 & h=h >,B' h=%+773=h+ B' h\$' ' 5h
' D: 7=' &[h + >h \$7?>h>+' h

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A8: B +<,>, 5,>E 5& 7375, 3 D: 5=,75,5 + ' 4' <,% =

B 3, \$3' > +>>: =V`CCC[' 5%E%37: ' &, [%74`+,=>7<E`

' 5%E%37: ' &, =h 34 5 %>h< 5=%<,: >=h 5&h4 : =`%+<,>, 5,>Eh

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&))' <' 5> *37\$ 3%<=,=W) 47?=3E ' 4: + =,' & >+' : 7C' < 7) ,&' =
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Wb c+' ,&' = 7) ' %7574 ,=>= 5& : 73,>,% 3 : +,37=7: +' <=W

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' 5> ,3' & \$E *7B' <5 4' 5>h,4: 7=' & 3,4,> >,75 7) %+7,%'[7C
' 3=' <' C' >7 ?5&' <=> 5& >+' ?5C,3,5*5' == 7) =' * 4' 5>= 7)
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4\$' < 7) *?5h<' 3 >' & 4?<&' <= ' %+ E' <\ <74 ?<7: ' 5
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)%7?<=' W>+' =%, ' 5>,G% %75=' 5=?= ,=>+ > *37\$ 3C <4,5* ,=>+'
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% 3%?3 >,75W,> ,= ==?4' &>+ > \$' 5' G> ' 517E' & >7& E ,= C7<>+
47<' >+ 5>+' = 4' \$' 5' G> ' 517E' & >747<<7C[+,= 4 E 4 2'
=' 5=' ,5 5 <<7C %74: < ,=75 7) 3' <5 >,B' =[)>+' <' <' >C7
7: >,75=>7 \$?,3& %E%3' : >+ C+,%+ %7=> >+' = 4' WC' C7?3&
:<')' <>+' 75' >+ > &' 3,B' <= \$' 5' G>= =775' <[5& C' % 5 = ' '
>+ > : ' 7: 3' <' C,3,5* >7 ,5%?< 5 ,5>' <' =>)' ' >7 \$?E
=74' >+,5* 75%' & ,> 57C< >+' <>+ 5 C ,>?5>,3>+' E + B' = B' &
' 57?'+>7 \$?E ,> 3 >' <[7 %7=>h\$' 5' G> % 3%?3 >,75 * ,B' = 3' ==
C' , * +> >7 dl&,%7?5>=le %7=>= 5& \$' 5' G>= ' D: ' %>' & >7 7%?<
&' % &' 7< 47<' C E %74: <' & C ,>+ >+7=' ' D: ' %>' & ,5 >+'
5' <)?>?'<' [?> >+' % = ' 7) *37\$ 3 C <4,5* : 73,%E =><' >%+' =

! && ("(/!)&"/" .

74' 7) >+ ' 2' E >' % + 5737 * , % 3 % + 33' 5 * ' = >7 = ? : : 7 <> % 3, 4 >' % + 5 * ' 4 , > , * > , 75 + B' \$ ' ' 5W 7 < <' 75 > + ' C E > 7 \$ ' , 5 * W & & < ' = ' & [+ ' % 7 => 7) ' 3' % < , % , > E * ' 5' < > , 75) < 74 <' 5' C \$ 3' = + =) 33' 5 = + < : 3E 7B' < > + ' : => LJ E' < = [+ ' % 7 => 5 & : ' < > 7 < 4 5 % ' 7) \$ >>' < E => 7 < * ' + B' , 4 : < 7B' & [C , & ' < < 5 * ' 7) ' 3' % < , % B' + , % 3' = , = \$ ' , 5 * : < 7 & ? % ' & 5 & > + ' B , 3 \$, 3 > E 7) + ' > : ? 4 : = + = , 5 % < ' = ' & [5E >' % + 5737 * , % 3 % + 33' 5 * ' = <' 4 , 5 7) % 7 ? < = ' V & ' % < \$ 75 , = , 5 * , < 5 & = ' × 5 = : 7 <> 5 & = _ & ' 3, 5 * C , > + , 5 >' < 4 , >>' 5 % E , 5 <' 5' C \$ 3' = * ' 5' < > , 75 5 & = ' = 75 3 B < , > , 75 = , 5 ' 5' < * E & ' 4 5 & _ % < \$ 75 % : > ? < ' W ? = * ' 5 & => 7 < * ' 5 & % < \$ 75 & , 7D , & ' <' 4 7B 3 [? > + ' 3 < * ' < % + 33' 5 * ' = <' = 7 % , 3 5 & : 73 , % 3 [\$ < , 5 * , 5 * \$ 7 ? > > + ' % + 5 * ' = , 5 \$ ' + B , 7 ? < > 7 % ? < \$ ' 4 , = , 75 = W > + ' > 2' h ? : 7) B , 3 \$ 3' 37Ch % < \$ 75 >' % + 5737 * , ' = > + > <' <' 3 , = , % 3' < 5 > , B' = > 7 > + ' C E C' : <' = ' 5 > 3E ? = ' ' 5' < * EW 5 & % + , ' B , 5 * ? => < 5 = , > , 75 = 7 > + > > + ' \$? < & ' 5 7) % + 5 * ' & 7' = 57 >) 33 75 > + 7 = ' 3' => \$ 3' > 7 % > [? < : 73 , % 3 & B 7 % E 7) > + ' % + 5 * ' = 5' ' & ' & > 7 * ' > > 7 5' > F' < 7 + = > C 7 > < * ' > = [' 5' ' & > 7 2' ' : ? : > + ' : <' = ? <' 75 * 7B' < 5 4' 5 > = W > 7 < , = ' > + ' , < 4 \$, > , 75 5 & W = , 4 : 7 <> 5 > W > 7 4 > % + > + ' , < 4 \$, > , 75 C , > + % , 75 W 4 75 , > 7 < , 5 * 5 & × 5 = : <' 5 > <' : 7 <> , 5 * [5 > + ' W > + ' 3, 4 >' + 5 * ' 7 4 4 , >>' ' d 5 , 5 & ' : ' 5 & ' 5 > W => > ? > 7 < E \$ 7 & E ' => \$ 3 , = + ' & ? 5 & ' < > + ' 3, 4 >' + 5 * ' % > LJ J Re : 3 E = 5 , 4 : 7 <> 5 > < 73' , 5 > + , = <' = : ' % > W = & 7 > + ' < 5 * ' 7) = > + > 37 \$ \$ E 75 > + , = , = ? ' [' 3 = 7 5' ' & > 7 C , 5 + ' < = 5 & 4 , 5 & = > > + ' * < = = < 77 > = 3' B' 3 > 7 = < ' 5 * > + ' 5 > + ' = ? : : 7 <>) 7 < : 73 , % , 5 = W 5 & & B , = 7 < = C , > + , 5 * 7B' < 5 4' 5 > = W > + > <' < * ? , 5 *) 7 < % + 5 * ' W 5 & > 7 : < 7 4 7 >' > + ' \$ ' + B , 7 ? < % + 5 * ' > + > * 7B' < 5 4' 5 > = + B' 3, 4 , >' & : 7C' < > 7 \$ < , 5 * \$ 7 ? > [

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575h)7==,3h\$ = ' & 3' <5 >,B' =W 5& ,557B >,75 >7%<' >' 5' C 5&
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+,*+3,*+>' &W)7<' D 4: 3' W,5 ?<7: ' 5 744,==,75WLJKRe[' C
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<*' 5>W +74 = [KSQM[ij >,75 3 D: '%> >,75=W>+' ' 3
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,44=W 5&<' CW 55 ' >>,)7<W <73,5' ?% =W + <3' = '%<'>>W
73,5 ,5' =W '<' 4E '***'>>W <<E 33,7>W ,%+ <& ?<: +EW 75E
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75&75V ' C %7574,%= 7?5& >,75[
[LJLM[k ?44 <E)7< 73,%E4 2' <=IW

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3,52 \$'>C' '5 %3,4 >' %+ 5*' =%':>,%=4 5& : 7: ?3,=4\ 5
5 3E=,= 7) C' \$ <> %2,5* 5& =?<B' E & >)<74 ?<7: ' 5& >+'
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>+' 47=> '%737*,% 3E &,B' <=' %7?5><,'=,5)<,% [7C' B' <W>+'
'%7?5><E) '%= 5?4' <7?=' 5B,<754' 5> 3 %+ 3' 5*' = >+ >
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4\$, l= '5B,<754' 5> ,= %+ <%>' <,F' & \$E &,B' <='
3 5&=% : '=W< 5*,5*)<74 >+' B => = B 55 + * < ==3 5&= 7) >+'
'% 5>< 3 : 3 >' ? >7 >+' 3?+=)7<'=>= 7) >+' 57<>+hC'=>' <5
<7B,5%' ['+' %7?5><E ,= +74' >7 5?4' <7?=' <,B' <=W,5%3?&,5*
>+' 4\$' F,W)?' W 5& ? 5*C <,B' <=WC+,%+ <' '== '5>, 3
=7?<%'= 7) C >' <)7<\$7>+ +?4 5= 5& C,3&3,) '[
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'%7: : '<W %7\$ 3>W 5& *73&W C+,%+ <' >+' \$ %2\$75' 7) >+'

5)7<>?5 >' 3EW >+' 4,=4 5 *' 4' 5> 5& %7<<?: >,75

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)?33E>+ > ,> ,= 57>' =E 7<: 7==,\$3' 3C E=>7 ,=73 >' ,>j 7<' 7B' <W
' &&' &W i<' 3,* ,75 ,= >+' =>75*' => '3' 4' 5> ,5 × & ,>75 3
\$ %2*<7?5& 5& ' D' <=: <7\$ \$3E >+' *' >' => ,5H?' 5%' ? : 75
>+' >+ ,52,5* 5& 3B,5* 7) >+' : '7: 3' %75%' <5' &j)<,% 5=W
>+' <')7<' WC' <' <' 3,* ,7?= \$' ,5*=V i ,> ,= >+ ,= >+ > 4 2' =)<,% 5=
=7 <' 3,* ,7?=>V<' 3,* ,75 ,= ,5 >+' ,< C+73' =E=>' 4 7) \$' ,5*U^N

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+ ,= B, ' C ,= <' H' %>' & ,5 >+' ,< + ,=>7<, % 3>' %+,5* =W' B' 5 ,) >+' E
<' 57> : ?> ,5>7 : < %>,%' [< & ,>,75 3EWB <,7?=> %?&?<' = + B'
+ , * +3, * +>' & ' %737* ,% 3 5& ' %7574, % 1?=>,%' [<7B' <\$=W
)732> 3' =W4E> +=W3' *' 5&=W> \$77=W 5& <, >? 3 : < %>,%' = ,5)< ,%
5& ,5 4\$, ,5 : <>, %?3 <)7%?=> 75 : <' = ' <B,5* 5& %75=' <B,5*
>+' 5 >?< 3 ' 5B, <754 ' 5>[+ ' <' <' <?3' = 5& <' *?3 >,75= 75
) <4,5*WG=+,5*W+?5>,5*W>+')' 3,5* 7) <<' ' =W 5& = 5, >,75[

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i 7' = +<,>, 5,>E 7))' < &,>,5%>,B' ,5=,* +> ,5>7 >+' :<7: ' <
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' *7' = 75 >7 =2W i 7 +<,>, 5= ,5&' '& + B' =: '%, 3

7) %< >,75 ,=> 3)W '%7574,% &,: <,>EW 5& %3,4 >' h,5&?%' & 4,*< >,75= 7) : ' 7: 3' 5& 5,4 3=W 475* 7>+' <'))' %>=W% 33=)7< <' ==' ==4' 5> 7) >+' +<,>, 5 %744?5,>E|= '=' 3)h ?5&' <=> 5&,5* 5& C E= 7) \$',5*[5 7B' < =: ,<,>? 3F' & 'D: <' ==,75 7)>+' +<,>, 5) ,>+> >,'*57<' =>+' : +E=,% 3C7<3& 7) 5 >?' <' 5& >+') 3=' &,%+7>74E 7)>' 5 &< C5 \$'>C' ' 5 >+' =: ,<,>? 3 5&>+' >' 4: 7< 3=> 5&< &,% 33E %+ 33' 5*' &[5 < &,% 33E %+ 33' 5*,5* '%7574,% 5& '%737*,% 3 ,51?=>,% 'W >+' %+?<%+ 4?=> <' 3,F' >+ >>+' =: <7\$3' 4= 7) '%7574,% 5& '%737*,% 3 ,51?=>,%' <' %37=' 3E <' 3 >' &_<' 3,=>,% =73?>,75= 4?=> > %23' \$7>+ =,4?3> 5' 7?=3E[+,= 4' 5= >+' %+?<%+ 4?=> \$' <' &E>7 =: ' 2) <\$' E75& : : '<' <' %E%3,5* 5& 3' &h)' <' : '<73 5& C7<2 >7C <& 4 17< =+,> ,5 >+' \$ 3 5%' 7) '%7574,% : 7C' <\$' >C' ' 5 <,%+ 5& : 77< 5 >,75=[+ ' %+?<%+ 4?=> : 3 E ,>= : <7: +'>,% <73' ,5 =: ' 2,5* <?>+ >7 : 7C' < 5& \$' \$3' >7 =: ' 2)7< 5& C,>+ >+' : 77<[+ ' : 77< %75<,>,\$?' 3' == >7 >+' & 4 * ,5* 7) >+' ' <>+W 5& =7 >+' <,%+' < 5 >,75= =+7?3& \$' +' 3& <' =: 75=,\$3' [+7 ,= \$' >>' < : 7=>,75' & >7 =: ' 2)7< 5& C,>+ >+' : 77<>+ 5 >+' %+?<%+\

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+ ' %+?<%+ ,5 4\$, ,= ,5 *77& : 7=>,75 >7 \$<,5* \$7?> '%737*,% 3 5& '%7574,% 1?=>,% ' W7C,5* >7 >+') %> >+ > SPS 7) >+' : 7: ?3 >,75 : <7)' ==' =>7 \$' +<,>, 5[+,= ,= 5 7: : 7<?5,>E)7< >+' %+?<%+' =W <' * <&3' == 7) &' 574,5 >,75W >7 ,5=>,3 >+' B 3?' = 5& ' <>+h2' ' : ,5* ' >+7= ,5 >+' 4 ==' = >+ > \$' 375* >7 >+' %+?<%+[' + B,7?< 3%+ 5*' is assured when the church develops a theology that seeks to bring about justice. The church is a moral force with spiritual energy which can contribute to long-term solutions to our complex environmental issues. The ecological and economic problems must be dealt with, but not only be88281(i)0.838216(ri)0.6.562(\$f)-388.307(%0.836588(ie)0.852864()-:

common good. Advocating for ecological and economic justice in this sense is a response to God's command to till and keep the land (see Gen. 2:15) that God has entrusted to humanity, and it must serve to reinforce the covenant between human beings and the environment & a covenant that should mirror God's, creative love.

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%+ 33' 5*' [+ ' + ' &3,5' =) *3 3' 5>7.98899221 9+

'5B,<754'5> 3 ,4: %>= <' \$',5* &<B'5 \$E 7?< %?<<'5>
'%7574,% 47&'3[<>7 &7:>>+' : +< =' %7,5' & ,5 4'<,% 5
: 73,>,%= ,5 >+' KSSJ=W i,>= >+' '%7574EW =>?: ,&j[<2'>
% : ,> 3,=4 + = 5,5\$?,3 &<B' >7 : ' <: ' >? 3 * <7C>+ ,5 '%7574,%
>,B,>EW &' 4 5&,5* 'B' < * <' >' < 3' B' 3= 7) : <7&?%>,75 5&
%75=?4: >,75[+' C E= C' %?<<'5>3E 4' =?<' '%7574,%
=?%%' == &7 57> > 2' %%7?5> 7) ,>= ,4: 3,% >,75=)7<>+' 5 >?< 3
C7<3&W 7< B 3?' >+' >+,5* = >+ > <' ,4: 7<> 5>)7< +?4 5

+<=>,5' ,5\$<,&* ' 5& ' <' 4E ,3, 4= <*' ?' >+ > i =
+<=>, 5=WC' 257C >+ > >+ ' <' 3 >,75=+,,: = \$' >C' ' 5 7?<=' 3B' =
5& 7>+ ' < +?4 5= 4 >>' <W 5& =7 &7' = 7?< <' 3 >,75=+,,: C,>+
>+ ' :3 5' >[> 4 >>' <= ' 57?*+)7< >+ ' <' >7<>7 + B' 1?4: ' &
<,* +> ,5>7 >+ ' 4,&&3' 7) ,> 33 ,5 >+ ' : ' <=75 7) ' =?= +<=>W
\$'%74,5* +?4 5W\$'%74,5* : <> 7) 7?< 3B,5* :3 5' > ,5 33
its interdependence. So how we live together, work together, manage our
resources together, it all matters to God. Economics is spiritual.

+ ' C,>5' == ,5 ' 5' =, = E= >+ > 7& %<' >' & >+' C7<3& C,>+
: 3' 5>E)7< 3[+ ' 3& ' => 4' 5>=%+73 < 3' < <?' **' 4 55
: ?>= ,> 3,2' >+,=V i +' ,3' => <=> 7?> C,>+ 3,>?<*E 7)
\$?5& 5%[' ' 5' =,= K ,= =75* 7) : < ,=')7< 7&l= *' 5' <7=, >EX

C,>+ 4 5E <' = 7) 47< 3%+7,%' W>+' 4' == *' 7) =%<,: >?'<' ,=
 >+ > 7&' D: '%>= g ' B' 5 &' 4 5&= g 1?=>,%' W 5& C,3+73&>+7='
 C,>+ : 7C' < %%7?5> \$3')7<>+' ,< %>,75=['+' 3& ' => 4' 5>
 : <7: +' >= <' = <B' &>+' ,< &' : ' => 5*' <)7<>+7=' C+7 : <7G>' &
)<74 ,51?=>,%' >+ > + & \$' ' 5 ' 4\$' &&' & ,5 =E=>' 4= 5&
 ,5=>, >?>,75=[' <5' < ' 5<75& 5& 7?* E)<74 >+'
 5,B' <=>E 7) 3 =*7C : 7,5> 7?> >+ > i +' ' D: ' <' 5%' = 7)
 D7&?= 5& D,3' ,5B73B' 5 4,5* 5& 7: : 7=,5* >+' 7: : <' ==,B'
 : 7C' < 7) *E: > 5& \$E375W\$?>>+' : <7: +' >= 3-7 5 4' 5&
 7: : 7=' >+7=' C,>+,5 = <' 3 C+7 7: : <' == 5& & ,= : 7== ' == >+' ,<
 5' ,*+\$7?<=jQ ' <+ : = >+' &' : ' => ' D: <' ==,75 7) >+ >
 : <7: +' >, % 5*' < > =E=>' 4, % ' %7574, % ,51?=>,%' C = C+ ' 5
 ' =?= 7B' <?<5' & >+' > \$3' = ,5 >+' >' 4: 3' \$' % ?=' >+'
 475' E%+ 5*' <= C' <' H' ' %,5* 7<&,5 <E : ' 7: 3' [
 7W + B,5* %257C3' &* ' & >+ > >+' C7<3& ,= * ,>' & C,>+
 \$?5& 5%' W>+ > C' <' %<' >' &)7<%74 4?5,>EW>+ > 7&375*=
 H7?<,+ ,5*W 5&>+ > C' C,3\$' 1?&* ' & 75 7?<%+7,%' =WC' 47B'
 75>7 ' D 4,5' >+' 5 >?' <' 7) 7?<%?<<' 5>' %7574, % =E=>' 4 5&
 >+' <' =75= C+E ,> ,= &<B,5* >+' %3,4 >' 5& ' %737* ,% 3%< ,=, [

)2)0-)() ' " 4./ ' ". -"1"(/!
)&) " & -".".

+' &74,5 5>' %7574,% 47&' 3,5 >+' 5& 47=> ' =>' <5
 %7?5><,' =)7<>+' 3 => NJ E' <= + = \$' ' 5)7<4 7))<' ' 4 <2' >
 % : ,> 3,=4[+, = ,= &' G5' & = 5 ' %7574, % =E=>' 4 ,5 C+, %+
 \$? ,5' == ' = 5& ,5&?=><,' = <' : ' 3E 7C5' & 5& 7: ' < >' &
 ,5 : ?<=? ,> 7) : <7G>['+' <' <' >+<' ')' >?' <' = 7) >+ ,= =E=>' 4 >7
 +, *+3, *+>W ,5 : < ,%?3 <W \$' % ?=' 7) >+' ,< ,4: %> 75 >+'
 ' 5B, <754' 5>[

1. It has an inbuilt need to grow

%7574EW %737*E 5& +< ,=>, 5 >+ ,%= W LJM

+ ' G<=> : 7,5>>7 4 2' \$7?>>+, =E=>' 4 ,= \$7?> *<7C>+[5E
 =E=>' 4 >+ >+ = &<,B' >7C <&=: <7G> 3=7 + = &<,B' >7C <&=
 <7C>+[5 'B' <h,5%' =,5 B73?4' 7) *77&= 5& ='<B,%' =
 5' ' &=>7 \$' : <7&?%' & 5& %75=?4' & =7 >+ > % : ,> 3 % 5 \$'
 %?4?3 >' & 5& : <7G> *' 5' < >' &[?< %?<<' 5> ' %7574,%
 =E=>' 4 <' 3, '= ? : 75 =>,4?3 >,5* >+, = &<,B')7< 47<' [

5 >+ ' W>+ '<' + = \$' ' 5 4?%+ > 32 \$7?>' %7574,% *<7C>+
 g 7< >+ ' \$=' 5%' 7) ,> g \$E \$?=?,5' ==' = 5& : 73,>, % 3 3' &' <= 7)
 33 : <,>' = 7B' <' %' 5> >,4' = [%7574,% *<7C>+ + = 375* \$' ' 5
 %' 5> < 3 : 73,%E ,4 7) *7B' <54' 5>= %<7== >+ ' C7<3&[+'
 7 : : 7=>' 7) *<7C>+ g <' %' ==,75 g + = \$' ' 5 C >+>C7<&)7<
 ' %7574,%) ,3?<' [

5' 7) >+ '<' =75=>+ >' %7574,% *<7C>+ + = \$' ' 5 =7?*+>h
)>' < ,= \$' % ?=' ,> ,= +7 : ' & >+ >W = 47<' ,= : <7&?%' &W>+ '<
 C,33 \$' 3' == % <,>E 5& : ' 7 : 3' C,33 ' 517E + , *+ '< => 5& <&
 7) 3B,5* 5& *<' >' < C' 33\$' ,5*[5 : 3 %' = C+ '<' : ' 7 : 3' + B'
 B' <E 3,>>3' W=?%+ = 4 5E 7) >+ ' C7<3&|= : 77<' < %7?5>< , '=W>+ ,=
 ,= <\$7 &3E %7<<' %>V ' %7574,% *<7C>+ % 5 7)>' 5 \$<,5* \$' 5' G>=
 >7 >+ ' C+73' : 7 : ?3 >,75[+ '<' ,= %3' < 3,52 \$' >C' ' 5 >+ ' : '<
 % : ,> C' 3+ 7) %7?5><E 5& 4' =?<' = 7) +?4 5
 &' B' 37 : 4' 5> =?%+ = + ' 3+W ' &?% >,75 5& 3,) ' D : ' %> 5%E[
 7C' B' <W,5 <,%+ '< 5 >,75=W=?%+ = >+ ' W>+ ' 3,52 \$' >C' ' 5
 <7C>+ 5& +?4 5 C' 33\$' ,5 ,= 4?%+ 3' == ' B,&' 5>+7C C' 3+
 ,= &,=>,<\$?>' & C,>+,5 =7%,' >E ,= 4?%+ 47<' = ,*5,G% 5>) %>7<[
 \$,* : <7\$3' 4 C,>+ >+, = 7\$=' ==,75 C,>+ ' %7574,% *<7C>+
 ,= >+ > ,> ,= + B,5* 4 17< %75=' ; ?' 5%' =)7< >+ ' ' 5B,<754' 5>[
 ,5%' >+ ' KR>+ ' 5>?<EW,5&?=><, 3,= >,75W=74' >,4' = =? : : 7<>' &
 \$E <' &E =? : : 3E 7) 5 >?< 3 5& +?4 5 <' =7?<%' = >+<7? *+
 %7375, 3,=4W3' & >7 +?*' =?<*' ,5 ' %7574,% *<7C>+ C+,%+
)7<4' & >+ ')7?5& >,75 7) >+ ' : <7=: ' <,>E ' 517E' & \$E 4 5E
 ?<7 : ' 5 %7?5>< , '=W ,5%3?&,5* >+ ' [?> >+ '= ' ' %7574,%
 %>,B,>' = : <7&?%' & ,5%' =,5* 47?5>= 7) % <\$75 &,7D,&' 5&
 7>+ '< *<' ' 5+7?=' * '= ' ,5 =?%+ ; ? 5>,>' = >+ > >+ ' E C' 5>
 \$' E75& >+ ' \$,3>E 7) 5 >?< 3 : <7%' ==' = >7 %75=>< ,5 >+ ' 4[+ '

LJN w %7574EW %737*E 5& +<,>, 5 >+,%=

<'=?} + = \$' ' 5 *37\$ 3>' 4: ' < >?'<' <,'=W 5& >+' &' B => >,5*
5& C,&' 5,5* ,4: %>= 7) %3,4 >' %+ 5*' [

,5=' <> * < : +

+,' * < : + =+7C= +7C =,5%' >+' 4,&&' 7) >+' 3 => %' 5>?<EW
*37\$ 3' %7574,% * <7C>+ d=+7C5 \$E >+' \$ <=e + = \$' ' 5 >,* +>3E
%7?: 3' & >7 < : ,& ,5%' = ' = ,5 >+' 3' B' 3= 7) atmospheric carbon
dioxide (CO2) (shown by the line). The countries with the biggest economies,
with few exceptions, also have the highest carbon emissions per person.

Up until now growth has always gone hand in hand with increased
production of physical goods and increased pollution. There is much talk of
decoupling the link between production and emissions, and finding ways to
produce more goods with fewer emissions, yet this will still involve producing
more. Supporters of the idea of green growth argue that technological change
will allow economic growth to continue while climate change is brought under
control. However, this is a colossal task, and one which we do not even know
to be possible in the fast-closing window before catastrophic temperature rises
are triggered.

> ,= 3=7 ,4: 7<> 5> >7 <' %7*5,=' >+ > * <' ' 5+7?=' * = ' = <'
57>>+' 753E : 73?> 5>= C+,%+ <' 3,52' &>7 ,5%' = ' &' %7574,%
>,B,>EW 5& 57< <' >+' E >+' 753E 75' = C,>+ *37\$ 3 <' %+[
?4 5 %>,B,>E + = +?*' ,4: %> 75 5?4\$' < 7) ,5>' <3,52' &
' 5B,<754' 5> 3 =E=>' 4=[,7&,B' <=,>E 37==W 3 5& %75B' <=,75W
: +7=: +7<7? = 5& 5,>7*' 5 37 &,5* <' 3 > 3' B' 3= C+,%+
% 557> \$' =?=> ,5' & ,) >+' ' <>+ ,= >7 <' 4 ,5 = + \$,> \$3' >7
+?4 5= = ,> 57C ,=[3 =>,%= C+,%+ <' 57C)7?5& : 73?>,5*
' B' <E 257C5 + \$,> > 75 ' <>+ <' 57>+' < ' D 4: 3' [+ ' ,<
: <7&?%>,75 + = <,'= 5 ,5' D7< \$3E =,5%' >+' ,< ,5><7&?%>,75 ,5 >+'
KSOJ = g ,5%' =,5* N0s 7B' <>+' : => &' % &' >7 7B' < MRJ 4,3,75
>755' = : ' < E' <

+ ' =+' ' < =% 3' 7) +?4 5 ,5&?=><E= \$,3,>E >7 ' D< %>W

%7574EW %737*E 5& +<=>, 5 >+,%= W LJ0

:<7&?%' W?=' 5& &,: 7=' 4' 5= >+ > C' 57C + B' *37\$ 3
'')) %>= >+ > : <' B,7?=' *' 5' < >,75= %7?3& 57> %74: <' +' 5&[?<
3' B' 3= 7) : <7&?%'>,75 5& %75=?4: >,75 >+<' >' 5>7 & 4 *' >+'

+ '=%75&W3,52' &)' >?' 7) >+')<' h4 <2' > '%7574E C+,%+
,= &<,B' < 7) ' 5B,<754' 5> 3 &' =><?%>,75 ,= >+' C E ,5 C+,%+ ,>
== ' == ' = B 3?' [+ ' 47=> C,&' 3E ?=' & 4' =?' <' 7) >+' =,F' 7)
5 >,75 3 '%7574E ,= <7== 74' =>, % <7&?%> d eWC+,%+ ,=
?? 3E &' G5' & = \$',5* >+' B 3?' 7) 33>+' *77&= 5&=' <B,%' =
:<7&?%' & C,>+,5 ,>[,= <<,B' & > \$E &&,5* ? : 'B' <E>+,5*
>+ > ,= =: '5> 7< × &' & C,>+,5 5& \$E ' %+ %7?5>EW \$E

%3,4 >' %+ 5*' WB => C' 3+ C75|> = B' ?= ?53' == ,> =' <B' = >+'
: 7: ?3 >,75 7) >+' C7<3&jS
5) %>W ,4.75 ?F5' >=W>+' '%7574,=> C+7 &' B,=' & =
4' =?<' SJ E' <= *7WC = =7 %75=%,7?= 7) ,>= H C= >+ >
' <*' & ,> =+7?3&5|> ' B' < \$' ?=' &[' > &' =: ,>' ,> \$' ,5* =7
: <7\$' 4 >,% 5& 37 &' & C,>+ 1?&*' 4' 5>= \$7?>B 3?' W>7& E ,>
,=>+' 2' E' %7574,% ,5&,% >7< 7) *<7C>+[

+ ' : ?<=?,> 7) ?5%75=>< ,5' &)<' ' 4 <2' >=<' =>= 75 5 <<7C
?5&' <=> 5&,5* 7))<' ' &74 C+,%+ + = 57 \$ =,= ,5 +<,>, 5
'>+,%=W C+'<')<' ' &74= 5& <,*+>=<' 3C E= \$ 3 5%' & \$E
<' =: 75=,\$,3,>,'=[
+ ' \$\$ >+ 5& ?\$,3' ' 3 C= ='> 7?> ,5 %+ :>' < L0 7) >+'

M[,>' & ,5 '\$' %% ?&3' EMk '>C' ' 5 5& V
< &' 5&) ,>+ ,5 >+' * :! d?5: ?\$3,=+' & :<' = ' 5> >,75)7<
+<,=>, 5 ,&WLJJKe
N[7C 5 ,3, 4=W ,>+ ,5 >+' ?\$3,% ;? <' d 3774=\$?<EW
LJKLeW: [LLQ
O[7<3& 7?5%,3 7) +?<%+' =Wk %7574E 7) ,)' W ?=>,% W 5&
' %')7< 3W 3>7 %>,75I dLJKLe
P[,%+ <& ?%2+ 4Wk +' 744?5,>E 7) <' >,75I dLJKLeV
+>>: V`>+' <+,57[7<*[?2`7>+' <\$?%2+ 4C: `C: h %75>' 5>`
?: 37 &= LJKR`KK 744?5,>Eh7)h%<' >,75[: &)
Q['<5' < [' 5<75& u 7?* EWi +' ' %7574E ,=)7< 7&
C+,%+ 4' 5= ,> ,= 3=7)7< 4E 5' ,*+\$7?< 5& ,> ,=)7< 4E
5' ,*+\$7?< C+,%+ 4' 5= ,> ,= 3=7)7< 7&j d: : '<)7< +?<%+
7) %7>3 5& 744,==,75 75 >+' ?<: 7=' = 7) %7574,% %>,B,>EW
LJKLe
R[7C 5 ,3, 4=W ,>+ ,5 >+' ?\$3,% ;? <' d 3774=\$?<EW
LJKLeW: [LLJhK
S[?=>,5 ' 3\$EW =: ''%+ >7 7<& E7<I= 5; ?' > dLS
7B' 4\$' < LJLLeV +>>: =V`CCC[<%+\$,=+7: 7)% 5>' <\$?<E[7<`*`
=: ' 2,5*hC<,>,5*`=' <4.75=' <%+\$,=+7: hI?=>,5h=: ' 2=h37<&h
4 E7<=h \$ 5; ?' >
KJ[7<3& 7?5%,3 7) +?<%+' =W k +' %7574E 7) ,)' V 5
,5B,> >,75 >7 >+' 737* ,% 3<' H' %>,75 5& %>,75I dLJKNe
KK[7 4 ,75Wk 3 5%,5* 7%, 3 '=: 75=, \$,3,>E C,>+ <2' >
&7574,% =IW +' 7< +[74
KL[?=>,5 ' 3\$EW =: ''%+ >7 7<& E7<I= 5; ?' > dLS
7B' 4\$' < LJLLeV +>>: =V`CCC[<%+\$,=+7: 7)% 5>' <\$?<E[7<`*`
=: ' 2,5*hC<,>,5*`=' <4.75=' <%+\$,=+7: hI?=>,5h=: ' 2=h37<&h
4 E7<=h \$ 5; ?' >
KM[7<3& 3, 5%' 7) ')7<4' & +?<%+' =W k +' %<
75)' ==,75I dLJJNeW: < * < : + LL
KN[>' C7<>+W 7?*+5?> %7574,% =I ' B' 5 E=>7 +,52
,2' LK=>h ' 5>?<E %7574,=> dLJKQe

LKL w %7574EW %737*E 5& +<,=>, 5 >+,% =

KN[

G)- O.= "/ ". -". ".>H

! ' ,,\$ 1 & , *! & . '\$, !&+,
, \$% , *!+!

&& + 3 *#!&+

1 -1" 2

, 47< 7>>3' EW <,4' ,5,=>' < 7) >+' ': ?\$3,% 7) <\$ &7=W
+ = : 7C' <?)?3 : <' = ' 5%' 5& *37\$ 3 B7,%' >+ > =+' &' : 37E= ,5
%+ 33' 5*,5* 5& %74\$ >,5* ,==?' = 7) =7%, 31?=>,% [' <5 >,75=
G<=> 5& 753E)' 4 3' 3' &' <W =+' <' B73= * ,5=> %3,4 >'
,51?=>,%' WC+,%+ , = : 3 % ,5* >+' 3,B' = 7) <,\$\$' 5 : ' 7: 3' 5&
7>+' <=,5>+' 37\$ 3 7?>+,5 : '<3[+ ' &' 57?5%' =>+' i) %' 3' ==
)' Cj C+7=' &' % ,75= <')7<%,5* >+' C7<3& >7C <&= %3,4 >'
% > =><7: + '[+ ' , =)7<+<, *+>W>+' <')7<' W,5 &475,=+,5* >+ >
,> , = 57> ' 57?*+ >7 =: ' 2 7) i%3,4 >' %+ 5*' j = i)7< ?=
b <,\$\$' 5 : ' 7: 3' dW, > , = %< , = j[
+ , = : <' = ' 5> ,75 ' D: 37<' = 7>>3' E! = i' 4: ,<' h=?\$B' <>,5*j
i> 32j = ' B,&' 5> ,5 + '< ?44 ,> 7) >+' 4' <,% = LJLLW LP
5& LQ &B7% %E = C' 33 = >+' iC 32j 7) + '< : 73,%E 5&
' 5* *' 4' 5>W,5=: ,<' & = ,> , = \$E >+' <' B73?>,75 <E &,4' 5=,75

'=: '%, 3E +<,=>, 5,>EW>7 *<7?5& 5&)< 4' +'< 5 3E=,= 5&
>,75[
+ ' 3 E= 7?> =>' : = >+ > C' 4?=> > 2' 57C >+ > *7 \$' E75&
>+ ',5'))' %>,B' >>' 4: >= 7) *7B' <54' 5>= 5& \$, * \$?=>,5' == >+ >W
<*? \$3EW, *57<' W' D%?=' W' D>' 5&W 5& &' ' : ' 5 >+ ' %3,4 >' %<,-,=
>+ '= ' ,5%3?&' > <*' >' & ,5B' =>4' 5>=)7%?== ' & 75 =73B,5*
<<7?\$3,5* %3,4 >' : <7\$3' 4=W C+,3' =><,B,5* >7 GD >+ '
,5>' <5 >,75 3G5 5%, 3=E=>' 4 >+ >+ = &74,5 >' & C7<3&)) ,<=
=,5%' 7<3& < >7 >+ ' &' <,4' 5> 7) >+ ' 37\$ 3 7?>+ [

(/-) 0 /") (

i + ' %3,4 >' %<,-,=W 5& &75|> = E %3,4 >' %+ 5*' W>+ '
&3,4 >' %<,-,= ,= <' 3 5& >,4')7< %3,4 >' 1?=>,%' ,=
3=7 ? : 75 ?=[' % ?=') C' <' *7,5* >7 &7 >+ ' >+,5*=
>+ > <' 5' %' == <E >7 & : > >7 >+ ,= 5' C <' 3,>EW, > > 2' =
>,4' 5& ,>> 2' = 475' E|j , 7>>3' EW
LJLL[
, 47< 7>>3' EW <,4' ,5,=>' <W ,5,=>' <)7< >,75 3
' %?<,>E 5& >+ ' ,B,3 ' <B,%' W 5& ,5,=>' <)7< ,5 5%' W
&7574,%)) ,<= 5& 5B' =>4' 5> 7) <\$ &7=W+ = : 7C' <)?3
: <' = ' 5%' 5& *37\$ 3B7,%' >+ >+ ' &' : 37E= ,5 %> 33' 5*,5* 5&
&74\$ >,5* ,==?' = 7) =7%, 3 1?=>,%' [k B' <= >,3' W%+ <,-4 >,%
' : <=75 3,>EW , % 5 = ' =,3E &&<' == C7<3& 3' &' <= C, >,3E 5&
: 7C' <)?3EWG' <' 3E <' \$?)) %75&' =% ' 5&,5* ; ?' =>,75= : 7=' & \$E
17?<5 3,=>= 7< &<,52 \$' ' < C, >+ 7<&,5 <E 1 5= \$7?> C+7='
,5>' <' == =+ ' C,33 &' %3 <' iC' % <' j d 7\$' <=>75 LJLM,
37\$ 3 ?' =>,75= ?*?=> LJLKe[i = : <,4' 4,5,=>' <W=+' ,= 7) >' 5
=' ' 5 >)77& <?%2= 5& ,= 257C5 = , >7 % \$&<,B' <= 5&
<' : 7<' <=j d ?=>* <' 5 LJLLW 57 : *' e[7>>3' E| = C7<&= <'
C,&' 3E %,<%?3 >' & 75 =7%, 3 4' &, 5& <' : 3 E' & 75 5?4' <7?=
=>,' = =+ ' * <5' <= >>' 5>,75)7< >+ ' <,\$\$' 5 57> = ' ' 5 =,5%'
>+ ',5&' : ' 5&' 5%' 47B' 4' 5>,5 >+ ' KSPJ=[
' < 5 >,75= G<=>)' 4 3' : <,4' 4,5,=>' <W=+' <' B73>= * ,5=>

LKN w i 7< ?=W, > ,= <,-,=vj

%3,4 >' ,51?=>,%' WC+,%,+, =: 3 %5* >+' 3,B' = 7) <,\$\$' 5 : ' 7: 3'
5& 7>+' <= ,5 >+' 37\$ 3 7?>+ ,5 : '<,3[7 >+ > ' 5&W =+'
)7<>+<,*+>3E &' 57?5%' = >+' i) %' 3' ==)' Cj g >+7=' C+7 : ?>
:<7G>= 7B' < : ' 7: 3' g C+7=' &' %, =,75= <')7<%,5* >+' C7<3&
>7C <=&= %3,4 >' % > =><7: + ' d ' 5' < 3 ==' 4\$3E LJLKe[
>+')' <3' ==3E %75&' 45= i=>75* 4' 5 7) >+' *' 7) 7: ?3,=4W
C+7 \$?33E=4 33' <5 >,75= 57><' 3,=5* >+' E 5' ' & 4?3,3 >' < 3
C7<3& = 4?%+ = 5E75' ' 3= d 7>>3' E LJKSe[, = 7?>=: 72' 5W
>+' <')7<' W,5 &475,=+,5* >+ > ,> ,= 57> ' 57?*+ >7 =: ' 2 7)
i%3,4 >' % + 5*' j = i)7< ?= b <,\$\$' 5 : ' 7: 3' cW,> ,= %< ,=,jL
' < ,5&') >,* \$3' &B7% %E ,= &' 475=>< >' & ,5 +< LJLK
&&<' == >7 >+' QP>+ 5,>' & >,75= ==' 4\$3EW C+' <' =+'
)7<>+<,*+>3E 5& : ==,75 >' 3E =2' & +<)' 37C C7<3& 3' &' <=
,5 >+' C7<=&= 7) 7\$ <3' EWi 7C 4 5E 47<' X4?=> &,' W' >%j
\$')7<' >+' E %\ 5&' ' &W 7>>3' E ' D%' 3= > : ?\$3,% =+ 4,5*
d E5%+ LJLLe = =+' % 3= 7?> C7<3& 3' &' <=)7< \$<72' 5 : <74, ='
3' &,5* >7 37=> 3,B' = 5& 3,B' 3,+77&=[> >+' = 4' >,4' Wi + ' l=
<' 33E \$' ' 5 \$3' >7 >' 33>+' %74: ' 33,5* =>7<E >+ >25,>= 33>+' bXc
&,)')' <' 5>, =?' =) <74 G5 5%' >7 %3,4 >' >7 &' \$>>71?=>,%' >7 <' 3
: ' 7: 3' , =?' =W57>=74' 47<: +7?=> ,&' =j d 33E 7F' 33W&,' %>7<
7) >+' 5B,<754' 5> 3 ' %?<,>E : <7* < 44' > >+' >,4=75
' 5>' <,5 E5%+ LJLLe[

"" .) /! ! +/ -

+ , = %+ : >' < ' D: 37<' = 7>>3' E l= i' 4: ,<' h=?\$B' <>,5*j i> 32j^M =
' B,&' 5> ,5 +< LPW ?44,> 7) >+' 4' <,% = LJLLW 5&
LQ &B7% %E = C' 33 = >+' iC 32j 7) +< : 73,%E 5&

47B,5* +' < 5 >,75 >7 \$',5* >+' <,\$\$' 5l= 5& >+' C7<3&l=
5' C' => <': ?\$3,[5 %'3' \$< >,75 7) >+ > <': ?\$3,% 5 => >?=W
7>>3' E &' =,*5 >' & <\$ &, 5 :7: => <W '5><': <'5' ?< 5&
7)G%, 3 4\$ == &7<)7< %?&?<' 5& E7?>+W ,+ 55 d 7\$E5
,+ 55 '5>EeW = >,75 3 ' <7 7) <\$ &7=[33 7) >+ ,= C =
>7 &B 5%' +' < i&' %7375, 3 : < &,* 4W C+,%+W&' =: ,>' > 32 7)
: 7=>%7375, 3,>E ,5 7>+' < <,\$\$' 5 %7?5><,' = ?%+ = 4 ,% W
+ = 57> 3' & >7)7<4 3 =': < >,75)<74 >+' < ,> ,=+ 75 <%+E
d 7E%' h B,= LJLLe[

C7?3& =: ' 2)<74 >+' +' & 5& >+' +' <>W< >+' <>+ 5)<74
: <' : <' & =: ''%+ 75 : : '< d 7>>3' E LJJPe[+ > =+' ><?3E
\$'3,'B' = <' =75 >' = ,5 >+' %74 4 75 >+' 4' = >+ > <?5 >+<7?*' +
>+' < = 'B' < 3 &&<' == =W,5%3?&,5*v >+' : <' = '5%' 5& ,4: %> 7)
4?>,: 3' 5& ,5>' <3,52' & %<,' = _ >+' ,4 4' &, %E 7) >+' %<,' = _
>+' 'D>' <5 3 5 >?' <' 7) >+' %<,' = ,4: 7= ' & 75)7<4' < %7375,' =
: < %>, % 3 *37\$ 3 <' =: 75= ' <' ; ?,' &W' =: '%, 3E ,5 >+' C E 7)
<')7<4 7) ,5>' <5 >,75 3 G5 5%' <%+,>' %>?' <' W 5& <' 1' %>,75 7)
i>+' %75=><?%> 7) >+' 73& ,4: ' <, 3 7<&' <j C,>+ ,>= ,5' ; ? 3,>' =
d ?4 4,> 7) >+' 4' <,% = LJLKe[<4' & C,>+ <' 3' B 5> G*?' <' =
5& 257C3' &' *' 7) C7<3& G5 5%' =><?%>?' <' =W 7>>3' E ,= \$3'
>7 %<,> ; ?' 'D,=>,5* ?51?=> =><?%>?' <' = C+,%+ + B' %75<,\$?>' & >7
>+' 7<,* ,5 3B?35' < \$,3,>E 7) 5 >,75= 7) >+' 7?>+ =?%+ =>+7='
,5 >+' <,\$\$' 5W 5& >+' ,< %?<<' 5> ,5 \$,3,>E >7 <' =: 75& 5&

=> 5& <&= 4?=> \$' \$<7?*+> >7 >+' > \$3' ,5 7<&' < >7
5' *7>, >' ,5 *77&) ,>+[5&>7 + B' : ' <=75= =?\$1' %> >7
<?' =W>+' 5' *7>, >,75 7) C+,%+ >+' E + & 57 : <> 7)W,=

47B' = >7 &&<' == ,5&,B,&? 3E >+' '%<' > <Eh ' 5' < 3 5&
7>+' < ' D%' 33' 5%, '= >' 33,5* >+' 4 <' : ' >' &3EWi>+' <' ,= =7 4?%+
<<7?&\$3' ,5 >+' C7<3&jj[' > 3 4' 5> ,= 57> =,4: 3E +7: ' 3' ==_ ,> ,=

X25 %2)7<+ <5' ==,5* >+' : 7C' <7) : 7: ?3 <3 5*? *' W
=75*W 5& %?3?<' >7 > %23' %<,<= *' 5' < 33E
%74 4?5,% >' & ,5 >+' =>,3' & 1 <*75 7) %3,4 >' =%, '5%'
5& &,: 374 %E f 3,) ' 7< &' >+ 4 >>' < >+ > 7)>' 5 *' >=
37=> ,5 \$=><?=' &,<=?==,75= \$7?> 37== 5& & 4 *' W
4,>,* >,75W & : > >,75W 5& &' h<,<=2,5*[d E5%+ LJLLW57
: *' e

> LPW=+' % 33' & ? : 75 ?E 5' =' h <,>,<+=75*C<,>' < 5&
: ' < >7<4' < ' D<< 7<&,5 ,<' &&,' < 5>|= KSQR +,> i ,B,5* 75 >+'
<75>3,5' j >7 =2Wi +7 C,3 47?<5 ?= 75 >+')<75>3,5' j \ +'
i?<j <' >+7=' C+7 3,>' < 33E 3,B' 75 >+')<75>3,5' 7) >+' %3,4 >'
%<,<=g)<,% W>+' <,\$\$' 5W >,5 4' <,% 5&>+' %,G%[
+' %75>,5?' = * ,5 > ; ?7>,5* <3' E|= i 7 4?%+
><7?3' jV i 7? =' ' 4' 5 = ,3,5* 75 >+' ,< ' *7 >,<: [3 => 7)) 75
>+' ,<=: %' =+,: W4,33,75 4,3' =)<74 <' 3,>E[7 % <')7< E7?[7
% <')7< 4' j[+' >' 33= +' < ?&,' 5%' 7) 4 ,53E C+,>' 5& 4 3'
3' &' <=WC,>+ C+74 =+' 5 >?< 33E %3 ,4= ' ; ? 3)77>,5*W>+ >=+'
&7' = 57> 5' ' & >+' 4 >7 17,5 +' < ,5 =,5*,5* >+' 3,5' =W\$?> >7
17,5 ,5 i%+7<?<= 7) %>,75 >+ >7?< : ' 7: 3' 5' ' &W57> C 5>[?<

<' =73B' >+' ,==?' = 7) >+' ' %7574,% * :=%' >' & \$E %7375, 3,=4W
C+,%+ <' %?<' 5>3E) %' & \$E <,\$\$' 5 5 >,75=[5 +' <
: <,>,%,: >,75 ,5 7>+' <)7< =?%+ = >+' ' : < >,75=)7<?4 ,5
?3E LJJ 5& +' < <73' = + ,< 7) W =+' + =

&< 4 >,% 3E ,5%<' = ' &' \$>h=' <B,%5* %7=>= 5& < ,=' >+'
=: '%><' 7) &' \$> %<,,= ,5 >+' *37\$ 3 7?>+[?<>+' <47<' W>+'
%74\$,5 >,75 7) %<,'= g 7< : 73Eh%<,'= g ,=' >7 +,> >+' : 77<' =>
: ' 7: 3' >+' + <&' =>W: ?=+,5* +?5&<' &= 7) 4,3,75= &' ' : '< ,5>7
: 7B' <>E[+ ' %?<<' 5> =E=>' 4 7: '< >' = >7 >+' &,,= &B 5> *' 7)
<,\$\$' 5 5&)<,% 5 5 >,75=[+',<?5,,;?' %,<%?4=> 5%' = <' 57> %7?5>' &)7<

) (& 0 " (!) 0 ! / . <) & " (! "-

, 7>>3' EW' B' <>+' : < * 4 >,>W3 E= 7?> =>' : = >+ > C' 4?=>
> 2' 57C >+ > *7 \$' E75& >+' ,5'))' %>,B' >>' 4: => 7)
*7B' <5 4' 5>= 5& \$, * \$?-,5' == >+ >W <?* \$3EW, *57<' W' D%?=' W
' D>' 5&W 5& &' ' : ' 5 >+' %3,4 >' %<,,=[j + > C' <' 47<'
>75%' <5' & C,>+ *' 5' < >,5* : <7G>= >+ 5 = B,5* : ' 7: 3' W =+
= ,&Wj, = : '<+ : =>+' *<' >' =>%75&' 45 >,75 >+ > % 5 \$' 4 &' 7)
> 7?< *' 5' < >,75j d ?=>* <' 5 LJLLe[' < =73?>,75= ,5%3?&'
> <*>' & ,5B' =>4' 5>=)7%?==&' & 75 =73B,5* ><7?\$3,5* %3,4 >
> <7\$3' 4=W C+,3' =><,B,5* >7 GD >+' ,5>' <5 >,75 3 G5 5%, 3
=E=>' 4 >+ >+ = &74,5 >' & C7<3&)) ,<= ,5%' 7<3& < >7
57>' 88.9374855> 7)>455.0727 (448229699815813.06079 =>12.98020241(391410622899B
< : 3.06242(& 1.97917 (* 4%)70238917(&, 0.042659)14.0211(' =>702389173&)6

<\$ &7= 5& 4 ,% WC+,%+ <' \$ >>3,5* >+' '))' %>= 7) >+'
%3,4 >' %< ,=,=[77<' < %7?5><,' = \$7<<7C > +, *+< ,5>' <' => < >' =
5& 753E)< %>,75 7) >+' G5 5%,5* 5'' &' &>7 & :>>7 >+'
%3,4 >' %< ,=, = B ,3 \$3' [74: 7?5&,5* >+ ,= ,= >+') %> >+ >
C+' 5 &' B' 37: ,5* %7?5><,' = &7 > 2' 75 37 5=>+' E <')7<' & >7
?5&' <> 2' 4' =?<' =>+ >%74: <74,=' >+' ,< \$,3>E>7 4'' >>+'
\$ =,% 5'' &= 7) >+' ,< : ' 7: 3' [
B' 5 = =+' 3 4' 5>=Wj 14 = E,5* >+' = 4' >+,5* = 7B' < 5&
7B' <W7B' < 5& 7B' <[[7? \$' *,5 >7)' '3 = >+7? *+ E7?k' *7,5*
%< FEj d 7>>3' E ,5 ?=>* <>' 5 LJLLeW=+' ,= ,5&') > ,* \$3' ,5 +<
> : ?<=? ,>| i 3,4 >' &7' = 3' & >7 = ' <,7? = ,==?' = >+ > % 5 3' & >7

&'': = ' 5=' 7) ?<*' 5%E \$7?> +' <> =2 5& >+' 7&&= >: 3 E[)
+' < <73' =+' = E=Wi > ,=)73&,5* %+ ,<>+ > IB' \$<7?*+> >7 >+'
> \$3' X 5& 4 E C' 3+ B' >7 C 32 C E C,>+ ,> C+' 5 4E >,4'
' 5&=j d 7?5*' LJLKW57: *' e[

)-%. "/

&, E' W \$ % <[, 7>>3' EV ' 4?=> <' &' =,*5 >+' C7<3&
G5 5%, 3 <%+>' %>?'<' [)<,% 5 ?=,5' ==[7B' 4\$' <WLJLL ==?'
NSRW: NP[

7E%' B,' =W <73' [3 %2 74' 5|= ,*+>=V ' &' <=+, : 5&
>+' ,<%?3 <,>' = 7) 7C' <[5+ 4V ' D,5*>75 772=WLJLL[

\$<' < W <,>=, 5 75F 3' F[<\$ &7= ,*+ 7?<>
' %<,4,5 3,F' = E ' D_ >+' < <,\$\$' 5 >,75= +7?3&
' : ' 3 C= <,4,5 3,F,5* 4' h ' D 75&?%>[?4 5 ,*+>=
>+>[' %' 4\$' <KNWLJLL[

>+>: =V`CCC[+<C[7<*' 5' C= `LJLL`KL`KN` \$ <\$ &7=h+,*+h%7?<>h
&' %<,4,5 3,F' =h* Eh=' D

== ' 33W ' >+' <[<\$ &7= ' 3' %>= : <7h)' 4 3' : <,4'
4,5,>' <[E <' ' : 7<>' <W ' &5' =& E E MJWLJKR[

>+>: =V`CCC[' \$ <[74`=>7<E]: +: \LPJPMJ

' 33' =W B,&[7C' <?)?3 3,4 >' ' &' < <74 4 33 =3 5&
>,75[' %' 4\$' <KNWLJLL

>+>: =V`CCC[5E>,4' =%74`LJLL`KL`KN`C7<3&` 4' <,% =`4, h
47>>3' Eh%3,4 >' h%+ 5*' h\$ <\$ &7=[+>43

7B' <54' 5> 7) <\$ &7=[+ ' LJLL <,&*' >7C5 5,>, >B')7<
>+' ')7<4 7) >+' 37\$ 3 ,5 5%, 3 <%+>' %>?'<' [' 3' = ' &
' : >' 4\$' <LMWLJLL[

>+>: =V`* ,=\$ <\$ &7=[*7B[\$\$ &7C537 &`>+' hLJLLh\$ <\$ &7=h
*' 5& `

* 5W 733E[, 7>>3' E[?<<' 5> \$,7* < : +E E' <\$772 RM[K
dLJLLeV LNhLS[

' 5<EW 5' => [k 7&l 7< k <' >7<l\ >+' <3' EW 7>>3' E >?==3'

LLP w i 7< ?=W,> ,= <,>=Vj

'5' < 3 u ,5,=>' < 7) 74')) ,<= 7) <\$ &7=W +' '7<*'

37\$ 3 ?'=>,75= g 3,4 >' + 5*' 5& >+' <,\$\$' 5[
+>>: =V`E7?>?[\$`DF& 4 S
<\$ &7=g <,4' ,5,=>'< &&<' ==' = 5,>'& >,75= ' 5'< 3
'\$ >' W QP>+ '==,75 d 5*3,=+e w Z [5,>'& >,75=
7? ?\$' W ':>' 4\$' < LJLK[
[+>>: =V`CCC\[E7?>?\\$' \[%74`C >%+\BoCFa3 5 EM R](#)

(O) / .

?=,5* >+' : +< =' i <' >7<j ,5=>' & 7) 7& ,5 >+' + < <' < 7)
<\$ &7=W &<)>' & ,5 :<' : < >,75)7< >+' >< 5=,>,75 >7
<' : ?\$3,% 5 => >?=['' 5' => ' 5<E dLJLKe[
0[7>>3' E ,= 3=7 %7h%+ ,< 7) >+' 7<3& ' 3+ <* 5,= >,75l=
*37\$ 33' &' <=+, : *<7?: 75 5>,4,%<7\$, 3<' =,=> 5%' [

i 7< ?=W,> ,= < ,=,=Yj w LMK

KO[

"/! F -"1 () " & /") (< ..) (.
-)' 2".! 0 /") (

// & (

' C, =+ =7%, 3 1?=>,%' '&?% >,75 ,= 5 %>,B' 5& * <7C,5* G' 3&
7) : < %>,%' W ' 5%74: ==,5* &,B' <=' < 5*' 7) *' 5& = 5&
< %>,%' =V >' %+,5* ' C, =+ >' D>= 5& B 3?' = <7?5& ,==?' = 7)
<')?' *' '=W+?4 5 <,* += 5& ' 5B, <754' 5> 3 1?=>,%' _7 <* 5, =,5*
4' 4\$' <= 7) >+' ' C, =+ %744?5, >E >7 7: : 7=' >+' 7%?%?: >,75
7) >+' 3' =>,5, 5 >' <<, >7<,' = 5& =?%: : 7<> >+' =< ' 3, ')>
&B 5%,5* *' 5&' < ' ; ? 3, >E 5& n ,5%3?=>,75 C, >+,5 >+'
>+<7? *+ ,5)7<4 3 ' &?% >,75 5& << ,5,5* _
' 5* * ,5* ' C, =+ =>?&' 5>= ,5 B73?5>' ' < =' <B, %' h3' <5,5*
<:71' %>= >7 33' B, >' : 7B' <>E ,5 >+' &' B' 37: ,5* C7<3&_ \$?,3&,5*
,5>' <h) ,>+ %7 3, >,75=>7 C7<2 75 37% 3 *' 5& ==?%+ =+7?=>,5*W

\$E >+,52' <= 5& : < %>,>,75' <= C+7 %75=,&' < >+' 4=' 3B' = >7 \$'
: < > 7) >+' k ' C,=+ =7%, 3 1?=>,%' ' &?% >,75! ' 5>' <: <,<=' [+,=
: : '< &< C= 75 4E >>' 4: >= >7 %75=><?%> >+' 7<' >,% 3
)7?5& >,75=)7< >+' ' 5>' <: <,<=' 7) ' C,=+ =7%, 3 1?=>,%'
' &?% >,75[+7: ' 4E =?*' *' =>,75= C,3 =>,4?3 >' &,%?=?=,75 75
+<,<=>, 5 5& 7>+' <) ,>+h\$ = ' & : : <7 %+' = >7 =7%, 3 1?=>,%'
' &?% >,75W 5& >7 ' 5B,<75 4' 5> 3 1?=>,%' ' &?% >,75 ,5
: <,<,%?3 <{
')7<' ' 4\$ <2,5* 75 5 ' D: 37< >,75 7) ' C,=+ : : <7 %+' = >7
=7%, 3 1?=>,%' ' &?% >,75W C 5>>7 \$' * ,5 C,>+ =+7<> &,%?=?=,75

<' 3 >,75=+, : >7 =>?&' 5> =?%%' ==[= 5 ,5=> 5%' W%75=,&' < >+'
%75&,>,75= 3' &,5* >7 &,=%, : 3,5 <E %>,75 ,5 >+' %3 ==<774[+E
&7 >' %+' <= =%73& =>?&' 5>=\ ' % ?=' >+' =>?&' 5> + = * ,B' 5
C<75* 5=C' \ ' % ?=' W>E = + ' 4 , * +>W+') ,3= >7 * < = :
>+' ,5>,< % , ' = 7) 375* &,B,=,75\ 7> ?=? 3E[>+' <W=>?&' 5>=
<' %74 4 753E =%73&' &)7< %74,5* ,5>7 >+' <774 3 >' 7<)7<
4 2,5* >77 4?%+ 57,=' 7<)7< 57> 3,=>' 5,5* >7 >+' >' %+' <I=
&,<' %>,75= 7<)7< : ?=+,5* C+,3' ,5 3,5' [+ ' >' %+' <I= C< >+W
,5 7>+' < C7<&=W,= 47<')<' ; ?' 5>3E < , * * ' <' & \$E B,73 >,75= 7)
,5=>,?>,75 3 <' *?3 >,75= 5& <7?>,5' = >+ 5 \$E =, * 5= 7) +,=
=>?&' 5>=I ,5>' 3' %>? 3 &' G%, ' 5%, ' =^M[

+ ' 5 & 7,5* =7%, 31?=>,%' ' &?% >,75W,> ,=57>' 57? * + >7)7%?=
75 >+' ' D: 3%,> %?<<,%?3?4 7< =? \$1' %> 4 >>' <V,5)7<4 >,75 \$7?>
>+' %3,4 >' %< , =W< % , =4 7< +74' 3' ==5' ==W7< ' B' 5 >+' 47< 3
5& <' 3, * ,7? = B 3?' = C' <' ><E,5* >7 >' %+[' 3=7 5' ' & >7
<' H' %> 75 >+' +, &&' 5 %?<<,%?3?4 C' <' \$<,5* ,5* >7 \$' < 5&
>+' ,4: %> >+ , = + = 75 7?< =>?&' 5>=I &' B' 37: 4' 5>[+ , =
,5%3?&' = \$' + B,7?< 3' D: ' %> >,75=W,5=>,?>,75 3 << 5* ' 4' 5>=W
==?4: >,75= \$7?>>' %+' <h=>?&' 5><' 3 >,75= 5& >+' 5 >?<' 7)
3' <5,5* [

0&) - "- J. -"/" &+) 4

7C & 7 & ,))' <' 5> 47&' = 7) 3' <5,5*))' %> >+' : <7%' == 7)
=7%, 31?=>,%' ' &?% >,75\ < F,3, 5 ' &?% >7< 5& = ' 4,5 3%<,>, % 3
: ' & * 7*?' ?37 <' ,<' 5=C' <= >+ , = ; ?' =>,75 \$E : <7: 7=,5*
& ,=>,5%>,75 \$' >C' ' 5 >C7)?5& 4' 5> 3E & ,))' <' 5> 47&' 3= 7)
' &?% >,75[

<' ,<' >' <4= < & ,>,75 33,\$' < 3' &?% >,75 C+,%+ ,4=>7 ,4: <>
,B' 5 \$7&E 7) 257C3' & * ' k\$ 52,5* ' &?% >,75W,5 <')' <' 5%' >7
>+' ,&' 7) >' %+' <= 4 2,5* &' : 7=,>= ,5 >+' ' 4: >E 4,5&= 7)
<' %' : >,B' =>?&' 5>=[<' ,<' %3 ,4= >+ >>+ , = 47&' 3 7) ' &?% >,75
&' +?4 5,=' = ,>= =>?&' 5>= C+,3' 3' * ,>,4, i, 5* 5& : ' < : >? >,5*
' 5' ; ? 3 5& 7: : <' ==,B' =7%, 3%75&,>,75=[5 <' ,<' I= C7<&=W

h b c 52,5* ' &?% >,75 4 ,5> ,5= 5& ' B' 5 =>,4?3 >' =
>+' %75>< &, %>,75 h\$' >C' ' 5 >' %+' < 5& =>?&' 5>c

LMN w ,>+h <,B' 5 7%, 3 %>,75V ' ==75=)<74 ' C,=+ &?% >,75

>+<7?*> >+')7337C,5* >>,>?&' = 5& :< %>,%' =W C+,%+
4,<<7<7: :<' ==,B' =7%,>' >E = C+73' V
d e>+' >' %+'<>' %+' = 5&>+' =>?&' 5>= <' > ?*+>_
d\$e >+' >' %+'< 257C= 'B' <E>+,5* 5&>+' =>?&' 5>=
257C 57>+,5*_ d%e >+' >' %+'<>+,52= 5&>+' =>?&' 5>=
<' >+7?*> \$7?>_
d&e >+' >' %+'<> 32= 5&>+' =>?&' 5>= 3,=>' 5h4' ' 23E_
d'e >+' >' %+'< &,%,: 3,5' = 5&>+' =>?&' 5>= <'
&,%,: 3,5' &_
d)e >+' >' %+'< %+77=' = 5& ' 5)7<' = +,= %>7,%' W 5&
>+' =>?&' 5>=%74: 3E_
d*e >+' >' %+'< %>= 5&>+' =>?&' 5>= + B' >+' ,33?=?,75
7) %>,5* >+<7?*> >+' %>,75 7) >+' >' %+'<_
d+e >+' >' %+'< %+77=' =>+' :<7* < 4 %75>' 5>W 5&>+'
>=>?&' 5>= dC+7 C' <' 57>%75=?&' &e & :>>7 ,>_
d,e >+' >' %+'< %75)?=' =>+' ?>+7<,>E 7) 257C3' &*'
C,>+ +,= 7C5 :<7)' ==,75 3 ?>+7<,>EW C+,%+ +' ='>= ,5
7: :7=>,75 >7 >+')<' ' &74 7) >+' =>?&' 5>=_
d1e >+' >' %+'< ,=>+' ?\$1' %> 7) >+' 3' <5,5* :<7%' ==W
C+,'3' >+' :?: ,3= <' 4' <' 7\$1' %>=N||
52,5* ' &?% >,75 >+' <')7<' ,5+,\$>= %<' >,B' W %<,>, % 3
>+,52,5* 5& ,5,=>= 75 + \$,>? >,5* +?4 5 \$' ,5* = >7 5
7: :<' ==,B' <' 3,>E C+,%+ ,= =E575E47? = C,>+ >+' 5 >?< 3 7<&' <
5& >7 C+,%+ >+' <' <' >+' <')7<' 57 3' <5 >,B' = [52,5*
' &?% >,75 3=7 47&' 3= ?>+7<,> <, 5 : 7C' <' 3 >,75= \$' >C' ' 5
>' %+'< 5& =>?&' 5>= C+,'3' 4 =2,5* ,>= 7C5 =7%, 33E 7: :<' ==,B'
5 >?<' 5& :<' = ' 5>,5* ,>= ' 3) = %, ' 5>,G% 5& ,&' 737* ,% 33E
5' ?>< 3]
<' ,<' &' B' 37: ' & < &,% 3 5>,&7>' >7 \$ 52,5* ' &?% >,75 ,5
>+' %7?<=' 7) +,= C7<2 C,>+ ,33,>' <' >' < F,3, 5 : ' = 5>= ,5 >+'
KSOJ= 5& PJ=0 [>+' <>+ 5 >' %+,5* <' &,5* 5& C<,>,5* ,5
>+' × &,>,75 3 4 55' <W <' ,<' = ' > \$7?> %<' >,5* %?&?<'

<>,%,: 5>= C' 5> 75 >7 3' <5 >7 <' & 5& C<,>' %7<'
B7% \$??3 <EW *<7?5&' & ,5 >+' ,< ,44' &, >' 'D: '<,' 5%' 5&
)7<4??3 >' & =7 = >7 %75> ,5 >+' \$ =,% : +75' 4' = 7) 347=>
'B' <E 7<? *? ?' = ' C7<&[,>+,5 = 3,>>3' = >+,<>E +7?<=W
: <' B,7? = 3E ,3,>' < >' =>?&' 5>= C' <' \$3' >7 <,>,??3 >' >+7? * +>h
7?> 7: ,5,75= \$7?> : 73,>, % 3 5& =7%, 3 ; ?' =>,75=W \$7>+ 7< 3E
5& ,5 C<,>,5*[<' ,<' >><,\$?>' & >+' =?%%' == 7) +,= 3,>' < %E

75 &B < >7< +W +' B<?> 5& 4 +372' > ,= ' C,=+ : ' & *7*E
\$' % ?=' ,> &' B' 37: =>+' + \$, >= 7) 4,5&W: < %>,%' 5& +' <>>+ >
,5 +,= B,' C %75=><?%> %7+' <' 5> 5& C' 3h,5>' * < >' & ' C,=+
,&' 5>,>E[

)7< 'D 4: 3' > 2,5* =>?&' 5>= >7 B,=> ' 3&' <3E <' =,&' 5>= 7) % <
+74' =W=+' <' H' %>=>+ >>+' =%+773= ,4 ,=)7<>+' 4V
IX >7 + B' >+ > 'D: '<,' 5%' ,5 >+' ,< \$ 52 7)
'D: '<,' 5%' =Tid [4B1.93.79: '< 71.93.68' 229<D945\$'

%755' %>,75= \$' >C' ' 5 >+' : <7* < 4 4' 5& >+' \$,7* < : +, '=
5& ,55' < C7<3&= 7) >+' : <>,%,: 5>=V
lb c5' 2,& ,5 : <>,??3 <% 4' ,5>7 4E 7)G%' ,5 \$<' 2
>,4' W 5& +' C = 3,2' Wk <' 3E 5' ' & E7? < +' 3: W+ ' C = 3,2' W
k14 >E,5* >7 <' = ' <%+ %+ <,>,' = >+ > &' 3 C,>+ &74' =>,%
\$?=' W\$?> % 5 753E G5& 75' = >+ > &' 3 C,>+ &74' =>,%
\$?=')7< C74' 5W 5& C 5> %+ <,>E >+ > 3772=)>' <
&74' =>,% \$?=')7< 4' 5l[5& ,> C = 1?=> 3,2' + ' X
=74' >+,5* + ' l& <' 3EX &75l> 257C ,) >+' <' C = 3,2'
' : <=75 3 %755' %>,75W \$?> + ' l& <' 3E >+7? * >+ \$7?> ,>W
5& >+7? * >+ \$7?> C+E + ' C 5>' & >7 &7 ,>W 5& >+' 5 + '
3,2' X C' * B' +,4 >+' >773= <' 3EW 5& >+' 7: : 7<>?5,>E
>7 G5& 7?> \$7?> ,>W 5& >+' 5 >7 > 32 \$7?> >+ > >7 +,=
' : ' <=X[7 *?' == \$' % ?=' ,>= 3,2' =>?&' 5> 3' &W 5& ,>=)737C,5* >+' ,< ,5>' <' =>=W,>=)737C,5* >+' ,< : ==,75=|
,,=)7%?= 75 >+' *' 5?,5' 5' == 7) >+' =>?&' 5>=| <' =: 75=' ,=
4 >%+' & \$E 5' 4: + =,= 75 >+' ?>+' 5>,%,>E 7) >+' ' D: ' <,' 5%' ,>=' 3)[3E %74 4' 5>=V
k >+,52 >+' E <' 3EW <' 3E)' 3> 3,2' >+' E ?5&' <C' 5>
' %755' %>,75 C,>+ >+' <' 3 C7<3&[+ ' <' C = =74' >+,5*
X ,5 ,>W 5& 14 57> =?<' C+ > ,> C =W\$?> >+' <' C =
=74' >+,5* ,5 ,> >+ > >772 >+' 4 7?> 7) >+' %3 ==<774
5& ,5>7 >+' <' 3 C7<3&[E\$' ,> C = >+' % =+X + ' <
C = 37> 7) C' \$h\$ = ' & <' = ' <%+X[' 3' >+' 4 %74'
,5>7 >+' 7)G%' 5& : +75' >+' %+ <,>,' =X 7? 257CW ,>
C = <' 3E \$7?> >+' 4 <' %+ ,5* 7?> 5& >7?%+ ,5* >+'
7?>=, &' C7<3&X ?> >+' <' C = =74' >+,5* ,5>+ > : <7%' ==

k4E>+h\$?=>,5*I<' B' 3=74' 4\$,B 3' 5%' 75 >+,= %7<' e[+ ' 5
=2' & k&7 E7? >+,52 >+ ' <' <' 47<' 5& 3' ==><' C E= 7) = ' ' ,5*

5& ' 4\$ << ==4' 5> 'D: '<' 5%' & \$E 75') 4,3E C+7W)>'<
: <>,%,: >,5* ,5 + '< 7<* 5,= >,75|= :<7*< 4 4' =W \$' % 4'
&'': 3E ,5B73B' & = %>,B,=>=V
k =?=: '%> >+ ' E C' <' 3C E= =E4: >+ '>,%h,=+W\$?> >+ ' E
+ B' *75')<74 \$',5* =E4: >+ '>,%h,=+ >7 \$',5* k+,=
,= 57> =74' >+,5* C' % 5 => 5& \$ %2)<74 5& C' <'
7,5 >7 &7 ' B' <E>+,5* C' % 5 >7 + '3: X 5& >7 ' D: 7='
>+ ' B7,%' = 7) >+ ' : ' 7: 3' C' 4' >7 47<' 7) 7?<)<' 5&=W
C' k' *7,5* >7 +7=> ' B' 5>= ,5 7?< +74' = 5& *7,5* >7
* ' > 47<' : ' 7: 3' 75 >+ ' = <,: = [>+,52 >+ > % 4' &7C5
>7 k % 5> \$' 3,' B' IB' 5' B' < = ' 5 >+,= \$')7<' W % 5>
\$' 3,' B' ,5 33 4E 3,) ' W 3 >+ ' >,4' = IB' =: ' 5> ,5 = < ' 3X
5>' <' =>,5*3E ,> + = + : : ' 5' & >7 : ' 7: 3' C+7 + B'
+74' = 5& =: ' 5& 37> 7) >,4' >+ '<' g k+ > 57\$7&E
' B' < =+7C' & 4' >+,= [74' >,4' = >+ > ,= \$7?> =3,*+>
' 3' 4' 5> 7) : ' <=75 3 ' 4\$ << ==4' 5>W 5& k 4 <' 3E
>+ > : ' <=75 >+ > ,= =7 \$3,52' <' &\| [% 5> \$' 3,' B' >+ >
+ B' 3,B' & + '<' 33 >+ ' = ' E' <= 7) 4E 3,) ' 5& >+ '<' ,= \$,>
7)Wk C 5>>7 %74: ' 5= >')7<>+ > [
+ ' 5 &7' = ' 47>,75 =>7: \$',5* 5 7\$=> %3' >7
<< 5=)7<4 >,75 5& \$' %74' : 7=,>,B' : <> 7) >+ ' 3' <5,5*
: <7%' ==\ ' H' %>,5* 75 >+ ' ' D: '<' 5%' = 7) C74' 5|= <,: =+ '
7<* 5,=' &W=+ ' <' : 7<>=V
IX>+ ' >+,5* >+ >%+ 5*' & >+ ' ,<3,B' = ,=>+ > >772 >+ ' 4
>7 4' ' > * <7?: 7) C74' 5 C+7 <' \$,* %>,B,=>= ,5 >+,=

+' × 5=>,75)<74 =,>? >,75 7) &,%74)7<> 5&& 5*' <>7 75'
 7)) 4,3, <,>E 5&=)' >E=? : : 7<>' &>+' 47B' 4' 5>>7 = ' 5=' 7)
 7: >,4,=4 5& %>,B,=4 C,>+,5>+' : <>,%,: 5>=[
 +' \$,3>E >7 ,&' 5>,)E C,>+ * <7?: 7) 57>h>77h&,,))' <' 5> <73'
 47&' 3= 3=7 = ' ' 4= >7 + B' \$' ' 5 5 ,4: 7<> 5> =: '%> 7) >+'
 3' <5,5* : <7%' ==[4 < 4 2' = >+,= ' D: 3,%> C+' 5 =+' <' : 7<>=
 75 B,=> =+' << 5*' &)7< >+' C74' 5|= * <7?: >7 +' <5*=
 ,5B73B,5* >' ' 5 *' 3' =>,5, 5 &')' 5& 5>= > 5 <= ' 3, 4,3,> <E
 %7?<>,5>+' ' => 52V
 lb c,>+ >+' C74' 5 >+' <' C = 37> 7) k = 47>+' <l
 5& >+' <' C = 5 ' 3' 4' 5> 7) ,4 * ,5,5* C+ > ,> C7?3&
 \$' 3,2' = 47>+' <)7< E7?< G>' ' 5hE' <h73& =75 >7 \$'
 <<' =>' & ,5 >+' 4,&&3' 7) >+' 5,*+> \$E =74' 75' E7?
 &75> 257C 5& > 2' 5 C E)<74 E7?[>+,52 >+' E &&
 ,&' 5>,)E C,>+ >+ > 5 << >B' ' B' 5 >+7? * >+ >+' = ' C74' 5
 %7?3&5> \$' 47<' &,,))' <' 5>)<74 >+' 4[V + > &7 E7?
 >+,52 >+ > &,&>7 >+' 4\ 4 <l >+,52 ,> <' 33E =%<' C' &
 C,>+ >+' 4[+ ' E)7?5& ,> × ?4 >,% \$' % ?=' >+' E %7?3&
 ,4 * ,5' ,>[+ ' E C' <' >+,52,5* \$7?> >+' ,&' 7) E7?<
 %+,3&<' 5 \$' ,5* > 2' 5 ,5 >+' 4,&&3' 7) >+' 5,*+>W>,' & ? :
 5& \$3,5&73&' & 5& >+ > E7? C7?3&5> \$' \$3' >7 37% >
 >+' 4 \$' % ?=' >+' E <' ,5 =74' : 73,%' => >,75 >+ > E7?
 % 5> *' >>7W 5& >+' E <' 57> 33C' & >7 % 33 E7?[+ '
 >' <<7<W>+' <' C = = ' 5=' 7) k % 5 ,4 * ,5' >+' >' <<7< E7?
 C7?3&)' ' 3 = C7?3&)' ' 3 >+ > = 4' >' <<7<[V + >
 &7 E7? >+,52 >+' ,4: %> 7) >+ >, = 75 >+' : ' 7: 3' \ 4 <l
 5 7?< : ' 7: 3' \ >+,52 ,>, = 4 ==,B' \$' % ?=' ,> \$' %74' =
 \$7?> \$' ,5* +?4 5 \$' ,5* 5& ,>> 2' = C EX \$ %2 >7
 >+' =? \$' %>,B,>E 7\$1' %>,B,>E >+,5* C+,%+ ,= E7? = ' ' ,>)7<
 C+ > ,> ,=[+ ' >+' <>+, = 2,& + = >+<7C5 =>75' 7< 25,)'
 >+' E <' =>,33 2,& 5& + ' C,3 \$' × ?4 >,' &)7< >+'
 <' => 7) +, = %+,3&+77& = <' =?3> 7) >+ >' D: ' <' 5%' 5&
 C7?3&5> C 5> 4E %+,3&>7 *7 >+<7? * >+ >[]
)(80.)(
 +' : : <7 %+' = : <' = ' 5' & \$E 33EW + 374 5& 4 < 33

LNP w ,>+h <,B' 5 7%, 3 %>,75V ' ==75=>)<74 ' C,+ &?% >,75

'%+7 ' ' +?34 5l= =,*5 >?' : '& *7*,'=['B' < *,5*
: <>,%,: 5>=| 'D: '<,' 5%' = 5& %755' %>,5* >+' =' C,)+ ' C,=+
B 3?' = '%+7' = &B <>7< +W%75)<75>,5* %74:3' D,>E 5& &' \$ >
'B72' = 4 +372' >W 5& \$?,3&,5* <' 3 >,75=+,,: = &7B' > ,3= C,>+
+'B<?' [33>+<' ' : < %>,>,75' <=%3 ,4W,4: 3,%>3E 7<' D: 3,%>3EW>+ >
>+' ,< ' &?% >,75 3 4' >+7&= =?%%' ==)?33E ,5=: ,<' 3' <5' <= >7
=7%, 3 5& : 73,>% 3 %>,75W C+,3' =?=> ,5,5* >+' B 3?' = 7)

7=>4 5 5& + <3' = ' ,5* <05' <W ' %+,5* = ?\$B' <=,B'
>,B,>EW ' C 7<2V ' 3 %7<0' <' ==WKSPS[
Q[7< 'D 4: 3' ,475,&'=W ,+=5'+ 7< +W C= 7) 7< +
>?&E LIL 5& NNW[7< %75>' 4: 7< <E <' H' %>,75 7) >+,= B,' CW
=' ' <B' E ' 37B=2,W k 7 ,= 575h <0+7&7DW 57> i%<7==h
%74 4?5 3jW ' C,+= +<75,%3' W ?5' LO LJJS[\$\$, ' 37B=2,
%74 4' 5>= >+ > : 3?< 3,=4 ,=<' %75%,3 \$3' C,>+ 7<0+7&7DE 5&
=> >' = k+ ' 7\$B,7? =) %> >+ > %+,3&<' 5 5' ' &' %' <0 ,5>EW = ' 5='
7) ,4: ' < >,B' 5& G<4 ,&' = >7 + ' 3: >+ ' 4\$?,3& 4' 5,5*)?3
%755' %>,75 >7 >+ ' ,<) ,>+[
R[' ' [+?34 5W k ' & *7*,' = 7) 5>' <: <' > ,75W
<*?4' 5> ,75W 5& 7<4 ,75V <74 5&' <=> 5&,5* >7
&' 5>,E ,5 ' C,+= &?% ,75W 7?<5 3 7) ' C,+= &?% ,75 QNW
57[=?: K d0 ' %' 4\$' <LJJReV0gKO[
S[,&5' E %+C <FW ?& ,=4 5& ?=>,%' V + ' ' C,+= ==,75
>7 ' : ,< >+ ' 7<3&[' : <,5> ' &,>,75[77&=>7%2W >V ' C,+=
,*+>= ?\$3,+=,5*WLJJR[
KJ[?37 <' ,<' W ' & *7*E 7) >+ ' : : <' ==' &WOLgOP_ ,*?' 3
=%7\$ <W ?37 <' ,<' 75 ,*+' < &?% ,75V , 37*?' > >+ '
>,75 3 5,B' <=>E 7) ' D,%7 d <' ==WKSSNeWKNSgOK[
KK[?37 <' ,<' W + ' 73,>,%= 7) &?% ,75V ?3?<' W 7C' <W 5&
,\$' < >,75 d <' ' 5C77& ?\$3,+=,5* <7?: WKSROeMMKhML
KL[<' ,<' W + ' 73,>,%= 7) &?% ,75WNJgNK[

,>+h <,B' 5 7%, 3 %>,75V ' ==75=>)<74 ' C,+= &?% ,75 W LNS

5B,<754' 5> 3 < D,= w LOK

KP[

)&4 (- !4 . (&/ -(/"1
)&) 4) "1"().." "&/" .

1 -1" 2

,<=>Wk+73E 5 <%+EI ,= 3' <5 >,B' 3 5*? *')7< k+ 2,5*&74
7) 7&W 57> <' : 3 %,5* k2,5*&74W =,5%' >+,= 3' <5 >,B'
'2,5*&74`' 4: ,<' ,= 37 &' & C, >+ >+' 7h: 73,>,% 3
=,*5,G% 5%' W\$?> k+73E 5 <%+EI)G<4= >+<' ' >+,5*= \$7?> ,>
g ,>= %744,>4' 5> >7 5>,h&74,5 >,75W ,>= %+ 7>,% &,<?: >,75
7) \$7?5& <' =W 5& ,>= : <' = ' 5%' ,5 4\$, *?,>,' = [' %75&3EW>+, =
,= <' 3' B 5> >7 >+' ' %737* ,% 3 % > =><7: + ' V C' 4?=> %+ 33' 5*'
&74,5 >,5* : : <7 %+ ' = >7 3)' d,5 >+' ' %' 5.0423(')52.0475555C8('

% 5 \$' ?5&' <=>77& ,5 &))' <' 5> C E=[5 >+,= %+ :>' <W =?*' =>
>+ >>+' 3' 5= 7) k 73E 5 <%+EW : <,%?3 <' 5B,=,75,5* 7) >+'
2,5*&74 7) 7&W % 5 ,33?4,5 >' >+'=' &? 3 %75%'<5=[
=' 5>, 33EW,) >+' *7 3 ,=>7 <' h' 4\$' & ,5 7?< >>,>?&' =W %>,75=
5& =><?%>?'<' = C E= 7) +757?<,5* >+' <,%+5' == 5& &E5 4,-4
7) <>+|= '%7=E=>' 4=W>+' 5 ,> ,= C,=' >7 ?5&' <=> 5& \$7>+ >+'
:<7\$3' 4= 5& =73?>,75= = \$',5* 5' %' == <,3E k' %737*,% 3 \$E
5 >?'<' _>+ > ,=W>+' E <' 57> =,5*?3 <\$?> : <> 7) C' \$ 7)
,5>'< %>,75=[k 73E 5 <%+EI ,= 5 : :<7 %+ C+,%+ B 3?' = 5&
&B7% >' =?%+ &E5 4,% C' \$[

' \$1 & * 1

5 >+' \$772 7) >+ >>,>3' W)737C 5&<' C + 52=L ,5 :<7: 7=,5*
>+ >>+' 2,5*&74 7) 7& 4 E)<?,>?33E \$' % 33' & 73E 5 <%+EW
\$<7 &3E)7<>+<' ' <' =75=[,<=>Wk 5 <%+EI ,5%,=,B' 3E % :>?'<' =>+'
4 ,5 &E5 4,% ,5>+' 3' <5 >,B' <' 34 C+,%+ '=?=: <7%3 ,4' &[
) k <%+EW)<74 >+' <' 2

: '<)' %>3E <' H' %> >+,=W\$?> <*? \$3E ,> ,= %37=' <>7 >+' 3' <5 >,B'
<' 3,>E

&74,5 >,75 \$E >+' C' 3+E 7< 'D: 37,> >,B' W \$E : >, <%+EW
=E=>' 4= 7) < %, =4W \$3' , =4W + ' >' <757<4 >,B,>EW 7< ,5&' ' & \$E

C+,%+)?' 3=>+' %75=?4:,>,75 7)>+' <>+['=' <%+=+7C=>+>
>+' %7?5>,<' = 7) >+' *37\$ 3 7<>+ <' <'=: 75=,\$3')7< SLs 7)
*37\$ 3' 4,=,75= ,5 'D%' == 7) : 3 5'> <E \$7?5& <E) ,<h=+ <' =⁰
,=>7<,% 33EW%7375, 3=4 C =>+' 4' 5= \$E C+,%+>+' % : ,> 3,=>
'%7574E C = ' 4\$' &&' & ,5 >+' : >>' <5=W)7< ,5=> 5%' W7) 5&, W
C+' <' ,5>' 5>,75 3: 73,%,' = 7) >+' <,>,+ 4: ,<' <'=?3' & ,5 KJJ
4,3,75 'D%' == &' >+=[^R 75>< <E >7 >+' : <7: * >' & B,' C >+>
> : ,> 3,=4 ' 5+ 5%' = +?4 5 C' 3) <' W & > ,5&,% >' = &?<,5*
,4: ' <, 3 'D: 5=,75 ,5 >+' KP>+ %' 5>?<EW% : ,> 3,=4 C7<=' 5' &
C' 3) <' WC+' <' = ,> ,=>+' 3 >' <=7%, 3 4 7B' 4' 5>= % 4: ,*5,5*
)7< <')7<4= C+,%+ <'=?3' & ,5 ,>= ' 5+ 5%' 4' 5>[^S 5) %>W>+'
B' <E *7C>+ C+,%+ ,=>7?*> 5&% ' 3' \$< >' & ,5>+' *37\$ 3 7<>+
C7?3& 57>+ : : ' 5 C' <' ,> 57>)7< 5' > 7) 3 \$7?<
5& <' =7?<%' =)<74 >+' *37\$ 3 7?>+W &' : <,B,5* : 77<' <
>7?5>,<' = 7) >+' 4' 5=>7)7?=? 75 +?4 5 C' 3) <' _^{KJ} >+ > ,=>7
= EW>+' 4: ,<' ,=>% <> ,53E 3,B' 5& 2,%2,5*[
>+' G<=>> =2W>+' 5W7) 73E 5 <%+E ,=>7 'D: 7=' 5& &&<' ==
>+' =E=>' 4= 7) &74,5 >,75 g ,5 : ' <=75 37<=7%, 3 <' 3 >,75=+; : =W
,5: 73,>, % 3 5&' %7574,%=><?%>?<' =W 5& ,5 7?< : : <7 %+>7 >+'
<>+[
>+' =' %75& &,4' 5=,75 7) 73E 5 <%+E ,=> ,>= C2C <&5' ==[
> ,=> 57> =,4: 3E 4 >>' <7) 75' %74 4?5,>E ,&' 5>,)E,5* 33>+>
,= C<75* C,>+ >+' C7<3& 5& : ' <)' %>3E &' 475=>< >,5* >+'
& <5 >,B' [33%74 4?5,>,' = <' 4 ,5)]' %' &W' B' 5,5)' %' &W\$E
>+' B' <E &E5 4,%=>+' E = ' ' 2>7 << 5=)7<4[?<')])7<=> <' \$7>+
,4: ' &' & \$E 7?< 7C5 H C' & &, *57=,= 5& : <7*57=,=W 5&
>+C <>' & \$E =E=>' 4= C+,%+ %> * ,5=> 7?< \$' => ,5>' 5>,75=[
>+' : 7,5> ,=> 57> >7 &' =: ,< \$7?> >+ ,=>=>?*3' W\$?> >7 <' %275
+75' =>3E C,>+ ,>[+ ' %+?<%+W)7< ,5=> 5%' W,= 57> >+' ' : ,>74' 7)
7&l= 5' C <' 34_< >+' <WC' = ' ' 2 g 5& =>?*3' g >7 C,>5' ==>7
,>[' <' =,*5 7) ,>W: 7,5>,5* ,4: ' <)' %>3E >7 ,>= 4 5,) ' => >,75=
C+' <' B' <>+' E 4 E \$' W=74' >,4' = C,>+ ,5 ?= \$?> 7)' 5 7?>=,&'
7) ?=[' <')7<' > =>' 7) ,>W G<=>7?<=' \$?> 5' B' <>+' C+73'
\$ 5; ?' >W\$' % ?=' C' ?5&' <=> 5& 7?< %74: 3,%>E C,>+ =E=>' 4=
C+,%+ : <' B' 5> ' B' <E75')<74)' =>,5*) ,<3E[' <' 5 *' 5>

LOR w 73E 5 <%+E = 5 & <5 >,B' %737*E 7) ,B,5* 7==,\$,3,>' =

7) ,>WC7<2,5*)7< ,>W,5 : <>5' <=+,; C,>+ 7>+' <=W\$?> 5' B' < >+'
7 3,5 7?<=' 3B' =[' % 5 ,5&' ' & \$' \$73&W\$' % ?=' C' < ,+>3E
&,='<5 +7C 4: ,<' 7\$=><?%>=)?335' == 7) 3,) ')7< 3 %<' >,75[
>C' 4?=> 3=7 \$' +?4\$3' W\$' % ?=' C' &7 57>' D' 4: 3,)E>+'
?5&7,5* 7) 4: ,<' 7<>+' &' 475=>< >,75 7))?335' == 7) 3,) [' '
<' =,*5,G% 5>3E 47<' 3,4,>' & ,5 7?< %+, ' B' 4' 5>=W\$' % ?='
>+ ') 3=' 7& 7) 4: ,<' + = + ' 3& ?=' 5>+< 3' & 5& %7375,=' &
7?< : =E%+' 5& 7?< =E=>' 4=[
+ ' : 7,5> ,= >+ > 73E 5 <%+E ,= 5' %' == <,3E C2C <&
\$' % ?=' ,> > 2' = <77>' B' 5 475*=> %74 4?5,>,' = C+,%+) ,3>7
<' H' %> ,>)?33E[> &7' = 57> C ,>)7< : ?<,E_ ,> &7' = 57> C ,> ?5>,3
7?< C+73' +7?=' ,= ,5 7<&' <[5) %>W,> &,=7<&' <= 7?< = ' 5=' 7)
*77& 7<&' <W\$' % ?=' 7?< 5' >5' == 7< : ?<,,' = % 5 =7 7)>' 5 \$'
C E= 7) %3 ,4,5* >7 %75> ,5W7< : <' =?4,5* >7 <' =>< ,5W 7&=
<' >,B' 47B' 4' 5> 7) 37B' 5& 1?=>,%' [' ==?4' >+' <73' 7)
? <&, 5 7) >+' 2,5&74W=7 ,<75,% 33E 7B' <3772,5* C+' <' >+,=
5>,h2,5*&74 ,= %>? 33E 3,B' 5& C' 33[' C 5>>7 \$' ,557%' 5>W
= >+7?*' + 57> %7<<?: >' & \$E ,4: ' <, 3 =E=>' 4=W 5& C' C 5>>7
\$' >+' > 2' <= 7) ,5,> ,>B' W>+' &7' <= 7) *77&W=7 C') ,3>7 57>,%
+7C 73E 5 <%+E \$?<=>= >7 3,) ' B' 5 ,5 %75>' D>= 7) ,4: ?<,EW
4' == 5& &,=7<&' <W\$' %275,5* ?=>717,5 ,5[
73E 5 <%+E ,= C2C <& : <' %,' = ' 3E \$' % ?=' ,> % 557> \$'
>75> ,5' &_ ,> &,=<?: >= 7?< &' =,<')7< 7<&' <3,5' ==_ ,> *<7C= 3,2'
4?=> <& = ' ' & g 5 ?5C 5>' & 5& ,5B =,B' C' ' & g ,5 >+'
<% %2= 7) >+' =E=>' 4W 5& ,5 >+' %< %2= ,5 7?< 7C5 >>' 4: >=>7
>75><73 ,>[< ,> ,= 3,2' E' => k+ > C74 5 >772 5& 4,D' & X
>+<7?*' +7?> >+' &7?*' +I d ??' KM[LJhLKeW>7 ,5&, % >' +7C ,> C7<2=
C,>+ 5& >+<7?*' + >+' B' <E k,4: ?<,,' =I d3,2')?5* 3 E' =>e >7
\$<,5* < 5=>7<4 >,75W,5 5& 475*=> >+' B' <E=>?)) 7) ' B' <E& E
3,) ' < >+' < >+ 5 377) 7< &,B7<' &)<74 ,> 33[> ,=W >+' 5W

: < %>,%' = %75%' <5' & C,>+ ,5=,&' <= 5& 7?>=,&' <=[> ,= 57> 753E
>+ > >+' %+?<%+|= 7C5 '))7<=> <' H C' &W \$?> >+ > C' 4?=>
3' <5 >7 ='' 7&l= %>,B,>E 475*=> : '7: 3' W%74 4?5,>,' = 5&
47B' 4' 5>= 7?>=,&' 7) ?=[+,= &7' = 57> 4' 5 ,> ,=
?>74 >,% 33E ' B' <EC+' <' W 7) %7?<=' _ ,) ,> C' <' W ,> C7?3& \$'
) ,3,5* >7 4 2' 5E & ,=>,5%>,75= d\$' >C' ' 5 1?=>,%' 5& ,51?=>,%' W
37B' 5& 575h37B' e 7< ,> C7?3& 5' *3' %> >7 > 2' =,&' = dC+' <' =
,> &7' = ,5&' ' & > 2' =,&' = C ,>+ >+7=' C+7 + B' \$' ' 5 =,3' 5%' &W
=% : ' *7 >' & 5& = %<,G%' & \$E =E=>' 4= 7) &74,5 >,75e[
' B' <+>' 3' ==W ,> ' <?: >= ?5' D: ' %>' &3E ,5 33 =7<=> 7) : 3 %' =W
475*=>' B' 5 >+7=' C+7 7)>' 5 >+C <> ,>W\$' % ?=' ,>= B' <E *7 3
,=>+' ' 4' <* 5%' 7) &' ' : ' < 5' ,*+\$7?<3,5' ==[73E 5 <%+E ,=
77& >' <4)7< >+ ,= 2,5 &74W>+' <')7<' W\$' % ?=' ,> C,33 57>
\$' %75> ,5' & \$E 7?< : <' =?4 : >?7?>= 7<&' <3,5' ==[> % 33= ?> >7
37B' >+' =>< 5*' <W 5& ,> >' 33= ?> >+ > 7& %74' =>7 ?> ,5 >+'
=>< 5*' <WC,>+ * ,>=>)7< ?> >7 <' %' ,B' g * ,>=> 7) <,%+ ' D: ' <' 5%'
5& C,=&74[
' +=' W>+' 5W <' >+' &E5 4 ,%= 7) 73E 5 <%+E g & ,=4 5>3,5*
: >>' <5= 7) &74,5 >,75_ 3' <> >7 >+' C E= ,5 C+,%+ ' B' 5
3' <5 >,B' %74 4?5,>,' = <' 5' B' <>+' C+73' 5=C' <\$?> % 5

7< \$?,3& 3' <5 >B' %744?5,>,' =_ >+' = ' =: ,< >,75= <' 5' %' == <,3E ,5>' <%755' %>' &[
5&' <=> 5&,5* 7?<=' 3)W = +?4 5,>EW>7 \$' ,5>' * < >' & C,>+,5 C,&' < 5' >C7<2 7) 3,) ' W < >+' < >+ 5 => 5&,5* 7B' < ,> = ,>=&74,5 >7<W,= ' ==' 5>, 3W 5& >+, = ,5B73B' = >+' <')G<4 >,75 7) 5 3' <5 >,B' B,=,75 ,5 C+,%+ =E=>' 4= 7) %75><73W' D: 37,> >,75 5& %75=?4: >,75 <' < 5=)7<4' &[7< E5>+, 7' h 7\$' & W>+' +<,>, 5 % 33)7< k5' ,*+\$7?<h37B' l ' 5> ,3- <' 3 >,5* >7 >+' <>+ ,>=' 3) = 7?< 5' ,*+\$7?<W^{MM} 5& C,>+7?> =?%+ ' %737* ,% 3' 4\$< %' ,5 7?< B' <E ,&' 5>,>E =)737C' <= 7) ' =?=WC' &')E >+' 7& C+7 37B' = >+' C7<3&[7 ?5' <>+W=7 >7 =: ' 2W+7C >+' = ,*5,G% 5% 7) 33,) ' 75 <>+ + = \$' ' 5 \$?<' & >7 ?=WC,>+,5 %744?5,>,' = 7)) ,>+W,= 3=7>7 = ' ' +7C ,>= ' D: 37,> >,75 % ?=' = &,=: <7: 7<>,75 >' + <4 75 3 %2 5& \$<7C5 \$7&,' = 5& 75 C74' 5W\$' <,5* >+' %7=> 7) ' %737* ,% 3 %<,' = [7 >7 <' & ,=%7B' < >+' <>+ = 7?< %74475 5' ,*+\$7?<W = C' 33 = 7?< %74475 +74' ^{KN} >7 = ' ' C+ > ,> 4' 5= >7 > 2' = ' <,7?<3E ,>= C7?5&,5* > >+' + 5&= 7) 7?< ,4: ' <, 3 ' %7574 ,%_ 5& >7 <' %275 C,>+ >+' C E= ,5 C+,%+ =?%+ + <4 C7<2= ,>= C E>+<7?*+ ,5 7>+' < =: ' %>= 7) 7?< &74,5 >,5* =><?%>?' <' = 5& <' 3 >,75=+,; =W,= >7 <' =: 75& >7 >+' % 33) 7& C+7=' B,=,75 ,= 73E 5 <%+E

: <= 7) >+' <,%+ '%7=E=>' 4= 7) <+[' ' 5' '& >7 : : <'%, >' 7?< 4?>? 3 ,5>' <&' : ' 5&' 5%' ,5 >+' % ?=' 7) 47<' =?=> ,5 \$3')?>?' W' B' 5 = C' =<?*3' >7 3,B' C,>+>+' & 4 *' &75' >7 7?<%733'%>,B')?>?' [' <' >C,*=,5)7<' =>W: 3 52>75 ,5 5 7%' 5W 5& =7 75W>+7?*+ 57> C,>+7?> : 7C' <_< >+' <W3,2' >+' +?4 \$3' W)< *,3' \$?>>' <HE 7) %+ 7= >+' 7<EW%37=' 3E 3,*5' & C,>+ 73E 5 <%+EWC' 4 E 5' B' <+ ' 3' == : 3 E =4 33: <> ,5

%>B,>EW & 7,5* %+ 7=^{KQ}

,3?4,5 >,5* 5& < 5=)7<4,5*W>+' '%737*,% 3% > =<7: +' C'
: <,>,%,: >' ,5[
,>+ C+ > =+ 3 %74: <' >+' 2,5*&74 7) 7&W>+' 5\ >
,= 3,2' +73E 5 <%+EW 5 '%7>75' 7) : 7>' 5>, 3W \$?>>'<HE 7)
?5: <' &,%> \$,3,>EW <' ' 5'>C7<2W)?5* 3=E=>' 4W =+7<' h3,5'
7) 3 5&h=' ,5>' < %>,75W H7C 7) 4 E\$' W &' :>+ 7) 3 4' 5>W
<7C,5 C B' 7) =74'>+,5* %74,5*W =73,& <,>E 7) ,5>' ch

2,33' & KJJ 4,3,75 5&, 5= ,5 NJ E' <=jW 3i ' ' < WL ' % LJLL
[+>>: =V`>\[%7`+ L \)B L](#)

S[E3 5 ?3,B 5 5& =75 ,%2'3Wi : ,> 3,=4 5& 'D><' 4 '
: 7B' <>EV *37\$ 3 5 3E=,= 7) <' 3 C *' =W+?4 5 +' ,*+>W 5&
47<> 3,>E =,5%' >+' 375* KP>+ %' 5>?<EjW %, '5%' ,<' %>V 7<3&
' B' 37: 4' 5>W 73? 4' KPKW 5? <E LJLM [+>>: =V`>\[%7`
0 ' ; F4 2](#)

KJ[=75 ,%2'3 Wi 4: ' <, 3,=> :: <7: <, >,75 ,5 >+' C7<3&

KP[<<' >> 5& <3' EW

WKS[

KQ[<)7< <% ' 33 3>+ ?=h ' ,&W k 7& \$ '%74' = %+ 7=IV = ' '

KQ[

! -". /" (&" / /") (

++' &+ ' * , ! * - * 7

1 -1" 2

+ ' %3,4 >' %<=,=, = 5 ' 4' <*' 5%E 7) >+ ' * <' >' => 4 * 5,>?&' g
 >+ ' 47=> : <7)7?5& %<=,= ' B' <>7 \$') %' & \$E +?4 5,>E =,5%' >+ '
 33[+ ' ,4\$ 3 5%' \$' >C' ' 5 7?<=,5h&<B' 5 3?=>)7< &74,5 >,75
 5& >+ ' <' =7?<% ' = B ,3 \$3' >7 ?= ,5 %<' >,75 ,= 57C >+ <' >' 5,5*
 ' B' <E>+,5* >+ > ,= = %<' & 5& >+ ')?>?<' ' D,=>' 5%' 7) 33
 ,5+ \$,> 5>= 7) 7?< <>+ [

=> \$3,=+ ' & ,5 LJKLW +<=>, 5 3,4 >' %>,75 d eWC+,%+ + =
 %37=')G3, >,75 >7 D>,5%>,75 ' \$' 33,75WC =)7?5&' & 75 >+ '
 : <' 4,=' >+ >>+ ' ?5: < 3' 3' & ' B,3>+ >?5: ,5=>+ ' %3,4 >' %<=,=
 5& >+ ' &' &3E=7%, 3 5& *37\$ 3,51?=>,%' =>7 C+,%+ ,> ,= * ,B,5*
 <=' W&' 4 5&= < &,% 3 <' =: 75=' g 75' >+ >W>7 %7,5 : +< ='
 ?=' & C,>+,5 %3,4 >' %>,B,=> %,<%3' =Wi,= %744' 5=?< >' j C,>+ >+ '
 =% 3' 7) >+ ' %<=,=[<?=>< >' & \$E >+ ' 3 %2 7) =?%' == 7B' <)7?<
 &' % &' = 7) >E,5* >7 ,5H?' 5%' 7B' <54' 5> : 73,%E >+<7? * + >+ '
 ?? 3 &' 47%< >,% : <7%' == ' =W 5& ,5=: ,<' & \$E >+ ' <,%+ +,=>7<E 7)
 : <7>' => = =?%' ==)?3 4' 5= 7) \$<,5* ,5* \$7?> < : ,& =7%, 3
 %+ 5* ' W 4' 4\$' <= \$' 3, ' B' >+ > 575B,73' 5> & ,=<? : >,B'
 : <7>' => 5& % ,B,3 & ,=7\$' & , ' 5%' ,= 57C +<=>, 5 & ?>E[' =: ,>
 33 >+ ' =%, ' 5>,G% ' B,&' 5%' \$7?> >+ ' & 4 * ' W=?))' <,5* 5&
 &' >+ >+ > C,33 \$' % ?=' & \$E ' B' <h<=,5* L ' 4,=,=,75= ,5 >+ '

+<=>, 5 3,4 >' %>,75 w LQK

>47=: +' <' W 7B' <54' 5>= 5& %7<: 7< >,75= %75>,5?' >7 : <7G>

4,33,75 7) >+' 4W%7B' <,5* >+,<& 7) 2,=> 5[KQJJ +?5&<' & 7)
>+' 4 C' <' C =+' & 7?> 7) >+' ,< B' <E 3,B' = 7CW475>+= 3 >' <WKJ
4,33,75 7) >+' 4 <' 4 ,5 &,: 3 %' &W,5%3?&,5* N 4,33,75 %+,3&<' 5
,5 & 5*' <7) => ,75 5& &,: = ' [
+' = ' : ' 7: 3' <' 5l> ' D: ' <,' 5%,5* ,5%75B' 5,' 5%' W \$?>
> >=>7: +' [+' < ,5 5& *3 %, 3 4' 3,5* >+ > 3' & >7 >+7='
H77&= C = 4 &' GB' >,4' = 47<' 3,2' 3E \$E %3,4 >' %+ 5*'
C+,%+ C' ,5 >+' *37\$ 3 57<>+W+ B' + & &,: <7: 7<>,75 >' 3E
3 <*' <73' ,5 % ?=,5*[
7< 7B' < NJ E' <=W 7B' <54' 5>= %<7== >+' C7<3& + B'
<')?=' &>7 +' ' &>+' C <5,5* =)<74 =%, ' 5>,G% ' D: ' <>= \$7?>>+'

! -". /" (&" / /")(< "((" (.

5 LJKLW ?>+ <4 5W ' **,' 7<>75W +,3 ,5*=>75W '=3' E
5*< 4W <73,5' <4.75W < <>,5 'C 3 5& 73E '>' <=75

,>+ ,>= =,F' \$3' ,5B' =>4' 5>= ,5)7==,3)?' 3=W>+' +?<%+ 7)
5*3 5& d 7) e C = ,5' B,> \$3E)7%?=)7< [5 LJKNW
B,=>' & >+' 7) E57& 5& &<7: : '& \$ 55' < % 3,5*)7<

d 1*

+ '\$7B' <' %74475 >7 : '7:3' %<7== >+' %>B,=>
%744?5,>E[?>)7< 4' 4\$' <= 7) W >+' <' ,= 57>+' <
&,4' 5=,75 g =<75* =' 5=' 7) = %<' &% 3,5* 5&>+' \$' 3,')>+ >

,=3 5&= <' %75&' 45' & >7 &<7C5WC+' <' >+' : 733?>,75
7) 3,) =>E3' = 753E >+' <,%+ % 5))7<& ,= &' =><7E,5* 7?<
>: 3 5' >_ C+' <' 3,' = <' : <7: * >' & >7 = ' <B' >+' ,5>' <' =>
7) >+' C' &+E_ C+' <' >+' : <,4' 4,5=>' <= E= 75' >+,5*
> %3,4 >' %75)' <' 5%' 5& >+' 5 &7' = >+' 7: : 7=>' =
=775 = + ' + = H7C5 +74' \ + > C7?3& ' =?= &7\ +'
4 ,5 ' D 4: 3' C' + B' ,5 >+' , \$3' ,= >+' x =+,5* 7)
>+' 4 <2' > ,5 >+' >' 4: 3' W>+' => 3= 7) x &' <= C+7 + &
\$' ' 5 37C' & >7 7%%?: E >+' 753E =: %' %%' =, \$3' >7
)7<' ,*5' <=)7< : < E' <[+,= C = &< 4 >, %W <=2EW &,' %>
>,75X 5&=7 b > 4 ' ' ,5*c' <3E 3 =>E' < = ,&Vi +,=,
>+' G=>>,4' + B' = ,& >+,= 7?> 37?& \$?> 4 C,3,5* >7
\$' <<' =>' & 5&W: +E=,% 3 5& 4' 5> 3+' &+ : '<4, >,5*W
4 C,3,5* >7 \$' <<' =>' & 4?3, : 3' >,4' =[C,3= ' <B'
>,4' ,) 5' %' = <E[14 =% <' &W\$?> &' >' <4,5' &j
7=' 4 <EWPPW <' >,' & 4?=%h>' %+' <WC+7 : <7B,&' = =?: : 7<>
>7 %>,B,=>=V

C = \$<7?*+>?: d,5 %744, >>' & +<,=>, 5) 4,3Ee>7
>75)7<4 g \$' *77& *,<3W&7 C+ > E7?|k' >73&[&75|>
>+,52)7< 75' 4,5?>' C7?3& + B' ' 5* *' & C, >+
575B,73' 5> &,' %> %>,75 7< 575B,73' 5>% ,B,3 & ,=7\$' &,' 5%'
>53' == + & \$' %74' %75B,5%' & ,> C = ,5x<,5=,% >7 4E
\$' ,5* & ,=%, : 3' 7) +< ,=>[+ & ?5&' <=>77& ' =?=<=
\$' + B,7?< ,5 >+' ' 4: 3' = 1?=>,)E,5* i< ,*+>' 7?=<

> E 917(%)9.0429B43E91781f.035?549(71(3)9.0.983(E)1.009B43)46(3' 0z

1?=> =' 5=' 7) <,*+>' 7?=' ,5&,*5 >,75[=> <>' & =' ' ,5* ,>

4E>+=>+ >'%7574,%+' 3+ ,=>+' =7?<%' 7) C' 33\$' ,5* 5&>+ >
'%7574,% *<7C>+ % 5 5& =+7?3& %75>,5?')7<' B' <W< : %,7?=
%75=?4' < ,=4 >+ >>+' C7<3&I= <' =7?<%' = ,4: 3E % 5I> =?=> ,5
5& *<' ' &EW=' 3)h=' <B,5* : <7G>' ' <,5*[5 : ?<=?,> 7) >+' = ' *7 3=W
C' %7375,=' 5& ' D: 37,> >+' <' =7?<%' = 7) 7>+' < %7?5><,' =W
3' B,5* >+' 4 ,4: 7B' < ,=+' &[E <' =75 7) *' 7* < : +EW>+7='
= 4' => >' = <' 475* >+7=') % ,5* >+' ' <3,' =>=' B' <' ,4: %>=
7) %3,4 >' %+ 5*' [33 7) >+ , = : ' < : '? >' & \$E B =>3E C' 3+E
%7<: 7< >,75= C+7 \$< ,5C =+ ?= C,>+ &B' < ,=,5*W* <' ' 5hC =+
>+' ,< 7: ' < >,75= 5& \$?E ,5H?' 5%' C,>+ *7B' <54' 5>=> >+' <' \$E
<' 4 ,5,5* ?5 %%7?5> \$3')7<>+' &' =><?%>,75 >+' E C' 2[

U >+' E \$' 3, ' B' & >+ > \$<' 2,5* >+' 3 C C = C<75*W=7 >+' E
C7?3&5>%75=,&' <+' <,5*)<74 * <7?: ,5B73B' & ,5
<<' => \$3' %>,75_
U ?5%3' <g)>' < =2,5* 4' >7' 4 ,3 47<' &' > ,3=||>+' E 5' B' <
<' =: 75&' & * ,5[

' + B' >+' C' =74' : <,B,3' *' 5& >' <<,\$3' <' =: 75=,\$,3,>E
7) 3,B,5* ,5 75' 7) >+' 47=> %<?%, 3 : 7,5>= ,5 +?4 5 +,=>7<E
5& C+ > C' &' =: ' < >' 3E 5' ' & > >+, = >,4' , =)7< >+' +?<%+

&,: <7: 7<>,75 >' ' 4: + =,= 75 >+' %,B,3 7\$' &,' 5%' &' 4 5&' &

,5 5& 7) >+' 4=' 3B' = <' 57> ?5<' =75 \$3' 7< ?51?=>W4 E \$'
>+' 753E C E >7 <' *,=>' < '))' %>,B' 5& 4' 5,5*)?3 &,'=' 5>[
' : ' 5&,5* 75 >+' =: ,<,> ,5 C+,%+ >+, = ,= &75'W \$'3,' B' >+ >W
C+,3' =?%+ %>,75 4 E 57> %74: 3E C,>+ >+' ?>+7<,>,' = ,5 >+'

>+7=' >+,5*=' dC+,3' W > >+' = 4' >,4' WC,>+7?> 37B' \$7>+ <,<=2
5& = %<,G%' \$' %74' B 3?' 3' ==e[
K 7<,5>+, 5= KMWB' <=' = K g Q[
) =: ' 2 ,5 >+' >75*?' = 7) 4' 5 7< 7) 5*' 3=W\$?> &7
57>+ B' 37B' W 4 753E <' =7?5&,5* *75* 7< %3 5*,5*
%E4\$ 3[

,34 5W 3B' <

? <&, 5W LJLM KL 5? <EW B ,3 \$3' >V
 +>>: =f`CCC[>+' *? <&, 5[%74`\$?=,5' ==`LJLM'1 5'KL`' DD75h
 %3,4 >' h%+ 5*' h*37\$ 3hC <4,5*h<' = ' <%+
 ' C ,5* = 4' = ,3' WK 7<,5>+, 5=W + :>' < KM[B ,3 \$3'
 >V +>>: =f`CCC[\$,\$3' * >' C E[%74`
 : == *'\=' <%+o(KSLJ 7<,5>+, 5=S LJKMuB' <=,75o
)G%')7< >,75 3 > >,=>,%=W
 W B ,3 \$3' >V +>>: =f`CCC[75=[*7B[?2`
 : '7: 3' : 7: ?3 >,75 5&%74 4?5,>E'%?3?< 3,&' 5>,>E' <' 3,* ,75`
 \$?33' >,5=<' 3,* ,75' 5*3 5& 5&C 3' =%' 5=?=LJLK

() / .

bKc

W KL 5? <E LJLMW 3B' <
 ,34 5W +' ? <&, 5W +>>: =f`CCC[>+' *? <&, 5[%74`
 \$?=,5' ==`LJLM'1 5'KL`' DD75h%3,4 >' h%+ 5*' h*37\$ 3hC <4,5*h
 <' = ' <%+

bLc +>>: =f`%+<,=>, 5%3,4 >' %>,75[7<*`

bMc +>>: =f`%+<,=>, 5%3,4 >' %>,75[7<*`C+7hC'h <'`% % h
 : <,5%,: 3=h 5&hB 3?' =`

bNc '3,* ,75V 5*3 5& 5& 3' = ' 5=?= LJLKV)G%')7<
 >,75 3 > >,=>,%=W B ,3 \$3' >V +>>: =f`CCC[75=[*7B[?2`
 : '7: 3' : 7: ?3 >,75 5&%74 4?5,>E'%?3?< 3,&' 5>,>E' <' 3,* ,75`
 \$?33' >,5=<' 3,* ,75' 5*3 5& 5&C 3' =%' 5=?=LJLK

bOc W' &,>' & \$E 7\$ 3 ,=&' 3W 7B' <
 ?\$3,% >,75= 5%W ,5' 73 W ' C 7<2WLJKP[

bPc <' EW <47&E C,>+ 33 4W 7*' <W

+<,=>, 5 3,4 >' %>,75 w LSK

KR[

&)., 0 /& (/ ") (".") (.

\$, ' \$ -\$,-* % 1 ' * \$ -! ' \$ * ! (

*! & \$ 1

" -- ." (&

: <7B,5%, &' ,=,75' = ' ' 5%' 5>< ' 5 ' 3 57<' => ' &' <*' 5>,5 W%' <% &' 3)<75>' < %75 < =,3E < *? E[=?5 &' 3 = : <7B,5%, = 4 = : ' ; ?' 6 = ' 5>(<4,57= &' =?: ' <G%, ' W: ' <7 ' = ?5 &' 3 = 4 = &' 5= 4 ' 5>' : 7\$3 & =[5 ' => >, : 3')<75>' < = ' 5><' 4 ' F%3 5 %?3>?< =W,&' 5>,& &' =E 3' 5*? =W&' 7<,*' 5 5 >,B7W *? < 5.W: 73 %7W 3' 4 5 ' ,> 3, 57[

,=,75' = ' = %757%,& W' 5>' 7><7= 47>,B7=W: 7< 37 ; ?' ; ?' & B,B7 &' =? ' D? \$' < 5>' ' 3B < 5 ' 5=' 7 7=; ?' >3 5>,%7W ; ?')7<4 : <> &' 3 <' *,85 &' 3 < 5 + %7 E ' = ' 3 + 7* < &' 5?4' <7= = ' =: ' %, ' = &' 5,4 3' = E : 3 5> =[&' 4 =W: 7< 3 =) 47= = > < > = &' 3 *? F@W?5 ,4: <' =,75 5>' % =% & &' *? ; ?' ' =%75=,&' < & ?5 &' 3 = , '>' < B,3 = >?< 3' = &' 3 ?5&7[

3 7=; ?' >3 5>,%7 ' =%75&' ' 5 =? ' =: ' =?< ?5 =7<: <' 5&' 5>' \$,7&,B' <=,& &W ; ?' = ' &' =: 3, ' * ' 5 3 %7=> 7<,' 5> 3 &' < =,3 E : ' 5' >< >,' << &' 5><7 + %, <*' 5>,5 E < *? E[75 4 = &' %, ' 5>7 %? <' 5> E 7%+7 4,375' = &' : ' <=75 = 3 = ; ?' = ' 5?><' 5 E &' : ' 5&' 5W> 5>7 =7%, 3 %747 ' %7584,% 4 ' 5>' W &' 37= = ' <B,%7= ; ?' \$<,5& ' 3 7=; ?'

3 7=; ?' >3 5>,%7 ' 5 =,75' = w LSM

>3 5>,%7W%7473 :<7B,=,85 &' *? W' 5' <*. E : <7>' %,85 &' 3
=?' 37[=>' >' =7<7 5 >?< 3W &' 4 =W' = +7* < &' ?5 * < 5

%7473 , '< E=? '%7=,=>' 4 [=>7=:?' \$37= + 5 &' = <<733 &7
%757%,4,' 5>7= E : < %>, % = 37 3 <*7 &' =,*37= &' ,5>' < %%,85
%75 3 5 >?< 3' F WE %75='<B 5 ?5 %7=47B,=,85 &' <475.
' 5><' 37='<' = &' 3 ; ?' %<,=>, 57=E %<,=>, 5 =>' 5' 47= 4?%+7
: < :<' 5&' <[

&) (/)') O& = . " 4 & -#

5>7 '= &7%' 5>' ?D,3, < ,5&.*' 5 + '%' 4 = &' &,' F 67=[
< \$ 1 ' 5 3 ' =%?' 3 ,5>' <%?>?< 3 2? : .W &75&' + \$,> 3
%74?5,& & ,5&.*' 5 +7485,4 W?5 =%? <' 5>) 4,3, = 4\$E W
' 53 =)?' < = &' ?,' F &' 75>7E W?5 : ?' \$37 * <.%73 E)7<' => 3W
?57= %,' 5>7? ? <' 5> 2,384' ><7= 357<>' &' 3 %,?& & % : ,> 3
&' 3 : <7B,5%, W 7= &=[

5 ,=,75' =W4 = &' >' %' 4,3 : '<=75 ==' <' %757%' 5 %747
: '<' 5' %,' 5>' = : ?' \$37= ,5&.*' 5 =W=' *@5 & >7= 7G%, 3' = &'
LJKJ[' ' 337=W% =,=' >' 4,3? >>7%, ' 5>7= =' ,&' 5>,G% 5 %747
4\$E h*? < 5.W : '<' 5' %,' 5>' = 3 >>75%7 3,5*A=>, %7 >? : .h
? < 5.[5><7: 837 7<,> << =%7 : <' %,' = ; ?' + '%' 4 =
&' %,' 5%7 =,*37=W' =>7= : ?' \$37= =' = ' 5> <75 37 3 <*7 &' 37= <7=
4 F75 =W < 5 E < *? EW' 5 37 ; ?' +7E=75 37= ' => &7= &'
< =,3W < *? EW <* ' 5>,5 E 3*?5 = F75 = &' <? *? E[337=
E ' 33 = >?B, ' <75 37= : <,4' <7= %75> %>7= %75 37= %75; ? ,=> &7<' =
' =: 673' = &?< 5>' ' 3 =,*37 W4, ' 5>< = ; ?' 3 74: 6. &'
' =@= %74' 5F8 3 %75; ? ,=> <' 3,*7= &' ' =>' : ?' \$37 ' 5
4,=,75' = E <' &?%%,75' = ' 5 3 ' : @\$3,% &' 3 < *? EW' 3 =?< &'
< =,3E 3 = : <7B,5%, = &' 7<<, ' 5>' = E ,=,75' =[,5' 4\$ <*7W3
' D: ?3=,85 &' 37= 1' =? ,> = ' 5 KQPQ : <7B7%8 3 & ,=: ' <=,85 &' 37=
4\$E : 7<3 = ' 3B [

i 5>7W ' = ?5 = 5>7[747 =? 574\$<' 37 ,5&,% j[=. 37
&' =%<,\$' 3 & ,<' %>7< &' 3 ' =%?' 3 W 3%, 7B7= >[
' %,' 5>' 4' 5>' : <>, %: 8 &' 3 %<' %,' 85 &' ?5 4 5? 3\$,3,5*A'
: < ' 5=' 6 <' 3 3) \$' >7 1?5>7 3 &7%' 5>' <,5 %>4,& >E ' 3
&7%' 5>' ,5&.*' 5 <,7 %7=> [? 5&7 <' 3 > 37 ; ?' =,5>,8 3

B' <=? 574\$<' ' 5 3 > : &' 3 4 >' <, 3' &?% >,B7W=75<.' E % =,
57 ' 5%?' 5>< : 3 \$< =[i =?5 = >,) %% ,85 : < 57=7><7=W: <
>< \$ 1 < 4' 17<%75 37=%+,; ?,>7=j]

5>7 : , ' 5= ' 5 ' 3 4 75>' E ' D: 3, % 37 ; ?' =,*5,G% : < 3
%?>?< 4\$E &' ?5 47&7 ' 37%?' 5>' [i 3 4 75>' : < 57=7><7=
' = ?5 B,& [7 =73 4' 5>' 3 B,& +?4 5 W=,57 ; ?' 37=
5,4 3' =W 37= : 1 <>7=[' = ?5 3' *< [,5 475>' 57
: 7&' 47= B,B,<[7 =,' 4: <' *? <&7 ' =)< = ' ; ?' 4' &' % . 4,
\$?' 37W&' =&' 37= &7%' 67=V'y' 3 4 75>' ' =?5 B,& yj]

5>7 : , ' 5= ' 5 ' 3)?>?<7 %747 B,B' ' 3 : <' =?5>V %75
' =: ' < 5F ' 5 37= 5,67= E 3 = 5,6 =[i 7EW%747 &7%' 5>' W' =>7E
>< > 5&7 &' ' 5=' 6 < ' = = %7= = 37= %+,%7= : < ; ?' ' 337=
> 4\$, (5 =: ' 5 %847 %?,& <37 ; ?' + E ' 5 ' 3 4 ?5&7j]

\$3 %75 B7F = ' <' 5 E 3' 5 &' = \$,&?<. 5%' =>< 3[i 3 <\$73
>,' 5' =? ,7=[& 5,4 3 >,' 5' =? ,7=[7< ' =7 5?' =><7
\$?' 37 57= ' 5=' 6 > 4\$, (5 ; ?' =, 57= B 47= 3 475>
>' 5' 47= ; ?' %?,& < E >' 5' 47= ; ?' ,< %75 %?,& &7jW' D: 3, % V
i , E7 * <<7 ' 3 4 %+' >' E B7EW>' 5*7 ; ?' = % < 37 =737 37 ; ?'
5' %' =>7W57 ,< E %7<> < E %7<> <W: 7< ; ?' 3' =: .<>? 57 3' *?=> [
E ; ?' : ' &,<3' 3' =: .<>?V i+7E B7E %7<> < ' => 4 &' <
: 7< ; ?' 5' %' =>7 7%?: < &' 3*?5 =%7= =jW%?' 5> [

? = 717= \$<,3 5 %75 ><=>' F 3+ \$3 < &' 3 &')7<' => % ,85 E 3
: (<&,& &' 3 5 >?< 3' F ' 5 =?>,' << [i 7 ; ?' 4. 4' : <' 7%?:
' = ; ?' B' %' = 37= &?' 67= B,' 5' 5 E &' =475> 5W%7<> 5 37=
<\$73' = E 57 ; ?' & 5 & j]

' <7 =? ' =: ' < 5F =,*?' B,B [i , &' =?7 ' = ; ?' =,* 47= %75
)?' <F E = \$,&?<. : < ; ?' 3*?57= &' 37= %+,%7= &' ' =>
%74?5,& & = 3* 5 %75 ?5 ' 1' 4: 37[?' 57 = ' 73B,&' &' =?
%?>?< W ?5; ?' = ' : 7< 4 = ; ?' = ' W= 3* ?5 : <7)' =,75 3 &'
?5 ' =%?' 3 jWE <' H' D,75 Vi ?' 3?%+' W+ %,' 5&7 3 3?%+ %747
; ?' ' => 5 + %,' 5&7 +7< 37= 4\$?<?B,%+ j]^k

5>7W?5 *? <&, 5 &' 3 5 >?< 3' F E : 7<> &7< &' = \$' <' =
5%' =>< 3' =W57= <' %?' <& 3 ,4: 7<> 5%, &' %?,& < E <' =: ' > <
' 3 ' ; ? ,3,\$<,7 &' 3 B,& ' 5 3 , '<< [? =: 3 \$< = 57= ,5B,> 5
<' H' D,75 < =7\$<' 5?' =>< <' 3 % ,85 %75 ' 3 4' &,7 4\$, ' 5>

LSP w 3 7=; ?' >3 5>, %7 ' 5 , =,75' =

E %847 :7&' 47= :<' 5&'< &' 3 = %?3?< = 7<,*5 <, = : <
: <7>' *' <E : <' = ' <B <3 % = %74@5 ; ?' %74: <>,47=[

) 4,3, E3 %74?5,& &>'5* 5=? :<7:,7 *? 4'17<W4 == 5 [=7' =37 ; ?' 4 =5'%' =,> 47='53 %74?5,& &j

B' <,>'5>' = ' '5%?' 5< 3'1 & &' 3 = B,B,' 5& =W ?57= 7%+7%,' 5>7= 4'>7= &' &,> 5%, [?< 5>' 67=W3 = 4?'1' <' = &' 3 %74?5,& &% 4,5 \$ 5 %7>,&, 5 4'5>' + => 33. '5 \$?=% &' *? : < = >,>) '% <=?= 5'%' =,& &' = 4 = \$ =% =V '\$ '\$ <W 3 B <3 <7: 73,4:, <37= 3,4' 5>7=[75 \$ 3&' = 3' 57= &' *? '5 3 = 4 57=W' 5 7% =,75' =W&' \$. 5 + '% < '3 <' %7<<,&7 B <, = B'%' = 3&. [

' <73 B,& &' 3 %74?5,& &% 4\$,8 %75 3 7\$< &' *? E 3?F[5&< '5.>' FW?5 &' 3 = ,5>' * < 5>' = &' 3 %74?5,& &W =75<.' 3 <' %7<& < 37= &. = &' 5>' = E '% 3' \$< 3 4'17< : < 3 B,& %7>,&, 5 &' 3 = 4?'1' <=[+7< :?' &' ?= <3 = :,'3' > = '% <% 5 = =? +7* < E 57 >' 5' < ;?' <' %7<<' < > 5>7= 4'>7= : < \$ =>'%' <=' &' *? [i = 4?'1' <' = '53 %74?5,& &' => 5 4 =)' 3,%'=[7 B'. ;?' 3*?, '5 : = \$ %75 ?5 \$ 3&' E E7 ?>74 >,% 4'5>' * << \$ E 4' , \$:7<;?' >' 5. 47= 3 %7=>?4 \$<' &' ,<>7&7= 1?5>7= \$?=% <'3 *? [7<37 ;?' B' 7 ' => 5 \$, '5W)' 3,%' =W%75>' 5> =W&' >' 5' <3 '5 % = [j

' %?' <& > 4 \$, (5 %847 ' < =? : <7: , B,& 5>' =V i \$ 4?%+ = B'%' = \$?=% < *? [847 4, 4 <,&7 << \$ 1 E B, '5' 3 4' &,7&. = ' 4' &,G%?3> \$ 4?%+.=,47[7EW>' 5' <' 5 % = 3 B' <& & 4') %,> 4?%+7jW%' 3' \$< Vi , B,& 4' 4'17<8j[

5&< =?' 6 +7< %75 ?5 '=: %7 %74?5,> <,7 &75&' 3 = 4?'1' <' = :?' & 5 %7%,5 < 1?5> = E %74: <>,< >,' 4: 7 %75 =? = ,17=[i 7 =(: 7< ; ?(>' 5*7 ' =7 &' ;?' <' < =,' 4: <' 1?5> <57= '5><' 4?'1' <' = E>' 5' <?5 3? * <: < %7%,5 <>7&7= 1?5>7= E' => < %75 37= %+, %7=[7 =(: 7< ; ?(>' 5*7 ' =: ' 5= 4, '5>7 &' ;?' <' < >' 5' <' =7jW' D: <' = %75 57=> 3*, E' =: ' < 5F '5 =? B7F[

LSR w 3 7=: ?' >3 5>,%7' 5 ,=,75' =

; - & 0("*" (-)/ ./ (/) -
- -

7< &' \$< <> \$ 1 : < '3&' = <<7337 =7%, 3E 4\$, '5> 3' 5
<*' 5>,5 W <?*? E E < *? E[= ?5 ,5,%, >,B &' 3 *3' =,
B 5*(3,% &'3 .7 &' 3 3 > W,5=: ,< & ' 5 ?5 %74: <74, =7
&')' : 7< ?5 4?5&7 4 = 1?=>7W' ; ?,> >,B7 E =73,& <,7[7< ' =7W
&' =&' LJKN &' = <<73 E %74: 6 : <7E' %>7= =7%, 3' = E
4\$, '5> 3' =W: < : <747B' < E &')' 5&' < 37= &' <' %>7= &' 3 =
' : <=75 = ' 5 =>? %85 &' 4 E7< B?35' < \$,3,& & E : <' = <B < ' 3
4\$, '5>' : < 3 = *' 5' < %,75' =)?>?< = [7< &' \$< <> \$ 1
: <>, &' 0 '1' = >' 4 >, %7=W &' = <<7337 %74?5, > <,7W1?=>, %,
%3,4 >, % W : ?' \$37= 7<, * ,5 <,7=W 1?=>, % , &' * (5' <7 E
)7<> 3' %,4, '5>7 &, %85,%7[
= ,5)7<4 %85 ' 5 [CCC\[+7< &' 7\\$< <7<*< <](#)

& \$!+ * &+\$,!' &

! /& (/ ")- ./ "(".") (.< &
) /! 4 0&/0-)0/ /! -)
- /") (

! (2"/!)0/ 1"&

+ ' : <7B,5%' 7) ,=,75' = ,= 37% >' & ,5 57<>+ ' =>' <5 <*' 5>,5 W
5' < >+ ' \$7<&' < C,>+ < F,3 5& < *? E[> ,= 75' 7) >+ '
=4 33' => : <7B,5%' = ,5>' <4=7) <' W\$?> 75' 7) >+ ' 47=> &' 5=' 3E
: 7: ?3 >' & [5 >+ ,= > ,: 3' \$7<&' <W5 >,B' W ? < 5,W 73,=+W ' <4 5W
5& > 3, 5 %?3?<' =W,&' 5>,>' =W 5& 3 5*? *' = ,5>' <>C,5' [
,=,75' = ,= 257C5W 475* 7>+ ' <' =75=W)7< C+ > <' 4 ,5=

3 7=; ?' >3 5>, %7 ' 5 ,=,75' = W LSS

3B' 7) ,>= 3?+= ' 3B < 5 ' 5=' 7< >3 5>,% 7<' =>WC+,%+ ,=
: <> 7) >+' < 5 + %7 <' *,75 5& ,= +74' >7 5?4' <7?=
=: '%,' = 7) 5,4 3= 5& : 3 5>=[&&,>,75 33EW,> ,=) 47?=>7<>+'
*? F? 33=W 5 ,4: <' ==,B' C >' <) 33>+ > ,= %75=,&' <' & 75' 7)
>+' 'B' 5 >?< 3 75&' <= 7) >+' 7<3&[
+' >3 5>,% 7<' => +,&' = C,>+,5 ,>= >+,%25' == =?<: < ,=,5*
\$,7&,B' <=>EW C+,%+ ?5)73&= 75 >+' ' =>' <5 %7 => 7) < F,3 5&
: ' 5' <> >' = ,53 5& >7C <&= <*' 5>,5 5& < *? E[7<' >+ 5

'D: ?3=,75 7) >+' '=?,>= ,5 KOPQ % ?=' & >+' &,: '= 3 7) >+'
 \$E >+<7?*+7?>>+' 1?5*3' [
 i 5>7 ,= = ,5>[= +,= 5 4' ,5&,% >'=VJ = E= >+' =%+773=
 &,<'%>7W 3,% 7B7= >[' <'%' 5>3E : <,>%,: >' & ,5>+' %<' >,75
 7) \$,3,5*? 3 4 5? 3>7 >' %+>+' 3: + \$'>>7*'>+' <C,>+>+'
 >' %+' < <,5 %+4,&> 5& >+' ,5&,*' 57?=>' %+' < <,7
 %7=> [+ ' 5 =+' &' =%<,\$' = C+ > =+')' 3? : 75 = ' ,5* +,
 5 4' 75 >+' %7B' <7) >+' ' &?% >,75 3 4 >' <, 3W=+' =4,3' = 5&
 % 5 + <&3E G5& C7<&=[i >= = >,=) %>,75)7< ?=>7 C7<2 \$'>>' <
 C,>+>+' 2,&=lj
 5>7 >+,52= 7) >+')7<' => 5& 'D: 3 ,5= C+ > ,> 4' 5=)7<
 \$E %?3?<' ,5 5 ' 37; ?' 5> C E[i + ')7<' =>)7< ?= ,= 3,) [7>
 753E +?4 5 3,) W\$?> 3=7)7<>+' 5,4 3=W)7<>+' \$,<=&[5& ,> ,=
 17E[' % 557> 3,B' C,>+7?>>+')7<' =>[3C E= <' 4' 4\$' <>+'
 : <+ = ' 4E * < 5&) >+' <>73& 4' C+' 5 C =>C' 3B' V|>+')7<' => ,=
 3,) ' lj
 5>7 >+,52= 7) >+')?>?<' =+' 3,B' = ,5>+' : <' = ' 5>V|C,>+ 7: '
 ,5 >+' %+,3&<' 5[i 7& EW = >' %+' <W 14 ><E,5* >7 >' %+>+' ='
 >+,5* = >7 >+' 2,&= 7 >+ >>+' E 3=7 257C +7C >7 > 2' % <' 7)
 C+ >= ,5 >+' C7<3&lj
 ' =: ' 2= C,>+ % 34 B7,%' 5&)?33 7) 5%' =>< 3 C,= &74[
 i + ' <' + = ,>= 7&[B' <E 5,4 3+ = ,>= 7&[+ >= C+ E 7?<
 * < 5&) >+' < 3=7 >' %+' = ?=>+ >,) C' *7 >7 >+')7<' =>W|C' + B'
 >7 > 2' % <' 5& \$' % <')?3W + ' D: 3 ,5=[i) > 2' >+' 4 %+' >
 5& *7W + B' >7 > 2' 753E C+ > 5' ' &W57> *7 5& %?> 5&
 %?>W\$' % ?=' >+' =: ,< > &7' =5|> 3,2' ,>[' + B' >7 =2 >+' =: ,<,>V
 |>7& E 14 *7,5* >7 %?>>+ ,= C77& \$' % ?=' 5' ' & ,>)7< =74'
 >+,5* =VJ + ' = E=[
 ,= ' E' = =+,5' C,>+ = &5' == =+' > 32= \$7?> &')7<' => >,75
 5& >+' 37== 7) 5 >?<' ,5 +,= 3 5&[i + > C7<<' = 4' ,= >+ >
 =74' >,4' = 7C5' <= %74' 5& &')7<' =>W%?> &7C5 <' =W 5&
 57>+,5* ,= 3')>lj
 ?> +,= +7: ' ,= =>,33 3,B' [i E C,=+ ,= >+ > C' %75>,5?' C,>+
 =><' 5* >+ 5& C,= &74 =7 >+ > =74' 7) >+' 2,&= ,5 >+,=
 %74 4?5,>E = ' > 5' D 4: 3' [+ >>+' E &75|>)7<*' >>+' ,<%?3?<' W

MJL w 3 7=: ?' >3 5>,7' 5 ,=,75' =

'B' 5 ,) 75' 7) >+' 4 \$' %74' = :<7)' ==,75 3)<74 =%+773j +'
<' H' %>=[i + >>+' E G*+>W&7,5* >+' G*+> 3,2' >+' 4\$?<?B,%+^K
<' &7,5* 57Cj
5>7W *? <&, 5 7) 5 >?<' 5& \$' <'< 7) 5%' =>< 3
257C3' &*' W<' 4,5&= ?= 7) >+' ,4: 7<> 5%' 7) % <,5*)7< 5&

4 5E :<74,=' =)<74 575h,5&,*' 57?=: ' 7: 3' >+ > + B' 57>
\$' ' 5)?3G3' &[74' >,4' =W C' %%' :> :<71' %> C,>+ &7?>=\$=lj
' 3=7 257C= >+ > >+' C >' < >+ > < ,5= >7& E 5& 3=7
=: <,5*'=)<74 >+' *<7?5& ,= 3)' W 5& ,> 4?=> \$' :<7>' %>' &[

I \$7?>>+' 7< &' \$< < <7>' => 5>
7?5& >,75

7< &' \$< < C7<2=)7< =7%, 3 5& '5B,<754'5> 3
&'B'37: 4'5> ,5 <*'5>,5 W <?*' EW 5& < *? E[> ,= 5
,5,>, >,B' 7) >+' B 5*'3,% 3 +?<%+ 7) >+' .7 &' 3 3 > W
,5=: ,<' &' \$E %744,>4'5> 7)) ,>+)7<) ,<' <W47<' ' ; ?,> \$3' W
5& =?: : 7<>,B' C7<3&[+ '<')7<' W=,5%' LJKNW ,> + = &' B' 37: ' &
5& =?: : 7<>' & =7%, 3 5& '5B,<754'5> 3 : <71'%>= >7 : <747>
5& &')' 5& >+' <,*+>= 7) : '7:3' ,5 =,>? >,75= 7) *' >' <
B?35' < \$,3>E 5& >7 : <'=' <B' >+' '5B,<754'5>)7<)?>?'
*'5' < >,75=[7< &' \$< < C7<2= \$ =' & 75 0 >+' 4 >,% <' =V
%744?5,>E &' B' 37: 4'5>W%3,4 >' 1?=>,%' W,5&,*' 57?=: '7:3' =W

U + ' 'D>< %>,B' ,5&?=><,' =\ 4,5' < 3=W)7==,3)?' 3=W*< ,5=
dC >' <>77\ e

U + ' ?=' 7))7==,3)?' 3= n ' 5B,<75 4' 5> 3 : 733?>,75

g + ' ,5>' <5 >,75 3 G5 5%, 3 =E=>' 4W\$7<5 ,5 <' >75 77&=V
=E=>' 4 7) ' >' <5 3 &' \$>W > >+' 3' B' 3 7) : ' 7: 3' W > >+' 3' B' 3 7)
%74: 5,' =W >>+' 3' B' 3 7) %7?5><,' =WC,>+ = ' <,' = 7) B' <E =>?'
< 3 E' <= C+7 %+' > >+' 4 17<,>E 5& 2' ' : >+' ,< : <7G> d=?<: 3?=
B 3?' e[<74 >+' & E= 7) \$ 5 5 5& %7>>75 : 3 5> >,75= 5&

<7%+' 4,% 3= >+ > %75> 4,5 >' 'B' 5 >+' C >' <> \$3' W< ,=,5
% 5%' < 5& ?>=4 < >' =,5 >+' =?<<7?5&,5* <' ==' B' < 3>,4' =
\$7B' >+' B' < *' W,5 &&,>,75 >7 3' &,5* >7 &')7<' => >,75W&?'
>7 >+' %75=> 5>' D: 5=,75 7) >+' *<,%?3?< 3)<75>,' <['+' E <'
3=7 =7?<' 7) %7<<?: >,75 5& =4? * *3,5* %, <%3' =W = C' 33 =
%?<<' 5%E 3' 2 *' W>7 +,&' : <7G>=[

5& G5 3E C' = ' ' ,5%<' =,5* : <,B >' %74: ' >,>,75)7< : ?<'
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g 7==,3)?' 3 ?=' n ' 5B,<754' 5> 3 : 733?>,75V > >+, = : 7,5> ,5
>+' =7,<' W>+' %75<,\$?>,75 7))7==,3)?' 3 ?=' >7 >+' * <' ' 5+7?='
')')' %> , = ?5&' 5, \$3' [?> ,5=>' & 7) %?<\$,5* >+' ,< ?=' W >+' ,<
' D: 37,> >,75 ,=,5%<' =,5*WC,> >+' '+' 3: 7) %737== 337\$ \$EW57C
<' ,5)7<%&' & \$E >+' ' D%?=' 7) >+' %75H,%> C,>+ ?==, 5& >+'
5' ' & >7 *' 5' < >' i' 5' <*E ,5&' : ' 5&' 5%' j[?> ,> , = 57> 753E
>+' 5' * >B' ')')' %> 7) >+' \$?<5,5* 7) >+' = ')?' 3=W\$?> 3=7 >+'
)<' ; ?' 5>' %737* ,% 3 &, = =>' <= *' 5' < >' & \$E >+' ,< ' D>< %>,75 7<
4 <,>,4' < 5=: 7<W7<> >+' >' <<,\$3' +?4 5 <,* += B,73 >,75=> >+ >
' 5' <*E %74: 5, '= : <747>' W =?%+ = >+' : : <7: <, >,75 7)
,5&,* 57? = 5%' =>< 3 >' <<,7<,' = 7< >+' 4?<&' < 7)
' 5B,<754' 5> 3 %>,B,=> ,5 B <,7? = : <= 7) >+' C7<3& [

&&' & >7 >+, = ,5&?=><, 3: 733?>,75 ,5 *' 5' < 3WC+,%+ , = : 77<3E
%75<733' & 7< =37C' & &7C5 &?' >7 >+' ')')' %>= 7) >+' =><75*
37\$ \$E >+ > = ' 2= 57>>7 <' &?' %' : <7G>=[

+ ' =,D ' 3' : + 5>=W 5& =?<' 3E = ' B' < 3 47<' >+ > <' &' <=
% 5 &&W <' %+ < %>' <,F' & \$E + B,5* %<7==&' C+ > C' + B'
3' &E 4' 5>,75' & \$')7<' 5& >+ > B 5 33,%+ % 33' & i%<,>, % 3
>+<' =+73&=jV>+' ,< &' B' 37: 4' 5> + = : ==' & : 7,5> 7) 57 <' >?<5
,5 C+,%+ >+' ,5,>, 3 : 7=>,B' ')')' %>= + B' \$' ' 5 7B' <' 74' \$E
>+' =? \$=' ; ?' 5> 5' * >B' ')')' %>= 5& >+' E 57 375*' <)?3G33 >+'
=7%, 3)?5%>,75)7< C+,%+ >+' E C' <' %<' >' &W\$?> 753E = ' B' >7
4 D,4,F' : <7G>= ,5 =? ,%& 3C E)7<)' C [

7CW&7 >+7=' =,D ' 3' : + 5>= H7 >,5 =: %' \ \$B,7?>=3E 57>Y =
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75' *' 5&' < 7B' < 7>+' <=W\$?> 3=7 7) =4 3 * <7?: 7) : ' 7: 3'
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&' =<?%>,B' : <, <%+E[5 >+' *37\$ 3 7?>+ C' 3,B' >+, =
: <, <%+E 5& >+' =,D ' 3' : + 5>= ,> =?=> ,5= = %7375, 3,=4W7<
5' 7%7375, 3,=4W ' B' 5 ,5 >+, = LK=> %' 5>?<E[?> >+' 7<>+ 3=7
=?))' <=)<74 ,>W + = \$' ' 5 > 2' 5 +7=> *' \$E : <, <%+E 5&

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474'5> ,5 +,>7<E =' ' 4= >7 \$' 47<' %37=' 3E <' 3 >' & >7 >+'
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%744?5,>E 7) <' =,> 5%' V=4 33W\$?> %75G&' 5>W)7<%')?3W<=2,5*
>+' ,< 3,B' = : ' %')?33E[>+ : : ' 5' & 3,>>3' 3' == >+ 5 LWJJ E' <=
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live, the demands of productive practices in rural areas, consumption in urban areas and its effects on human health and the environment. This process led to a slow and active awareness in faith communities of our responsibility to òpromote creation care.ó

+ ' : <7: 7=' & : =>7< 3,5>, >,B' ,=' ==' 5>, 3E %' 5><' & 75 ><' ' D

+ ' G<=> C = >7 * <' ' 75 +?<%+hC,&' : 73,%E 7) % <')7< %<' >,75V>+,= C = 4 &' : 7==,\$3' \$E >+') %>>+ >>+' +?<=> >?>=> >' >+ >,5+' <' 5> >=2 7) >+' +?<%+[+,= 3' & >7 * <' ' 4' 5> C, >+ >+' B <,7?=' <' *,75= 7) >+' +?<%+ 75 C7<2,5* %74 4,>>' ' C,>+ <' : <'=' 5> >,B' =)<74 ' %+ <' *,75 C, >+ +?<%+hC,&' 4 5& >' [+<7?*+ B <,7?=' < ,5,5* %7?<=' =)7< % >' %+ ,=>=W>C7 % >' %+ '>, % 3 4 5? 3= 75 >+' % <' 7) %<' >,75 C' <' &' B' 37: ' & C, >+ >+' 4 5& &,=>,<,\$?>' &)7< % >' %+ '>, % 3 C7<2 >+<7?*+7?> >+' +?<%+[5 >+' \$ =,= 7) >+' &, 37*?' =W ,5>' <5 >,75 3 %75=?> >,75= C, >+ ' %?4' 5, % 3 ' %7h>+' 737*E <')' <' 5>= 5& <,>, %?3 >,75= C, >+ B <,7?=' ' 5B,<754' 5> 3 7<* 5,F >,75=W C' &' B' 37: ' & 5 753,5' %7?<=')7<) ,>+ %74 4?5,>' = C, >+ >+' 737* , % 3 5& >' %+5, % 3 %75><,\$?>,75= C, >+ 5 ' 4: + =,= 75 75*7,5* < 5>)7<4 >,B' : < %>, %' =[+ ' : 3 >)7<4 7) >+' %?4' 5, % 3 ' >C7<2)7< + ' 737* , % 3 &?% >,75 d eW 7) C+, %> >+' ,= 4' 4\$ <W &7: >' & %<' >,75 % <' 5& ' %7h >+' 737*E = < 5=B' <= 3: ' & *7* , % 3 D,=[W>7*' >+' < C, >+ 5& C, >+ >+' =?: : 7< 7) B <,7?=' =7%, 3W' 5B,<754' 5> 3W ,5&, *' 57? =W : <7&?%' <=1 5& ' %?4' 5, % 3 7<* 5,F >,75=W : ?\$3, =+' & 5 %7>+' 737*E 5? 3WC, >+ C+, %> >+' E C7<2 75 >+' &, =,= 4,5 >,75 7) %<' >,75 % <' [5 =74' &, =<, %>=W ' %?4' 5, % 3 %' 3' \$< >,75= <' + ' 3& ,5 <' 3 >,75 >7 ' 5B,<754' 5> 3 =,>? >,75= ,5 7<&' < >7 4 2' >+' 4 B, =,\$3' 5& <' H' %> 75 >+' 4)<74 +<,=>, 5) ,>+ : ' <=: ' %>,B' [+ ' = ' %75& 7\$1' %>,B' C = >+' : <747>,75 7) : <7&?%>,75 4' >+7&=> >+ > <')<, 5&3E 5& % <,5*)7< >+' ' 5B,<754' 5> 5& +?4 5 + ' 3>+W=?%+ = * <7h' %737* , % 3 5& 7<* 5, % 4' >+7&=[

MKN w 3,4 >' ?=>, %' ,5 7?>+ 4' <, %

+ ' &' B' 37: 4' 5> 7) >+,= 7\$1' %>,B' 337C' & 47>,B >,5* >+'
) 4,3,' = 7) MKS 7) >+' %75* <' * >,75= >7 ?=' &,) ' <' 5>
' 3' 4' 5>= 7) * <7' %737*E 5& >+ > >+') 4,3,' = 7) QJS 7) >+'
' %3' =, =>, % 3 <' *,75= 7) >+' %+?<%+ : <,>, : >' ,5>+' ' D%+ 5*'
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&' B' 37: 4' 5>W>+' C7<2= C,>+ KS => >' \$7&,' =_ KL =7%, 3W
' 5B,<754' 5> 3W ,5&,*' 57?=W : <7&?%' < 5& ' %?4' 5,% 3
7<* 5,F >,75=_ R ?5,B' <=>,' =_ Q>+' 737* ,% 3 << ,5,5* ,5=>,>?>,75=_
Q=: %' =)7< %,>,F' 5 : <,>, : >,75_P =W 475* 7>+' <%75> %>
=: %' = ,5 <*' 5>,5 W <?*' ? E 5& < *? E [5 >+' =7%, 3
5' >C7<2= 7) >+') ,>+%744?5,>,' = C' <' %7<&' &>+ >RJS 7) >+'
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+ ' & ; ? <>' <=<')?<\$,+= ' & ,>=) %3,>,' = C,>+ ' 5B,<754' 5> 3
5& ' 5' <*E=?=> ,5 \$,3>E %<,>' < , [
+ ' >+,<& 7\$1' %>,B' C =>7 ' 5%7?< *' <' =: 75=,\$3' W%75=%,7?=
%75=?4: >,75 5& + ' 3>+E ' ,5*[+ 52= >7 >+,= 7\$1' %>,B' W
) 4,3,' =)<74 OKS 7) >+' %75* <' * >,75= <' ,5 <' *?3 <
%75> %> C,>+ =4 33 * <7h' %737* ,% 3) <4' <=W %75=?4' 5&
: <747>' >+' ,< : <7&?%>= 5& 7))' < >+' %744?5,>E <' = =
4 <2' >,5* <' [+ ' ,5>' <' => 5& %744,>4' 5> 7) %+,3&<' 5W

,5,>, >,B' = >+ > : <747>' =?=> ,5 \$,3,>E 5& %3,4 >' 1?=>,%'
\$' % ?=' >, =)?5& 4' 5> 3: <> 7) ,>= 4,==,75[5 <' %' 5> E' <=
> + = C7<2' & >7 ,&' 5>,)E <' = 7) %>,75 C+' <' ,> % 5 4 2'
&,)') <' 5%' >+<7?*' + C <' 5' ==h< ,=,5*W &B7% %E 5& : 3 55,5*
: <71' %>= ,5 : <>5' <=+, : C ,>+ 7>+' < 7<* 5,F >,75=[
+ ' %?<<' 5> =,>? >,75 7) >+' < 5 x ?5*3' 7< ,=,75' =
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, = <' 33E %<,>, % 3W 753E Q<= 7) ,>= 7<,* ,5 3 <' <' 4 ,5=[+,3' ,5
< *? E 5& < F,3 ,> + = \$' ' 5 : < %>,% 33E &' =><7E' &W47=> 7)
>+' <' 4 ,5,5* <' ,=,5 >+' : <7B,5%' 7) ,=,75' =W <*' 5>,5 [
5' 4' >+7&>7 <' B' <=' >+' & 4 *' % ?=' & \$E &')7<' => >,75
, = <')7<' => >,75WC+, % + %75=,=>= 7) : 3 5>,5* 5 >,B' ><' ' = C+' <'
>+' <' <')' C 7< 575' 3')>W> 2,5* % <' 7) >+' 4 =7 >+ > >+' E
&' B' 37: : <7: ' <3E 5& % 5 <' *' 5' < >')7<' =>[')7<' => >,75 ,5
7?< & ,3E 3,) ' ,= 5 ' ==' 5>, 3 7: ' < >,75)7< >+' =?<B,B 3 7) 3,B,5*
\$' ,5*=[
> , = : <' % ,=' 3E ,5 >+ ,= %75>' D> >+ > >+' : <71' %> i <7C >+'
,=,75' = ,5)7<' =>jW&' =,*5' & 5& ,4: 3' 4' 5>' & \$E >+' 7<
&' \$< < 7?5& >,75 5& =?: : 7<>' & \$E <' &)7< >+' 7<3&W
+ = \$' ' 5 %<' >' &[+, = : <71' %> ,4= >7 <')7<' => >+' \$ 52= 7)

)<' ; ?' 5>3E ?=' & 5& 5'%' == <E=: %' =)7< &, 37*?' 75 >+' % <'
7) 7?<%74 475 +74' [
= =>> >' *,' =)7< :?\$3,% &B7% %E 5& ,5B73B' 4' 5> 5&

:<' : '<5'==W' <3EhC <5,5* 5& :<'B' 5>,75[5 >+,= => *'W
: 7==,\$3' ,5>'<B' 5>,75 =>< >' *,' = '<' %75=><?'>' & C,>+ &,) '<' 5>
,B,3 =7%, '>E %>7<=[5 >+' >+,<& => *'W < ,=2 4 5 *' 4' 5>
&&<' ==' = < ,=2= ,5 :<7=: '%>,B' W %7<<' %>,B' 5& '<' %>,B'
4 55' < ,5 %77<&,5 >' & %>,75 5& ,5 5 5>' * < >' & :<7%' ==[
<74 >+' G<=> 4' ' ,5* = ,5 >+' %74 4?5,>,' =W ,> ,= %3' < >+ >
>+' 47=>)<' ;?' 5> %3,4 >' %+ 5*' 'B' 5>= ,5 >+'
%75* <' * ,75= '<' V H 77&=W&<7? * +=WG<' =W3 %2 7) C >' <W=><75*
C,5&=W' >][
+, = :<71' %> :<7B,&' = < ,=2 4 5 *' 4' 5> < ,5,5* >7 7>+' <
: ?\$3,% ,5=>,?>,75= =?%+ = >+' >' %>+5,% ,5= 7) >+'
d >,75 3 5=>,?>' 7) '<\$ >' e ,5 ,=,75'=[5 >+' =?4 4' <
7) L J L L W %>?<+hC,&' % 4: ,*5 C = % <<,' & 7?> >7 =?: : 7<
B73?5>' '< G<' G*+>' <= ,5 ,=,75' =W <*' 5>,5 W,5 >+') %' 7) G<' =
< B * ,5* >+' 1?5*3' 5& * <,%?>?< 3 <' =[+, = % 4: ,*5
=?%%' '& & ,5 %73' %>,5* &75 >,75= 7) &<,52,5* C >' <W)77& 5&
'B' 5 G<' G*+>,5* ; ?,: 4' 5> 5& %37>+,5*)7<KJ G<' => ,75=[

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+ ' , = > 2,5* ? : C ,>+ 7< &' \$ < < ,>= 4,==,75 7)
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>7*' >+' < C ,>+ C ,&' < 5*' 7) %>7<=[3,4 >' 1?=>,' ,=
%+ 33' 5*' >+ > ,>= %74 4?5,>,' = + B' '\$' %74' ,5%<' =,5*3E
C <' 7)[+' <' 3,>E +?<=>W >>,4' = ,> % ?=' = &' =: ,<W\$?> C'
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7& % 33= ?= = +?4 5 \$' ,5*=[' + B' >+' % : %>E 5&
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,5%3?&,5*)?>?' *' 5' < >,75=[+, = =: ,<,>? 3,>E 7))' <= ?=
&,) '<' 5> B, ' C 7) >+' C7<3& >+ 5 % : ,> 3,=4[' &7 57> = ' '
'%74 47&,>,' =WC' = ' ' %<' >?' <=[+' 47>,B >,75 5& ,5=: ,< >,75
5' ' &' & >7 C7<2 >7*' >+' < ,5 %<' >,75 ,= 57> >+' : <,%' 7< B 3?'
7) >+,5* = \$?> >+' : <74,=' 7) 47<' just and sustainable world for all
people equally. This is the world we live and work for every day.

MKR w 3,4 >' ?=>,' ,5 7?>+ 4' <,%