Supplementary File – for Online Publication Only.

**Supplementary Table S1:** *General information on case studies of the Cantogether project*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Case study | Name | Country | Ecological area | Scale |
| E2 | Derval | France | Atlantic | Farm |
| E6 | San giuliano | Italy | Cont./alpine | Territory |
| E7 | Lindhof | Germany | Continental | Farm |
| E8 | Mirecourt | France | Continental | Farm |
| E9 | Thorigne | France | Atlantic | Farm |
| C2 | Lieue de greve | France | Atlantic | Territory |
| C4 | Wintersjwijk | Nederlands | Atlantic | Territory |
| C5 | Celtica | United Kingdom | Atlantic | Farm |
| C6 | Morgan f | United Kingdom | Atlantic | Farm |
| C10 | Riberacois | France | Atlantic | Territory |
| C13 | Aveyron | France | Mediterranean | Territory |
| C14 | Ebro river | Spain | Mediterranean | Territory |
| C15 | Oviaragon | Spain | Mediterranean | Territory |
| C16 | Midi pyr. | France | Atlantic | Farm |
| C18 | Ch m&l | Switzerland | Alpine | Territory |

**Supplementary Table S2**: *Presentation of options of crop-livestock integration in all case studies.* Adaptation options are presented in lines, their presence in each case study is signaled by crosses.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | E2 | E6 | E7 | E8 | E9 | C2 | C4 | C5 | C6 | C10 | C13 | C14 | C15 | C16 | C18 |
| Adaptation options relative to a metabolic approach | Methanization/biomass boiler | X | X |  |  |  |  |  |  | X | X | X |  |  | X |  |
| Manure spreading optimization |  |  | X |  |  |  |  |  |  |  | X | X | X | X |  |
| Adaptation of manure production with litter type |  |  |  | X |  |  |  |  |  |  |  |  |  | X |  |
| Use of industrial byproducts as feed or litter |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |
| Forage/grain vs. Manure exchanges between farms |  | X |  |  |  |  | X |  |  |  |  |  |  |  |  |
| Adaptation options relative to an ecosystemic approach | Diversification of crop rotation: soya, alfalfa, grasslands, cereal-legumes associations | X |  | X | X | X | X |  |  |  |  | X |  |  | X | X |
| Management of cover crops to increase fodder |  |  |  | X |  |  | X |  |  |  | X |  |  |  |  |
| Exchange of lands |  | X |  |  |  |  |  |  |  |  | X |  |  |  |  |
| Optimization of grasslands’ management |  |  | X | X | X |  |  | X |  |  | X |  | X |  |  |
| Adaptation of animal type and management |  |  |  | X |  |  |  |  | X |  |  |  |  |  | X |
| Landscape management |  |  |  |  |  | X | X |  |  |  | X |  | X |  | X |
| Adaptation options relative to an organizational approach | Development of local markets |  |  |  | X | X |  |  | X |  |  | X |  |  |  |  |
| Alfalfa dehydration factory |  |  |  |  |  | X |  |  |  |  | X |  |  |  |  |
| Forage banks / exchange of products |  |  |  |  |  | X |  |  |  | X | X | X |  |  |  |
| Networks for collective learning |  |  |  |  |  | X |  |  |  |  | X | X | X |  | X |
| Public support to practices change |  |  |  |  |  | X | X |  |  |  |  |  |  |  |  |
| Tourism |  |  |  |  |  |  | X |  |  |  |  | X | X |  | X |