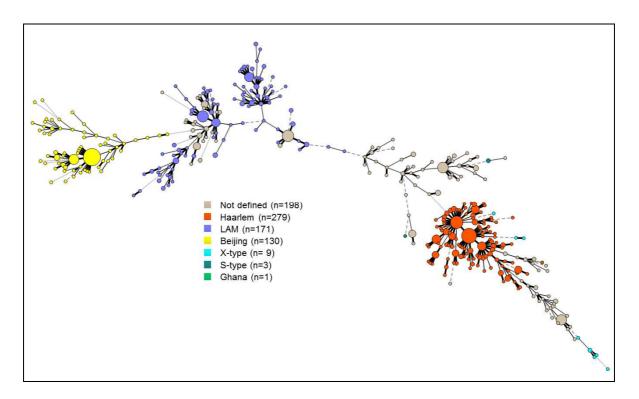
## **Supplementary Material 1 (S1):**

## Minimum Spanning tree based on the diversity of MIRU-15 data



The different complexes identified are coloured (maximum neighbour distance: four changes; minimum size: two MIRU-VNTR types) by the set of 15-loci among the 791 M. tuberculosis strains analyzed. The size of each circle is proportional to the number of MIRU-VNTR types belonging to a particular complex. LAM=M. tuberculosis Latin American Mediterranean.

	Spoligotyping Patterns						MIR	RU 1	5-loci								D	ST P	Profiles
D	43 44 46 33<	580	802	2996	960	1644	3192	424	577	2165	2401	3690	4156	2163b	1955	4052	Н	R	S
39		2	3	5	3	1	3	2	4	3	2	5	3	4	2	5	ND	ND	ND 1
00		2	4	5	3	3	2	2	4	4	2	3	2	3	3 4	2 2.7	-9	S	R
		2	2	2	3	3	3	2	3	3	4	3	2	2	4	2,7	ND R	ND R	ND 1 R
54		2	4	5	3	3	2	2	4	4	2	3	2	3	3	2	R	R	R
33		2	4	4	3	3	3	2	4	3	2	3	2	3	2	4	R	R	S
65		2	4	4	3	3	3	2	3	4	2	3	2	3	3	2	R	R	S
95		2	2	4	4	2	2	3	4	2	1	2	2	2	3	4	R	R	S
-		3	2	3	3	3	2	2	4	4	2	3	2	4	1	2,3	R	R	S
9 8		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	R R	S	R R
9		2	4	5	3	3	2	2	4	4	2	3	2	3	3	2	R	S	R
0		2	4	4.5	3	3	3	2	3	4	2	3	2	3	3	2	R	s	R
9		2	4	5	2	3	3	2	3	4	2	3	2	3	3	2	R	S	R
3		2	4	5	3	1	3	2	4	3	2	5	3	4	2	5	R	S	R
7		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	R	S	S
1		2	4	5	3	2	3	2	4	1	2	3	2	3	3	2	R	S	S
3		2	3	3	3	3	3	2	3	4	2	3	2	5	3	2	R R	5	S S
4		2	4	4	3	3	3	2	3	3	4	3	3	5	4	8	R	S	S
5		2	4	5	3	3	3	2	4	3	2	3	2	2	3	2	S	Ř	š
0		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	R
5		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	R
4		2	4	4	3	3	3	2	3	3	4	3	3	5	3	8	S	S	R
6 1		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S S	s	R R
1		2	4	5	3	3	3	2	3	4	2	1	2	3	3	2	S	s	R
7		2	2	4	3	4	3	2	4	2	2	2	2	4	2	4	ŝ	ŝ	R
3		2	4	5	3	3	3	2	4	3	2	3	2	2	2	5	S	S	S
8		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	S
6		2	3	3	3	3	3	2	3	4	2	3	2	3	3	2	S	S	S
8 9		2	4	5	3	1	3	2	4	3	2	2	3	4	2	2	S	S	S
3		2	3	5	3	4	3	2	4	3	2	3	2	4	2	5	S	S	s
2		2	2	5	3	3	3	2	4	4	2	3	2	2	2	2	s	s	s
1		2	4	5	3	1	3	2	4	3	2	5	3	4	2	5	S	S	S
1		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	S
3		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	S
9		2	4	5	3	3	3	2	3	4	2	3	2	3	3	2	S	S	S
8		2	4	5	3	3	3	2	4 1	4	2	3	2	2	4	2	S	5	S S
5		2	2	4	3	4	3	2	4	2	2	3	2	5	2	4	S	S	s
3		2	4	5	3	3	3	2	4	3	2	5	2	3	3	2	s	s	s
5		2	2	6	4	3	2	2	3	2	4	2	2	1	3	3	S	S	S
0		2	2	5	3	3	3	2	4	4	2	3	2	3	3	2	s	s	s

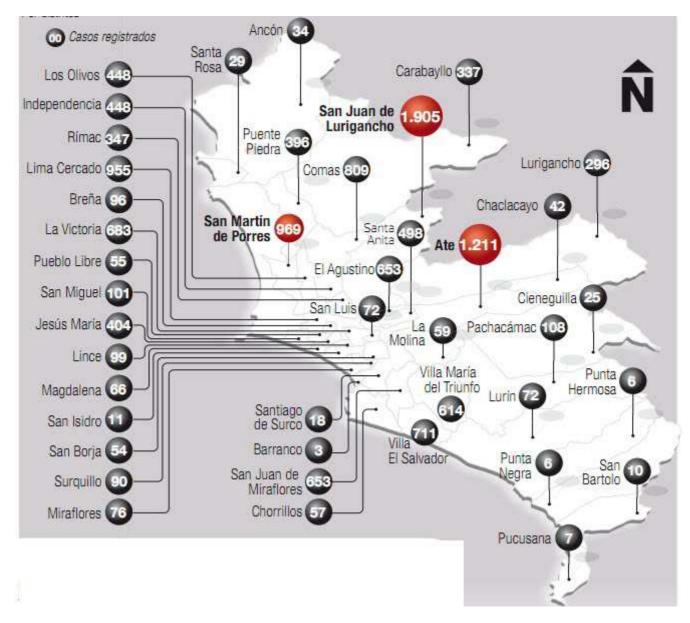
	Spoligotyping Patterns						MIR	RU 15	5-loci	Patt	erns						DST	Profil	es
ID	4 4 4 4 8 3 3 3 3 3 3 3 3 3 3 3 3 5 8 5 5 5 5 5	580	802	2996	960	1644	3192	424	577	2165	2401	3690	4156	2163b	1955	В	R	s	Е
1716		2	2	4	3	3	4	2	3	3	4	3	3		4 7		S	S	S
1761 1448		2	4	5	3	3	3	2	3	4	2	3	2	3	32 47		S	S S	S S
		2	4	5	3	3	3	2	3	4	2	3	2	3	3 2		S	s	s
1092		2	4	4	3	3	3	2	3	3	4	3	3	5	38		S	S	S
1922		2	2	4	5	2	2	3	4	2	1	2	2	2	47 24	~	S	S S	S
2116 1015		2	2	4	3	4	3	2	4	2	2	3	2	3	24		S	s	S S
1158		2	4	5	3	3	3	2	3	4	2	3	2	3	3 2		Š	s	ŝ
1326		2	4	4	3	3	3	2	4	4	2	3	2	3	3 2		S	S	S
1329		2	2	5	3	3	3	2	4	4	2	3	2	3	32 25	·   ~	S	S S	S S
1200 1245		2	4	3	3	4	3	2	4	2	2	3	2	4 5	23		S	S	S
		2	4	4	3	3	3	2	3	3	4	3	3	4	5	S	S	S	S
1159		2	4	5	2	3	3	2	4	4	2	5	2	2	3 2		S	S	S
1061		2	4	5	3	3	2	2	4	4	2	3	2	3	32 47		S	S S	S S
1380 1216		2	2	4	3	4	3	2	3 4	2	4	3	2	4	4 / 2 4		S	s	s
1639		2	2	5	4	2	2	3	4	2	1	2	2	2	4 7		S	S	S
2035		2	4	5	3	3	3	2	3	4	2	3	2	3	3 2		S	S	S
2245 1386		2	2	4	4	3	3	2	3	3	4	3	3	2	4622		S	S S	S S
1994		2	2	5	3	4	3	2	4	2	2	3	2	4	2 2	S	S	S	S
1157		2	4	5	3	3	3	2	3	4	2	1	2	3	3 2	S	S	S	S
1735		2	4	5	3	3	3	2	3	4	2	3	2	3	3 2		S	S	S
2091 1113		2	2	4	3	5	3	2	4	2	2	3	2	4	25		S	S S	S S
1130		2	2	5	4	2	2	3	4	2	1	2	2	2	4 2.		S	S	S
2079		2	2	5	4	2	2	3	4	2	1	2	2	2	4 7		S	S	S
		3	2	4	3	3	3	3	4	3	2	4	2	4	1 3				
1021 1617		2	1	5	4	2	1	3	4	2	1	2	2	2 .	48 13		) ND R	ND R	ND R
		2	2	5		2	2	3	4	2	1	2	2	2	3 7			S	S
		2	2	5	4	2	2	3	4	2	1	2	2	2	37		R	S	S
		2	2	5	4	2	2	3	4	2	1	2	2	2	37 44		S	S	R
		2	2	2 5	4	2	2	3	4	2	1	2	2	2	44 37	~	S	R S	R R
		3	2	4	3	3	3	3	4	3	2	4	2	4	12,	~	s	s	R
		2	2	4	3	1	3	2	4	3	2	2	2	5	2 5		S	S	S
		2	2	5	3	3	3	2	4	2	2	3	2	4	25 13		S	S	S
1395 2179		3	4	5 5	3 4	3	2	3	4	2	2	4	2	4	1 3		S	S S	S S
1293		2	2	4	2	4	3	2	4	2	2	4	2	4	23,	~	s	s	s
1745		2	3	4	3	2	3	2	4	2	2	3	2	3	2 5		S	S	S
2128		2	2	4	4	3	3	2	3	3	4	3	3	6	4 6		S	S	S
1000		2	2	4	4	3	3	4	3	3	4	3	3	- C	3 3		S	S	S
1710		3	2	4	3	3	3	3	4	3	2	4	2	4	1 3	S	s	S	S

	Spoligotyping Patterns						MIR	U 15	-loci	Patte	rns					DS	ST Pro	ofiles
ID	4 4 4 4 9 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5	580	802	2996	960	1644	3192	424	577	2165	3690	4156	2163b	1955	4052	н	R	S E
1703		3	2	4	3	3	3	3	4	3	24	2	4	1	3			S S
1733 2143		3	2	4	3	3	3	3	4	3	24 13	2	4	1	3 1.2			S S S S
2222		2	2	5	4	2	2	3	4	2	1 2	2	2	3	7			SS
1937		2	2	5	4	3	2	3	3	2	1 2	2	2	4	7	~		S S
1107		2	1	5	3	3	3	2	4	3	24	2	4	2	3	~		S S
1049 2277		3	2	4	3	3	3	3	4	3	24	2	4	2	3			S S S S
900		2	2	4	4	3	3	1	3	3	4 3	2	4	3	3			S S
2087		2	2	4	4	3	3	4	3	3	43	3	5	3	3			S S
2287 1221		4	2	4	2	3	2	4	4	4	2 1	2	2	1	5	S S		S S S S
1010		2	2	4	4	2	3	4	3	3	1 3	3	4	2	6			SS
1842		2	2	4	4	3	2	3	4	2	1 2	2	2	4	7			S S
1798		3	2	4	3	3	3	3	4	3	2 4	2	4	1	3	~		S S
1156 2301		2	3	5	3	3	3	2	4	4	25	2	2	3	2	~		S S S S
2029		2	2	т	4	3	2	3	4	2	1 2	2	2	4	6			ND ND
1677		2	2	5	4	2	2	3	4	2	1 2	2	2	3	5			ND ND
2117		2	3	5	4	2	3	2	2	2	2 1	2	4	3	9			ND ND
2318 1771		2	2	5	4	2	2	3	4	2	1 2	2	2	3	5			R R S R
1883		2	2	5	4	2	2	3	4	2	1 2	2	2	3	5			SR
2270		2	2	5	4	2	2	3	4	2	1 2	2	2	3	5			S S
2201 1550		2	2	4	4	3	2	3	4	2	1 2	2	2	4	6 8			R R R S
2225		2	2	5	3	4	3	2	4	2	2 1	2	3	2	5			SR
1074		2	2	4	3	3	3	4	3	2	1 3	3	3	3	6			S S
1723		2	2	4	3	3	3	4	3	3	1 3	3	3	3	6 0			S S
1445 2022		2	3	5	4	2	2	2	2	2	21	2	4	3	7			S S S S
1875		2	3	5	4	2	3	2	2	2	2 1	2	4	3	9			RR
2032		2	2	4	3	3	3	4	3	3	1 3	3	3	3	6			R S
2015 2255		2	2	4	4	3	2	3	4	2	1 2	2	2	4	6 9			RS RS
2321		2	2	5	4	2	1	3	4	2	1 2	2	2	6	8			SR
2250		2	2	5	4	2	1	3	4	2	1 2	2	2	4	8	S		S R
2003		2	4	5	3	3	3	2	4	3	23	2	3	2	5	S		S R
2048 2158		2	1 2	4	4	3	3	2	3	3	43 12	3	2	4	6 5	~		SR SR
1898		2	2	4	3	3	3	4	3	3	1 3	3	3	3	6			S S
1532		2	2	4	3	3	3	4	3	3	1 3	3	3	3	6			S S
1272		2	2	5	4	2	2	3	4	2	1 3	2	2	4	8	s	-	S S
2140		22	2	5	3	4	3	2	4	2	21 43	2	3	2 4	5 6	S S		S S S S
2253 1517		2	2	4	4	3	2	2	5 4	2	+ 3 1 2	2	2	4	0 6			s s s s
1474			2	5	3	4	3	2	4	2	2 1	2	3	2	5			s s
		-													'			

	Spoligotyping Patterns						MIR	RU 15	5-loci	i <b>P</b> att	terns	;					D	ST P	Profile	s
D	4 4 4 4 9 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5	580	802	2996	960	1644	3192	424	577	2165	2401	3690	4156	2163b	1955	4052	Н	R	S	E
		2	2	4	4	3	3	4	3	3	4	3	3	7	3	6	S	S	S	S
1198 1345		2	2	5	4	2	2	3	4	2	1	2	2	2	3	5 8	S	S S	S S	S S
		2	2	4	3	3	3	4	3	3	4	3	3	23	3	8 6	S	s	S	s
1320		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	S
		2	2	4	3	3	3	4	3	3	1	3	3	3	3	6	S	S	S	S
1826 1321		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9 9	S	S	S S	S S
		2	3	4	4	3	2	4	3	3	4	1	3	5	3	6	s	S	S	S
1070		2	3	5	4	2	3	2	2	2	2	1	2	4	3	1,7	S	S	S	S
1498		2	2	5	3	3	3	2	3	3	4	3	3	5	2	8	S	S	S	S
1315 1055		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9 6	S	S S	S S	S S
		2	2	4	3	3	3	2	3	2	1	3	3	4	3	6	s	s	s	s
		2	4	5	3	3	3	3	4	3	2	3	2	3	2	5	S	S	S	S
		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	S
2075		2	3	5	4	2	3	2	2	2	2	1	2	4	3	5,9 9	S	S	S S	S S
1028 2244		2	2	4	4	3	2	3	4	2	1	2	2	4	3 4	6	S	s	s	s
1354		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	s	ŝ	s	s
2227		2	2	4	4	3	2	3	2,4	2	1	2	2	2	4	6	S	S	S	S
		2	2	4	3	3	3	4	3	3	1	3	3	3	3	6	S	S	S	S
1493 2084		2	2	4	3	3	3	4	5 4	3	2	3	3	3	3	6 5	S	s	S S	S S
		2	2	5	3	3	3	2	3	3	4	3	3	5	2	8	s	s	s	s
1847		2	2	5	4	2	1	3	4	2	1	2	2	2	4	8	S	S	S	S
1101		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S S	S	S
		2	2	4	2 4	3	2	4	2 4	2	1	2	2	2	2 4	6 6	S	s	S S	S S
		2	2	4	3	3	3	4	3	3	4	3	3	7	3	8	s	s	s	s
		2	2	4	3	3	3	4	3	3	1	3	3	3	3	6	S	S	S	S
1894 1467		2	4	5	3	3	3	2	4	3	2	3	2	2	2	4	S	S	S S	S S
1241		2	2	3	4	3	2	3	4	2	1	2	2	2	2 4	6	S	s	S	s
1071		2	2	4	4	3	2	3	4	2	1	2	2	2	4	Ŭ	s	ŝ	s	s
1824		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	S
		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	S
		2	2	4	4	3	3	2	3	3	4	3	3	7	3	6 8	S	S S	S S	S S
		2	2	4	4	3	3	2	3	3	4	2	3	6,7	3	6	s	š	s	s
		2	2	5	3	3	3	4	3	3	4	3	3	7	3	6	S	S	S	S
		2	2	4	3	3	3	4	3	3	1	3	3	3	3	6	S	S	S	S
1086 1572		2	3	2 4	4	2	3	2	2	3	2	1	2	4	3	9 6	S	S	S S	S S
1304		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	s
		1	3	4		3	3	4	3	3	4	3	3	5	3	4	S	S	S	S
		2	3	5	4	2	3	2	2	2	2	1	2	4	3	9	S	S	S	S
2237		2	2	4	3	3	3	4	3	3	1	3	3	3	3	6	S	S	S	S

	Spoligotyping Patterns					]	MIR	U 15	-loci	Patte	erns						DST	Profil	les
ID	4 4 4 4 9 3 3 3 3 3 3 3 3 3 3 3 3 5 5 5 5 5 5 5	580	802	2996	960	1644	3192	424	577	2165	2401	3690	4156	2163b	cc91	204 H	I R	s	Е
		2	2	4	3	3	3	4	3	3	1	3 3	3	3	3 (	5 S	S	S	S
		2	3	5	4	2	3	2	2	2	2	1 1	2	4	3 9	)   S	S	S	S
		2	4	5	3	3	3	2	3	3	4	3 3	3	5	4 8	3   S	S	S	S
		2	3	5	4	2	3	2	2	2	2	1 1	2	4	3 9	)   S	S	S	S
		2	2	4	3	3	3	4	3	3	1	3 3	3	3	3 (	5   S	S	S	S
		2	2	4	4	3	2	3	4	2	1	2 1	2	2	4 (	5   S	S	S	S
1138		2	2	4	3	3	3	4	3	3	1	3 3	3	3	3 (	5   S	S	S	S
1023		2	3	5	4	2	3	2	2	2	2	1 2	2	4	3 9	) S	S	S	S
1708		2	2	6	4	3	3	2	3	3	4	3 3	3	5	4 (	5 S	S	S	S
1836		2	2	4	3	3	3	4	3	3	1	3 3	3	3	3 (	5 S	S	S	S
1556		2	2	4	4	3	3	4	3	3	1	3 3	3	5	3 (	5 S	S	S	S

DST=Drug susceptibility testing, ND=Not done, H=isoniazid, R=rifampicin, S=streptomycin, E=ethambutol, -9=not result



## Supplementary Material 3 (S3): Registered TB cases stratified by districts

Source: Ministry of Health. Peru. 2011.