**Appendix 3. Literature review**

*Literature review relevant for the analysis of the historical trajectory of the PB-CES*

**Table A3.1** Literature review regarding historical interconnections and relations within and between our thematic dimensions of (1) classical music, (2) violin and bow making, (3) the natural environment, and (4) socio-political and economic contexts considering the scale of the Mata Atlântica biome, Europe and globally

<table>
<thead>
<tr>
<th>Type of literature</th>
<th>Description</th>
<th>Key words</th>
</tr>
</thead>
<tbody>
<tr>
<td>Musicological literature</td>
<td>Developments in composition (e.g., complexity and virtuosity); ensemble types and sizes; instruments used; type, size, and location of concerts; spreading of performances and new compositions of classical music in and outside of Europe between 1500 and present day.</td>
<td>Violin bow, baroque bow, musical instruments</td>
</tr>
<tr>
<td>Violin and bow making specialist literature</td>
<td>Temporal developments in professions of musical instrument manufacturing (e.g., bow making as a separate profession); material choice of musical instruments; changes in financial value and appreciation of musical instrument bows; standardization of construction methods; change of size of musical instruments, and corresponding changes in the development of classical music.</td>
<td>Raw materials, specification on material choice, changes baroque instruments to modern musical instruments</td>
</tr>
<tr>
<td>Archived historical records</td>
<td>Accounts of historic bow making manufactories in Markneukirchen, Mittenwald, Mirecourt, and Paris representing the main historical string instrument crafting centers; reports of German craft guilds regarding trade data of raw material and finished instruments with material specification.</td>
<td>Lists of ordered materials, list of constructed bows per material and origin of materials</td>
</tr>
<tr>
<td>Bow and violin making journals</td>
<td>Representation of the reactions of violin and bow makers on the threat of pau-brasil and its listing in the CITES Appendix II.</td>
<td>Journals: The Strad, Double Bassist, Das Orchester</td>
</tr>
<tr>
<td>Wood anatomy, dendrochronology, material science</td>
<td>Alternative materials for pau-brasil, criteria for material choices for making bows of string instruments, comparison of wood quality from wild populations and plantations of pau-brasil.</td>
<td>Alternative wood species, acoustical characteristics of pau-brasil, wood from plantations</td>
</tr>
<tr>
<td>Natural sciences (forestry, biology,</td>
<td>Mata Atlântica biome: changes in forest distribution and loss in relation to economic and</td>
<td>Natural distribution of</td>
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</tbody>
</table>
agriculture, environmental sciences) political changes, current distribution of pau-brasil, state-of-the-art of native tree species and pau-brasil plantations within the Mata Atlântica and on the natural distribution of pau-brasil. pau-brasil, range map of *Paubrasilia echinata*, pau-brasil plantations, pau-brasil population trend

Literature historical sciences Political power structures over time (e.g., conquest and colonialization, Brazilian independence, Portuguese monopoly on pau-brasil), economic aspects of pau-brasil (trade routes, pau-brasil trade, economic relevance, and changes of use from dye to bows). Pau-brasil trade, Monopoly on pau-brasil, pau-brasil economic value

CITES trade data Worldwide registered legal trade data of pau-brasil (2007-2020). *Paubrasilia echinata*

**Literature review relevant for the social and power relations analysis**

**Table A3.2** Literature review regarding the Nature’s Contribution to People (NCPs)/Ecosystem Services (ESs) of pau-brasil (see details Appendix 6, Table A6.1) and indicating sources for social interconnections and influences of social actors on policy decisions and the management of NCP/ES of pau-brasil in the Mata Atlântica region, Europe and globally.

<table>
<thead>
<tr>
<th>Type of literature</th>
<th>Description</th>
<th>Key words</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharmacy literature</td>
<td>Search for pharmaceutical use of pau-brasil, healing effects or compounds that are of medicinal interest.</td>
<td>Pau-brasil / <em>Paubrasilia echinata</em> and pharmaceutical use, medicinal effects of pau-brasil / <em>Paubrasilia echinata</em></td>
</tr>
<tr>
<td>Taxonomy and ecology literature</td>
<td>Search regarding the effects of pau-brasil on soil, its habitat, and/or other organisms.</td>
<td>Nitrogen fixation <em>Paubrasilia echinata</em>, <em>Paubrasilia echinata</em> and soil</td>
</tr>
<tr>
<td>Anthropology literature and literature on cultural heritage</td>
<td>Search for non-material NCPs described in the literature.</td>
<td>Pau-brasil and identity, pau-brasil and inspiration, pau-brasil and sense of place</td>
</tr>
<tr>
<td>Scientific literature in general</td>
<td>General relevance of research on pau-brasil and of pau-brasil for educational reasons.</td>
<td>Publications found with Scopus with the search string: &quot;Caesalpinia echinata&quot; OR &quot;brazilwood&quot; OR &quot;pau-brasil&quot; OR &quot;pernambuco wood&quot; OR &quot;Paubrasilia echinata&quot;: 205</td>
</tr>
<tr>
<td>CITES meeting reports</td>
<td>List of participants and their contributions as an indicator for social interconnections and influence on policy decisions (Appendix 6).</td>
<td>Participants, violin maker, bow maker, environmental NGO, environmental agencies</td>
</tr>
</tbody>
</table>