

**Table S2.** The conversion matrix representing the allowed changes between different land-cover types.

	Urban areas	Industrial areas and infrastructures	Non-irrigated arable land	Irrigated arable land	Permanent crops	Grassland and pastures	Forests	Energy crops*	Other land covers
Urban areas	1	0	0	0	0	0	0	0	0
Industrial areas and infrastructures	0	1	0	0	0	0	0	0	0
Non-irrigated arable land	1	1	1	1	1	1	0	1	0
Irrigated arable land	1	1	1	1	1	1	0	1	0
Permanent crops	1	1	1	1	1	1	0	1	0
Grassland and pastures	1	1	1	1	1	1	0	1	0
Forests	1	1	1	1	1	1	1	1	0
Energy crops*	1	1	1	1	1	1	0	1	0
Other land covers	0	0	0	0	0	0	0	0	1

\*: the asterisk "\*" indicates that the LU class is foreseen (and has to be taken into account) only in one scenario: the Energy crops scenario (ECs).