## APPENDIX 1

### Table A1.1: Surface area (in ha and %) of the different landscape units on the Pays de la Meije (land cover GIS analysis)

<table>
<thead>
<tr>
<th>Landscape units</th>
<th>Surface (ha)</th>
<th>Land cover (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rocks</td>
<td>9192</td>
<td>46%</td>
</tr>
<tr>
<td>Summer Pastures</td>
<td>5355</td>
<td>27%</td>
</tr>
<tr>
<td>Grazed Terraces</td>
<td>1721</td>
<td>9%</td>
</tr>
<tr>
<td>Ice and snow</td>
<td>1602</td>
<td>8%</td>
</tr>
<tr>
<td>Larch Meadows</td>
<td>670</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Shrublands</td>
<td>651</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Hay Meadows</td>
<td>536</td>
<td>&lt;3%</td>
</tr>
<tr>
<td>Forests</td>
<td>321</td>
<td>&lt;2%</td>
</tr>
<tr>
<td>Waterbodies</td>
<td>15</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Croplands</td>
<td>4</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>Built up</td>
<td>2</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>
Table A1.2: Stakeholders description and participation

<table>
<thead>
<tr>
<th>N°</th>
<th>Categories</th>
<th>Gender</th>
<th>Age</th>
<th>Scale of action</th>
<th>Local workshop</th>
<th>Regional Workshop</th>
<th>Interviews</th>
<th>Validation workshop</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Regional experts (Agriculture)</td>
<td>M</td>
<td>30-40</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Representatives of local and regional institutions</td>
<td>M</td>
<td>40-50</td>
<td>Departmental</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Representatives of nature conservation organizations</td>
<td>M</td>
<td>60-70</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Representatives of nature conservation organizations</td>
<td>M</td>
<td>40-50</td>
<td>Departmental</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Tourism professionals</td>
<td>M</td>
<td>60-70</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Regional experts (Tourism)</td>
<td>M</td>
<td>50-60</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Representatives of regional institutions</td>
<td>F</td>
<td>50-60</td>
<td>Departmental</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Representatives of nature conservation organizations</td>
<td>M</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Second home’s owner</td>
<td>M</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Farmers and other agricultural stakeholders</td>
<td>F</td>
<td>40-50</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Regional experts (Risks)</td>
<td>M</td>
<td>30-40</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Staff of residential services</td>
<td>F</td>
<td>60-70</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Local elected representatives</td>
<td>M</td>
<td>60-70</td>
<td>Regional</td>
<td>X</td>
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<td></td>
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<tr>
<td>14</td>
<td>Tourism professionals</td>
<td>F</td>
<td>60-70</td>
<td>Local</td>
<td>X</td>
<td></td>
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</tr>
<tr>
<td>15</td>
<td>Staff of residential services</td>
<td>F</td>
<td>30-40</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Local elected representatives &amp; Tourism professionals</td>
<td>M</td>
<td>60-70</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>Tourism professionals</td>
<td>F</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Tourism professionals</td>
<td>M&amp;F</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
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<td></td>
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<tr>
<td>19</td>
<td>Tourism professionals</td>
<td>M</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Tourism professionals</td>
<td>F</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>Local elected representatives &amp; Tourism professionals</td>
<td>M</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
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<td></td>
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<tr>
<td>22</td>
<td>Representatives of regional institutions</td>
<td>M</td>
<td>50-60</td>
<td>Regional</td>
<td>X</td>
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<td></td>
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<tr>
<td>23</td>
<td>Tourism professionals</td>
<td>M</td>
<td>30-40</td>
<td>Local</td>
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<td>24</td>
<td>Student/Inhabitant</td>
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<tr>
<td>25</td>
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<td>M</td>
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<td>Departmental</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>26</td>
<td>Regional experts (Climate)</td>
<td>M</td>
<td>30-40</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<td>27</td>
<td>Tourism professionals</td>
<td>F</td>
<td>40-50</td>
<td>Local</td>
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<td></td>
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</tr>
<tr>
<td>28</td>
<td>Representatives of local and regional institutions</td>
<td>F</td>
<td>30-40</td>
<td>Local</td>
<td>X</td>
<td></td>
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<td></td>
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<tr>
<td>29</td>
<td>Representatives of nature conservation organizations</td>
<td>F</td>
<td>50-60</td>
<td>Departmental</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Tourism professionals</td>
<td>M</td>
<td>40-50</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Student/Inhabitant</td>
<td>F</td>
<td>10-20</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Student/Inhabitant</td>
<td>M</td>
<td>10-20</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>33</td>
<td>Tourism professionals</td>
<td>M</td>
<td>20-30</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>34</td>
<td>Farmers and other agricultural stakeholders</td>
<td>M</td>
<td>40-50</td>
<td>Regional</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>35</td>
<td>Tourism professionals</td>
<td>F</td>
<td>30-40</td>
<td>Local</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total number of participants</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Table A.1.3: Description of all nature contribution to people perceived by stakeholders

<table>
<thead>
<tr>
<th>NCP category perceived by stakeholders</th>
<th>Landscape attractiveness</th>
<th>Habitability</th>
<th>Rurality maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Regulation of air quality</td>
<td>Pure air/ depollution</td>
<td>Pure air/ depollution</td>
<td>not cited</td>
</tr>
<tr>
<td>6. Regulation of freshwater quantity</td>
<td>Recreational activities on lake, rivers and psychological link to water</td>
<td>Hydropower psychological link to water and recreational activities (lake and river)</td>
<td>Drinking (animals)</td>
</tr>
<tr>
<td>7. Regulation of freshwater quality</td>
<td>Leisure/recreational activities</td>
<td>Drinking</td>
<td>not cited</td>
</tr>
<tr>
<td>8. Formation/ protection of soil</td>
<td>not cited</td>
<td>not cited</td>
<td>caused by/ manage</td>
</tr>
<tr>
<td>9. Regulation of hazard and extreme events</td>
<td>Floods, rock fall, avalanches, landslides</td>
<td>Floods, rock fall, avalanches, landslides</td>
<td></td>
</tr>
<tr>
<td>12. Food and feed</td>
<td>Dairy products, honey, local production</td>
<td>Dairy products, honey, local production</td>
<td></td>
</tr>
<tr>
<td>14. Medicinal resources</td>
<td>not cited</td>
<td>Wild plants and trees</td>
<td>not cited</td>
</tr>
<tr>
<td>15. Learning and inspiration</td>
<td>Education, information, inspiration, self-development</td>
<td>Education, information, inspiration, self-development</td>
<td></td>
</tr>
<tr>
<td>16. Physical and psychological experiences</td>
<td>Healing, relaxation, recreation, leisure, tourism, aesthetic enjoyment</td>
<td>Healing, relaxation, recreation, leisure, aesthetic enjoyment</td>
<td>not cited</td>
</tr>
<tr>
<td>17. Supporting identities</td>
<td>Religious, spiritual Sense of place (linked to heritage, mountain culture) Local products (dish)</td>
<td>Religious, spiritual and social cohesion Sense of place, belonging (linked to heritage, mountain culture) Local products (dish)</td>
<td>Social cohesion Sense of place, belonging (linked to heritage, mountain culture) Local products (dish)</td>
</tr>
<tr>
<td>NCP</td>
<td>QOL</td>
<td>Nature</td>
<td>Arrow 3: Direct drivers $\rightarrow$ Nature</td>
</tr>
<tr>
<td>-----</td>
<td>-----</td>
<td>--------</td>
<td>-------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Co-production type 1 (ecosystem and landscape management)</td>
</tr>
<tr>
<td><strong>Fodder production (Feed)</strong></td>
<td>R</td>
<td>Agricultural lands</td>
<td><strong>What:</strong> Farming practices <strong>Anthropogenic assets</strong>&lt;br&gt;MC: Farm infrastructures, tools and machines, fertilizer, tracks&lt;br&gt;FC: Subsidies from CAP influencing practices (ICNH, MAE)&lt;br&gt;HC: Full or part time labour, knowledge on terraced farming, motivation to maintain traditional practices <strong>Institution &amp; governance</strong>&lt;br&gt;SC: Local network and organisation, support from institution (Chamber of Agriculture, PNE, AFP), land tenures and allocation&lt;br&gt;Indirect SC: Policies influencing practices (CAP)</td>
</tr>
<tr>
<td>H</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>A</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td><strong>Food production</strong></td>
<td>R</td>
<td>Agricultural lands</td>
<td><strong>What:</strong> Cropping practices <strong>Anthropogenic assets</strong>&lt;br&gt;MC: Farm infrastructures, tools and machines, fertilizer, seeds&lt;br&gt;FC: Subsidies from CAP influencing practices (ICNH, MAE) <strong>Institution &amp; governance</strong>&lt;br&gt;SC: Local support (Chamber of Agriculture, PNE, AFP), land properties and allocation&lt;br&gt;Indirect SC: Policies influencing practices (CAP)</td>
</tr>
<tr>
<td>H</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>A</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Table A1.4 : Human-derived capital involved in nature’s contribution to people (MC: Manufactured capital; FC: Financial capital; HC: Human capital; SC: Social capital)
<table>
<thead>
<tr>
<th>Category</th>
<th>Asset</th>
<th>Action</th>
<th>Anthropogenic Assets</th>
<th>Human Capital</th>
<th>Institution &amp; Governance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aesthetic enjoyment</strong></td>
<td>Landscape</td>
<td>What: Maintenance of terraced landscape (see Fodder production for terraced landscape)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Nature conservation</td>
<td>Anthropogenic assets</td>
<td>MC: None</td>
<td>FC: Subsidies, Park funding, N2000 funding</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institution &amp; governance</td>
<td></td>
<td>SC: Conservation policies (N2000, National Park, Natural reserve), Park rules and strategy.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Landscape planning</td>
<td>Anthropogenic assets</td>
<td>MC: Tools and machines</td>
<td>FC: Public and private investments</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institution &amp; Governance</td>
<td></td>
<td>SC: Planning policies and strategies, land properties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Forest</td>
<td>What: Risk management with protection forest (RTM)</td>
<td>Anthropogenic assets</td>
<td>MC: Roads and tracks to dedicated areas, tools and machines, seeds and plants</td>
<td>FC: Public subsidies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Create and enjoy local identity</td>
<td>Anthropogenic assets</td>
<td>MC: None</td>
<td>FC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institution &amp; governance</td>
<td></td>
<td>SC: None</td>
<td></td>
</tr>
<tr>
<td><strong>Nature experiences</strong></td>
<td>Landscape</td>
<td>What: Preserving nature and landscape planning (see below in aesthetic enjoyment)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Access to landscape</td>
<td>Anthropogenic assets</td>
<td>MC: Roads and tracks to natural landscape, signage</td>
<td>FC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institution &amp; governance</td>
<td></td>
<td>SC: Access right, land properties, hunting rules</td>
<td></td>
</tr>
<tr>
<td><strong>Sense of place</strong></td>
<td>Landscape</td>
<td>What: Maintenance of terraced landscape (see Fodder production)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Landscape planning (see below)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institutional &amp; governance</td>
<td></td>
<td>SC: None</td>
<td></td>
</tr>
<tr>
<td><strong>Regulation of hazards and extreme events</strong></td>
<td>Forest</td>
<td>What: Risk management with protection forest (RTM)</td>
<td>Anthropogenic assets</td>
<td>MC: Roads and tracks to dedicated areas, tools and machines, seeds and plants</td>
<td>FC: Public subsidies</td>
</tr>
<tr>
<td></td>
<td></td>
<td>What: Enjoying natural landscape for scenic beauty</td>
<td>Anthropogenic assets</td>
<td>MC: None</td>
<td>FC: None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Institution &amp; governance</td>
<td></td>
<td>SC: None</td>
<td></td>
</tr>
</tbody>
</table>

**Sense of place** (supporting identity)

- **R**: Regulations and policies
- **A**: Administration and management
- **H**: Human behavior and actions

**Nature experiences** (physical and psychological+ Learning & inspiration)

- **R**: Regulations and policies
- **A**: Administration and management
- **H**: Human behavior and actions
<table>
<thead>
<tr>
<th>Institution &amp; governance</th>
<th>None</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulation of freshwater</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>A</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Regulation of air quality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>A</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Soil maintenance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>A</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

What: Drinking for animals
Anthropogenic assets
MC: Pipe and tools
FC: Equity of farmer
HC: Knowledge and skills
Institution & governance
SC: Rules on water withdrawal, allocation and consumption
None

Soil maintenance
Not intentional
None
None
None

Regulation of freshwater
Not intentional
None
None
None

Regulation of air quality
Landscape
None
None
None

Soil maintenance
Not intentional
None
None
None