

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

Type of literature	Description	Key words
Musicological literature	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.	Violin bow, baroque bow, musical instruments
Violin and bow making specialist literature	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.	Raw materials, specification on material choice, changes baroque instruments to modern musical instruments
Archived historical records	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.	Lists of ordered materials, list of constructed bows per material and origin of materials
Bow and violin making journals	Representation of the reactions of violin and bow makers on the threat of pau-brasil and its listing in the CITES Appendix II.	Journals: The Strad, Double Bassist, Das Orchester
Wood anatomy, dendrochronology, material science	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.	Alternative wood species, acoustical characteristics of pau-brasil, wood from plantations
Natural sciences (forestry, biology,	Mata Atlântica biome: changes in forest distribution and loss in relation to economic and	Natural distribution of

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 <i>Paubrasilia echinata</i> , 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).	<i>Paubrasilia echinata</i>

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.

Type of literature	Description	Key words
Pharmacy literature	Search for pharmaceutical use of pau-brasil, healing effects or compounds that are of medicinal interest.	Pau-brasil / <i>Paubrasilia echinata</i> and pharmaceutical use, medicinal effects of pau-brasil / <i>Paubrasilia echinata</i>
Taxonomy and ecology literature	Search regarding the effects of pau-brasil on soil, its habitat, and/or other organisms.	Nitrogen fixation <i>Paubrasilia echinata</i> , <i>Paubrasilia echinata</i> and soil
Anthropology literature and literature on cultural heritage	Search for non-material NCPs described in the literature.	Pau-brasil and identity, pau-brasil and inspiration, pau-brasil and sense of place
Scientific literature in general	General relevance of research on pau-brasil and of pau-brasil for educational reasons.	Publications found with Scopus with the search string: " <i>Caesalpinia echinata</i> " OR "brazilwood" OR "pau-brasil" OR "pernambuco wood" OR " <i>Paubrasilia echinata</i> ": 205

CITES meeting reports	List of participants and their contributions as an indicator for social interconnections and influence on policy decisions (Appendix 6).	Participants, violin maker, bow maker, environmental NGO, environmental agencies
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