



Yazın ve Okuyun

2024

⇒ a dUWİF Ydcfh

F cmU`GcWYhmicZ7\Ya]ghfmg`

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9I YW hj Y`Gi a a Ufm.....

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%%F cmU`GcWYhmcZ7\Ya]gfmC i fYUWX : i bX

%&H\Y`Uk UfXg'a UXY`VmH\Y`C i fYUWX : i bX

%"`Di V`W9b[U[Ya YbhUbX`C i fYUWX : i bX]b[.....

%(`7 cbbYW]b[`hc`F cmU`GcWYhmcZ7\Ya]gfmfYgYUfWX`UbX`ghfUH[m.....

%)`F Y`Yj UbhH\YcfYh]WU`ZUa Yk cf_g.....

&"`5ddfcUWX

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' "`5bU`mg]g.`8]gW`gg]cb`cZC i fYUWX : i bX`a dUW.....

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 5ddYbX]] '6.'8UkU'gi a a Uf]Yg.....
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@Uj fU' H\ca Ug' UbX' 7\UfcHf' H\cfYm' Vch' \Uj Y' g][b]Z]Wbhi' YI dYf]YbW' gi ddcfHb[' cf[Ub]gU]cbg'gi V\ Ug'YUfbYX'gcV]Y]YgZ'V\Uf]H]YgZ'i b]] Yfg]H]Yg'UbX'gV]YbW' V\bfYg']b[U]b]b[' Ub]b]XYdH' i bXYfghUbX]b['cZ]h'Y'ja dUW]cZ]h'Y]f'dfc[fUa a Yg''7\UfcHf' UbX'@Uj fU'\Uj Y'X]fYVh' YI dYf]YbW' cZ k cf_]b[' k]h' fYgYUfV\Yfg' UbX' V\ca a i b]]mi [fci dg' cb' ci fYUW\ UbX' di V`]W Yb[U[Ya YbhUbX' Ug' dUfhcZi b]] Yfg]]m]di V`]WYb[U[Ya YbhgYb]cf' YUXYfg\]d'' H\Ym\Uj Y' Z]fgh' \UbX'YI dYf]YbW' cZfi bb]b[' Z bX]b[' gV\Ya Yg'Ug'k Y''Ug'Udd'm]b[' Zcf'ci fYUW\ Z bX]b[z UbX' dUfh]W' Ufm'k]h]b' h'Y' d\mg]W]' gV]YbW'g''5g'V\bg' i' fUbhg' h'Ym\Uj Y'\UX'cb[c]b[' YI dYf]YbW' k]h' gV\cc'ci fYUW\ UbX' di V`]WYb[U[Ya YbhUg'Vch' dfUW]H]cbYfg'UbX'Yj U'i Uhcfg'' b'UXX]hcb' hc' h']gZ' h'YmUfY' YI dYf]YbW'X'gcV]U' gV]YbW'g' fYgYUfV\Yfg. '7\UfcHf' \c'Xg' Ub'9X8' Z]ca' h'Y' b]gh]h' h' cZ'9Xi W]h]cb' k \Yf' \Yf' fYgYUfV\ k Ug' V\bw]fbYX' k]h' h'Y' U]h]h' XYg' cZ d\mg]Mg' fYgYUfV\Yfg'hc'ci fYUW\ UbX'@Uj fU]g'i bXYfU_]b[' U'dUfh]ja Y'D\8']b'9Xi W]h]cbU'F YgYUfV\ U]h' h'Y' i b]] Yfg]mcZG]h]f]b[' k]h' \Yf'gh' XmZcW'gg]b[' cb'h'Y' dfcZYgg]cbU'YUfb]b[' YI dYf]YbW'g'cZ d\mg]Mg' h'UW\Yfg''



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By Charlotte Lester, Programme Manager for public engagement and outreach at the Royal Society of Chemistry

H\Y'F cmU`GcWYmicZ7\Ya]ghmfF G7 E]g'cbY'cZh.Y'c'XYghW\Ya]WU'gWYbW'gcWYh]Yg'
]b'h.Y'k cfXžk]h'fcctg'XUh]b['VUW'hc'%' (%'H\Y'F G7 'di V']g\YX']hg'a cghfYWbh) mYUf'
ghfUHy [m]b' &\$&%UXXfYgg]b['Q



%" ðhfcXi Wqcb

%%F cmU`GcWYhmcZ7\Ya]ghfmC i hfYUW : i bX

H\]g'fYdcfhYI Ua]bYg'hY'ja dUVh'cZhY'F cmU`GcWYhmcZ7\Ya]ghfmC i hfYUW : i bX'ZcW gg]b[
cb'%* &'Uk UfXg'a UXY]b'&\$&\$ž'&\$&%UbX'&\$&&'H\Y'U]a g'cZhY'



:] [i fY & 'UbX 'HUV`Y`%g\ck 'h\Y`X]gf]Vi h]cb`cZ'h\Y`[fUbhUk UfXg`UWfcgg`h\Y`I ? 'UbX'h\Y`F`Ydi V`]W



@cc_]b['Uhi hY' XUHU' Zcf' 9b['jg\ 'fy[']cbg']b' HUV'Y' &ž hYfy']g' U[U]b' U' fyUgcbUV'Y' X]ghf]Vi h]cb' UWfcgg' hY' X]ZYfybhUFYUg' UbX' @cbXcb' XcYg' bchXca]bUH' < ck Yj Yfz' k \Yb' Wta dUf]gcbg' UFY' a UXY' VYh' YYb' hY' bcfh' UbX' gci h' cZ9b['UbX' U'cb['k]h' hY' YUghUbX' k YghžhYfy']g' U'g_Yk']b' hYfa g' cZU' cW]h]cb' cZUk UfXg']b' hY' gci h' cZ9b['UbX' UbX' hY' k YghcZ9b['UbX' 'H\Y' F G7' a Umk]g\ 'h' Wcbg]XYf' k \YhYf' hYfy' UFY' UbmdUfh]W' Uf' Xf]j Yfg' hUhUW]i bhZcf' h]g' X]ghf]Vi h]cb''

Table 2. Geographical distribution of grant awards in England

West Midlands	25	23%
South East England	22	20%
South West England	14	13%
London	14	13%
North West England	12	11%
North East England		



Table 3



8 i f]b['hY'dYf]cX'i bXYf'fYj]Yk žŽ bX]b['Zcf'hY'C i hfYUWk : i bX'WJa Y'Zca 'tk c'gci fWg.

%'



% "Di V]W9b[U[Ya YbhUbX'Ci fYUW : i bX]b[

H\Y'F G7'Ci fYUW : i bX'g]hg'k]h]b'U'Uf[Yf'di V]WYb[U[Ya YbhUbX'ci fYUW : UbXgWdY']b'
HYfa g'cZ dfUW]W' UbX'Z bX]b[" H\]g'gYW]cb'fY]Yk'g'hY'X]ZYfYbhcddcfh b]h]Yg'Uj U]UV'Y'hc'
cf[Ub]gU]cbgzhY'U]a g'cZhYgY' [fUbhZ bXgzhY'gW]Y'cZ] bX]b['Uj U]UV'Y'UbX'hY']a dUW'hcZ
chYf' [fUbhigWYa Yg" Gi a a UfmZ]bX]b[g'UfY' dfYgYbhYX'\YfY'k]h'a cfY'XYh]YX'XYgW]dh]cbg'
cZhY'&%Z bXg'fYj]Yk'YX'Uj U]UV'Y']b'5ddYbX]]'7'fY'U]b['hc'hY'g]hY'UbX'gW'cdY'cZhY'ci fYUW'
UbX'di V]WYb[U[Ya YbhZ bX]b['UbX'hY'U]a g'cZhY'gWYa Yg"

H\Y'Uj U]UV']]mcZ] bX]b['UbX'Y']]V']]mZcf'di V]WYb[U[Ya YbhUbX'ci fYUW :]b'hY' ?]g'cZ]b'
]b_YX'hc'gdYW]Z]WZ]W'cf]g'W'cbW'fb]b['hY'Udd']Wbh]g' dfcZ]gg]cb'cf'cf[Ub]gU]cb'fY" ["k \YhYf'



7 UgglWU' Gh X]Yg' X]gW ggYX' hY' cdYfUqcbU' WXU'Yb[Yg' UbX' hY' hmdYg' cZ cddcfh b]hYg' hY' [fUbhg' gYXYX' f6f]X[Yg' &\$&%&" < ck Yj Yfz' h' jg' gVX' Ya Y']g' j' YfmX]ZYfYbh]b']hg' U]a' g' hc' hY' F G7' C i fYUWX' : i bX" " b UXX]h]cb' hc' hY' k]XYf' di V]WYb[U[Ya YbhUbX' ci fYUWX' Z bX]b[" UbXgWdY' hYfY' UfY' U' fUb[Y' cZfY' Yj UbhUW]j]hYg' UbX' g' fUfY' [mk]h']b' hY' F G7']hg' Z UbX' hY' Zc' ck]b[' gYW]cb' YI Ua]bYg' gca Y' cZ hY' _Ym']b_g' UbX' WcbbYW]cbg' k Y' \Uj Y']XYbh]ZYX"

%('7 cbbYW]b['hc' F cmU' GcV]YhmcZ7 \Ya]g' fmfYgYUfW' UbX' g' fUfY' [m

< YfY' k Y' U]a' 'hc' \[\[\[h' hY' a Ubm k Umg']b' k \] WX' hY' C i fYUWX' : i bX' Wcbbf]Vi fYg' hc' UbX' Vi]Xg' cb' d' fYj]ci g' F G7' g' h' X]Yg' UbX' W' fYbhg' fUfY' [n'

A C :

H\YfY' UfY' U' fUb[Y' cZ Z]bX]b[g' Zca' hY' Di V]W5h]h' XYg' hc' 7 \Ya]g' fmfYg' XmfHbG' 6A F 6' &\$%) E' fY' Yj Ubh' hc' hY' C i fYUWX' : i bX" 5g' d' Uf' hc' Z h' jg' gh' Xn' cddcfh b]hYg' Zc' f' g' WYbW' Wc' a a i b]W]hc' fg' UbX' h' c' g' Y' k cf_]b[' k]h' hY' di V]Wk YfY']XYbh]ZYX" H\Y' _Ym' UfY' Ug' fY' Yj Ubh' hc' hY' C i fYUWX' : i bX' [fUbh' \c' XYfg' k YfY' h' U' h' hY' di V]WU]h]h' XY' hc' k UfXg' W' X' Ya]g' fmfYg' bXYX' hc' VY' [X]g' h' Ubh' Zca' hY']bX]j]Xi U' z' UbX' b' ch' Udd']YX' hc' hY' f' fY' U' k cf_X' U' bX' h' U' hg' WYbW' Wc' a a i b]W]hc' fg' bYXYX' hc' [I] c' k \YfY' d' Ycd' Y' UfY' Z' fY' Wc' [b]g]b[' h' U' hg' Y' Z' g' Y' W]b[' U' i X]YbW' g' hc' W' X' Ya]g' fmfYg' Ybhg' k]' b' ch' VY' fY' ZY' W]j Y' cZ hY' [YbYfU' di V]W' C i fYUWX' : i bX' [fUbh' \c' XYfg' \Uj Y' gi W' W' ggZ' " mYb[U[YX' hY' di V]Wk]h' hc' d]Wg' k \Wk UfY' fY' Yj Ubh' hc' hY' a' k]h' U' V' fc' U' X' fUb[Y' cZ UfY' Ug' \Uj]b[' VY' Yb' YI d' c' fYX" H\YfY' \Ug' U' gc' VY' Yb' g] [b]Z' W]bh' d' Uf' h' Y' fg' \d' k cf_]b[' UbX' Wc' a a i b]m' V' Ug' YX' U' W]j]m' k]h' hY' fY' gi ' h' h' U' h' hY' [fUbh' \c' XYfg' \Uj Y' VY' Yb' U' V' Y' hc' fY' U' W' bYk ' U' i X]YbW' g'

C A :

H\Y' 7 \Ya]g' fmfYg' Zc' f' 5' " gh' Xmi' fA i fU' V' U' z' G' \Y' X' fU' _Y' / ' F Y]ggz' &\$&\$E' YI Ua]bYX' hY']a d' U' W' hc' ZU' g' Yh' cZ UXX]h]cbU' W' X' Ya]g' fmfYg' W]j]hYg' UbX' Yj Ybhg' Zc' f' U' [fci d' cZ%+ g' W' cc' g']b' 9b[' UbX' " H\Y' fY' dcfh' X]g' W' ggYg' U' bi a VY' f' cZ UgdY' W' g' z']b' W' X]b[' hY' U' h]h' XYg' cZ di d]g' hc' W' X' Ya]g' fmfYg' f' U' gc']XYbh]ZYg' j Uf]ci g' UgdY' W' g' cZ VY' gh' d' fU' W' W' Zc' f' X]ZYfYbhg' fU' _Y' \c' XYfg' gi W' X' Ug' Z' bXYfg' UbX' hY' C i fYUWX' : i bX' XcYg' U' X' YfY' hc' hY']XYbh]ZYX' d' fU' W]W' g' " : cf' YI Ua d' Yz' hY' C i fYUWX' : i bX' \Y' dg' hc' [9bgi fY' U' X]j Yfg]m' cZ d' Ycd' Y' f]b' W' X]b[' U' W' c' gg' U[Yz' Y' h' b]W]m' z' [YbXYf' UbX' c' h' Yf' UgdY' W' g' cZ d' Ycd' Y' U']XYbh]hYg' z' W' U' fU' W' Y' f]g]hYg' z' UbX' W' f' W' a g' h' U' b' W' g' E' UfY' d' c' f' f' U' m' X' Ug' Wc' b' f']Vi h]b[' hc' W' X' Ya]g' fmfYg' UbX' k cf_]b[']b']h' UbX' k]h']h' i' H' \]g' \Ug' VY' Yb' U' W' X]j YX' V' m' d' f' c' Y' W' g' k cf_]b[' k]h' i bXYf' fY' d' fY' g' Yb' h' Y' X' U' i X]YbW' g' UbX' h' c' g' Y' k \YfY' hY' g' hc' f]Yg' UbX' YI d' Yf]Y' b' W' g' fY' fQ bW'



dfc[fYgg]cbDUbX']bWl gj] Y' UWWggD' b' hYgY' h c' UfYUgž hY' C i fYUW' : i bX' dfc YWg' UfY'



&" 5ddfcUWX

&"%GWŁdY

H\]g'fYdcfhgYY_g'hc'VŁbg]XYf'UbX'UggYgg'k \Yh'Yf'h'Y'Ci'fYUWX : i bX']g'a'YYh]b[]hg'Ufh]W'U'hYX' U]a'g'f]gYY'g'YVW]cb'%"%Ł'Ł'Ł'cfXYf'hc'UggYgg'h'Ł]gž'h'Y'F'G7'ci'h]bYX'h'Y'Zc'Ł'ck]b['df]cf]h'mei'Ygh]cbg' Zcf'h'Y'fYgYUfWX

%" E i Ubh]Z]b['h'Y'fYUWX'cZ'h'Y'dfc[fUa' a'Y'"9"["'k \Uh'md'Yg'cZcf[Ub]gUh]cbg'k'YfY'Z' bXYX' UbX'k \Uh'Ui'X]YbVW'g'X]X'h'Y'mYb[U[Y'k]h'3' (**Section 1.2**).

&" 9g'hUV]g\]b['h'Y'YI'h'bh'Ł'k \]W'h'Y'Ci'fYUWX : i bX']g'UWX]Y]]b[]hg'U]a'g' (**Section 3**).

' " 7ca' a'Ybh]b['cb'h'Y'Z' bX]g'g'fYb[h'g'UbX'k'YU_bYggYg'Z'ca' 'Ub]b'h'fbU'UbX'YI'h'fbU' dYfgdYVW]j'Y' (**Section 3**).

(" ; U]b]b['Ub'i' bXYfghUbX]b['cZ'h'Y'YI'dYf]YbVW'g'cZ[fUbh'Ł'c'XYfg'Z'ca' 'dfY!Udd']W]h]cb'hc' d'cg'h'dfc'YVh'Y[UV]Yg' (**Section 3**)"

)" F'YVŁ'a' a'YbX]b['k'Um]]b'k \]W'h'Y'dfc[fUa' a'Y'W]b'Xc'a'cfY'hc'a'YYh]hg'U]a'g'UbX' cV'YVŁ' Ł'



ci h]bYX']b' HUV'Y' (" H\Y' a U]b' h\Ya Yg']XYbh]ZYX']b_ ' h' h\Y' C i hYUW' : i bX@' U]a g' UbX' h\Y' Yj]XYbW' Ya Yf[YX' Zca ' ci f' UggYgga YbhicZ h\Y' U]a gž']bZ'fa YX' Vmci f' ck b' Yl dYf]YbW' UbX' _bck `YX[Y' UbX' gi dd`Ya YbYX' VmX]gW gg]cbg'k]h' F G7 `Vc`YU[i Yg"

Table 4. Evaluation framework describing themes, evidence and data

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þ'cfXYf'hc'ei UbhZmHAY'fYUWk'cZHAY'dfc[fUa a YzUbx'hc']bZcfa 'hAY']bHfj']Yk' gY'YWfj'cbg'dfcW'ggz' Ub' UbU'mg']g' cZ hAY' Udd']WUhc'b' UbX' Yj' U'i Uhc'b' XUHU' k' Ug' i' bXYfU_Yb'" HAY' F' cmU' GcWYfmi'cZ' 7\Ya']ghfmi'Wc''YWg' U' fUb[Y' cZ']bZcfa Uhc'b' Ug' dUfhi'cZ hAY' Udd']WUhc'bg' dfcW'gg' UbX' Uhi' hAY' Wc'bW']gcb'cZHAY'dfc'YW'i'5'']ghcZUj' U]UV'Y' XUHU'UbX']bZcfa Uhc'b' \Ug' VYyb'a' UddYX']bhc' U'h']fX' Wc'i' a' b'cZHUV'Y' ('UVcj' Y'"

HAY' XUHU'UbX']bZcfa Uhc'b' gci' fW'g'a' UXY'Uj' U]UV'Y']bW' X'YX' Wc'd']Yg'cZ' Udd']WUhc'b' Zcfa' g'z' d'cgH' dfc'YW'i' ZYXVUW' UbX' Ubmigi' dd'Ya' Yb'fUfmi']bZcfa Uhc'b' gi' W' Ug' Yj' U'i Uhc'b' fYdc'f'g'" BchYj' Yfmi' dfc'YW'i' \UX' U'g'dUfUHY' Yj' U'i Uhc'b' fYdc'f'Ubx' hAY'g' gi' Va']gg']cbg'k' Yf' cZj' Ufmi'b['Yb[h'z'i']g'b[' U'a']i' hi' fY'cZ'a' Yhc'Xg'UbX' k' YfY' [YbYfU'mUi' h'cfYX' Vmi' hAY' d'fc'YW'i' h'Ua' 'k']h' U'ga' U''bi' a' VYf' d'fc'Xi' W'X' Vmi'Yi' h'f'bu' Yj' U'i Uhc'fg'"5' g'Yhc'ZXYgW']dhj' Y' gh'Uhg']Wg' k' YfY' i' gYX' h'c' gi' a' a' Uf']gY' hAY' Uk' UfXg'a' UXY' Vmi' hAY' z' bX' W'dhi' f']g']hY' cZ[fUbh'z' c'WUhc'b' cZcf[Ub']g' Uhc'b' z' Ui' X]YbW' 'mdY' UbX' fYUW' "5' bi' a' VYf' cZ' fYWc'a' a' YbXUhc'bg' \Uj' Y' VYyb'a' UXY']b' fY' Uhc'b' hc' XUHU' Wc''YWfj'cb' Uhi' Udd']WUhc'b' UbX' d'cgH' d'fc'YW'i' d' \UgY' hc']g'a' d']zmi' UbX' g'hfYb[h'Yb' hAY' XUHU' VY']b[' Wc''YW'X'" HAY'gY' WU' b' VY' Z' ci' bX']b' 5' ddYbX']i' 5' Vi' h']b' gi' a' a' Ufmi' hAY'gY' XYgW']VY' U' bi' a' VYf' cZ' Wc'gYX' ei' Ygh']cbg' hc' Ug' _[fUbh' \c' XYfg' k' \]W' U' ck' Zc' f' YUg']Yf' Wc'' Uhc'b' UbX' Wc'a' dUf']gcb' U' W' cgg' hAY' d'fc' YW'g'"

HAY' gYa']i' ghfi' W'i' fYX']bHfj']Yk' g' Yl' d'cfYX' hAY' [fUbh' \c' XYfg'] Yl' dYf' YbW'g' cZ hAY' d'fc' YW'z' k' \mi' hAY' mi' Udd']YX'z' hAY' fc' Y' cZ' W'Ya']ghfmi' UbX' W'Ya']gh'g' k']h']b' hAY' d'fc' YW'i' UbX' hAY' Ui' X]YbW' hAY' mi' k' cf_YX' k']h' UbX' hAY']f' UggYgga' Ybhi' cZ hAY']a' dUW'i' HAY']bHfj']Yk' g' W'YX' i' Y' WU' b' VY' Z' ci' bX']b' 5' ddYbX']i' 5' " HAY' Zc' ck']b[' W']hYf']U' k' YfY' i' gYX' hc']X' Yb']zmi' hc'gY' Zc' f']bHfj']Yk' UbX' hAY' Yf' k' Ug' U'gc' Ub']bHfj']b' hc' Ybgi' fY' [Yc[fUd' \]W']gd' fY' U' X' U' W' cgg' hAY' gUa' d'Y'.

- 5]a' Zc' f'a']b]a' i' a' cZ%\$' d'fc' YW'g' k' \c' UfY' k' cf_]b[' k']h' i' bXYf' fYd' fYgYbHfX' Ui' X]YbW'g'"
- F'ci' [\mi' % (']bHfj']Yk' Y'g' k']h' 'ga' U'' [fUbh' \c' XYfg'"
-) \$.) \$'gd']h' U' W' cgg' g' W' cc' ' UbX' di' V']WYb[U[Ya' Ybhi' fUbh'g'"
- K']h']b' hAY' g' W' cc' `g' \ U' Zdf']a' Ufmi'z' \ U' ZgY' Wc' bX' Ufmi'
- 9bgi' fY' Uhi' YUgh' h' c' ']bHfj']Yk' g' k']h' ' [fUbh' \c' XYfg' k' \c' \Uj' Y' k' cf_YX' k']h' ' U' dc']W']c']Yfba' Ybhi' U' X]YbW' "
- @Uf[Y' Uk' UfX' [fUbh' \c' XYfg' hc' a' U_Y' i' d' &']! \$i' ' cZ']bHfj']Yk' g'"

HAY' gY' Udd' f'c' U' W' X' Zc' f']bHfj']Yk' k' YfY' U'gc']gd']h' ZU']f' mYj' Yb' m' U' W' cgg' &\$&\$! &\$&&' HAY' F' G7' k' f' chY' hc']X' Yb']z' YX' [fUbh' \c' XYfg' c' b' ci' f' VY' \ U' Z' hc']b]]h' h' Ya' ' Zc' f']bHfj']Yk' "' þ' Zc' fa' YX' Wc' bgY' bhi' k' Ug' gci' [\h' Zca' ']bHfj']Yk' Y'g' UbX' hAY' m' \UX' hAY' c' d' d' cf' h' b']m' hc' k']h' X' fUk' ' h']g' Wc' bgY'



8YHU]YX'WUgY'gh X]Yg'\Uj Y'VYYb'dfYdUfYX'VUgYX'cb'gY'YVWYX']bHYfj]Yk g' UbX' dgYi Xcbma g' \Uj Y'VYYb'i gYX'hc'dfcj]XY'Ubcbma]miZcf'hY']bX]j]Xi U'g'fU_]b['dUff'

&"('8 UHU'5 bU'mg]g

K]h'fY[UfXg'hc'XUHU'UbU'mg]gž@Ui fU'YX'cb'hY'XcW a YbHfmyj]XYbVW'UbX'7\Uf'cHY'YX'cb' hY']bHYfj]Yk g'"F YZYI]j Y'hYa UH]WUUbU'mg]g f6fUi b'UbX'7'Uf_Y'&\$%- E'k Ug'hYb'i gYX'VmVch' @Ui fU' UbX'7\Uf'cHY' Ug'hY' Z]bX]b[g' Z'ca 'Vch' gYhg' cZ Yj]XYbVW' k YfY' W'a V]bYX'" HUV'Y')' gi a a Uf]gYg'hY' W'XYg' i gYX' U[U]bgh'hY']XYbH]ZYX'hYa Yg' Z'ca 'hY' Yj U'i UHcb' Z'Ua Yk cf_



k cfXg' fdi V]WYb[U[Ya Ybh[fUblž'ci hfYUW' ž bX]b[ž YHWE' UbX' hfci [\ 'cb']bY'']ghg' cZ ž bX]b[' Uk UfXg' a U]bHJ]bYX' Vmi cf[Ub]gUH]cbg' gi W' Ug' hY' BUh]cbU' 7 c!cfX]bUH]b[' 7 YbfY' Zcf' Di V]W 9b[U[Ya YbhfB 7 7 D9' &\$\$(£": i ``XYHJ]g' cZH Y' gWYa Ygž']bW X]b[' hY' gW' dY' cZH Y' f' ž bX]b[' UbX' hY' f' U]a g' Wb' VY' ži bX']b' 5ddYbX]l ' 7 "

5 ``cZH]g' UbU'mg]g' \ Ug' VYYb' W' a V]bYX' h' a U_Y' Ub' UggYgga YbhcZH Y' fYUW' cZH Y' d' fc[fUa a Yž]hg']a dUW' UbX' hY' Yl dYf]YbW' g' cZ [fUbh' \ c' XYfg" H Y' ž' c' k]b[' gYW]cb' X]gW ggYg' hY' _Ymi hYa Yg' Uf]g]b[' k]h]b' hY' UbU'mg]g' UbX' a U_Yg' fYW' a a YbXUH]cbg" 5 h' hY' YbX' cZH Y' UbU'mg]g' gYW]cb' UfY' ci f' ck b' fYZYW]cbg' UbX' W' a a YbHufm]b' c' fXYf' h' UXX' h' hY' UggYgga YbhcZg' fYb[h' g' UbX' k YU_bYggYg"



' "%DfcZYgg]cbU`XYj Y`cda YbhZcf`WXYa]ghg

H\]g`gYW]cb`YI d`cfYg` \ck` h`Y`Ci h`YUW` : i bX`XY`j] Yfg`U[U]bgh]hg`Uja` hc` [8Yj Y`cd`gWYbWY`
Mc a a i b]g]cb`g_]`g`cZ WXYa]ghg`E`



Table 6. Chemist journeys through the outreach fund. As noted elsewhere, schoolteachers should be considered to move through any of these routes depending on their personal circumstances.

	D		
I bVUX[YX' dfcZ'gg]cbU'	K cf_g']b' U' fc' Y' h' Uhi gYg' cf' UXXfYggYg' V\Ya]g'f'm Yj YfmXUmik]h'ci h]hVY]b[: VUX[YX' Ug' íV\Ya]g'f'm'' 9" [" Vfyk Yfmk cf_Yfz' VU_Yfz'a U_Y!i d' Ufh'gh'	<ul style="list-style-type: none"> 6Y[]bg'hc' i' bXYfghUbX' h\Y' V\bbYW]cbg' VYrk YYb' h\Y]f'k cf_ UbX' V\Ya]g'f'm' GHUf'g' hc' V\bbYW' h\Y]f'k cf_'k]h' UfYUg' cZgcV\YhU' V\bbVWfb' fY'Uh\X' hc' V\Ya]g'f'm' 	<i>"we had a little conversation at the end with her saying, you know, the chemists use the word toxic, this is what it means. But when a women's magazine uses it, it's a totally different thing."</i>
7\Ya]g'f'm Ybh'i g]Ugh	K cf_g'hc' Ybh'i gY' chYfg' UVci h\Ya]g'f'mk]h'ci h]hVY]b['h\Y]f'gdYV\W VUW_[fci bXz'Vi h\Ug' d]W_YX'i d'U'`chcZ ^M	B	







C

: i bXYX'dfc YWg'dUfthYf'k JhžUFY`YX`VmiUbX`Wcbgi`ha UbmiX]ZYfYbhimdYg'cZWXYa]ghg"H\YfY`
]g`Yj]XYbW`cZdfcZYgg]cbU`XYj Y`cda YbhUWfcgg`hY`gdYWfi a`Zfca`]b]hU`g_]`g`XYj Y`cda Ybh
Y"[" Wca a i b]WU]cb`hc`bi UbWX`Wca d`YI`XYa cbgfU]cb`UbX`hYUW]b[`hYXb]ei Yg" Dfc YW
bfUa g`UbX`Udd`]WU]cb`Wca`VY`VYhYf`gi ddcfhYXg"bbXXfg]UbX`hY`k Umg]b`k` \]W`Wcbf]Vi`h]b[`
hc`ci`hYUW`UbX`Yb[U[Ya Ybhk cf_`WU]b`dfcj]XY`dfcZYgg]cbU`XYj Y`cda YbhZcf



' "& F U]g]b[' Ugd]fUH]cbg

K Y' Vcb]bi Y']b' h.]g' gYW]cb' k]h' h.Y' Yj]XYbW' Zcf' Ubch.Yf' cZ h.Y' C i fYUW' : i bX] U]a g' hc' [9b[U[Y' k]h' gWcc'` gh XYb]g' E']bgd]f]b[' UbX' fU]g]b[' Ugd]fUH]cbg' cZ gh XYb]h' U] X]YbW]g' hc' bi f]i fY' U' Z' h' fY' [YbYfUH]cb' dUgg]cbUH' UVci h' h.Y' VXYa]W]` gWYbW]g]`" K Y' VY[]b' k]h' U' gi a a UfmcZ h.Y' hmdY' cZYb[U[Ya Ybhk]h' gWcc'g' Z`ck YX' VmU' X]gW gg]cb' cZ h.Y']a dUW]cb' gWcc'g' UbX' cb' ch.Yf' U] X]YbW]g' H\Y' WUgY' gh X]m]b' h.]g' gYW]cb' fYj]Yk g' h.Y' Y] dYf]YbW]g' cZ Ub' Ybj]fcb' a Yb]U' V]Uf]m] XYj Y' cd]b[' k cf_g\cdg' Zcf' df]a Ufm] gWcc'g' k \YfY' F G 7' Z' bX]b[' gi ddcf]hX' h.Y']bj c]j Ya Ybh' cZ VXYa]g]h' "8 i f]b[' h.Y' Ub]m]g]g']hk Ug' UddUfYbh]h' U]h[fUbh' \c' XYfg' X]X' bch' \Uj Y' U' g' \UfYX' i bXYfg]UbX]b[' cZ k \Uh]fU]g]b[' Ugd]fUH]cbg' a YUb]g' "K Y' \Uj Y']bh' fdfYhX' fU]g]b[' Ugd]fUH]cbg' Ug' gh XYb]g' \Uj]b[' U' d'cg]h]j Y' Y] dYf]YbW]g' k \]W' YbW]i fU[Yg' h' Ya' ' hc' Vcb]bi Y' h.Y']f' gh X]mcZ VXYa]g]f]m]cf' di fgi Y' h.Y']f']bh' fYgh]b' h.Y' gi VYV]i' : cf' gca Y' h.]g' a Um] a YUb' [c]b[' cb' hc' gh X]m]h.Y' gi VYV]id'cg]h%' Vi hZcf' ch.Yf]g']h]a Um] VY' a U]b]U]b]b[' Ub']bh' fYgh]b' h.Y' gi VYV]i'

H\YfY' k YfY' a Ubm]dfc' YV]g' Yb[U[]b[' k]h' gWcc'` U] X]YbW]g' f]h') i' `cZ dfc' YV]g]` H\Y' U]a g' cZ h.Y' gY' dfc' YV]g' j Uf]YX' k]h' a Ubm] U]a YX' hc']bW]YUgY' dUf]h]W]dUH]cb']b' VXYa]g]f]m] ei U] Z]W]h]cbg' d'cg]h%' UbX' hc' YbW]i fU[Y' di d]g' hc' Vcb]g]X]Yf' fci h' Yg']b' hc' \][\Yf' YX]i W]h]cb' UbX' U' VXYa]g]f]m] fY' U]hX' W]fY]Y" 7 i ff]W' i a !]b_YX' dfc' YV]g' k YfY' cZYb' X]Y']j YfYX']b' dUf]h]Yfg' \]d' VY]k Y]b' gWcc'g' UbX' i b]j Yfg]h]Yg' "GWcc'` di d]g' cZ U'` U[Yg' k YfY' YbW]i fU[YX' hc' a U_Y' Vcb]bYV]h]cbg' VY]k Y]b' h.Y']f' Y] dYf]YbW]g']b' h.Y' WUgg]fcca ž' h.Y']f' ck b']j Yg' UbX' fYgYUfW]"



H\YgY`YI dYf]YbW`g`dfcj]XYX`gh XYbhg`k]h`Ub`cddcfh b]mhc`]a dfcj Y`h\Y]f`Uk UfYbYgg`cZ\ck`
 W\Ya]glfmi`]b_g`k]h`fYU`]]Z`UbX`h`g`\Ug **“greatly improved pupils’ confidence”** fl fUbh\c`XYf`
 ZYXVUWu” H\UW\Yfg` U`gc` fYdcfhX` h\Uh dfc`YWg` gi W\ggZ``m **“changed their [pupils’]
 perception of chemistry and the sciences as providing options for future careers/study”** fl fUbh
 \c`XYf` ZYXVUWu” H\Y`dfc`YWg` U`gc`Ybgi fYX`di d]g`k YfY`UV`Y`hc`YI dYf]YbW`W\Ya]glfmi`Zc`f`
 h\Ya gY`j Yg`UbX` [U]b`Ub`i bXYfg]UbX]b[`cZ h\Y`dfc`W\ggZ`YbWci fU[]b[`h\Ya `hc`XYj Y`cd`h\Y]f`
 W f]cg]m` **“The session helped the children come up with wonderful questions to investigate
 themselves.”** fl fUbh \c`XYf` ZYXVUWu” `b`cbY`h`hc]b[`dfc`YW`gh XYbhg` fYdcfhX` h\Uh h\Y`
 YI dYf]YbW` \UX`\Y`dYX`h\Ya `ZY`a cfY`WcbZ]XYbhUVci h`YUfb]b[`UbX`\UX`dcg]h] Y`mT \ ` Y



5k UfX'a UXY'rc H\Y'7 ci bfmHfi ghžUb Ybj]fcba YbHfY'UH'X'WXUf]m'i: i bX]b[' .



C

H\YfY`jg`Yj`jXYbW`Zfca`h\Y`fYj`jYk`h`Uhi`Ui`X`jYbW`g`Ugd`fU`h`cbg`\Uj`Y`VYYb`fU`jgYX`UbX`h`Uhi`h`YfY`\Uj`Y`VYYb`ja`dUW`g`cb`Uk`UFYbYgg`cZ`W`Ya`jgfm`Ug`U`Z`hi`fY`W`fYf`UbX`ja`dfcj`YX`W`b`Z`jYbW`UbX`W`f`cg`j`m`j`b`fY`U`h`cb`h`c`W`Ya`jgfm`5`c`Z`h`Y`g`Y`ja`dUW`g`dcg`h`j`Y`m`W`b`h`f`j`Vi`h`Y`h`c`h`Y`C`i`h`fY`U`W`:
: `i`b`X`U`j`a`c`Z`[`j`b`gd`f`b`f`UbX`f`U`g`j`b`f`U`gd`f`U`h`cbg`c`Z`g`h`X`Y`b`h`U`i`X`j`Y`b`W`g`h`c`b`i`f`h`f`Y`U`Z`h`i`f`Y`
[`Y`b`Y`f`U`h`c`b`d`U`g`j`c`b`U`h`Y`U`V`c`i`h`h`Y`W`X`Ya`W`j`g`W`Y`b`W`g`i`" `#`k`c`i`X`V`Y`c`Z`V`Y`b`Y`Z`h`c`[`f`U`b`h`c`X`Y`f`g`j`Z`
h`Y`F`G`7`k`Y`f`Y`U`V`Y`h`c`d`f`c`j`j`X`Y`a`c`f`Y`[`i`j`X`U`b`W`U`f`c`i`b`X`\`c`k`h`c`Y`b`[`U`[`Y`k`j`h`h`Y`[`c`U`c`Z`f`U`g`j`b`f`
U`gd`f`U`h`c`b`g`z`Y`g`d`Y`W`U`m`j`b`h`Y`f`a`g`c`Z`j`b`X`j`b`[`U`W`e`a`a`c`b`Z`f`U`a`Y`k`c`f`_`Z`c`f`X`j`g`W`g`g`j`b`[`h`Y`ja`dUW`g`UbX`
c`i`h`W`e`a`Y`g`":`c`f`Y`i`U`a`d`Y`z`a`U`b`m`G`H`9`A`Y`b`[`U`[`Y`a`Y`b`h`Z`b`X`Y`f`g`UbX`d`f`c`j`j`X`Y`f`g`i`g`Y`h`Y`G`W`j`Y`b`W`
7`U`d`j`U`h`Y`U`W`j`b`[`5`d`d`f`c`U`W`f`i`c`X`Y`W`?`j`b`[`/`5`f`W`X`Y`f`&`\$`%`+`E`U`g`U`k`U`m`j`b`k`\`W`X`h`c`Z`f`U`a`Y`h`Y`
X`j`g`W`g`g`j`b`" `H`Y`g`U`f`Y`X`[`c`U`g`c`Z`h`Y`C`i`h`f`Y`U`W`:
: `i`b`X`UbX`h`Y`k`c`f`_`c`Z`F`G`7`h`Y`U`a`g`W`e`i`X`V`Y`
g`h`f`Y`b`[`h`Y`b`Y`X`h`f`c`i`[`\`X`Y`j`Y`c`d`a`Y`b`h`c`Z`U`Z`f`U`a`Y`k`c`f`_`h`c`[`U`h`Y`f`UbX`g`U`f`Y`X`U`h`Z`Y`j`j`X`Y`b`W`UbX`
Z`Y`X`V`U`W`_`j`b`_`Y`X`h`c`f`U`j`g`j`b`[`U`gd`f`U`h`c`b`g`h`f`c`i`[`\`Y`X`i`W`U`h`c`b`UbX`h`f`c`i`[`\`c`i`h`f`Y`U`W`"

:

- 7" I`g`Y`h`Y`G`W`j`Y`b`W`7`U`d`j`U`h`Y`U`W`j`b`[`5`d`d`f`c`U`W`f`i`c`X`Y`b`Y`h`U`" `&`\$`%`+`E`Z`c`f`U`b`c`h`Y`f`Y`g`Y`U`f`W`!
j`b`Z`c`f`a`Y`X`Z`f`U`a`Y`k`c`f`_`Z`k`\`Y`b`U`g`_`j`b`[`[`f`U`b`h`c`X`Y`f`g`h`c`X`Y`g`W`j`Y`Y`h`Y`V`Y`b`Y`Z`h`g`c`Z`h`Y`j`f`d`f`c`Y`W`h`
Z`c`f`g`W`X`c`c`U`i`X`j`Y`b`W`g`U`h`h`Y`U`d`d`j`W`U`h`c`b`g`h`U`[`Y`" `H`Y`d`f`c`Y`W`h`W`U`b`h`Y`b`V`Y`f`j`j`Y`k`Y`X`U`[`U`]`b`g`h`
h`Y`g`Y`c`i`h`W`e`a`Y`g`U`g`d`U`f`h`c`Z`h`Y`Y`j`U`i`U`h`c`b`d`f`c`W`g`g`"
- 8" 7`c`b`g`j`X`Y`f`U`X`X`j`b`[`i`d`i`V`j`W`U`i`X`j`Y`b`W`g`E`h`c`h`j`g`U`j`a`U`c`b`[`g`j`X`Y`g`W`X`c`c`U`i`X`j`Y`b`W`g`" `H`Y`f`Y`\`U`g`
V`Y`Y`b`Y`j`j`X`Y`b`W`c`Z`b`c`b`!`g`W`X`c`c`U`i`X`j`Y`b`W`g`U`j`j`b`[`f`U`j`g`Y`X`U`gd`f`U`h`c`b`g`UbX`h`Y`f`Y`U`f`Y`
W`f`U`j`b`m`j`b`g`h`U`b`W`g`k`\`Y`f`Y`h`Y`Y`i`d`Y`f`j`Y`b`W`g`\`U`j`Y`V`Y`Y`b`j`b`g`d`f`U`h`c`b`U`"
- 9" K`c`f`_`k`j`h`[`f`U`b`h`c`X`Y`f`g`h`c`W`e`a`a`i`b`j`W`U`h`Y`h`Y`g`i`W`W`g`g`Y`g`c`Z`h`Y`d`f`c`Y`W`g`i`g`j`b`[`
U`d`d`f`c`d`f`U`h`Y`j`b`h`Y`f`b`U`UbX`Y`i`h`Y`f`b`U`Z`c`f`a`U`h`g`UbX`W`X`U`b`b`Y`g`" `H`\`j`g`j`b`W`i`X`Y`g`V`i`h`j`g`b`c`h`ja`j`h`Y`X`
h`c`Y`Z`Y`W`j`Y`d`f`U`W`j`W`UbX`ja`dUW`" `H`Y`Z`c`f`a`U`h`UbX`W`X`U`b`b`Y`g`i`h`j`g`Y`X`g`U`c`i`X`V`Y`
d`f`c`d`c`f`h`c`b`U`h`Y`UbX`h`U`j`c`f`Y`X`h`c`h`Y`X`Y`g`j`f`Y`X`U`i`X`j`Y`b`W`UbX`d`i`f`d`c`g`Y`"



' "' C ddcfh b]hmhc \][\][\ h'cd]WU' bUhi fY'cZWXYa]ghfmUbX']hg' fY'Yj UbWY' hc' dYcd'Y@'XU]'m']j Yg

H\Y' bYI hC i fFYUWX' : i bX'U]a' hc' VY'YI Ua']bYX']g'hc' [9b[U[Y'k]h' di V']WUi X]YbWg' E']bj' c']]b[

U'k]XY' fUb[Y'cZdYcd'Y']b' fY'Yj UbhVc'bhYa' dcfUfm]ggi Yg']b' h'Y' WXYa']WU' gWYbWg']H\]g' UgdYW

cZYb[U[]b['Ui X]YbWg'k]h' WXYa']ghfm]g'XYgW]VYX']b' h'Y' C i fFYUWX' : i bX'U]a' g'Ug' VY]b[']]b_YX'

hc' k cf_]b[' k]h' di V']WUi X]YbWg'z' Vi h']h']g' WYUf' h'Uh' gWcc'g' ZcW' ggYX' dfc' YWg' UfY' U'gc' : i bX



]bX]W]hYX'ZY']b['fi ghYX'VmiHAY'F G7 'hc'Xc'k \UhiHAYm_bck 'k Y''z'UbX'hc'Xc'HAY]f'VYghUhiHAY'fYgh
cZ]h'5g'dfYj]ci g'm'\[\ '\[\ 'hYXz']hk Ug'i bWYUf'Ug'hc'\ck 'Ubmi'YUfb]b['Zca 'hAY'dfc'YWg'a][\h
VY' Wca a i b]W]hYXz' h.]g' hja Y' k]h' hAY' ZcW'g' cb' k Umg']b' k \]W' hc']XYbh]Zni UbX']bW'fdcfUHY'
WXYa]g'fmi'hd]Wg/ k]h' dUFU''Y'g' hc' hAY' dfYj]ci g'm'X]gW'ggYX']XYUg' cZ]b'fcXi W]b['bYhk cf_gz'
a i W' cZ'hAY''YUfb]b['gc'Zf'\Ug'ghUmYX'k]h.]b'Z bXYX'cf[Ub]gU]h]cbg'UbX'hAY]f'X]fYWhibYhk cf_gz'
fU'hAY'f'hUb'VY]b['g\UFYX'a cfY'k]XY'ni'





fYdfYgYbHfX'Ui X]YbWg'hAY'F G7 'jg'gYY_]b['hc'gi ddcfh' U'gc'UddYUfYX'hUhZcf'a Ubmdfc'YVWg' hAY]f'fYUW'k Ug'a i V'k]XYf'hUb'Ubh]V]dUfY'cf'Yj Yb'UW'ci bh'X'Zcf']b'hAY]f'fYdcfh]b["'

U'cfXYf'hc'dfcj]XY'a cfY'W'bhYI hUbX'WUf]mhc'hAY'k cf_'VY]b['XcbY'k Y'fYj]Yk YX'hAY' [fUbh Uk UfXg'Vmicf[Ub]gU]cb'hmdY''H\Y'Z "'XYHU]g'cZ'hAY'gd']hWUb'VY'Zci bX']b'HUV'Y'%*z5ddYbX]] '6"

- K \Yb'k Y'Xc'h]gž'hAY'dfcdfh]cb'cZgV'cc'g'fYW']j]b['U[fUbh]g'hAY'gUa Y'UW'cgg'h'cgY' k cf_]b['____'i bXYf'fYdfYgYbHfX'[fci dg'UbX'h'cgY' ____"'
- : cf' h'cgY' k cf_]b['____' i bXYf'fYdfYgYbHfX'[fci dgž hAY' 'I9Xi W]h]cb' V'Uf]m'g'WU' YbH'fd]gY'U'X'7ca a i b]mV'Uf]m'W]H' [cf]Yg'a U_Y'i d'\][\Yf'dfcdfh]cbg'k]h]b'hAY' dfc'YVWg' hUf[Yh]b[' i bXYf'fYdfYgYbHfX' Ui X]YbWg"' **Cultural organisation** U'gc' \Ug' U' **higher proportion of representation in this category.**
- H\Yb'k]h]b'hAY'dfc'YVWg' ____'k cf_]b['k]h' i bXYf'fYdfYgYbHfX'[fci dgž'hAY' 'i b]]Yfg]h]Yg'U' UbX'7G'W]YbW'W'bhY#G'H9A 'Yb[U[Ya Ybhdfc]]XYf'W]H' [cf]Yg'a U_Y'i d'g'][\hm\][\Yf' dfcdfh]cbg"'



<Uj]b['W'bg]XYfYX'k \c']g' i bXYf'fYdfYgYbHfX']b'V'kYa]g]fm'VUgYX'cb'hAY'fYgYUfV'k'fYz'fYbW'X' UVcj Y'fY["'5GD#9G'' 'UbX'hAY'F G7]g'ck b'k cf_]UbX'k \c'hAY' [fUbh'\c'XYfg'\Uj Y'k cf_]YX' k]h'k Y'bck 'fYj]Yk 'hAY'Yj]XYbW'Zcf'hAY'YbUV']b['ZU'W'c'fg'gi ddcfh]b['gi W'ggZ ''Yb[U[Ya Ybh k]h' i bXYf'fYdfYgYbHfX' [fci dg'' U' h'fa g' cZ gi W'ggZ ''m'fYUW]b['hAY']bh'bxYX' Ui X]YbW'



gi ddcf]b[' \ca YgW\cc`]b[' Xi f]b[' `cW_Xck bgž Žcf' Yl Ua d`Y' k]h' cb`]bY' j]XYc' WcbhYbhi cf
Yl dYf]a YbhVcl Yg'gYbhi'c'h\Y'Wca a i b]m'



5k UfX'a UXY'hc`cWJ`ga U`YbHfd]gYŽI ? 'I bd'i [[YX'7 ⇒ žgdYWU]g]b[']'b`
XYj Y`cd]b['\UbXg!cb'UbX`Wtgh



' ") '8 Yj Y`cd]b[`dfcZYgg]cbU`bYrk cf_gžfY`Uh]cbg\]dg`UbX`k cf_]b[`Wc`UVcfUhj`Y`m

H\]g`gYW]cb`fyj`Yk`g.

- <ck `WYa]ghg`\\Uj`Y`XYj`Y`cdYX`hY]f`dfcZYgg]cbU`bYrk cf_g`Zc`ck`YX`VmU`XYgW]dh]cb`cZ`fY`Uh]cbg\]d`XYj`Y`cda`YbhUbX`Wc`UVcfUhj`Y`k cf_]b["
- Cddcfh`b]h]Yg`Zc`f`a`cfY`ZUW]h]U`hY`X`Yb[`U[`Ya`YbhVYrk`YYb`dfc`YW]g`UbX`F`G7`a`Ya`VYfg"

H\Y`WUg`Y`gh`Xm]`i`ghfUh]g`\\ck`Ub`C`i`fYUW` : `i`bX`[`fUbh`\\c`XYf`XYj`Y`cdYX`hY]f`dfcZYgg]cbU`bYrk cf_`UbX`k cf_YX`Wc`UVcfUhj`Y`m`h`c`gi`WVggZ`mi`XY`j`Yf`hY]f`dfc`YW]`8Yj`Y`cd]b[`dfcZYgg]cbU`bYrk cf_gž`fY`Uh]cbg\]dg`UbX`k cf_]b[`Wc`UVcfUhj`Y`m`]g`U`gc`Wc`bg]XYfYX`h`Wc`bf]Vi`h`h`c`í`Vi`]X]b[`WdUW]mi`UbX`cddcfh`b]h]Yg]`fY`ZY`fYX`h`c`]b`gYW]cb` "%"

D

DUfh]M]dUh]b[`WYa]ghg`\\[`\\[`\\hYX`\\ck`hY`[`fUbh`Uk`UfX`\\Ug`\\Y`dYX`hY`a`h`c`XYj`Y`cd`hY]f`bYrk cf_`cZdfcZYgg]cbU`Wc`bbYW]cbg`Vch`]bg]XY`hY]f`cf[`Ub]gUh]cbg`UbX`k`]h`Yi`h`fbU`dUfthYfg`H\YfY`k`YfY`U`gc`gYj`YfU`fY`ZY`fYb`W]g`h`c`hY`]a`dUW]cZ`hY`Uk`UfX`Z`ca`hY`F`G7`\\Y`d]b[`h`c`gYW`fY`Z`f`h`Y`f`Z`bX]b[`UbX`h`c`fU]gY`hY`dfcZ]Y`cZ`hY`dfc`YW]`

"I believe that the support the RSC gave at the beginning of the project also helped us to secure other funding. Having such a prestigious organisation back you is always good!" f] fUbh`\\c`XYf`ZY`XVUW`Ě

:`cf[`fUbh`\\c`XYf`gž]`ha`UXY`]hY`Ug]Yf`Zc`f`hY`a`h`c`Yb[`U[`Y`k`]h`bYk`dUfthYfg`UbX`Z`bXYfg`Ug`hY`Uk`UfX`k`Ug`VUW`YX`Vm`hY`F`G7`



f@Ua ' >c\bqcbžU'gWcc`hYUWXYf'k cf_]b['k]h`]bXi gfrnž'gWcc`gh XYbhg'UbX'ZJa]'Ygk
 @]Ua @]YI dYf]YbW']g'XYgW]VYX'Z fhYf']b'hY'WUgY'gh XmUhH'Y'YbX'cZH']g'gYW]cb"
 <ck Yj Yfz [fUbh\c'XYfg' UfY' bch'U'k Umg' UV'Y' hc'gdYW]Zm'hY'k Umg']b'k \]W' h'Y' dUfbYfg\]d'
]a dUWYX'hY]f'dfcW'gg'cf'i bXYfghUbX'h'Y'X]ZYfYbW'VYh'Y'Yb'Ub'YZYW]j Y'UbX'Ub']bYZYW]j Y'
 dUfbYfg\]d'" H\cgY' k \c' \UX' dccf' YI dYf]YbW'g' U'k Umg' k Ybh'cb' hc' Z]bX' a cfY' gi ddcf]j Y'
 Wc`UVcfUhc'fgž Yj Yb']Z h'cgY' Wc`UVcfUhc'fg']bdi hg'k YfY']a]h'X'Wc'a dUfYX'hc'h'Y' Ugd]fU]cbg'cZ
 h'Y'dfc'YW'h'Y'F G7 @]ZYI]V'Y'UddfcUW' hc'dfc'YW]gi ddcf]žXY']j Yfrnž'h'a Y']bYg'UbX'UWY'gg'hc'
 U'gdYW]U']ghh'Ua '\Y'dYX'dfc'YW] hc'bUj] [UH' h'Y'gY' W'Ub [Yg'UbX']XYbh]Zm'U'f'U]h'j Y'cdh]cbg"
 H\Y'_bck'YX[Y'UbX'W]fY'\Y'X'Vmi'h'Y'F G7 'h'Ua ']g']bj U'i UV'Y'"
 Dfc'YW]g'U'gc'\] [\] [\h'X'h'U'ha cfY'Wc'i 'X'VY'XcbY'hc']a dfcj Y'cdh]cbg'Zcf'Wc`UVcfU]cbg'UbX'
 dUfbYfg\]dg'hc'VY'Zcfa YX" H\Y'a cghgf_]b['cddcf]i b]mk Ug'č]b]b['i d'k]h'F G7 'a Ya VYfg\]d'"
 ; fUbh\c'XYfg'\] [\] [\h'X'



"I didn't have any contact with anybody else in [the RSC Outreach Fund] scheme. So I don't know who else got funding, I don't know what they were doing. I didn't see. I mean, there may have been a website with all that information on but I never saw it. So it was very, very much like we were doing our own little thing in isolation. Whereas with the STFC [nucleus] grant scheme, you felt like you were part of a of a community of people who were all trying to do similar things, you know."

f#hYfj]Yk ' k]h ' i b] Yfg]mVUgYX' UWXYa]WXY'j Yf]b[' Ub' ci hYUW' dfc[fUa a Y' Zcf
gWcc`Ui X]YbWgŁ



5k UfX` a UXY` hc` @]Ua ` >c\bgcbž` U` df]a Ufm gVXcc`` hYUWXyf` YUX]b[` cb`
]bbcj Uh]cbg`]b`hYUWX]b[`dfUW]W`Zcf`hY]f`gVXcc``": i bX]b[`k Ug`Uk UfXYX`Zcf`hY`<i a VYf`GH9A`
9j YbžU`a i`h]gVXcc`Yj YbhVta df]g]b[`GH9A !hYa YX`ghUbxg`UbX`k cf_`





k Y`i bXYfghcX'a YWUb]ga g'Zcf'fYUW]b['h.Y]f'Ui X]YbW'g" =b'h.YgY'WUgYgZ'Z bX]b['dfcj]XYX'U'
fci h'Zcf'bYk 'WcbhYbhz'cf'U'bYk 'UddfcUWk 'hc'_bck b'dfcW'ggYg'UbX'WcbhYbhz'h.Uhk Ug'gh`'VUgYX'
cb'ghfcb['_bck 'YX['Y'UbX'i bXYfghUbX]b['k]h' h.Y'F G7 'VY]b['UV'Y'hc'VYbYZ]h'Z'ca 'h.Y'YI dYfh]gY'
cZ'h.Uhcf[Ub]gUh]cb"





" + 'C i hfYUWk : i bX`Y[UW]Yg`UbX`i bZcfYgYYb`]a dUWg

H\]g`gYW]cb`fYj]Yk`g`Yj]XYbW`Zcf`cb[c]b[`Y[UW]Yg`UbX`X]gW`ggYg`i bZcfYgYYb`]a dUWg`k` \]M` k`Yf`]XYbh]ZYX" H\]g`W]a`Y`Zca`Vch`h`Y`XcW`a`YbhUfmYj]XYbW`UbX`h`Y`]bhYf`]Yk`X]gW`gg]cbg" 5g`dUfhcZ`h`Y`k`f]hYb`ZYXVUW`Zca`[fUbh`c`XYfg`z`h`Y`m`UfY`Ug`_YX`Vm`h`Y`F`G7`h`c`V`cbg]XYf`h`Y` Z`ck`]b[.

- H\Y`]a`dUW]h`U`h`h`Y`dfc`Y`W]h`Ug`U`X`cb`m`e`i`f`dYfgcbU`XYj`Y`cda`Ybh`
- DUf]bYfg\]dg`h`U`h`Uj`Y`XYj`Y`cdYX`Ug`U`fYgi`h`c`Z`h`Y`dfc`Y`W]h`UbX`U`ck`h`Y`mia`Um`V`cb]bi`Y"
- F`Y`gci`f`W]g`h`U`h`k`Y`fY`W]Y`U`h`X`UbX`U`ck`h`Y`gY`k`]`VY`g`U`fYX"

<ck`Yj`Yfz`]b`U`XX]h]cb`h`c`h`Y`gY`h`f`Y`V`c`f`Y`UgdY`W]g`]XYbh]ZYX`Vm`h`Y`F`G7`h`Y`fY`UfY`c`h`Y`f`UfY`Ug` k` \]M` \`Uj`Y`Uf]gYb`Ug`h`Y`X`U`h`U`Ug`V`Y`Yb`Ub`U`mgYX" A`U`bm`c`Z`h`Y`gY`U`Uj`Y`c`V`W`f`Y`X`U`h`U`b` c`f[`U`b]g`U`h]cbU`Y`Y`U`b`X`Y`U`W`]g`b`c`k`X]gW`ggYX`]b`h`fb"

Section header bar

H\Y`Z`f`h`Y`gh`f`Y`U`W`k`]b[`]a`dUW]h]g`h`U`h`c`Z`f`Y`U`h]cbg\]d`XYj`Y`cda`Ybh`H\]g`Ug`c`V`W`f`Y`X`V`Y`h`Y`Yb`]bX]j`Xi`U`g`c`b`U`c`W`Y`Y`Vi`h`U`gc`V`Y`h`Y`Yb`c`f[`U`b]g`U`h]cbg`b`U`h]cbU`m`U`b`X`]b`h`f`b`U`h]cbU`n`H\]g` UgdY`W]h`Ug`V`Y`Yb`W]i`W]U`]b`a`U`b`m`d`f`c`Y`W]g`k`Y`fY`h`Y`m`U`Uj`Y`V`Y`Yb`k`c`f_]b[`k`h`b`Y`k`c`f`i`b`X`Y`f` fYdfYgYbhYX`U`i`X]YbW`g"; fUbh`c`XYfg`Z`c`i`b`X`h`U`h`h`Y`f`U]gYX`d`f`c`Z`Y`Y`b`U`V`Y`X`h`Y`a`h`c`Y`g`h`U`V`]g`V`f`U`b`X`b`Y`k`f`Y`U`h]cbg\]dg`]b`c`f`X`Y`f`h`c`X`Y`j`Y`f`h`Y`d`f`c`Y`W]h`UbX`h`Y`f`Y`k`Y`f`Y`a`U`b`m`g`h`U`h`X`]b`h`b`h]cbg` h`c`[`c`c`b`U`b`X`W`c`b]bi`Y`h`Y`f`Y`U`h]cbg\]d" H\]g`k`Ug`gi`d`d`c`f`Y`X`Vm`h`Y`]b`h`Y`f`]Yk`g`z`k`Y`f`Y`]h`k`Ug` Y`g`h`U`V`]g`Y`X`h`U`h`a`U`b`m`k`Y`f`Y`]b`Z`U`W]h`g`h`XYj`Y`cd]b[`h`Y`c`d`d`c`f`h`b]h]Y`g`f`U]gYX`Vm`h`Y`]b]h]U` W`c`b`h`U`W]g`5i`h]b`d`U`W`Z`c`f`h`Y`((f`U`b`12) 7 = 7%

C`h`Y`f`c`f[`U`b]g`U`h]cbU`]a`dUW]g`]b`W]i`XY.

- :`c`f`a`U`b`m`i`c`f[`U`b]g`U`h]cbg`U`c`X]b[`U`b`C`i`h`f`Y`U`W`k`:``i`b`X`[`f`U`b`h`h`]g`k`U`g`U`b`c`d`d`c`f`h`b]m`h`c`d]`c`h`c`f`g`Y`Y`X`U`b`Y`k`]X`Y`U`c`f`U`W]j`]m`h`H\]g`c`d`d`c`f`h`b]m`U`g`h`Y`b`g`Y`Y`b`U`g`Z]b`g`h`f`U`h`Y`[`m`i`c`f`U`d`d`f`c`U`W`k":`c`f`Y`I`U`a`d`Y`Z`Z`c`f`c`b`Y`c`f[`U`b]g`U`h]cb`h`Y`m`g`U]Z`Y`X`h`c`c`W]z`W`c`a`a`i`b]m`i`Z`c`W`g`g`Y`X`k`c`f`_`U`g`h`Y`f`Y`I`d`Y`f]Y`b`W`k`]h`h`Y`d`f`c`Y`W]h`**demonstrate[d] the power of this approach**`f`C`i`h`f`Y`U`W`k`:``i`b`X`[`f`U`b`h`c`X`Y`f`Z`Y`X`V`U`W`U"
- :`c`f`c`h`Y`f`g`h`Y`[`f`U`b`h`U`c`k`Y`X`h`Y`a`h`c`g`W]Y`i`d`h`Y`f`U`W]j`]h]Y`g`"H\]g`d`i`h`g`h`Y`F`G7`]b`U`g`h`f`c`b[`d`c`g]h]cb`]b`h`Y`f`a`g`c`Z`]b`Z`i`Y`b`W]b[`c`i`h`f`Y`U`W`k`UbX`d`i`V`]W`Y`b[`U[`Y`a`Y`b`h`U`W]j`]h]Y`g`U`W`f`c`g`h`Y`g`Y`W`c`f"
- H\Y`c`h`Y`f`k`U`mg`]b`k` \]M`h`]g`]b`Z`i`Y`b`W`Y`a`Y`f[`Y`g`U`g`V`Y`Y`b`h`f`c`i`[`h`h`Y`[`f`U`b`h`c`X`Y`f`g`c`f`d`f`c`Y`W]h`g`h`U`Z`a`c`b]f]V`i`h`c`f`g`[`c]b[`c`b`h`c`g`Y`W`f`Y`Z`b`X]b[`Z`c`f`Z`f`h`Y`f`c`i`h`f`Y`U`W`k`UbX`d`i`V`]W`Y`b[`U[`Y`a`Y`b`h`U`W]j`]h]Y`g`"H\Y`d`f`c`Z`Y`g]cbU`XYj`Y`cda`Ybh`UbX`d`c`g]h]Y`Y`I`d`Y`f]Y`b`W`c`Z`h`Y`



teachers and parents is vital to ensure the future of chemistry is as diverse as possible. In addition, this programme ensured role models/mentors are present in school environments on a regular basis to inspire and raise aspirations of those who are typically underrepresented in STEM subjects.”

fj fUbh\c`XYf`ZYXVUWł

†U`gc`U`ck YX`c\Yf`dfc`YWg`tc`Wc`UVcfUHY`k`Jh`hYUW\Yfg`tc`Ybgi`fY`h`Y`Wc`bhY`bhk`Ug`_

A U

ቁጠራ ገንዘብ ለጥያቄዎችዎ ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ። ለዚህ ምክትታዎች ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ።

“And then we'll have [years] 3, 4, 5, and 6, those years doing a stem club or stem event and then this is where the sponsorship money from partnerships will come back in and feed back into the model and it will grow and hopefully become sustainable but like I said, it wouldn't have happened at all without the support and the backing of the RSC.”

የዘመናዊ የሥራ ስራ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ። ለዚህ ምክትታዎች ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ።

C

ዘመናዊ የሥራ ስራ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ። ለዚህ ምክትታዎች ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ።

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- G" ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ። ለዚህ ምክትታዎች ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ።
- H" ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ። ለዚህ ምክትታዎች ላይ የሚሰጡት ደጋግ ምክትታዎች ለሚጠበቅ ለውጥ ለመስጠት ይረዳሉ። ለምሳሌ ለተጨማሪ የሥራ ስራ ለመስጠት ይረዳሉ።



" , ' C VgYfj Uh]cbg

Ք՝հ՝g՝Wcg]b['gi V!gYWf]cb՝cZհ՝Y՝UbU՝mg]g՝UbX՝X]gW՝gg]cb՝k՝Y՝\Uj՝Y՝XfUk՝b՝ԻԵ[Yհ՝Yf՝U՝bi՝a՝VYf՝
cZ՝cVgYfj՝Uh]cbg՝՝UbX՝՝cd]b]cbg՝՝]b՝fY՝Uh]cb՝ԻԵ՝հ՝Y՝՝Z]bX]b[՝g՝k՝\]W՝՝UFY՝՝VUgYX՝՝cb՝՝ci՝f՝՝ck՝b՝
dfcZ՝gg]cbU՝՝YI՝dYf]gY՝՝UbX՝՝dfUW]W՝՝5g՝bchYX՝՝]b՝gYW]cb՝%("՝հ՝YfY՝՝]g՝՝)a՝՝]hYX՝՝di՝՝V՝]g՝\YX՝՝Yj՝՝]XYbW՝
fY]՝հ՝Yf՝dYfYf՝fYj՝՝]Yk՝՝YX՝՝cf՝[՝fYm՝՝]hYfUh՝՝fYԷ՝UVci՝՝hհ՝Y՝՝]a՝՝dUW]cZdi՝՝V՝]WYb[՝U[՝Ya՝՝YbhUbX՝՝ci՝՝fYUW՝
[՝fUbh՝gW՝Ya՝՝Yg՝՝UbX՝՝\ck՝՝հ՝Ym՝՝UFY՝՝fi՝՝b՝՝H՝]g՝՝a՝՝U՝Yg՝՝]h՝X]Z]W՝՝h՝ԻԵ՝՝i՝gY՝՝Ub՝՝Yj՝՝]XYbW՝!VUgYX՝
UggY՝gga՝՝YbhUg՝՝ԻԵ՝\ck՝՝հ՝Y՝՝ci՝՝h՝՛a՝՝Yg՝՝cZհ՝Y՝՝Z՝՝bX՝՝g]hU[՝U]bghհ՝Y՝k՝՝]XYf՝gYW]c՝f՝՝<ck՝՝Yj՝՝Yf՝՝VUgYX՝
cb՝՝ci՝f՝_bck՝՝YX[՝՝Y՝՝UbX՝՝YI՝dYf]YbW՝՝cZհ՝Y՝՝hmdYg՝՝cZUW]j՝՝]hYg՝՝VY]b[՝՝i՝bXYfU_Yb՝՝VmGH9A՝՝di՝՝V՝]W
Yb[՝U[՝Ya՝՝Ybh՝՝UbX՝՝ci՝՝fYUW՝՝cf[՝՝Ub]gUh]cbg՝՝հ՝Y՝՝Ci՝՝fYUW՝՝:՝i՝bX՝՝]g՝՝gi՝՝ddcf]b[՝՝\][՝՝\՝՝ei՝՝U՝]mi
W՝Ya՝՝]g]fmYb[՝U[՝Ya՝՝Ybh]՝՝՝հ]g՝՝WYUf՝՝ԻԵ՝՝i՝g՝՝hUհ՝Y՝՝W՝c]W]g՝՝VY]b[՝՝a՝՝UXY՝՝]b՝՝hYfa՝՝g՝՝cZk՝՝\c՝՝ԻԵ՝՝Z՝՝bX՝
UhUb՝]bX]j՝՝]Xi՝՝U՝՝Yj՝՝Y՝՝UFY՝՝UXX]b[՝՝i՝՝d՝՝ԻԵ՝՝\Uj՝՝]b[՝՝U՝՝VfcUXYf՝՝]bZi՝՝YbW՝՝cb՝՝հ՝Y՝՝g՝՝UdY՝՝UbX՝՝gW՝dY՝՝cZ
հ՝Y՝՝k՝՝]XYf՝՝GH9A՝՝Yb[՝U[՝Ya՝՝YbhgYW]c՝f՝՝H՝]g՝՝]bZi՝՝YbW՝՝W՝՛a՝՝Yg՝՝h՝fci՝՝[՝՝\]b՝՝հ՝Y՝՝Zcfa՝՝cZ]a՝՝dfcj՝՝YX՝
dfUW]W՝՝UbX՝՝gi՝՝ddcf]g՝՝fY՝՝Uh]cbg\]d՝՝XYj՝՝Y՝՝cda՝՝YbhUbX՝՝bYh՝k՝cf_]b[՝՝

Ք՝hYfa՝g՝cZհ՝Y՝Z՝bX]b[՝՝Uj՝՝U]UV՝Y՝Z՝հ՝Y՝՝Ci՝՝fYUW՝՝:՝i՝bX՝՝]a՝՝]hcZ՝c%\$Z\$\$\$]g՝՝cbY՝՝cZհ՝Y՝՝Uf[՝՝YghcZ
W՝՛a՝՝dUfU]c՝f՝՝Z՝՝bXg՝՝UbX՝՝հ՝Y՝՝Uj՝՝U]UV]՝]hmcZհ՝g՝՝Ua՝՝ci՝՝bh՝ԻԵ՝՝U՝՝VfcUX՝՝fUb[՝՝Y՝՝cZcf[՝՝Ub]gUh]cbg՝՝]g՝՝U՝
g]fYb[՝՝h՝՝H՝\Y՝՝F՝cmU՝՝5WJXYa՝՝mcZ9b[՝՝]bYf]b[՝՝]g՝՝fF՝59b[՝՝Է՝՝Z՝՝bX՝՝cZYfg՝՝Uf[՝՝Yf[՝՝fUbh]՝՝Vi՝՝hXcYg՝՝bch
YI՝d՝]W]hmi՝՝Z՝՝bX՝՝W՝՛a՝՝a՝՝i՝b]hmi՝՝VUgYX՝՝cf[՝՝Ub]gUh]cbg՝՝cf՝՝WYU]h]՝՝Y՝՝cf[՝՝Ub]gUh]cbg՝՝i՝b]՝՝Y՝՝հ՝Y՝՝F՝G7՝՝
K՝\Yb՝՝W՝bg]XYf]b[՝՝հ՝Y՝՝U]a՝՝g՝՝cZհ՝Y՝՝Z՝՝bX՝՝հ՝Y՝՝W՝cgYgh՝՝W՝՛a՝՝dUfU]c՝f՝՝k՝՝ci՝՝X՝՝VY՝՝հ՝Y՝՝՝bg]h՝՝h՝՝cZ
D\mg]VY՝՝՝W՝՛a՝՝dUh՝՝h՝՝VY՝՝՝՝W՝՛a՝՝h՝՝Է՝՝g՝՝j՝՝՝՝hA՝՝՝i՝՝a՝՝1A՝՝VO՝՝



k cf_`cb`i bXYfgHUbX]b[`h\Y` UXX]hcbU`Z bX]b[`UbX` fYgci fWg`h\Y`Ci hfYUW` : i bX`]g` UV`Y` h`
`Yj YfU[Y`k ci `X`gi ddcfhU`X]gW gg]cb`cZh\Y`Z bX]j]a dUW`hUbX`YZ`VW]j YbYgg"



+\$



- f k E' X Y b h j z n i k U m g '] b ' k \] W X ' [f U b h i \ c ' X Y f g ' W U b ' g \ U F Y ' h Y] f ' Y I d Y f] Y b W W g ' c Z] b W e f d c f U h] b [' W X Y a] g h f m] b h c ' h Y] f ' d f c ' Y W g z ' h] g ' W e i ' X ' V Y ' U W X] Y] Y X ' h f c i [\ ' d Y Y f ! h c ! d Y Y f ' b Y h k c f _] b [' g Y g g] c b g "
- f # : 7 c ' U V c f U h ' U b X ' W e a a i b] W U h ' k] h ' W e ' Y U [i Y g '] b ' c h Y f ' U F Y U g ' c Z k c f _] b [' k] h] b ' h Y ' F G 7 z ' Y " [' ' W e a a i b] W U h] c b g ' U b X ' Y X i W U h] c b z ' h c ' g \ U F Y ' d f c ' Y W h i c i h W e a Y g ' U b X '] a d U W g ' k \] W X ' U F Y ' F Y ' Y j U b h "

9 b [U] Y ' k] h ' d i V ' W U i X Y b W W g ' E '] b j c '] b [' U ' k] X Y ' f U b [Y ' c Z d Y c d ' Y '] b ' f Y ' Y j U b h W e b h Y a d c f U f m] g g i Y g '] b ' h Y ' W X Y a] W U ' g W Y b W W g ' f g Y W h c b ' ' (' E ')

- f h e ' <] [\] [\ h z '] b Z c f a Y X ' V m i h Y ' U j U] U V ' Y ' Y j] X Y b W W z ' h Y ' [f c i d g ' h U h U F Y ' i b X Y f ! f Y d f Y g Y b h Y X ' k] h] b ' h Y ' W X Y a] g h f m] W e a a i b] m i ' F Y h U] b ' g i Z W Y b h i Z Y I] V]] m i Z c f ' c f [U b] g U h] c b g ' Y I d Y f h] b ' k c f _] b [' k] h ' i b X Y f ! f Y d f Y g Y b h Y X ' U i X] Y b W W g ' h c ' U d d ' m i h Y] f ' _ b c k ' Y X [Y ' U b X ' Y I d Y f] Y b W W '] b ' h Y ' g \ U d Y z ' X Y g] [b ' U b X ' X Y ' j Y f m c Z h Y] f ' d f c ' Y W g "
- f P ' E ' h W i X Y ' U ' a c f Y ' X Y h U] Y X ' e i Y g h] c b ' U V c i h h Y ' U i X] Y b W W g ' k c f _ Y X ' k] h ' U b X ' \ c k ' h Y m i k c i ' X ' V Y ' f Y U W X Y X '] b ' V c h ' h Y ' U d d '] W U h] c b ' U b X ' Z] b U ' f Y d c f h] b [' Z c f a g "
- f @ : 7 c b h] b i Y ' h c ' Z b X ' U ' f U b [Y ' c Z d f c ' Y W g ' k \ c ' X c ' b c h Y I d '] m i f Y U W X ' i b X Y f ! f Y d f Y g Y b h Y X ' U i X] Y b W W ' [f c i d g ' Y b g i f] b [' U ' f U b [Y ' c Z W ' h i f U ' U b X ' [Y c [f U d \] W U ' g d U W W g ' U F Y ' g Y f j Y X ' h c ' Y b g i f Y ' h Y f Y '] g ' b c h h Y ' Y a Y f [Y b W W ' c Z U W X Y a] g h f m [U d "

K Y ' U ' g c ' f Y W e a a Y b X ' h U h h Y ' F G 7 ' g h f Y b [h Y b ' Z b X ' X U H U ' W e ' Y W W] c b '] a d f c j] b [' W e b g] g h Y b W h i U W f c g g h Y ' U d d '] W U h] c b ' U b X Y j U i U h] c b ' d f c W W g g ' U b X h Y] b h [f U h] c b ' c Z W c g Y X ' e i Y g h] c b g ' h c ' W e ' Y W h i _ Y m] b X] W U h c f g ' f G Y Y ' 5 d d Y b X] ' 5 E "

K Y ' b c k ' [c ' c b ' h c ' g i a ' i d ' h Y ' Y I d Y f] Y b W W g ' c Z h Y ' [f U b h i \ c ' X Y f g "



- "fl 7cbg]XYf'a cfY'cdYb!YbXYX'k Umg'cZ [UH\Yf]b[]]bZcfa Uh]cb'cb''Y [UWniZcf'YI Ua d'Y' Zc`ck 'i d']bHfj]Yk g'cf'k cf_g\cdg''9"["'fUH\Yf' hU' b'dfcj]X]b['ghfi Wni fYX' dfca dhg'cb' 'Y [UWniZ'YUj Y'h.]g'a cfY'cdYb'hc']bHfYdfYHUh]cb'Zcf' [fUbh\c'XYfg"

Cj YfU`k Y'\Uj Y'VYb'j Yfmd'YUgYX'hc'gY'gi Wk 'U'fUb[Y'cZdfc'YWgžfYUWk]b['gc'a UbmX]ZYfYbhi
Ui X]YbWg'k]h'gc'a UbmX]ZYfYbhi WkYa]ghfm'hd]Wg''H\Y'WcbbYW]cb'hc'h\Y'\i a Ub]m'cZ h\Y'
dYcd'Y']bj c'j YXž'VY'h.Uh'h\Y'WkYa]ghgž'h\Y' [fUbh\c'XYfgž'cf'h\Y'dUfh]W]dUbhg'UbX'Ui X]YbWgž']g'
hc'VY'Wc'a a YbXYXž'UbX'\Ug'cb'mVYYb'dcgg]V'Y'h'fci [\h\Y'YZc'fng'cZ'h\Y'gWkYa Y'a UbU[Yfg"



• E



Ug' hYb' i gYX' Zc' f' hY' Yj U' i Uh' cb' Z' Ua Yk cf_ ' UbX' hY' Zc' ck]b[' ZY' Xg#i Ygh' cbg' k Yfy' i gYX' h' a U_ Y' Ub' UggYgga YbhcZ' hY' YI h' b' h' k \]W' h' Y' C' i fYUW' : i bX' a Yh']hg' U]a gž]XYbh]Z]b[' gh' Yb[h' g' UbX' k YU_ bYggYg' UbX' i bXYfghUbX]b[' hY' YI dYf]YbW' g' cZ [fUbh\c' XYfg"

Applications data:

- Dfc' YW' hgi a a Ufm' t
 - Dfc' YW' h' XYgW']dh' cb" t
 - K \ Uh' UfYUf' g' c' f' h' Ya Yg' fY' UfYX' h' W' Ya]gh' mik]' ' mci f' d' fc' YW' h] bW' h XY3
 - M' ci ' W' b' i gY' h']g' gdUW' h' c' d' fcj]XY' Z' f' h' Yf']b' Z' fa Uh' cb' h' Uhk]' ' gi d' d' c' f' h' m' ci f' U' dd']W' h' cb' f' c' b' m']b' '&\$&\$' Z' c' fa z' b' ch]b' '&\$&%' Z' c' fa g' c' b' k UfXg' t
- D' Y' UgY' h' ' i g']b' ' b' c' a c' fY' h' U' b' ' '\$\$' k c' f' Xg' k \ m' m' ci ' h']b' ' m' ci f' d' fc' YW' h']g']a d' c' f' U' b' h' z']b' W' h' X]b[' U' b' m' Yj]XYbW' h' U' V' c' i h' X' Y' a U' b' X' Z' c' f' h' Y' d' fc' YW' h] b' m' ci f' U' fYU' U' b' X' h' Y' fY' Yj U' b' W' c' Z h' Y' d' fc' YW' h' c' m' ci f' h' U' f[Y' h' U' i X]YbW' " H' Y' d' U' b' Y' k]' ' U' g' c' ' c' _ Z]j c' f' U' V' m' U' h' Yj]XYbW' h' U' h' i m' ci ' \ Uj Y' W' c' b' g]XYfYX' h' Y' Y[U' W' h' c' Z' m' ci f' d' fc' YW' h' U' b' X' []j Y' b' X' i Y' W' c' b' g]XYfU' h' c' b' h' c' U' b' m' i Z' h' i fY' X' Yj Y' c' d' a Y' b' h' U' b' X' ' gi g' h' U] b' U' V]]m' i c' Z' h' Y' d' fc' YW' h' V' Y' m' c' b' X' h' Y' [f' U' b' h' d' Y' f] c' X" ' #f' g' d' U' f' h' W' U' f' m']a d' c' f' U' b' h' h' U' h' d' fYj]c' i g' m' gi W' W' Y' g' g' Z' ' [f' U' b' h' U' dd']W' b' h' g' i gY' h']g' gdUW' h' c' XYfUj' h' Y' X' Yj Y' c' d' a Y' b' h' c' Z' h' Y' f' U' W' h' j]m']b' fY' U' h' c' b' h' c' h' Y' d' fYj]c' i g' m' Z' b' X' Y' X' d' fc' YW' h'

Summary data from RSC:

- D' U' b' Y' ' Z' Y' X' V' U' W' "

Evaluation data:

- D' Y' UgY' X' Y' gW' h' Y' h' c' k \ Uh' Y' I h' b' h' m' ci f' d' fc' YW' h' a Y' h' k]h' h' Y' c' f] []b' U' ' U]a g' U' b' X' c' V' Y' W' h' j Y' g' f' a U' i " '\$\$ \$ \$ k c' f' Xg' t"
 - fY' Z' f' h' c' h' c' gY' b' c' h' X']b' h' Y' d' fc' YW' h' gi a a U' f' m' U' b' X' X' Y' gW' h']d' h' c' b' c' Z' m' ci f' U' dd']W' h' cb' f' k' Y' U' fY' U' V' Y' h' c' d' fcj]XY' h']g']Z' m' ci ' X' c' ' b' c' h' \ Uj Y' U' W' c' d' m' i d' Y' UgY' Y' a U]'



- o dUfthYfg\]dg`hUh\Uj Y`XYj Y`cdYX`Ug`U`fygi `hcZhY`dfc`YVhUbx`\ck `hYmia Umi



- D`YUgY`bchY`lck`mci`Wc`YWYX`hY`]bZcfa`Uhc]cb`lck`a`UbmIdYcd`Y`hY`dfc`YVh`k`Ug`XY`]j`YfYX`hc`Ug`k`Y`Ug`UbmZ`fH`Yf`]bZcfa`Uhc]cb`]b`hY`Yj`U`i`Uhc]cb`cZmci`f`Ui`X]YbWg`"H`]g`a`Um]bW`XY`]bZcfa`Uhc]cb`fY`Uhc]b`[`hc`[`YbXYf`#U`[`Y`WUHY`[`cf]Yg`#dcghWcXY`XUHU
- D`YUgY`]ghhY`cf`[`Ub]gUhc]cbg#dUfHbYfg#gWcc`g`mci`Yb`[`U`[`YX`k`]h`Zcf`h`]g`dfc`YVh`f]ZUddfcdf]UHY`hc`mci`f`dfc`YVh`id`YUgY`]XYbh]Zm`lck`h`YgY`cf`[`Ub]gUhc]cbg#dUfHbYfg#gWcc`g`Z]hYX`k`]h`h`Y`U]a`g`cZmci`f`dfc`YVh`Y`["`cWUhc]cbz`XYa`c`[`fUd`]Vgk
- 8]X`mci`]bj`c`j`Y`WYa`]gHg`]b`h`Y`XYj`Y`cda`Ybh`UbX`XY`]j`YfmicZmci`f`dfc`YVh`B
 - =mYg`d`YUgY`dfc]`XY`XYHU]`g`cZ`h`Y`WYa`]gHg`]bj`c`j`YX`f`UbX`F`G7`a`Ya`VYfg`]Z`fY`Yj`Ubh

: i fH`Yf`ei`Ygh]cbg`cb`h`Y`XYHU]`g`cZ`h`Y`dfc`YVh`Y`[`UWz`7`C`J`-8`UbX`]a`dUW`h`Z`ck`h`YgY`"

Gi`[`[`YghYX`fYd`UW`a`Ybhei`Ygh]cbg`UbX`WUHY`[`cf]Yg.

Please note that there should be consistency between the applications questions/data categories and those asked at the post-project/evaluation stage.

- hYfUW]cb`a`cXY
 - h!dYfgcb
 - Cb`]bY
 - A`]i`h`fY`cZ`]b!dYfgcb`UbWUHYR`c`<`P`T`5`Y\`dcgh



- ZmĚŇK \c3
- Bc
- K j`h]g`fY`U]cbg\]d`Včbh]bi Y`VYmcBx`h]g`dfc`YVW3
- MĚg
- Bc
- D`YUgY`YI d`U]b`mci f`fYgdcBgY"



D`YUgY`bchY`hUhhY`]bHfj`]Yk`g`k`YfY`gYa`]`]ghfi`W`fYX`h`YfY`Zc`fY`h`Y`ei`Ygh]cbg`k`YfY`bchfYUX`Ug`
]ZU`gW]dH`bghYUXZ`h`Y`W`b`j`YfgU]cb`k`Ug`U`c`k`YX`h`c`Zck`UbX`ei`Ygh]cbg`k`ci`X`VY`Ug`_YX`ci`hcZ`
 cfXYf`cf`]b`gca`Y`WUgYg`UHf`ei`Ygh]cbg`W`ei`X`VY`g`_ddYX`c`j`Yf`Ug`h`Ymia`Um`Uj`Y`U`fYUXm`VYyb`
 Ubgk`YfYX`]b`Ub`Yi`dUbXYX`Ubgk`Yf`h`c`Ub`YUf`Yf`ei`Ygh]cb`"

- %` bHfciXi`W]cb.`]bHfciXi`W]cb`h`c`]bHfj`]Yk`Yf`h`Y`Y`j`U`i`U]cb`dfc`Y`W`Z`UbX`h`Y`dfc`W`ggYg`
 k`YD`VY`[`c]b[`h`fci`[`\"`F`Y`j`]Yk`W`b`g`Y`b`H`
- &` Hc`[`Yhi`g`ghUfH`X`Z`h`Y`a`Y`U`]`h`Y`UVci`h`m`ei`f`d`f`c`Y`W`h`
 - o` K` \U`h`k`U`g`m`ei`f`f`c`Y`]b`h`Y`d`f`c`Y`W`h`3`
 - o` K` \U`h`c`f`[`U`b]g`U]cbg`k`YfY`]b`j`c`j`YX3`<`c`k`X`X`h`h`g`d`f`c`Y`W`h`Z`h`k`]h`h`Y`]f`k`c`f`_3`
- '` \"` K` \U`h`a`U`X`Y`m`ei`U`d`d`m`Z`c`f`F`G`7`Z`b`X]b[`Z`c`f`h`h`g`k`c`f`_3`
 - o` 8`X`h`Y`U`a`c`i`b`h`g`a`U`_`Y`U`b`m`X]Z`Y`f`Y`b`W`3`
 - o` <`U`j`Y`m`ei`U`d`d`]Y`X`V`Y`Z`c`f`Y`3`
 - o` K`c`i`X`m`ei`U`d`d`m`U[`U]b`3`
- (` \"` <`c`k`k`U`g`m`ei`f`Y`i`d`Y`f]Y`b`W`c`Z`U`d`d`m]b[`Z`c`f`h`Y`Z`b`X]b[`3`
 - o` K`U`g`h`Y`U`a`c`i`b`h`c`Z`k`c`f`_`f`Y`e`i`]f`Y`X`d`f`c`d`c`f`h]c`b`U`H`h`c`h`Y`Z`b`X]b[`m`ei`[`c`h`B`
 - o` K`Y`f`Y`m`ei`g`i`f`Y`U`V`c`i`h`h`c`k`h`c`f`Y`d`c`f`h`U`b`X`k`U`h`a`][`h`V`Y`i`g`Y`Z`3`
-)` \"` C`b`Y`c`Z`h`Y`U`g`d`Y`W`g`c`Z`h`Y`F`G`7`Z`b`X]b[`]g`h`Y`]b`j`c`j`Y`a`Y`b`h`c`Z`U`7`Y`a`]g`h`7`U`b`m`ei`h`Y`
 a`Y`U`]`h`Y`UVci`h`m`ei`f`7`Y`a`]g`h`c`f`h`Y`W`X`Y`a`]g`h`f`m`W`b`h`Y`b`h`c`Z`m`ei`f`d`f`c`Y`W`h`3`
 - o` K` \U`h`]b`_`g`U`f`Y`U`X`m`Y`i`]g`h`Y`X`3`
 - o` K` \U`h`b`Y`k`k`c`f`_`k`U`g`b`Y`Y`X`Y`X`h`c`Y`g`h`U`V`]g`W`b`b`Y`W`h]c`b`3`
 - o` 8`c`m`ei`h`h`]b`_`m`ei`f`d`f`c`Y`W`h]a`d`U`W`Y`X`c`b`h`Y`7`Y`a`]g`h`U`h`U`3`K` \U`h`a`U`_`Y`g`m`ei`
 h`h`]b`_`h`h`U`h`3`
- *` \"` H`Y`U`j`a`g`c`Z`h`Y`c`i`h`Y`U`W`Z`b`X`]b`W`i`X`Y`h`c`f`Y`b[`U[`Y`k`]h`g`W`c`c`g`h`i`X`Y`b`h`g`!`]b`g`d]f]b[`U`b`X`
 f`U]g]b[`U`g`d]f`U]h]c`b`g`c`Z`g`h`X`Y`b`h`U`i`X]Y`b`W`g`h`c`b`i`f`h`f`Y`U`Z`h`i`f`Y`[`Y`b`Y`f`U]h]c`b`d`U`g`g]c`b`U`H`
 U`V`c`i`h`h`Y`W`X`Y`a`]W`g`W`Y`b`W`g`f`c`f`h`c`f`Y`b[`U[`Y`k`]h`d`i`V`]W`U`i`X]Y`b`W`g`!`]b`j`c`j`]b[`U`k`X`Y`
 f`U`b[`Y`c`Z`d`Y`c`d`Y`]b`f`Y`Y`j`U`b`h`W`b`h`Y`a`d`c`f`U`f`m]g`g`i`Y`g`]b`h`Y`W`X`Y`a`]W`g`W`Y`b`W`g`f`K` \]W`c`Z`
 h`Y`g`Y`k`Y`f`Y`m`ei`U`j`a`]b[`h`c`U`X`X`f`Y`g`g`3`
- +` \"` K` \U`h`W`X`Y`a`]g`h`f`m`h`c`d]W`g`X`X`h`h`g`]b`W`i`X`Y`3`
- ,` \"` M`ei`a`Y`b`h]c`b`Y`X`m`ei`k`c`f`_`Y`X`k`]h`Q`b`g`Y`f`h`B`5`A`9`C`:`5`I`8`-`9`B`7`9`Q`<`c`k`X`X`m`ei`W`X`c`c`g`Y`
 h`h`g`[`f`c`i`d`h`c`k`c`f`_`k`]h`3`
 - o` K` \U`h`]b`_`g`U`f`Y`U`X`m`Y`i`]g`h`Y`X`3`
 - o` K` \U`h`b`Y`k`k`c`f`_`k`U`g`b`Y`Y`X`Y`X`h`c`Y`g`h`U`V`]g`W`b`b`Y`W`h]c`b`3`
 - o` 8`c`m`ei`W`b`g]X`Y`f`h`h`g`h`c`V`Y`U`b`i`b`X`Y`f`!`f`Y`d`f`Y`g`Y`b`h`Y`X`U`i`X]Y`b`W`3`h`Y`a`Y`U`V`c`i`h`
 k` \m`h`h`U`h]g`"
 - o` K` \U`h`g`c`f`h`c`Z]a`d`U`W`h`X`c`m`ei`h`h`]b`_`m`ei`f`d`f`c`Y`W`h`U`X`Z`c`f`h`h`U`h`U`i`X]Y`b`W`]b`h`Y`
 Y`b`X`3`
 - o` K`U`g`h`h`U`h`k` \U`h`m`ei`k`Y`f`Y`U`j`a`]b[`Z`c`f`3`
 - o` <`c`k`X`c`m`ei`_`b`c`k`h`h`U`h`m`ei` \U`X`h`h`U`h]a`d`U`W`h`3`
- ` \"` <`c`k`W`b`Z]X`Y`b`h`k`Y`f`Y`m`ei`]b`Y`j`U`i`U`h]b[`m`ei`f`d`f`c`Y`W`h`8`X`U`b`h`h]b[`[`Y`h]b`h`Y`k`U`m`B`
 %`\$`:`]b`U`n`z`h`c`k`]a`d`c`f`U`b`h`h`c`m`ei`k`U`g`]h`h`U`h`m`ei`f`Z`b`X]b[`W`j`a`Y`Z`c`a`h`Y`F`G`7`3`
 - o` 8`X`]h`a`U`_`Y`U`X]Z`Y`f`Y`b`W`h`c`m`ei`f`d`f`c`Y`W`h`3`
 - o` <`c`k`k`U`g`h`Y`f`Y`U`h]c`b`g`h`d]3`K`c`i`X`m`ei` \U`j`Y`_]Y`X`U`b`h`h]b[`X]Z`Y`f`Y`b`h`3`
 - o` <`U`j`Y`h`Y`f`Y`V`Y`Y`b`U`b`m`c`b[`Y`f`U`g`h]b[`Y`Z`Y`W`g`c`Z`h`c`X]b[`h`h`]g`Z`b`X]b[`3`
 - o`



5ddYbX]l '6.'8UHJ'gi a a Uf]Yg

Table 10. Geographical spread of projects

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Bcfh\Yfb' fY`UbX) 'fl t) \$&' fP% t	!



Table 12. Did projects work with an under-represented under



Table 16. Organisation type based on whether project worked with under-represented group or not

University	19	33.3%	42	40.0%	6.7%
Education charity/social enterprise	12	21.1%	18	17.1%	-3.9%
Science centre/STEM engagement provider	9	15.8%	19	18.1%	2.3%
Cultural organisation	8	14.0%	10	9.5%	-4.5%
School	6	10.5%	12	11.4%	0.9%



	<p>8Yj Y`cda YbhcZU`bYk `cf`YI dUbg]cb`cZUb` YghUV`]g\YX`Yb[U[Ya YbhYj Ybhz`gi V\ Ug`U`gWYbW` cf`W`a a i b]mZyghj U`" Gi ghU]bYX`W`a a i b]m`YX`UW]j]hYg`cf`Yb[U[Ya YbhVUgYX` cb`mci f`fYgYUfV\`]bYfYg]h`hUhk]`W`b]bi Y`hc`Yb[U[Y`h`Y` XYg]fYX`W`a a i b]hYg`cf`[fci dg"</p>
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6 fihg\`5WUXYa m

- < i a Ub]hYg`UbX`gcW]U`
gWYbW`g"
- I d`hc`œ ž\$\$\$"
- C b`mcdYb`hc`l`?!VUgYX`
fYgYUfV\Yfg"

H\Y`dfc[fUa a Y`k]`:
 5W`hUg`U`WU]mghhc`[YhU`dfc`Y`W`cf`]XYU`i d`UbX`
 fi bb]b["
 6Y`Ub`cddcfh b]mhc`fmiU`bYk`UddfcUW`cf`k`cf`_
 k]h`U`bYk`Ui X]YbW`hc`[U]b`bYk`dYfgdYW]j Yg`cb`
 mci f`fYgYUfV\`"
 C ZZf`h`Y`V\UbW`hc`Vi]X`U`bYk`dUf`bYfg\]d`k]h`h`Y`
 W`hi fU`gY`W`cf`cf`fmiU`bYk`]XYU`k]h`Ub`YI]gh]b[`
 W`U`VcfUhc`f`H\Y`V\UbW`hc`k`cf`_`k]h`U`dUf`bYf`k`\
 hfi`m`UXXg`j`U`i`Y`UbX`a`U`_Yg`U`a`YUb]b[`Z`
 W`b]f]Vi`h]cb`hc`mci`f`dfc`Y`W`h`h`fci`[`h`b`a``Y`



- 5]a YX'UhWéa a i b]mi
[fci dg"

j`UFY`Ya VYXXYX`j]b`mci f`cWU`Wéa a i b]mž`k`YfY`Wéa a i b]mi
a Ya VYfg`UFY`]bj`c`j`YX`]b`gca`Y`UgdYVWicZH`Y`d`Ubb]b[`cf`
XY`j`YfmicZH`Y`Yj`Ybh

j`g`l`ck`WUgY`h`Y`fc`Y`g`V]YbW`d`Umg`]b`Yj`YfmXUm`j]Z`ž`
W`U`Yb[`Y`h`Y`]XYU`h`UhgW]YbW`]g`g`YdUfUH`Z`ca`W`h`f`ž`
UbX`#`c`f`VfYU`_`Xck`b`gh`f`Y`ch`d`Y`g`c`Zk`U`h`]ha`Y`Ubg`h`c`VY`U`
g`V]Yb]gh`c`f`Yb[`U[`Y`k`]h`g`V]YbW`

j`Y`Uj`Y`U`Y[`UW`ž`d`fc`j`]X]b[`U`k`Um`ž`c`f`h`c`g`Y`]b]c`j`YX`h`c`
Wé`b`h`bi`Y`h`Y]f`Yb[`U[`Ya`Ybhk`]h`g`V]YbW`"

[6 flhg\`GcWYmžcf`h`Y`
<`\]g`h`c`f`m`c`Z`G`W\]YbW`](#)

- <`]g`h`c`f`m`c`Z`G`W]YbW`"
- I`d`h`c`œ`\$\$"
- C`b`Y`c`Z`h`Y`Udd`j]W]b]h]g`
g`l`ci`X`VY`U`a`Ya`VYf`"

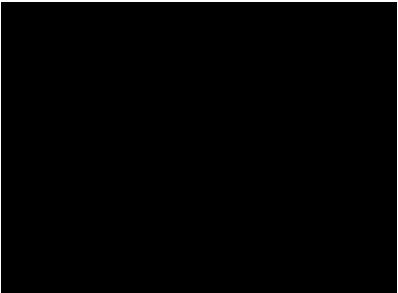
H`Y`6`f]h]g`l`GcWYmžcf`h`Y`<`]g`h`c`f`m`c`Z`G`W]YbW`C`i`f`Y`U`W`U`b`X`
9`b[`U[`Ya`Ybh7`ca`a`]h`Y`Y`c`Z`Y`fg`[`f`U`b]h]g`c`Z`i`d`h`c`œ`\$`\$`h`c`
gi`dd`c`f`h`Y`b[`U[`Ya`Ybh`U`b`X`c`i`f`Y`U`W`_`d`f`c`Y`W`g`]b`h`Y`h`c`]g`h`c`f`m`c`Z`
g`V]YbW`"K`Y`U`f`Y`_`Y`Y`b`h`c`Y`b`Wé`i`f`U[`Y`d`f`c`Y`W`g`h`U`h`Y`b[`U[`Y`
k`]h`h`Y`h`c`]g`h`c`f`m`c`Z`g`V]YbW`ž`h`Y`W`b`c`c`[`m`U`b`X`a`Y`X]W]b]Y`]b`b`Y`k`
U`b`X`Y`I`W]h]b[`k`U`mg`U`b`X`U`f`Y`U`dd`j]W]V`Y`h`c`h`Y`f`]b]h]b`X`Y`X`
U`i`X]Y`b`W`g`"

:`c`f`]b`ž`c`fa`U`h]c`b`c`b`gi`W`W`g`g`ž`_`d`f`c`Y`W`g`h`U`h`U`j`Y`V`Y`Y`b`
gi`dd`c`f`h`Y`X`V`m`h`Y`C`9`7`d`Y`U`g`Y`g`Y`Y`h`Y`f`f`Y`W`b`h`U`W]h]j`]h]Y`g`D`
g`Y`W]h]c`b`c`Z`c`i`f`k`Y`V`g`]h`Y`"D`f`Y`j`]c`i`g`C`9`7`D`f`c`Y`W`h`i`f`U`b`h`
]b]h]U`h]j`Y`g`U`j`Y`]b`Wé`X`Y`X`d`i`V`]W]Y`j`Y`b]h]g`ž`h`Y`X`Y`j`Y`c`d`a`Y`b`h`c`Z`
a`U`h`f`]U`g`Z`c`f`g`V`X`c`c`g`ž`U`b`X`k`c`f`_`k`]h`h`c`Y`W]h]c`b`g`U`b`X`
Y`f`]h]U[`Y`g`]h`Y`g`"<`c`k`Y`j`Y`ž`k`Y`U`f`Y`U`k`U`mg`U`c`d]b[`h`c`V`Y`
gi`f`d`f`]g`Y`X`V`m`b`Y`k`]X`Y`U`g`U`b`X`Z`c`fa`U`h]g`"

D`Y`U`g`Y`b`c`h`h`U`h`h`Y`C`9`7`D`f`c`Y`W`h`i`f`U`b`h]g`d`f]a`U`f]m`
]b]h]b`X`Y`X`U`g`U`g`Y`Y`X`Wé`f`b`ž`b`X`Z`c`f`b`Y`k`]b]h]U`h]j`Y`g`U`b`X`h`c`
gi`d`Y`Y`]h]j`Y`g`U`j`Y`gi`d`Y`Y`



<ul style="list-style-type: none"> • : i bX`WcgYX`]b`&\$&&" 	<p>Yb[]bYYf]b[]_bck`YX[Yž]a dfcj YX`k]XYf`Yb[]bYYf]b[]`]hYfUWñiUbX`Vfci [\hiUVci hiU`VYHfYfi bXYfgHUbX]b[`cZñY` fc`Y`cZñY` Yb[]bYYfz`UbX`ñY`Wëbhf]Vi hçb`Yb[]bYYf]b[]` a U`Yg`hc`gcWYmž`Ua cb[`mci b[`dYcd`Y`U[YX`(!%- "</p>
<p>bghñi h`cZA`UñYa`UñVg`UbX`]hg`5dd`Wñhçbg`</p> <ul style="list-style-type: none"> • A`UñYa`UñVg`" • I`d`hc`œ`\$`\$`" • 5dd`]Wñhçbg`UFY` k`Y`Wë`a`Y`Zca`ñ`cgY` k`cf_]b[]b`gYVë`bXUfm` gW`cc`gž`Vë`Y[Yg`cZ` ž`ñ`Yf`YXi`Wñhçb`fi`9`É` UbX`\][\Yf`YXi`Wñhçb`]bghñi`hçbg`fk`9`€` f]bWñ`X]b[`D\8` gñ`XYbñg`" 	<p>H\Y`=A`5`cZñY`fg`Ub`9Xi`Wñhçb`];`fUbhg`G`W`Ya`Y`hc`dfcj`]X`Y` ž`b`Ub`W`U`gi`ddcfñhçk`UfXg`ñ`Y`Wë`ghg`cZ`fi`bb]b[`Ub` YXi`Wñhçb`U`U`Wñ]]hmfY`Uñb[`hc`a`UñYa`UñVg`"H\Y`U]a`cZñY` 9Xi`Wñhçb`];`fUbhg`G`W`Ya`Y`]g`hc`YbUV`Y`cf[Ub]gUñhçbg`hc` d]`chbYk`]XYUgž`UddfcUW`Yg`UbX`dfUWñ]W`g`cf`i`bXYfñ`_`Y` Wë`UVcfUñ]`Y`U`Wñ]]hYg`ñ`Uñk`ci`X`bchVY`dcgg]V`Y`i`bXYf` YI`]gh]b[`ž`bX]b[`g`W`Ya`Yg`"</p>
<p>bghñi h`cZD\mg]Vg`fiç`DŁ`</p> <ul style="list-style-type: none"> • D\mg]Vg`" • œ`\$`\$`!`œ`ž`\$`\$`" • Í`H\Y`g`W`Ya`Y`]g`cdYb`hc`]bX]j`]Xi`U`g`UbX` cf[Ub]gUñhçbg` dUgg]cbUñY`UVci`hi`dfca`ch]b[`Yb[U[Ya`Ybhi`k`]ñ`d\mg]Vg`" 	<p>H\]g`@]a`]h`@Ygg`[`fUbhgW`Ya`Y`gi`ddcfñg`dfc`Y`Vg`ñ`Uñ` HUF[YññY`Ui`X]YbW`g`df]cf]hgYX`VmñY`€`DŁ`@]a`]h` @Ygg`W]a`dU][`b`É`ž]a`]]Yg`k`]ñ`mci`b[`dYcd`Y`i`bXYf` ñ`Y`U[Y`cZñ`*`ñ`Uñ]XYbhž`ñk`]ñ`cbY`cf`a`cfY`cZñY` žc`ck`]b[]`[`fci`dg`</p> <ul style="list-style-type: none"> o []f`g`UbX`mci`b[`k`ca`Yb/ o X]gUV`YX`mci`b[`dYcd`Y/ o @`6Hž`mci`b[`dYcd`Y/ o mci`b[`dYcd`Y`ž`ca`X]gUXj`UbñU[YX`VUW_]`fci`bXg/`UbX` o 6`UW_]7`Uf]VYUñ`mci`b[`dYcd`Y`" <p>8Yj`Y`cd`fY`Uñhçbg\]dg`VYñk`YYb`d\mg]Vg`UbX`di`V`]W` dUfh]V]d`Ubñg`hc`[`fck`VYñcbX`]b]ñU`Wë`bñUWñ` F`Y]bž`fW`a`YggU[Yg`VY]b[`XY`j`YfYX`VmYI`]gh]b[` Yb[U[Ya`YbhgW`Ya`Yg`VmUXUdñb[`hc`bYk`c`Wñhçbgž` Wë`a`a`i`b]ñYg`cf`W]fW`a`gñ`UbW`g`"</p> <p>6i`]X`ghfcb[`fY`Uñhçbg\]dg`VYñk`YYb`d\mg]Vgž` d\mg]Vgghg`UbX`X]j`YfgY`Wë`a`a`i`b]ñYg`ñ`fci`[\`Wë`!` XYj`Y`cd`YX`UbX`Wë`!XY`j`YfYX`Yb[U[Ya`Ybhdfc`Y`Vg`"</p>





<ul style="list-style-type: none"> 5g'€D'UVcj Y'Vi h 'ja]HYX'hc'cf[Ub]gUH]cbg']b'GVčhUbX" 	<p>F YUWX'mci b['dYcd'Y']b'i bXYf!fYdfYgYbHYX'[fci dg' UbX'ħ.Y]f']bZi YbWVfg'VYmcbX'ħ.Y WUggfccca "</p> <p>8Yj Y'cd'ħ.Y'gW]YbWV'Vč'a a i b]WU]cb'g_]`g'cZ d\mg]W]ghg</p> <p>8Yj Y'cd'ħ.Y'gW]YbWV'g_]`g'cZVč'a a i b]WU]cb'gZ'Ufh]ghgZ' Vč'a a i b]m]cf[Ub]gYfg'UbX'W'ħi fU' [fci dg'</p>
<p>A]WcV]c'c[mGcWY]m</p> <ul style="list-style-type: none"> A]WcV]c'c[m' I d'hc'œ\$Z\$\$\$" 5dd']WU]cbg'g\ci 'X'VY'U' a Ya VYf" 	<p>H\Y [fU]bhg'fUfY'Uj U]UV'Y'hc'gi ddcfhi'fY'Yj UbhgW]YbWV' HYUWX]b['cf'dfca ch]cb']b]h]UHj YgZ'cf'hc'gi ddcfhi XYj Y'cda Yb]g']Y'm]hc'YUX'hc'Ub'ja d]fcj Ya Ybh]b'ħ.Y' HYUWX]b['cZUbm]UgdYVW]cZa]WcV]c'c[m' <p>5dd']WU]cbg'UfY'fYj]Yk YX'U[U]b]ghħ.Y'Z'ck]b['W]HYf]U. H\Y'dfc'YW]g'fY'Yj Ubh]hc'a]WcV]c'c[m H\Y'dfc'YW]g'Ug'WYUf'U]a g'ħ.UhUfY'fYU'g]h]W]m' UWX]Yj UV'Y']b'ħ.Y'dfcdcgYX'h]a Y'Z'Ua Y H\Y'UW]j]m]g'WYUf'mXYgW]VYX'UbX'ħ.YW]b]W]m' Z'Ug]V'Y H\Y'dfc'YW]g']b]bcj U]h] Y'UbX'œ'f'h]a Y'm H\Y'fY']g'WYUf'VYbYZ]h]hc'ħ.Y'fUf[YhUi X]YbWV H\Y'Udd']WU]bhZ'UbX'Ubm]gi ddcfhi]g]UZZ'\Ug'ħ.Y' fYei]fYX'YI dYfh]gY'hc'gi ddcfhiħ.Y'dfc'YW]h]fci [\ 'hc' gi W]YggZ' `Vč'a d'Y]h]cb H\Y'Yj U'i U]h]cb'a Yħ.cXg'UfY'UXYei UHY'mXYgW]VYX' UbX'Uddfcdf]UHY H\Y'dfc'YW]g'gi g]h]b]UV']]m : i 'UbX'fYUgcbUV'Y'Vč'gh]b[g'UfY' []j Yb</p> </p>
<p>F c]tU' 5WUXYa mcZ 9b[]bYYf]b[</p> <ul style="list-style-type: none"> 9b[]bYYf]b[" œ \$\$\$\$'hc'œ \$\$\$\$" ÍK Y'k Y'Vč'a Y'dfcdcgU'g' Z'ca 'Yb[]bYYfgZ' i b]j Yfg]h]YgZ'gW]YbWV' UbX'Yb[]bYYf]b[' Vč'a a i b]WU]cb'g'UbX' Yb[U[Ya Ybh dfcZ'gg]cb'U'gZ'Vč'Y[Yg' UbX'gV]cc'g'f <p>F c]tU' 5q]fcbca]W]GcWY]m</p> <ul style="list-style-type: none"> 	<p>H\Y'čb[Yb]ci g'Uk UfXg'dfc[fUa a Y'U]a g'hc.]bgd]fY'W]YU]h] Y'di V]W]Yb[U[Ya Ybhk]ħ'Yb[]bYYf]b[' dfc'YW]g a ch]j UHY'Yb[]bYYfg'hc'g\UfY'ħ.Y]f'g]hc]f]YgZ'dUgg]cb' UbX'YI dYfh]gY'k]ħ'k]XYf'Ui X]YbW]g'UbX'XYj Y'cd' ħ.Y]f'Vč'a a i b]WU]cb'UbX'Yb[U[Ya Ybh]g_]`g fU]gY'Uk UfYbYgg'cZħ.Y'X]j Yfg]mZ'bU]h] fY'UbX'ja dUW]h cZYb[]bYYf]b['Ua cb['dYcd'Y'cZU''U[Yg'UbX' VUW] [fci bXg dfc]]XY'cddcfhi b]h]Yg'Z'cf'Yb[]bYYfg'hc'Yb[U[Y'k]ħ' a Ya VYfg'cZħ.Y'di V]W]Z'ca [fci dg'W ffYbhm i bXYffYdfYgYbHYX']b'Yb[]bYYf]b[</p>



<ul style="list-style-type: none"> • 09 \$\$\$! 09\$z\$\$\$cj Yf'rk c' mYUfg" A Ul' cZ09 z\$\$\$'jb' cbY mYUf" HcHU'Z bX'gJnY' Jg'09 z\$\$\$" • @ja JhYX'hc' F cmU' GcWYmZ bXYX' gWYbhgq" 	<p>cb'h.Y]f'fygYUfWz'UbX'hc']bWYUgY'h.Y' _bck'`YX[Yz'g_]`g'UbX' WcbZXYbW'cZfygYUfWYfg"</p> <p>5`Z bXYX'dfc'YWg'g\ci'`X.</p> <p>6Y'VUgYX'cb'F cmU'`GcWYmZ bXYX'fygYUfW</p> <p>09cj'Y'gWYbhgq']bYfUW]b['k']h'U'di'V']W[fci' d' ci'hg]XY'mei'f']bgh'h' h'cb</p> <p>HUf[YhgdYWZ]WUi' X]YbWg'vUgYX'cb'h.Y'U]a'g'UbX' fU]h'cbU'Y'cZ'h.Y'dfc'YW</p> <p>9bWci' fU[Y'cdYb'X]gW'gg]cb'VYrk'YYb'gWYbhZ]W' fygYUfWYfg'UbX'mei'f'dfc'YWg']Uf[YhUi' X]YbW</p> <p>5]a'hc'dfcXi'W'VYbYZ]g'Zcf'h.Y'di'V']W'h.Y' fygYUfWYf'UbX'UbmidUf]bYfg'cf'Wc'`UVcfU]h'cg</p> <p>K'Y'UfY'dUf]W'`Uf]m]b]h'fygYX']b'dfc'YWg'h.Uh'</p> <p>F'YUW'`dYcd'Y'h.UhUfY'`W'ffYbhmi' bXYffYdfYgYbhYX']b' h.Y'GcWYmZ'di'V']WYb[U[Ya'Ybhk'cf'z']bW'X]b[' h'cgY'k']h'ci' hU'gWYbW'XY[fYz'h'cgY'Zca' [Yc[fUd\]W'`m]fYa'ch'`cW]h'cbg'UbX'h'cgY'Zca' W'h' fU'`m]UbX'XYa'c[fUd\]W'`m]X]]YfgY' VUW[fci' bXgZ']bW'X]b['65A'9'UbX'`ck!']bWca'Y' VUW[fci' bXg</p> <p>9bWci' fU[Y'Wc'`UVcfU]h'cb'VYrk'YYb'gWYbW'UbX'h.Y' Uf]g'</p> <p>9bU'Y'dcgg]V']h'Yg'Zcf'X][]h'Yb[U[Ya'YbhZ'Y'h.Yf'Ug' U'a'U]b'Z]U]h'fy'cf'Ug'dUf]cZU'Wc'bh]b[YbW]id'Ub</p> <p>K']ghk'Y'k'Y'Wca'Y'Udd']W]h'cbg'k'cf_]b['k']h'W]XfYb'UbX' gW'cc'`[fci'dgz'k'Y'k'ci'`X'VY'dUf]W'`Uf]m]b]h'fygYX']b' dfc'YWg'h.UhUf[Y'hk']XYf'U[Y'[fci'dg'UbX'XYa'c[fUd\]W' UbX'Wc'`UVcfU]h'k']h'`cW'`WYU]h'Yg'UbX'cf[Ub]gU]h'cbg'gi'W' Ug'Uf]h'g]z'k'f]h'fgz']VfU]Yg'UbX'Wca'a'ib]]m]cf[Ub]gU]h'cbg'`</p>
<p>F cmU' GcWYmZ6]c'c[m</p> <ul style="list-style-type: none"> • 6]c'c[m • H\ fY'Uj'U]UV'Y. '09\$\$\$z' 09\$\$\$! 09 \$\$\$'UbX'`i' d'hc' 09\$\$\$" • @ja JhYX'hc'`a'Ya'VYfg'Vi' h' Yj'Ybhg'W]b'VY'fi' b' k'cf'Xk']XY" 	<p>H\Y'U]a'`cZ'h.Y'[fU]bhgW]Ya'Y']g'hc'gi' ddcf]ci' fYUW'UbX' Yb[U[Ya'YbhY'Ybhg'UbX'UW]h']h'Yg'h.UhUfY'WYU]h'Yz']a'dUW'z'UbX'gi']hYX'Zcf'Ui' X]YbWg'cf'vUgYX']b'`cW]h'cbg' h.Uh'Um\Uj'Y'ch'Yfk']gY'`ja']hYX'`cddcf]h' b]h'Yg'hc'Yb[U[Y' k']h'V]cgWYbW'`hcd]Wg'cf'WcbW'dhg"</p>
<p>F cmU' GcWYmZ7 \Ya']g]f]m] Ci' fYUW' : i' bX</p> <ul style="list-style-type: none"> • 7\Ya']g]f]m] • Hk'c'Uj'U]UV'Y. 'i' d'hc' 09 \$\$\$'cf'`i' d'hc' 09\$\$\$" • 5[YX'% 'mYUfg'UbX'cj' Yf' UbX'fyg]XYbh]b'h.Y'i' ?' cf'`fY'UbX" 	<p>8Yj'Y'cd'gWYbW'Wca'a'ib]W]h'cb'g_]`g'cZ]W]Ya']ghg'!` Vi']X]b['W]dUW]m]UbX'`cddcf]h' b]h'Yg'Zcf'W]Ya']ghg'UbX' W]Ya']W'gWYbhgq'hc'Yb[U[Y'k']h'gW'cc'g'UbX' di'V']WUi' X]YbWg</p> <p>9b[U[Y'k']h'gW'cc'`gh'XYbhg'!`]bgd]f]b['UbX'fU]g]b[' Ugd]fU]h'cbg'cZ]gh'XYbhUi' X]YbWg'hc'bi'f]h'fy'U'Z'hi'fy' [YbYfU]h'cb'dUgg]cbU]h'UVci' h'h.Y'W]Ya']W'gWYbWg</p> <p>9b[U[Y'k']h'`di'V']WUi' X]YbWg'!`]bj'c'j']b['U'k']XY' fU]b[Y'cZdYcd'Y']b'fy'Yj'UbhWc'bh'Ya' dcfU]m]ggi'Yg']b' h.Y'W]Ya']W'gWYbWg</p> <p>Dfcj']XY'`i' bXYf'fydfYeQ</p>

