

Compilation of Results from Field Consultations

on the International Standard for Sustainable Wild Collection of Medicinal and Aromatic Plants (ISSC-MAP), Draft #2

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Introductory remarks

This compilation is based on the general evaluation of ISSC-MAP provided as documents “R2”. The extensive and detailed analysis on indicator level of form “R1” has only partly been considered where general conclusions had been taken or recommendations given.

The objective of this document is to provide an overview of the general perception and potential for implementation by practitioners. By this, common views and recommendations on the standard as a whole, the process of its development, and the next steps to its applicability on the ground, shall be made visible and understandable.

Choices had to be made what statements to include, whether to characterize them as ‘findings’, ‘assumptions’, or ‘recommendations’, and which parts of them to highlight and possibly summarize in the small overview sections. These are provided only for those issues where detailed information or common findings and recommendations have been listed on the project/site level.

In order to reflect the number of more or less similar statements made on the project/site levels, a numbers of asterisks (= ★) has been assigned to the items in the overview sections. Where an asterisk is put into brackets, the view was seen to be implicit in one of the projects’ statements, though not explicitly stated.

Finally, comments of Advisory Group member that had been provided during the consultation earlier this year have been included where appropriate. These comments are marked by a preceding pen symbol (✍), an italic font (*Times*), and are shown below the project/site specific evaluation.

Part I: Information on projects or sites and field testing methodology

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
A Project context					
1. Site description					
a) Project / site name	Andelić d.o.o.	Medicina da Mata (MdaM) – 'Iracambi Forest Medicine', previously called the Iracambi Medicinal Plants project (IMP)	Wanglang National Nature Reserve & Baima State Forest	Asociación Agro-artesanal de Productores de Plantas Secas Medicinales del Ecuador (AAPPSME) – Agro-artesanal Association of Producers of Dried Medicinal Plants of Ecuador	Sustainably Harvested Devil's Claw (SHDC) Project
b) Location	<i>Town:</i> Trebinje <i>Collection area:</i> surroundings of Trebinje	<i>Community:</i> Rosário da Limeira <i>State:</i> Minas Gerais <i>Country:</i> Brazil	<i>Township:</i> Baima <i>County:</i> Pingwu <i>Province:</i> Sichuan <i>Country:</i> China	Chuquiribamba <i>Province:</i> Loja <i>Country:</i> Ecuador	<i>Region:</i> Omaheke <i>Country:</i> Namibia
c) Ownership	Findings: • Most of the collection activities take place on <u>public</u> ground = ★★ ★				
	<ul style="list-style-type: none"> The company Andelić d.o.o. is privately owned by Mr Radovan Andelić. The collection area is mostly <u>state</u>-owned. 	<ul style="list-style-type: none"> The project is coordinated by <i>Amigos de Iracambi</i>, a non-profit organisation, forming one of 3 organisational units of Iracambi. Almost all land is <u>privately</u> owned 	<u>State</u> -owned	<ul style="list-style-type: none"> The project covers 4 communities with 14 hamlets. Ownership of collection sites not stated 	The land on which the SHDC project operates is owned by the Namibian <u>government</u>
d) Protection status	Findings: Issues involved are • a national <u>nature reserve</u> = ★ • a <u>protected plant species</u> = ★				
	–	–	Nature reserve (one of 32 nature reserves set aside to protect the habitat of the Giant Panda)	–	Devil's claw in Namibia was listed in 1977 as a protected species. It is also protected through similar legislation in both Botswana and South Africa.
e) Vegetation	Findings: • Prevailing (natural) vegetation is <u>forest</u> = ★★ ★★ ... • <u>Over-exploitation</u> of MAP target species and degradation of habitats in the <u>collection area</u> = ★★ ★				
	Current: Non-cultivated land covered by a bushy vegetation of different	Atlantic rain forest	Forest	[Forest] – not stated	Partially degraded Kalahari woodland and shrubland Semi-arid environment

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	density, coverage and height depending on exposition and use, ranging from very open vegetation with herbs and only small shrubs, to coppice like forests Climax: Submediterranean deciduous mixed forest				Extensive grazing with symptoms of overgrazing
f) Special features	Findings: <ul style="list-style-type: none"> • Cultivation is involved (performed or planned) in a number of cases = ★★★ • Organic certification is obtained or strived for = ★★★ 				
	<ul style="list-style-type: none"> • The company is planning to cultivate MAP species, in particular <i>Helichrysum italicum</i> • Organic certification is obtained for target MAP 	<ul style="list-style-type: none"> • Project includes the mechanism of enrichment planting (growing plants in a nursery and replanting them into their natural environment), and is not purely using wild stock • Largely based on volunteers 	–	<ul style="list-style-type: none"> • Only two of the 28 species are collected primarily from the wild, the others are cultivated in small home gardens. (Attempts are being made to bring into cultivation also the two remaining species, <i>cucharillo</i> and <i>cola de caballo</i>.) • 21 of the 28 species used for Horchata are non-native 	<ul style="list-style-type: none"> • The devil's claw is certified "Organic" by the Soil Association (UK)
2. Activities					
a) Major objectives	Findings: <ul style="list-style-type: none"> • Facilitate and increase production and trade of selected MAP species or derived products = ★★★ • Capacity building, training and benefit sharing = ★★ • Research on sustainable harvesting practices = ★ 				
	<ul style="list-style-type: none"> • To increase quality of product (essential oil of <i>Helichrysum italicum</i>) • To ensure long term availability of resource 	<ul style="list-style-type: none"> • Make conservation and sustainable use of the rainforest more attractive than its destruction • Generate forest-based benefits and/or income for local farmers and thus contribute to the conservation of the forest and preventing its progressing destruction. • Research on the 	<ul style="list-style-type: none"> • Field test was carried out by projecting key issues on the settings of a national nature reserve and state forest area. No stand-alone major objectives can be stated nor an overall approach to the sourcing of MAP. The consultation team, however, seemed to favour the idea of 	<ul style="list-style-type: none"> • Facilitate the production of and trade in the so-called 'Horchata de Loja', a traditional beverage mostly prepared as tea • Currently, one of the main aims of AAPP SME is to increase its volume of production, standardise it in order to improve product quality, 	<ul style="list-style-type: none"> • To enable more marginalised rural communities to improve their household food security through earning a reasonable income from the sale of sustainably harvested devil's claw. • To equip harvester groups to manage and utilise their resource

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	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
		<p>sustainable development of indigenous medicinal plant species</p> <ul style="list-style-type: none"> • <i>Medicina da Mata</i> aims at becoming a pilot project for the sustainable use of MAP in the region and strives, at a second stage, for replication of this model throughout the region. 	<p>identifying MAP priority or 'flagship' species (e.g. by the TOP 50 approach) and involving policy measures for the purpose of conservation and sustainable use.</p>	<p>and strengthen its presence on the Horchata market.</p> <ul style="list-style-type: none"> • AAPPSME plans to increase the volume of trade on the international market by entering the European market. For this purpose, organic certification will have to be achieved. 	<p>independently on a sustainable basis and to facilitate their direct involvement in the trade by establishing a reliable market for their production.</p> <ul style="list-style-type: none"> • To build their own capacity to manage their harvesting and trade, both in the form of organisational support and with such simple physical things such as scales, record books, knives', drying frames and bags. • To further demonstrate, on a scale large enough to be significant in the overall market, the viability of a fair trade in sustainably harvested devil's claw.
b) Involved parties	<ul style="list-style-type: none"> • 1 collecting manager, working on commission basis • 3 employees • 40 families are involved in the collecting activities. 	<ul style="list-style-type: none"> • Project manager • Nursery assistant • Several consultants • Farmers • Volunteers 			
c) MAP use	<p>Findings:</p> <ul style="list-style-type: none"> • Focus on one or two main species = ★★★ • Variety of other target species collected = ★★★ • Endemic species or monotypic families and genera involved = ★★ 				
	<ul style="list-style-type: none"> • 41 different herbs and 14 essential oils depending on demand. • The main products are Helichrysum italicum oil, Juniperus oil, Sage oil, Laurel leaves, Montane Savory leaves and oil, and Chaste tree oil 	<p>[Annex L, not available]</p> <ul style="list-style-type: none"> • 60% endemic species [according to presentation at Vilm, 2004] 	<p>Protected area staff estimated that c. 1 ton of medicinal plants were illegally harvested annually, with up to 5-6 tons in some years. Amongst these are the high value species:</p> <ul style="list-style-type: none"> • <i>Fritillaria cirrhosa</i> • <i>Heracleum</i> species 	<ul style="list-style-type: none"> • Focus on the production of <i>Horchata</i> and the sourcing of all 28 different medicinal plant species required for production • Collected from the wild are only the two species 'cucharillo' and 'cola de 	<ul style="list-style-type: none"> • Devil's claw is a plant that grows mainly in the Kalahari sands of Namibia, Botswana, South Africa and Angola, and, to a lesser extent, in Zambia, Zimbabwe and Mozambique. • It is widely accepted that

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			<ul style="list-style-type: none"> • <i>Rheum</i> species • <i>Notopterygium incisum</i> • <i>Saussurea</i> species • <i>Cordyceps sinensis</i> (caterpillar fungus) 	caballo’.	the indigenous inhabitants of southern Africa, mainly the San, discovered the medicinal properties of devil’s claw
3. Socio-economic situation	Findings: <ul style="list-style-type: none"> • Poverty amongst the local population and collectors = ★★★... • Rely of collectors on wild collection as a primary (sole) or additional cash income = ★★★... 				
	<ul style="list-style-type: none"> • Currently the Trebinje region as well as BiH as a whole is facing immense problems due to <ul style="list-style-type: none"> – the recent war, – the many refugees, – mine fields, – high rate of unemployment; and – poverty of a great part of the population. • MAP collection is additional income 	–	<ul style="list-style-type: none"> • The current trade is part of an informal trade sector with a very long history, but one which is not formalised or certified in any form. • A number of key factors is proposed to be taken into account in planning for medicinal plant conservation in China over the next 8-12 years: <ul style="list-style-type: none"> <u>Demand</u> factors <ul style="list-style-type: none"> – Continued importance of Traditional Chinese Medicine (TCM) to Chinese consumers worldwide – China’s aging population – Rapid increase in buying power – Strong government support for modernization of TCM – Large and growing export market for TCM <u>Supply</u> factors <ul style="list-style-type: none"> – Declining species populations – Habitat loss 	–	<ul style="list-style-type: none"> • The first major commercial exports of devil’s claw began in the 1960s, although export figures are only available from 1977 when the resource began to be regulated. • Since the early 1990s, the international market demand has steadily increased, with total exports from Namibia, Botswana, and South Africa reaching a peak of nearly 1100 tonnes in 2002. • Namibia is responsible for 95% of the supply of devil’s claw. • Thousands of harvesters and their families from Namibia, Botswana, and South Africa rely on wild collection as a primary or sole cash income, the exact number of harvesters is not known but estimates have put this figure in the region of 10 000. • Harvesters often represent the very poorest sections of society, who eke out a

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					<p>living under the most marginal of agricultural and socio-economic conditions.</p> <ul style="list-style-type: none"> • Despite mounting evidence to suggest that improved benefit sharing for harvesters makes a significant contribution to improved resource management and hence conservation at a local level, harvesters receive only 1% to 2% of the value of the trade.

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B Methodology					
1. Consultation methods and sources of information	<ul style="list-style-type: none"> Interviews with the relevant stakeholders [see below] one-day-lasting workshop compilation of BiH laws and regulations 	<ul style="list-style-type: none"> Both formal and informal interviews were carried out with all relevant stakeholders [see below] Interviews did not follow a strict methodology, owing to the different mentalities, living spaces, experiences and environments of the interview partners. 	<p>The overall structure of the fieldwork was to follow a supply chain from regional markets back to 1st and 2nd order traders.</p> <ul style="list-style-type: none"> Interviews with individuals Discussions with small groups Information from maps, published sources and original analysis from secondary data 	<ul style="list-style-type: none"> Visits to collection sites, trade centres, main collection point and company facilities at Chuquiribamba. Meetings with outside organisations that have worked with the project or are involved in MAP collection. Interviews did not follow a strict methodology, owing to the different mentalities, living spaces, experiences and environments of the interview partners. 	<ul style="list-style-type: none"> This survey was conducted on two of the seventeen resettlement farms that comprise the SHDC project.
2. Consulted stakeholders	<ul style="list-style-type: none"> Radovan Andjelic, the manager of the enterprise collectors in the collecting area collectors at their homes collecting manager Head of Forestry Administration in Trebinje 	<ul style="list-style-type: none"> Local communities Iracambi project managers Co-ordinators and directors Volunteers Local authorities Company representatives 	<ul style="list-style-type: none"> Herbalists MAP harvesters Traders (1st and 2nd order middlemen) Nature reserve and forestry staff Governor of Baima Township 	<ul style="list-style-type: none"> Interviews were carried out with representatives from <ul style="list-style-type: none"> AAPPSME (collectors, managers, scientists, and office workers) CORPEI EcoCiencia and FundaTierra, 	<ul style="list-style-type: none"> The following individuals and groups were interviewed: <ul style="list-style-type: none"> Harvester and community representatives Key individual respondents
3. Experienced difficulties	<ul style="list-style-type: none"> Most people interviewed had no knowledge of ISSC-MAP Only few people interviewed could speak sufficient English → made translation necessary Necessity of preparing an appropriate questionnaire (checklist) Question of compliance (percentage, musts, etc.) 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none">

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4. Reliability of information	Findings: • Information obtained was perceived as mostly reliable with variations at the interview level = ★★★★★				
	<ul style="list-style-type: none"> In general, the talks, respectively interviews, had been very open, fair-minded and happened in a friendly, benevolently atmosphere. 	<ul style="list-style-type: none"> Most information provided during the interviews can be considered as reliable, as all interview partners were openly talking about topics addressed. Limits to information reliability were set by <ul style="list-style-type: none"> – the project structure – a tendency for group opinions. 	<ul style="list-style-type: none"> [Differing at the interview level] 	<ul style="list-style-type: none"> Most information obtained during these interviews is considered as reliable. 	<ul style="list-style-type: none"> All SHDC project stakeholders interviewed provided informed inputs.

Part II: Evaluation of ISSC-MAP approach, structure, and components

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
A General approach					
1. Overall concept	<p>Findings: • Species-specific approach and the focus on population biology seen as is too complex, demanding, and costly to result in a usable standard = ★</p> <p>Recommendations: • Develop a standard and guidance document for the development of a Management Plan for the sustainable wild collection of MAP = ★</p> <p>• Standard needs to be simple to be implemented and linked to benefits = ★</p>				
	-	<p><u>Findings</u></p> <ul style="list-style-type: none"> ISSC-MAP provides a 'certification checklist' rather than a guidance on how to establish adequate management structures appropriately in order to develop and run a sustainable MAP sourcing and trade operation. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> It is suggested not to develop an international MAP sustainability standard, but a standard and guidance document for the development of a Management Plan for the sustainable wild collection of MAP This could be achieved by developing a substantial annex, in which real-life examples of agreements, development, establishment and/or documentation of procedures are given. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> The species-specific approach and the focus on population biology is too complex and not consistent with the high diversity of life forms that comprise medicinal plants → in its current form, ISSC-MAP is unusable. 	-	<p><u>Findings</u></p> <ul style="list-style-type: none"> In general it appears that the proposed ISSC-MAP is relevant and could have a positive impact on sustainability. However, it appears that standards need to be simple to be implemented and linked to benefits, as they are unlikely to be meaningful if this is not the case.

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
2. Scope	<p>Recommendations:</p> <ul style="list-style-type: none"> • Expand scope to include sourcing MAP material from cultivation (of native species) as this would increase its relevance for agro-forestry ecosystems • Link or include others in the supply chain (e.g., importers, manufacturers and distributors) as this is critical to facilitate and allow benefit sharing to take place 				
		<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • The question was brought up, if the ISSC-MAP could not expand its scope and also address cultivation (of native species) as this would increase its relevance for agro-forestry ecosystems which are found throughout Brazil, and the MAPs produced in such systems. • To avoid misunderstandings, it would be helpful if a statement could be added at some point (beginning of the document ?) clarifying that the ISSC-MAP does not only refer to forest ecosystems and not only to primary ecosystems, but covers all natural and semi-natural ecosystems [Remark: such a statement already exists under "1.5 Scope and application"] 	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Plant material from cultivation and wild collection are mixed and used and integrated into ONE product (Horchata). • The majority of the medicinal plant material used by AAPPSME is sourced from cultivation and efforts are being made to bring the remaining two species into cultivation as well. • The distinction between cultivated goods and wild collection is not consequently applied. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • It is therefore suggested by the operation to widen the scope of the ISSC-MAP to include sourcing MAP material both from wild collection as well as from cultivation. • The standard, or its supportive documents, should make it clear what it applies to, and offer a definition of "wild" and "cultivated". 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Does not link or include others in the supply chain (e.g., importers, manufacturers and distributors). This is critical to facilitate and allow benefit sharing to take place. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Poverty and sustainability are inextricably linked and unless the issues of poverty are addressed, through, for example, the realisation of "real" benefits or options to primary producers, sustainability will always remain problematic.
	<p><i>Two respondents recommended alternate wording of the objective to emphasize local and community stakeholders, and the role of government policy, law, and regulations in implementing the standard. Numerous comments on other aspects of the standard, particularly those concerning scope and application, propose a shift or narrowing of the focus of the standard, which, if accepted,</i></p>				

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	<p><i>should be reflected in the statement of mission and objective.</i></p> <ul style="list-style-type: none"> <i>✎ Reviewers who commented on the scope of the standard were satisfied with the inclusion of socio-economic and cultural principles and criteria (e.g., fair trade, equity), in addition to biological principles and criteria.</i> <i>✎ One respondent suggested that addressing sustainability, fair-trade, and product quality in a single standard makes the ISSC-MAP “more realistic from an industry perspective”.</i> <i>✎ One respondent proposed that cultivated habitats should not be excluded as important for sustainable wild collection of MAP species.</i> <i>✎ Other respondents indicated specific components of the standard that they consider beyond the scope of the ISSC-MAP (e.g., criterion 8.3.4, limiting conversion of forest to MAP plantations).</i> 				

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3. Target audience	<p>Findings: • It has been perceived as problematical that the target audience of the ISSC-MAP is not defined. Therefore, statements on appropriate language and related issues are difficult. = ★★★</p> <p>Recommendations: • As a minimum, the document should be designed in a way so that it is understandable and accessible for project managers. = ★</p>				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> Essential question in the context of target group for standard use/implementation 	<p><u>Findings</u></p> <ul style="list-style-type: none"> As the target audience of the ISSC-MAP is not yet clear, statements on language and related issues are difficult. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> The document should be understandable and accessible for project managers. The project manager stated that the collectors / producers should be the target audience. 	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> It was felt to be a weak point of the ISSC-MAP that there was no decision made on how the standard should be implemented in the end and which target audience it consequently would address 	
	<p><i>Several respondents proposed that the most important application of a standard for sustainable wild collection of MAP is to small-scale collectors' organizations and community-based enterprises.</i></p> <p><i>These respondents feel that the current draft standard will not promote involvement of collectors / local communities, but instead will give an advantage to large-scale commercial enterprises.</i></p> <p><i>At least two respondents suggest that an adaptive management approach and a precautionary approach are contradictory, and that recommending a precautionary approach will be unfair to smaller collectors' groups and enterprises who can least afford the delays and costs of gathering sufficient documentation and field-based information in advance of collection activities.</i></p> <p><i>Two respondents suggest that the formation of or support for collectors' organizations is central to the successful implementation of the ISSC-MAP.</i></p> <p><i>One respondent suggests that the information requirements in the current draft standard will favour its application to species that are already well known in the marketplace over those that are little known, and that as a result, species from the Old World (Asia, Africa) will be favoured over New World (esp. Latin American) species of MAP, which are less well studied.</i></p> <p><i>Other unintended (perverse impacts/outcomes were identified: e.g., under Principle 2, customary rights may be interpreted to exclude local access for commercial production where only subsistence use has previously existed.</i></p> <p><i>Several respondents pointed out confusion about whether the standard will be applied to individual collectors, to organizations and enterprises, to the agency/entity with resource management responsibility, or to the area under resource management.</i></p> <p><i>Application of the ISSC-MAP in different regions of the world will require different implementation strategies (see 3.4 below). For example:</i></p> <ul style="list-style-type: none"> <i>– In South Asia, working through government forest management units and coordinating with existing management plans;</i> <i>– In Latin America, working through country participation (e.g., national strategies, legislation, regulation) in international conventions, such as the CBD and CITES.</i> 				

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4. <i>Process and participation</i>	<p>Findings:</p> <ul style="list-style-type: none"> • ISSC-MAP process and participation is perceived as rather selective and lacks participation of local communities. = ★★★ • A process for local adaptation of the ISSC-MAP is needed. This process should maintain the integrity of the international standard. =★★ 				
		<p><u>Findings</u></p> <ul style="list-style-type: none"> • ISSC-MAP process and its design is perceived as rather selective and seems to be based on a relatively small international group without strong participation of local communities. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • ISSC-MAP implementation should be an adaptive process taking local realities into account • Include local communities in the process from the very beginning • Indicators may be developed by the communities themselves, who carry out the MAP collection.. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Local communities and villagers often lack the capacity, financial resources and local institutions to be actively involved in the implementation of the ISSC-MAP process, so are unlikely to share in the benefits. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The participants are confused and sceptical about the various visitors they have in regards to ISSC-MAP, they are worried that their objectives are not taken into account. • One of the many challenges standards for “sustainable” production face is the need to have an international dimension and a local adaptation. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • The ISSC-MAP initiative should consider the development of a governance system that creates buy-in from the different stakeholders (current and future) of the initiative. • A process for local adaptation of the ISSC-MAP is needed. This process should maintain the integrity of the international standard. 	

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B Structure and format					
<p><i>Ten respondents commented generally on the structure, format, and language of the 2nd draft standard. Four respondents found the current draft well organized, logical, and comprehensive. However, six respondents felt that the current draft is difficult to read, the structure too complicated, the language too technical for intended users (“intimidating”, not “field-friendly”), some of the content impractical for implementation, and the format too long. Two respondents in particular advocated a “more generic, less bureaucratic” document, or a “minimum required / maximum desired” set of standards”. These general comments were supported by specific comments on the standard components.</i></p>					
1. Structure	<p>Recommendations:</p> <ul style="list-style-type: none"> • Various re-organisations were proposed in detail to increase the user-friendliness of the document, either by – a stronger graphic presentation = ★ – division into thematic areas = ★ 				
	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Some found the structure mostly clear and convincing, others more confusing and difficult to understand • Grouping of principles in sections helpful and should be kept. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Add a book-marking system (e.g. a set of take-out adhesive book-marks or a thumb-index) • Re-develop the graphic representation (including colours), which had been initially set up at Vilm • Repeat the respective headlines (principles, criteria, possibly indicator) on every new page, to provide an immediate orientation • Introduce a page break between the principles • Table 2 should be used as a table of content, completed by a page 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Good to have a well structured form ... <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • ...but better if it were shorter with simpler indicators and verifiers 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The overall structure is problematic. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Some comprehensiveness can be sacrificed to achieve more efficiency by eliminating or combining certain indicators. • The indicators should cover general areas that can be applied to specific context, instead of trying to anticipate every possible deviation. • The overall structure can be improved by dividing the document up into thematic areas such as: <ol style="list-style-type: none"> 1. Legality (P 1 & 10) 2. Social issues (P 2&3) 	–

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		index. Display the whole set of levels covered in the document (section, principle, criterion, indicator)			
	<p><i>✎ Reduce the introductory sections to 1-2 pages; treat the standard itself (currently annex III) as the main text.</i></p> <p><i>✎ Provide current introductory text as a separate background document.</i></p> <p><i>✎ Reformat text of the standard (annex 3) in vertical pages, including only the principles and criteria.</i></p> <p><i>✎ Place remaining components (indicators, verifiers / types of verification, and other guidance) in a supplementary text or explanatory guide.</i></p> <p><i>✎ Reduce length and overlap between components by combining or eliminating components (many specific proposals).</i></p>				

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2. Language	<p>Findings: • Language <u>too complicated</u> = ★★★★★</p> <p>Recommendations: • <u>Translate</u> into local languages before application in the field = ★★★★★</p> <p>• <u>Simplify the language by making shorter sentences and allowing multi-sentence provisions at the indicator level</u> = ★★</p>				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> Language too complicated 	<p><u>Findings</u></p> <ul style="list-style-type: none"> Concern about the length, level of complexity and the highly technical nature of the language used in the document. Perceived as too technical and too difficult and laborious to read by all who are no specific experts in certification or formal language. It would have been a good idea to have the text translated into the local language (Portuguese, Graminhense), beforehand, in order to go more profoundly into the wording. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> Alternatively, it may be possible to keep the technical level of language, if the graphic representation of the document was improved (clear and transparent table of content in beginning, framework and colours for identification used throughout the document) 	<p><u>Findings</u></p> <ul style="list-style-type: none"> Many phrases would be difficult for people to understand including almost all aspects of the issues (wild collection, resource management, social and cultural context, legal and ethical aspects). 	<p><u>Findings</u></p> <ul style="list-style-type: none"> All interview partners expressed the opinion that the language of many provisions (especially at the indicator and verifier levels) is too complicated, wordy and repetitive, too technical and overly cumbersome to use in an effective manner. The language of ISSC-MAP makes the standard neither easy to use directly for certification nor for legislation. It was considered important to have the document available in Spanish language, so that it can be generally read and understood. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> It has been suggested to simplify the language by making shorter sentences and allowing multi-sentence provisions at the indicator level It was suggested to take the standards of the Rainforest Alliance as a model for making the language more easily understandable. 	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> Consideration needs to be given to simplifying the ISSC-MAP to make them more user-friendly for poor rural communities who have not had access to good educational opportunities. This could be achieved, e.g., by <ul style="list-style-type: none"> simplifying the language used, translating the ISSC-MAP into local vernaculars
	<p><i>Numerous suggestions concerning restructuring – to reduce repetition, or expressing a different sense of priority relationships between elements of the standard (e.g., a proposal to combine Section III – collection practices and environmental impact / conservation measures – with Section II – principles on assessment, management planning, and monitoring – to create one section on</i></p>				

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	<p><i>sustainable resource management).</i></p> <p>✎ <i>Numerous comments point out unclear intent or confusing terminology.</i></p> <p>✎ <i>Proposals to simplify some parameters by providing simple rules (e.g., 7.4.1 – rate of production > rate of extraction; only vegetative parts can be collected; etc.)</i></p>				
3. Acronyms	–	<p><u>Recommendations</u></p> <p>The list of abbreviations should be expanded and include ALL abbreviations used throughout the standard, including the introduction.</p>	–	–	–
	<p>✎ <i>Two respondents proposed that the name of the standard should be changed or altered to be more user-friendly (i.e., not an acronym), include the word “wild”, and replace “collection” with “sourcing”.</i></p>				
4. Glossary	–	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Include <ul style="list-style-type: none"> – “vigour” – “sensitive taxa” • Make cross-references to the glossary in the text of the standard as an additional service to the reader 	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Include <ul style="list-style-type: none"> – “tenure” (and types of land and resource tenure) – “precautionary” – “chain of custody” – “supply limitations” 	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Offer definitions of <ul style="list-style-type: none"> – “wild” – “cultivated” 	–
	<p>✎ <i>There were numerous proposed corrections and additions to the glossary. Several respondents suggested that the term “botanicals” and its definition be removed.</i></p> <p>✎ <i>Several respondents mentioned relevant additional references or examples.</i></p>				

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C Components					
	<p><i>✎ For some components, a clear majority of respondents propose a similar action (e.g., to delete). For other components, there are contradictory and more-or-less equal actions proposed.</i></p> <p><i>✎ Four of the seven respondents who commented generally on the structure of the standard itself (Annex III) found it clear and well organized.</i></p> <p><i>✎ One respondent found the component definitions in Table 1 of the 2nd draft document confusing, and offered suggestions to clarify these definitions.</i></p> <p><i>✎ Some criteria, in particular, should be reworded to include a performance aspect or measure.</i></p> <p><i>✎ A clearer sorting and separation between indicator and verifier components is needed.</i></p>				
1. Comprehensiveness, precision and rigidity					
a) Comprehensiveness	<p>Findings: • Content is <u>too complex</u> [for collectors] = ★★★</p> <p>Recommendations: • Include further aspects or elements of importance: = ★</p> <ul style="list-style-type: none"> – Secondary impacts resulting from medicinal plant harvesters using an area – Authenticity of an MAP product (which should include the correct species identification, geographic origin and processing procedures) – Management of pioneer plants – P #5: More detailed advice on the components of the management plan and inclusion of further issues and verifiers (s. below) – P #9: Aspects such as market surveys, assistance of business service providers, etc. 				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Content sometimes too complex • How to deal with a pioneer plant? <ul style="list-style-type: none"> – Helichrysum grows in open, eroded areas with low and patchy vegetation types (garrigue). – Due to natural succession Helichrysum populations are decreasing when the vegetation becomes higher and denser (after ca. 20-30 y). – In this case, the defini- 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Principle #9: Important aspects such as market surveys, assistance of business service providers etc. are missing. 	<p><u>Findings</u></p> <p>In general, the document is too comprehensive; therefore so long it is unworkable. However, some important aspects are <u>not</u> addressed:</p> <ul style="list-style-type: none"> • Secondary impacts resulting from medicinal plant harvesters using an area (e.g. hunting rare animal species, fuelwood use for drying medicinal plants, wood and bark use for shelters for medicinal plant harvesters) are not taken into account • Authenticity of an MAP 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The level of comprehensiveness is adequate; if anything, ISSC-MAP is too comprehensive and could benefit by becoming more concise. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • It is suggested to give considerably more detailed advice on the components of the MP and add further elements of importance: <ul style="list-style-type: none"> – description of the productive system; – guide of regulations; 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • In general, the ISSC-MAP is too complex for SHDC project harvesters who would struggle to understand its requirements and develop appropriate local mechanisms to deal with its implementation without external assistance.

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	tions of what are long-term availability and sustainable yield is difficult. Also monitoring the populations causes problems.		product (which should include the correct species identification, geographic origin and processing procedures for priority species)	<ul style="list-style-type: none"> - manual for collectors; - socio-economic studies; - definition of roles and responsibilities • Examples for additional verifiers could be: <ul style="list-style-type: none"> - Environmental Impact Assessments - Good practices (or policies on good practices) - implementation strategies • One of the most important elements for the operation is the quality of the MAP material. For this reason it is suggested to include this aspect in the ISSC-MAP in more detail, as a separate part (maybe an additional criterion) under the MP principle. 	
b) Precision	-	-	<u>Recommendations</u> Clarification is required of the <ul style="list-style-type: none"> • Expected level of precision • Spatial and time scales (e.g. management plan) 	-	-
c) Rigidity	<p>Findings:</p> <ul style="list-style-type: none"> • Level of detail is problematic especially for smaller projects = ★ • The reality of many projects or collection activities where a management plan does not exist is not sufficiently considered = ★ <p>Recommendations:</p> <ul style="list-style-type: none"> • <i>Reduce the ISSC-MAP requirements by <u>identifying and prioritising the minimum requirements</u> needed to develop maximum sustainable yields schemes</i> = ★★ ★ • <i>Consider an adaptive management approach</i> = ★ • <i>Provide options for compliance with P #4 to #7 in a more general way</i> = ★ • <i>Define minimum requirements</i> = ★ 				
	<u>Findings</u>	<u>Assumptions</u>	<u>Findings</u>	<u>Findings</u>	<u>Recommendations</u>

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	<ul style="list-style-type: none"> The reality of many projects or collection activities where a management plan does not exist is not sufficiently considered. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> Ask in a more general way for compliance with principles #4 to #7. Define minimum requirements to be fulfilled for sustainability of collection 	<ul style="list-style-type: none"> The level of detail of a number of requirements is seen problematic as this could be prohibitive for especially smaller projects, as full compliance requires considerable capacity and funding. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> In order to achieve a higher practicability of the ISSC-MAP without at the same time reducing its effectiveness and without endangering its overall objective, the suggestion has been made to use surrogates, whenever appropriate <ul style="list-style-type: none"> These could be the definition of minimum requirements or concessive provisions, such as 'whenever possible' or 'using a precautionary approach / principle' Some concern was expressed, though, that only clear and at times strict requirements will have an effect on the overall way MAP are sourced and traded. Minimum requirements, which may not reflect the ideal situation (such as a species-specific RRA as a basis to develop a maximum sustainable yields scheme) but are practicable without involving the high costs usually required for scientific analyses, would 	<ul style="list-style-type: none"> ISSC-MAP is too complex in [wording and] technical requirements Entire FSC-centric approach with its rigidity, length, complex language and unattainable data requirements make the draft ISSC-MAP unworkable in China without major revision; for most NTFPs an adaptive management approach needs to be taken. 	<ul style="list-style-type: none"> Users will be looking for loopholes rather than for guidance. 	<ul style="list-style-type: none"> Reduce the ISSC-MAP requirements by identifying and prioritising the minimum requirements needed for the achievement of the desired results.

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		be a welcome tool to achieve acceptable sustainable use models without preventing the development of such schemes due to financial constraints.			
2. Relevance and feasibility	Findings: • There is a considerable <u>overlap</u> between ‘priority’ and ‘problematic’ components				= ★★★
	–	<u>Findings</u> <ul style="list-style-type: none"> • There is a considerable overlap between ‘priority’ and ‘problematic’ components 	–	<u>Findings</u> <ul style="list-style-type: none"> • It is difficult to separate problematic components from priority components, as in some cases components are a priority, because they are problematic in terms of compliance by the operation (e.g. principle #1). 	<u>Findings</u> <ul style="list-style-type: none"> • An assessment of the relevant and problematic components of the ISSC-MAP under this section is difficult as in almost all cases certain aspects of all the Principles can be identified as either relevant or problematic • In addition, a number of the components contain aspects that are crosscutting and both relevant and problematic at the same time.
	<p><i>✎ Some of the proposed deletions reflect particular limitations or concerns related to regional conditions for implementation (e.g., government attitudes toward precaution; absence of government recognition of legal land tenure).</i></p> <p><i>✎ Suggestions to make language more regionally relevant (e.g., inclusion of “tribal” along with “local communities” and “indigenous peoples” for South Asian context)</i></p> <p><i>✎ Numerous questions concerning responsibility for collecting information or carrying out investigations and monitoring needed to verify compliance with criteria (e.g., in many countries there is no formal process in place to identify threatened plant species; who is responsible for undertaking this work in order to apply the relevant criteria in the current draft ISSC-MAP?).</i></p> <p><i>✎ Numerous requests for additional guidance on methods for measuring, assessing, or monitoring parameters associated with the proposed criteria and indicators.</i></p> <p><i>✎ One respondent suggests a greater separation (e.g., with different levels in the hierarchy of components) of “soft” and “hard” criteria, the former defined as “social aspects and benefit transfer” and the latter defined as “technical measures for quality assurance”.</i></p>				
a) Most relevant components	Findings: <ul style="list-style-type: none"> • Principle #1 Indicators 1.2.1 – 1.2.3 • Principle #2 • Principle #3 				= ★★★ = ★ = ★ = ★

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		<ul style="list-style-type: none"> • Principle #4 • Principle #5 • Principle #6 • Principle #7 • Principle #8 • Principle #9 			= ★★★ = ★★★ = ★★★ = ★★★ = ★★★ = ★★★
	<u>Findings</u> <ul style="list-style-type: none"> • RANK 1 <ul style="list-style-type: none"> – 1.2.1 – 1.2.3 compliance with national, international laws and voluntary codes of practice, guidelines etc. • RANK 2 <ul style="list-style-type: none"> – P #7: in general, it includes all relevant questions to understand the manner of wild collection of <i>Helichrysum italicum</i> and the species-specific features (biology, ecology). – P #9 (cross check with organic certification) 	<u>Findings</u> <ul style="list-style-type: none"> • All 10 principles were considered a priority by at least one interview partner. From a project perspective, <ul style="list-style-type: none"> – Principle #1 (highly complex and restrictive legal system in Brazil), – #3 (important to achieve high level of confidence) and – #9 (project focus on product development and market access) were selected as the most important ones, besides the core principles #4-#8. 	–	<u>Findings</u> <ul style="list-style-type: none"> • RANK 1 = P #4 - #8 • RANK 2 = P #2 + #3 • RANK 3 = P #2 • RANK 4 = P #10 • RANK 5 = P #9 	–
b) Most problematic components	Findings:	<ul style="list-style-type: none"> • Principle #1 • Principle #2 <ul style="list-style-type: none"> Criterion 2.4 • Principle #4 • Principle #5 • Principle #6 • Principle #7 • Principle #10 			= ★★★ = ★ = ★ = ★★★ = ★★★ = ★ = ★★ = ★
	<u>Findings</u> <ul style="list-style-type: none"> • As no management plan has been set up by the responsible authority, all principles referring to a management plan are 	<u>Findings</u> <ul style="list-style-type: none"> • Principles 1, 4, 5 and criterion 2.4 were considered as the main problematic components to comply with in view of 	<u>Findings</u> <ul style="list-style-type: none"> • Principle #1 (as collection activities are illegal in the area) • Principle #4 (due to the high cost of fulfilling data) 	<u>Findings</u> <ul style="list-style-type: none"> • Principle #1 has been considered problematic due to the unclear legal situation in Ecuador with respect to many 	–

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	therefore not implementable, especially 5, 6, partly 4, as many of these criteria address the creation / use / implementation of a management plan.	rather limited financial means and under a strict legislation.	requirements for hundreds of species) <ul style="list-style-type: none"> • Principle #5 (as for #4, but in addition due to non-specified spatial and time scales) • Principle #7 (due to lack of knowledge / data) • Principle #10 (not applicable as collectors operate as part of the informal sector) 	questions on the legal framework of the collection of MAPs from the wild. <ul style="list-style-type: none"> • Principle #7 has been highly controversial, with comments ranging from 'excellent' and 'model principle' to 'way too detailed and complicated to comply with', although all interview partners acknowledged that principle 7 is a core component of the standard. • For the operation, one of the most problematic elements of the ISSC-MAP is its limitation to MAP material sourced from the wild, as the majority of the material used by AAPPSME is of cultivated origin. 	

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3. Evaluation on component levels					
a) Principle level	<p>Recommendations:</p> <ul style="list-style-type: none"> • Reduce the number of principles, reorder or regroup them – reorder: 4-5-6-7 → 7-4-6-5 = ★ – group: 3 5 6 (4 moves next to 2) = ★ – combine: 4+5+6+7+8 under principle for management plan = ★★ – collapse all principles into two: I = legislation; II = management plan = ★ 				
	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • In any case, we suggest to re-order principles 4-7 to 7-4-6-5. The latter is the order of the questions we asked during the field test in BiH. 	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • There were several suggestions made to reduce the number of principles or regroup them: <ul style="list-style-type: none"> – group principles 3, 5, and 6 together and make 2 and 4 come next to each other – expand the management plan principle (#5) and include several of the other sourcing principles (#4-8), as many items will be part of the MP – collapse all principles into just two: <ol style="list-style-type: none"> (1) legislation and (2) management plan • Relating to principles #1+2, several different suggestions were made: <ul style="list-style-type: none"> – collapse into one component – retain them – split principle #2 into legal aspects (which would go into principle #1) and in traditional practices (which would go into #4) • Integrate crosscutting issues into the relevant sections they refer to 	–	<p><u>Recommendations</u></p> <ul style="list-style-type: none"> • The main suggestion was to reduce the number of principles and collapse principles #4-8 into one principle (Management Plan), as the MP is felt to be the most crucial part of the standard and of any operation that tries to work in compliance with the standard. 	–

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b) Criterion level	Findings: • <i>Function of this level is difficult to understand and sometimes unclear.</i> = ★★				
	<u>Findings</u> • “Criteria” level is sometimes difficult to understand and confusing.	<u>Findings</u> • The function of this level seems in some cases to be unclear – criteria have been perceived as mere ‘headlines’ without increasing the effectiveness of the implementation of the document and without offering any practical advice – helpful if criteria and adherence to them will be illustrated by guidance and means of verification. • On the other hand, criteria were perceived as helpful, giving structure to the document. Even if some may not be applicable, the level of criteria should be kept.	–	–	–
<p><i>✎ Performance aspects of some criteria need to be added to the way in which they are stated (e.g., 1.1, 1.2).</i></p> <p><i>✎ Numerous proposals to expand or reduce the scope of some criteria (e.g., add “access” to 1.1; “tribal” to most of the criteria under Principle 2, Customary Rights)</i></p>					
c) Indicator level	–	–	–	<u>Findings</u> • The indicators were mostly perceived as clearly structured and cover the most important aspects. • Main point of criticism related to the indicators is the type of language used.	–

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d) Verification level	<p>Findings: • <i>Section ‘Types of verification’ were partly seen as confusing or unnecessarily restrictive</i></p> <p>Recommendations: • <i>Clear statement required if (means and types of) verifiers represent optional lists or if application of ALL listed verifiers is required</i></p> <p>• <i>Avoid repetitions of verifiers in different sections</i></p> <p>• <i>Ensure adequately neutral wording</i></p>				<p>= ★ ★</p> <p>= ★ ★</p> <p>= ★</p> <p>= ★</p>
	-	<p><u>Findings</u></p> <ul style="list-style-type: none"> Different opinions regarding the usefulness of the ‘types of verification’ section <ul style="list-style-type: none"> – positive, as they may help in reducing the amount of required methods to prove verification – negative, as in most cases all four types of verification could be used to prove verification and the most appropriate type of verification is self-evident from the means of verification Verifiers are often repeated in different sections. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> A clear statement should be made in the standard, if the verifiers are an optional list or if they will all have to be fulfilled in order to comply with the related component Helpful to include some guidance on how to select appropriate verifiers, in case they do not all need to be considered. Find a way to avoid a 	-	<p><u>Findings</u></p> <ul style="list-style-type: none"> <u>Means of verification:</u> It is not evident if application of ALL listed verifiers is required in order to prove compliance with a component, or if the appropriate verifier(s) can be selected by the operation <u>Types of verification:</u> These were partly been perceived as confusing. <ul style="list-style-type: none"> – On the one hand, they could be helpful, in order to show in which way compliance with a component should be verified – on the other hand it is unclear if ALL types of verification ticked are obligatory or if they can be chosen by the operation – In addition, it seems to be difficult to exclude any of the four alternative types of verification from the potential verification of almost all indicators, for which reason the overall usefulness of the types of verification may be checked 	-

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		repetition of verifiers in different sections. <ul style="list-style-type: none"> • Delete the verifier 'No evidence of non-compliance' throughout the document • All verifiers should be checked if they are worded adequately neutral 			
	<p><i>✎ Traditional knowledge and rights are difficult to document and verify –more relevant means of verification should be listed and related guidance provided (e.g., verbally transmitted, videotaped, transcribed management rationale, description of adaptive management decisions and actions).</i></p> <p><i>✎ Documentation recommended for verification (e.g. land title, permits) is often out of date, and therefore may not be an adequate indicator of legal land tenure and other criteria.</i></p> <p><i>✎ Numerous suggestions address adding or altering the types of verification described or indicated to be more relevant to real situations.</i></p> <p><i>✎ The notion of “awareness” as a means of verification was questioned: Does it equal “field inspection”? Moreover, does “field inspection” equal consultation and interviews at the collection site?</i></p> <p><i>✎ Eliminating the absence of evidence (“no evidence of...”) as a means of verification was proposed.</i></p>				
e) Guidance level	<p>Findings: • Guidance perceived as generally important and helpful but often provided inadequately or incompletely. = ★★</p>				
	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • All interview partners agreed that the guidance given is in general regarded as very important and helpful to understand what the respective indicator means. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • As the guidance and verifier sections have been perceived as the most practical and user-friendly elements of the document by some, it may be worth considering if it is possible to find a structure in which you 	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The level of guidance was generally perceived as inadequate. Many indicators only give general statements, which can be difficult to translate into practice by the operation, if no further guidance is given and details are provided on how to implement the provisions. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Two main suggestions were made: <ul style="list-style-type: none"> – provisions at the indicator level are more detailed and do include practical 	–

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		can read the document from both ends (starting with the principle or starting with the guidance)		information – the guidance section of all indicators is elaborated and more concrete advice and examples are given • Guidance what factors are most important	
	<p>✍ <i>One respondent proposed that guidance should be provided for all components of the standard (e.g., how to develop a management plan for a MAP wild collection operation), so that the standard can be used as a “how to” manual.</i></p> <p>✍ <i>Two respondents proposed that examples (e.g., of existing MAP sustainable wild collection management plans) be included with other guidance.</i></p> <p>✍ <i>Several respondents identified guidance that will need to be appropriate for different situations (e.g., substitution of plant parts collected, as a measure to reduce collection impacts, will not work in Germany, but may be feasible in other countries).</i></p>				
4. Results by principle					
a) Principle #1	<p>Findings: • Compliance perceived problematic, either due to (unclear) tenure arrangements or unfavourable laws = ★★★</p> <p>Recommendations: • Change title from ‘legitimacy’ to ‘legislation’ = ★</p>				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> Laws in RS are rather or even sufficiently comprehensive but implementation and enforcement is very poor Radovan Anđelić fulfills the requirements of the Trebinje Forestry Administration but not the legal requirements. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> Tenure arrangements seem to be clear in almost all cases, but compliance with all laws and regulations is in theory desirable, but in practical unrealistic as Brazilian legislation relating to the use of natural resources in very complex and rather prohibitive <p><u>Recommendations</u></p> <ul style="list-style-type: none"> The title ‘legitimacy’ is confusing, as it relates more to transparency, whereas in fact the principle basically deals with legislation. Therefore it should be renamed ‘legislation’. <p><u>Resource estimates</u></p> <ul style="list-style-type: none"> Time estimate to achieve compliance: 2-3 years 	<p><u>Findings</u></p> <ul style="list-style-type: none"> No compliance in most cases. Most of the collection takes place in State forests or Nature reserves. In principle, collecting wild plants in these forests is not allowed. Although local people to a large extent still rely on the collection as one of the major source of cash income, harvesting wild plant are generally not encouraged and sometimes forbidden by government. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> As several aspects of principle #1 are not clearly defined within the operation, the consultation team shared the opinion that it is a crucial principle and suggested to have it analysed in more detail for project purposes. 	–

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
b) Principle #2	-	<p><u>Findings</u></p> <ul style="list-style-type: none"> The principle is clearly worded, fully understood and accepted by all. There are no indigenous peoples in the project area, but local communities, to whom the principle applies 	<p><u>Findings</u></p> <ul style="list-style-type: none"> In China, all land belongs to the State. Local and indigenous community rights to land can therefore be extinguished if there is policy interest in doing so. Wanglang National Nature Reserve is a landscape customarily used as a grazing and medicinal plant harvesting area by the Baima Tibetan people. They no longer have access. Even some Baima sacred forests in the study area were logged in the 1980's. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> The relevance of this principle to the project has been controversial. It was regarded as <ul style="list-style-type: none"> very important less important or important but difficult to formalize in the case of this operation In general, the rights of local communities seem to be respected, as Horchata is a typical product of the area and has a long tradition within the community. However, there is a clear trend towards depletion of the resources, in the case of both cucharillo and cola de caballo, which seems to be partly due to over-collection by community members and partly due to collection by others brought in from outside 	-
c) Principle #3	<p><u>Findings</u></p> <ul style="list-style-type: none"> Information flow very poor between stakeholders 	<p><u>Findings</u></p> <ul style="list-style-type: none"> The principle has been mostly considered as very important and generally accepted. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> 'Transparency', is a word with a very wide meaning and should be defined, so that it cannot be misinterpreted or bent to whatever direction is suitable. The importance of transparency should be made clear in the introduction to the document. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> There is communication, but given the illegal nature of harvest in protected areas and State Forest, people understandably keep information to themselves. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> It was suggested considering transparency as a priority topic for the operation, as it includes the ways and levels of consultation within the project. 	-

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
d) Principle #4	Findings: • Concerns were raised due to required data not being obtainable or causing excessive costs Recommendations: • Consider rapid resource assessments as a minimum requirement				= ★ ★ ★ ★ = ★ ★
	<u>Findings</u> • The collection area and the quantity collected in each area is not recorded in the collectors' invoices but not in the processing books.	<u>Findings</u> • The principle is considered as relevant but complex and not easy to understand. <u>Recommendations</u> • It has been suggested to either shorten it or divide it into resource assessment and the assessment of 'social / cultural / economic issues' • As inventorying the target MAP species and the development of maximum sustainable yields will need to be part of the Management Plan of the operation, it may be worth collapsing principles 4 and 5	<u>Findings</u> • In many cases in diverse habitats and in most developing countries, there is no base-line data nor population level data for medicinal plants being traded. This applies in this case, although trade data from a relatively quick survey are available for the Minshan area, giving quantity (in kilograms or tonnes) of species traded and estimates of quantities which have been confiscated from illegal harvesters in the core conservation area, Wanglang NNR. The main source of information indicating trends in resource stocks is from oral evidence from local harvesters and traders. • No maps, site descriptions or field surveys are available	<u>Findings</u> • Considered as relevant and important by all interview partners. <u>Recommendations</u> • It was suggested to keep the requirements as practical and low as possible, e.g. include Rapid Resource Assessments as proper means of assessing the resource.	-
e) Principle #5	Recommendations: • <i>Management plans and associated documentation should not be required for all "targeted species" but for a few priority species</i> • <i>Annex an example management plan and a short guideline how to develop a management plan</i> • <i>Consider exceptional situations where a management plan cannot be provided or related to</i>				= ★ = ★ = ★
	<u>Findings</u> • The ISSC-MAP gives priority to the management plan. It has	<u>Findings</u> • The principle is considered important by all interview partners. It	<u>Findings</u> • Management plans for the plants are required, but the spatial scale(s)	<u>Findings</u> • Considered as the core principle of the standard by most interview	-

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
	<p>to be considered that in many regions/projects no management plan exists. Projects without a documented management plan, but with any kind and level of resource assessment and monitoring are not enough reflected in and valued by the standard.</p> <ul style="list-style-type: none"> The fact, that in many projects no management plan exist and that it is unlikely to be developed in the short term, will make acceptance and application of the ISSC-MAP more difficult. 	<p>is easily understandable and applicable.</p> <p><u>Recommendations</u></p> <ul style="list-style-type: none"> Principle #5 may include several others of the core principles as well (such as principles 4, 6, 7 and 8), as they will be part of the MP. It may be helpful to annex an example management plan to the document. Another valuable annex would be a short guideline of how to develop an MP. <p><u>Resource estimates</u></p> <ul style="list-style-type: none"> Time estimate to achieve compliance: 1-2 years 	<p>and the targets of the managements were not mentioned.</p> <p><u>Recommendations</u></p> <ul style="list-style-type: none"> Expectations for maps and management plans for all “targeted species” need to be seriously reconsidered if ISSC-MAP is to work at all – even on a small spatial scale. This would only be possible, at most, for a few (2-3) priority species. 	<p>partners</p> <p><u>Recommendations</u></p> <ul style="list-style-type: none"> It is suggested that the MP principle <ul style="list-style-type: none"> includes the minimum requirements to be fulfilled in order to comply with the standard and provide more details on the indicator and / or the guidance levels It should include principles 4, 6, 7, and 8 as well, as they are part of the MP It should integrate a number of additional aspects and indicators (see Part II: 2 a) 	
f) Principle #6	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> The principle is considered as applicable and very important, but at the same time it overlaps almost completely with principle #5. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> Several interview partners suggested to integrate principle #6 into #5. Guidance would be very helpful (e.g. guidelines how to develop monitoring reports) including concrete examples of such records attached as annex. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> In the study area, the only regular monitoring aside from patrols which detect c. 20% of illegal harvesters, is through remote sensing – and of Giant panda populations. It is unrealistic to expect up-to-date management information of volumes, rates and impacts of collection. At most, scientific monitoring could be done in selected sites for 2-3 species. Additional information could be collected from confiscated material or in traders warehouses (e.g. to detect changing size classes of rhizomes or declining thickness to 		–

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
			bark), but would be proxy information only, difficult to link to specific sites.		
g) Principle #7	<p>Recommendations: • <i>Collapse overlapping criteria where they address long-term vigour and production</i> = ★★</p>				
	<p><u>Findings:</u></p> <ul style="list-style-type: none"> • Most indicators are of great relevance to the project, particularly as no management plan exists; but the language is too complicated. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Together with principles #4 and #6, this forms the core of the practical work of the project: The principle is considered very important and applicable. • The wording may be a little complex, though, and the level of detail of some of the criteria (7.1 – 7.4) seems to be too high. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Principle #7 could be a model principle for elaborating the other elements of the ISSC-MAP in a similar way. • It is suggested to collapse overlapping items and make the text more streamlined. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Fine in theory, highly unrealistic in practice. There is neither the time nor money in WWNR or Baima State Forest for regular monitoring of growth rates or for a well designed inventory system. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • All interview partners agreed that principle #7 is of crucial importance to the standard and to the operation and that all criteria are important. • The way this principle has been structured and developed, however, caused rather controversial reactions. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Suggestions for simplification are to collapse all criteria into one, as they almost all address long-term vigour and production. • The difference between the two terms 'vigour' and 'production' is not clear; it may be helpful to either explain it or replace the two terms by one, if possible. 	–
h) Principle #8	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The principle is considered as important and applicable. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • Make wording easier. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • This Principle is not relevant to medicinal plants in the study area. Medicinal plant harvesting takes place in diverse habitats and is dispersed across the landscape amongst other species. There is no parallel to clear felling 	–	–

Part II: Evaluation of ISSC-MAP approach, structure, and components

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
			for timber which can affect ecosystem structure and function or environmental services (such as water quality).		
i) Principle #9	–	<u>Findings</u> <ul style="list-style-type: none"> The principle and its wording are considered as very good and nicely summing up sustainability. It is relevant and applicable The provisions of this principle are considered as too general and occasionally superficial. Important aspects such as market surveys, assistance of business service providers etc. are missing. <u>Resource estimates</u> <ul style="list-style-type: none"> Time estimate to achieve compliance: ≥ 2 years 	<u>Findings</u> <ul style="list-style-type: none"> Financial sustainability is highly unlikely in China and is a core problem with certification for small-scale producers worldwide. With a relatively high diversity of species in trade, from a high number of informal sector suppliers and from sometimes secret (ie: often illegal source areas, such as nature reserves), traceability and accurate record keeping are unlikely 	<u>Findings</u> <ul style="list-style-type: none"> As the operation is profit-oriented and its success largely depends on successful marketing, this principle is perceived as crucially important to the operation. 	–
j) Principle #10	Findings: <ul style="list-style-type: none"> Collectors often operate as part of an informal, non-organised and partly illegal, sector where neither health and safety regulations nor workers' rights can be applied Recommendations: <ul style="list-style-type: none"> Integrate this principle into principle #1, as it is basically a legal issue 				= ★
	–	<u>Findings</u> <ul style="list-style-type: none"> The principle is difficult to understand. <u>Recommendations</u> <ul style="list-style-type: none"> It may be helpful to find an easier wording, or make 2-3 sentences out of the complex one. It has been suggested to integrate this principle into principle #1, as it is basically a legal issue. 	<u>Findings</u> <ul style="list-style-type: none"> Health and safety regulations do not apply to informal sector activities. These regulations are not cost effective for harvesters, and at best, will shift high value harvest into the formal sector, away from the rural poor. MAP collectors are not employees. This is a part 	<u>Findings</u> <ul style="list-style-type: none"> Mostly considered as less important for the project as there are, on state level, no clear rules or regulations on most of the provisions - most is negotiated locally and it will be very difficult to implement this principle in this project. 	–

Part II: Evaluation of ISSC-MAP approach, structure, and components

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
			time activity of otherwise unemployed – or at most seasonally employed people, largely from farming communities.		

Part III: Implementation – scenarios and barriers

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
A Scenarios					
I (Co-)Certification	<ul style="list-style-type: none"> • Considered effective to prevent overexploitation and to provide economic incentives; for both, exporters and buyers, it could be a competitive advantage. • Could be particularly interesting where organizations have some of their products (organically) certified. Possibly focus on the company association level. • Preconditions: <ul style="list-style-type: none"> – Strong demand from the buyer side for such a standard – Practical (simple/effective) implementation is possible 				= ★★★(★)
II Voluntary Codes of Practice	<ul style="list-style-type: none"> • Document could serve as a basis for the development of voluntary codes of practice or internal operation policies • Temporary solution until legal establishment of ISSC-MAP: Incentives must be given for those who implement the standard voluntarily [e.g. by the state] • Preconditions: <ul style="list-style-type: none"> – and or resource tenure issues have been sorted out 				= ★★★
III Legal Adoption	<ul style="list-style-type: none"> • Can be an appropriate instrument in countries where <ul style="list-style-type: none"> – MAP species are considered to constitute a crucial part of the national biodiversity – the national industry of MAP collection (and cultivation) is of outstanding importance – governments lack tools to address the issue of sustainable use and require clear guidelines • Can turn out to be counter-productive and impractical as it would add to the burden the operation needs to carry • Preconditions: <ul style="list-style-type: none"> – implemented through laws at the state level – enforced throughout the supply chain – benefits are provided for those who have to implement corresponding legislation 				= ★★★
IV Guidance document	<ul style="list-style-type: none"> • ISSC-MAP could serve as a standard and guidance document for the development of a Management Plan for the sustainable wild collection of MAP species <ul style="list-style-type: none"> – Indicators would be developed by the users as part of the MP in development – Verification of compliance could take place on two different levels: Auto-verification and through an external party 				= ★
V Co-management of resources	<ul style="list-style-type: none"> • Co-management (state / local communities), starting at an experimental level possibly through multiple-use zones • Preconditions: <ul style="list-style-type: none"> – management agencies had sufficient resources for site inspections – collectors were well organized and likewise have sufficient management capacities – communities / collectors would act in full compliance with legislation 				= ★

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
	<p><u>Scenario I: (Co-)Certification</u></p> <ul style="list-style-type: none"> As some of the locally operating companies have organically certified products, another scenario for the implementation of ISSC-MAP could be through (co-)certification on the company association level or through the certifiers [?] Prerequisite is a strong demand from the buyer side for such a standard. For both, exporters and buyers, it could be a competitive advantage. <p><u>Scenario II: Voluntary codes</u></p> <ul style="list-style-type: none"> It was suggested that as a temporary solution those who implement the standard voluntarily shall get incentives [by the state]. <p><u>Scenario III: Legal adoption</u></p> <ul style="list-style-type: none"> All participants of the workshop agreed that ISSC-MAP should be implemented through laws at the state level and should be enforced throughout the supply chain. The Ministry for Foreign Trade and Economic Relations was seen as an adequate institution to push the ISSC-MAP so that it could be enforced like a law (e.g. in a similar way as 	<p><u>Scenario I: (Co-)Certification</u></p> <ul style="list-style-type: none"> The implementation of ISSC-MAP through a certification scheme would be fully supported if the scheme is practicable and can be handled, but is not the prime interest of the project. To prevent overexploitation and to harness economic incentives, certification would be a good tool. <p><u>Scenario II: Voluntary codes</u></p> <ul style="list-style-type: none"> The development of a voluntary code of practice or an internal policy of the operation based on ISSC-MAP could be an interesting alternative for <i>Medicina da Mata</i>. <p><u>Scenario III: Legal adoption</u></p> <ul style="list-style-type: none"> Implementation through national legislation is considered as very negative and impractical as any additional legal instrument would only add to the burden the operation needs to carry without having obvious benefits. <p><u>Scenario IV: Guidance document</u></p> <ul style="list-style-type: none"> Using the ISSC-MAP as a guidance document for the development of a clear project structure, 	<p><u>Scenario II: Voluntary codes</u></p> <ul style="list-style-type: none"> Harvesting under self-regulated guidelines (“wild-crafter standards”) Preconditions: <ul style="list-style-type: none"> land or resource tenure has been sorted out <p><u>Scenario V: Co-management</u></p> <ul style="list-style-type: none"> Co-management of natural resources (state / local communities), possibly through multiple-use zones. Preconditions: <ul style="list-style-type: none"> the management agencies had enough human resources and material facilities to inspect all the sites; the collectors were well organized, their collection in state forests and natural reserves became a legal activity; and the collectors were not so poor. This could only take place at an experimental level after careful discussion at a high policy level in China (cf. background theory from work by Eleanor Ostrom & Robert Wade (Cunningham, 2001, Ch. 7)) 	<p><u>Scenario I: (Co-)Certification</u></p> <ul style="list-style-type: none"> Main interest of AAPPSME would be a practical implementation of the standard in the realm of organic certification. A standard dealing only with wild collection [and not cultivation issues] may have a limited use. The ISSC-MAP initiative should analyze the interconnection between cultivation and wild collection, in terms of certification. <p><u>Scenario III: Legal adoption</u></p> <ul style="list-style-type: none"> The Ecuadorian government (Ministry of Environment) seems to be interested in the standard as a basis for adoption of a legal instrument targeting the sustainable use of MAPs: The minister was aware of the project process and thinks it is a very good option for wild collected plants, as Ecuador does not have a tool to address this issue and requires clear guidelines. In her perception, the Ministry would like that the standards could be legally adopted. 	<ul style="list-style-type: none"> The most likely scenario for the effective implementation of the ISSC-MAP would be that which followed or is built on that which is currently in place. [?]

Part III: Implementation – scenarios and barriers

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
	Codex Alimentarius, European Pharmacopoeia)	the management plan, and/or for developing an internal policy (main interest) <ul style="list-style-type: none"> – Community develops their own indicators as part of the MP in development – Auto-verification is considered as an important element, which may result in two different levels of verification / assessment, one performed by the community, the other by an external party 			
	<p><i>Most respondents wanted more clarity on how the standard will be implemented (e.g., voluntary code of conduct, good-practice guidance, certification system).</i></p> <p><i>Several respondents felt that the current draft standard will not be practical to implement, because:</i></p> <ul style="list-style-type: none"> <i>✎ Fundamental conditions, such as establishing clear legal resource access and tenure, either do not exist or cannot be enforced in many countries and local situations.</i> <i>✎ Where legitimate access and tenure do exist and are acknowledged, it may not be possible for resource managers to limit access only to the otherwise legitimate collectors who also comply with this standard (i.e., sustainable use has less priority than do customary rights).</i> <i>✎ Too little ecological information about MAP resources is available, and there are insufficient funds and research capacity to provide the information needed.</i> <i>✎ Many wild MAP resources have scattered, fragmented distributions, and collection activities are similarly dispersed and decentralized (i.e., compliance with this standard based on distinct populations or management areas will be impractical).</i> 				
[Harmonization]	<ul style="list-style-type: none"> <i>✎ Harmonization with other product labels and process certification standards (e.g., organic agriculture, forest products, and fair-trade) can build on: <ul style="list-style-type: none"> – MAPs already included in certification systems – organic, fair-trade (Rooibos), forest management (Taxus). – Overlap in scope and objectives of draft ISSC-MAP with existing labels and certification systems (especially with organic and trade association codes of practice, which are also concerned with practices that contribute to waste reduction and superior product quality, e.g., by regulating time of collection). </i> <i>✎ ISSC-MAP could concentrate on sustainability components, and liaise with other organizations that concentrate on fair-trade and product quality for realistic components and implementation in these areas.</i> <i>✎ Attention is needed to match definitions and hierarchy of components with other standards (e.g., FSC, IFOAM)</i> 				

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
1. Users and responsibilities	<ul style="list-style-type: none"> The question who would be responsible for the development of the management plan was clearly answered: it would be the task of the state, in this case the Forest Administration. 	–	<ul style="list-style-type: none"> Main users would be <ul style="list-style-type: none"> Nature reserve managers and forestry staff Independent certifiers Collectors (informal sector) Policy makers (legislation) Responsibilities must be clarified regarding: <ul style="list-style-type: none"> capacity building and training funding implementation data collection, processing, storage and decision making on them developing the management plan 	<ul style="list-style-type: none"> The ISSC-MAP initiative should develop a process to support producers in their way to certification. 	<ul style="list-style-type: none"> Responsible actors would be <ul style="list-style-type: none"> CRIAA SA-DC, Harvesters, MET and competent authority.
<p><i>✍ Many of the respondents posed the question, “Who is responsible?”, broadly for overseeing application and outcomes of the standard, and more specifically for the research, monitoring, and other actions required to meet many of the proposed criteria. Suggestions include different institutions (village or collectors’ organizations, federations of village organizations, industry and trader organizations and federations of these, government line departments, law enforcement agencies, research institutions, certification/labeling organizations, conventions and treaties) taking responsibility for different sections of the standard.</i></p>					

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia				
2. Required resources	<p>Findings:</p> <ul style="list-style-type: none"> • Common concern that the process and implementation of ISSC-MAP requires too many resources, in terms of time, capacity, and money • Need for <u>capacity building/training</u> identified for collectors and those responsible for implementation <p>Recommendations:</p> <ul style="list-style-type: none"> • <i>Costs of compliance need to be minimized – this could be achieved by</i> <ul style="list-style-type: none"> – <i>making a <u>thorough cost-calculation</u> by the author organisations and trying to avoid all requirements, for which compliance would involve unreasonably high costs</i> – <i>simplifying the standard and state the <u>minimum requirements</u> clearly</i> – <i>focussing on a few (2-3) <u>priority species</u></i> 					= ★ ★ ★ ★	= ★ ★	= ★ ★ ★	
	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Certain education level necessary to understand and work with the ISSC-MAP. • There is a need for capacity building/training of collectors. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Concern that the ISSC-MAP process <ul style="list-style-type: none"> – may be too time and capacity consuming – requires a lot of documentation. People who take part will need to be trained in order to understand the principles of how documentation works and must get some guidance on how to document. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • To minimize costs, it is suggested making a thorough cost-calculation by the author organisations and trying to avoid all requirements, for which compliance would involve unreasonably high costs. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • “high costs” of implementation (for training, data collection and monitoring) 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • As for the AAPPSME project, the total costs of developing the management plan (incl. preliminary research) are estimated at about 25,000 USD. • A certification for the wild components and one for the cultivated elements would add costs to a probably unbearable level for a company that hardly breaks even. • Only a NTFP certification scheme that is as cheap as possible to implement and maintain, is considered as potentially successful in the country. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • For these reasons, most partners interviewed suggested to simplify the standard and state the minimum requirements clearly. • The cost benefit relation of certification for producers should be analyzed and alternatives to certification identified. 	–				

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
3. Expected benefits	<ul style="list-style-type: none"> • Enable fair competition and create opportunities for competitive advantages to improve / sharpen the profile of... <ul style="list-style-type: none"> – PRODUCTS produced according to the standard <ul style="list-style-type: none"> – better access to / increased presence on international markets – price premiums for the products traded – higher income for traders and operations <ul style="list-style-type: none"> – higher income for harvesters – increased local value addition – multiplier effects – OPERATIONS adhering to the standard <ul style="list-style-type: none"> – better access to funds • Increase knowledge on... <ul style="list-style-type: none"> – RESOURCE management <ul style="list-style-type: none"> – sustainable use of MAP resources – long-term availability of the commodity – ORGANISATIONAL skills in other fields <ul style="list-style-type: none"> – contribution to community empowerment in the broader sense 				= ★
	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • Achieve sustainable use of plant resources and therefore long-term availability of the commodity. • Price premiums achieved on export • Implementation of the standard would equalize conditions for all the companies involved in the business which is seen as a possibility to secure competitive advantages 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • The process could help increase the profile of Medicina da Mata on international and national levels, thus helping to improve access to funds. • Draft ISSC-MAP already helps during MP development • Validation of the Iracambi project through international field consultation • On the long term, the ISSC-MAP, once established and recognized, could be a valuable tool for Medicina da Mata to improve the profile of its products and get better 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • Some middlemen and government agencies responsible for “economic development” may welcome ISSC-MAP if middlemen or local people profit financially 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • As one of the main goals of the operation is to increase its presence on international markets (and to enter the European market), organic certification is a primary aim strived for by AAPPSME. The ISSC-MAP could be beneficial to the project if integrated into the organic certification scheme, covering the two MAP species still collected from the wild. • The ISSC-MAP process and the selection of the AAPPSME project as a field consultation project could be a way to indirectly promote the 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • <u>Economic</u>: The major economic benefit is that compliance with the standard has the potential to command a higher price thereby increasing the income for harvesters. • <u>Market Access</u>: Standards can facilitate access to niche markets which are <ul style="list-style-type: none"> – prepared to pay the premium price. – invariably more secure for producers in the long-term. • <u>Processing</u>: In certain circumstances standards can facilitate increased local value addition. • <u>Multiplier Effect</u>: The

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
		market access and higher revenues for the products traded.		<p>operation and its products.</p> <ul style="list-style-type: none"> The ISSC-MAP could be an interesting tool to achieve keen to sharpen the operation's profile and further enhance the development of a distinguished product, for which finally a higher price can be achieved. 	<p>realisation on the part of others that good practices such as standards yield positive benefits can stimulate them to engage in similar practices.</p> <ul style="list-style-type: none"> <u>Resource Knowledge</u>: Standards can contribute to improved knowledge regarding the resource and can thus also improve resource management. This is particularly the case when resource management uses a combination of local (traditional) knowledge and scientific research results. <u>Social Capital and Empowerment</u>: The organisational and other requirements of standards that require training in various fields can be considered to contribute significantly to community empowerment in the broader sense.
<p><i>✎ One respondent points out that efforts to certify product quality (e.g., sanitation, handling) of NTFPs have benefited retailers and consumers, but have not been beneficial to producers (creating trade barriers and re-configuring trade networks).</i></p> <p><i>✎ The same respondent also points out that there is not currently a retailer/consumer market for sustainably produced NTFPs, nor for MAP products, and that the most promising approach will likely be to encourage producers (collectors, consolidators, processors, distributors, manufacturers, and others in the chain of supply) to be interested in MAP resource sustainability.</i></p>					

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
B Barriers and limiting factors					
1. Local factors (project or site specific)					
a) Sourcing practices	<u>Findings</u> <ul style="list-style-type: none"> • Resource assessments are only done sporadically and only in a quite simple way • No information exchange between collectors • Low level of documentation. 	<u>Findings</u> <ul style="list-style-type: none"> • Project includes the mechanism of enrichment planting (growing plants in a nursery and replanting them into their natural environment), and is not purely using wild stock 	<u>Findings</u> <ul style="list-style-type: none"> • Locations and quantities of valuable medicinal plants is kept secret by communities. • Current levels of over-harvesting is resulting in resource declines in more vulnerable species countrywide. 	<u>Findings</u> <ul style="list-style-type: none"> • Project includes mainly species of cultivated origin (collected from home gardens) which are not covered by the ISSC-MAP. • There is a clear trend towards depletion of the resources, in the case of both <i>cucharillo</i> and <i>cola de caballo</i>, which seems to be partly due to over-collection by community members and partly due to collection by others brought in from outside. 	–
b) Organizational degree	<u>Findings</u> <ul style="list-style-type: none"> • Collectors are not organized in an association and no official collectors' meetings are held 	<u>Findings</u> <ul style="list-style-type: none"> • Several problems relating to social aspects became evident: <ul style="list-style-type: none"> – there is a lack of community organisation – the educational level of many people within the community is relatively low – training and capacity building needs are considerable which will add up to the costs 	<u>Findings</u> <ul style="list-style-type: none"> • Collectors usually act on their own or poorly organised due to their activities being illegal. 	–	<u>Findings</u> <ul style="list-style-type: none"> • The devil's claw industry in Namibia and the other range states is without a credible representative organisation of stakeholders.

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
c) Limited resources and poverty	<p>Findings:</p> <ul style="list-style-type: none"> • Costs involved to reach compliance with and implement the standard are too high for average operations and local communities. = ★★★★★ • Local communities lack the capacity and know-how to be actively involved, both in the development and the implementation of the ISSC-MAP = ★★★ • Government agencies face lack of qualified staff, a limited budget, and lack of knowledge = ★★ 				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The responsible management (forestry) authority faces lack of qualified staff, a limited budget, immense karst problems, and lack of knowledge how to develop an overall management plan for MAP species. • Companies do not show ambitions to create a plan for them or for the region as they already pay for collection licences and therefore expect the authority to provide the management plan. 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • The costs involved in certification may be too high to be covered by the project, which so far has relied a lot on volunteer work and operates with a low budget. <p><u>Findings</u></p> <ul style="list-style-type: none"> • Identified fields where training and capacity building is needed: <ul style="list-style-type: none"> – Concept of sustainability – ISSC-conform documentation – Monitoring – Markets and market access – Product processing and handling – Development of the management plan – Cultivation of MAP in agroforestry systems – Community assessment – Collection and identification of plants – Organisational and legal training – Communication – Fund raising 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Local communities and villagers often lack the capacity, financial resources and local institutions to be actively involved in the implementation of the ISSC-MAP process, so are unlikely to share in the benefits. • Better-educated and self-organised local people engage in cultivation of medicinal plants while typically the poorer ones have to rely on wild collection for livelihood. • ISSC-MAP not workable in view of the many hundreds of species involved for which extensive data collection and monitoring is required. • Systems of harvesting licenses are not working due to limited resources of management agencies 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • In the case of the AAPPSME project it would be possible to cover the related costs of a potential implementation of the standard, if used as a (or as part of a) certification scheme due to substantial financial input from EcoCiencia, UNCTAD/Biotrade and others, but in similar projects without this financial support, certification according to this standard would be too costly and could not be realised. • Efforts to establish comparable certification schemes such as FSC proved to be highly ineffective in Ecuador, so far. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • It should be noted that poor communities are at a relative disadvantage and have to compete like all other players in an open market. <p><u>Assumptions</u></p> <ul style="list-style-type: none"> • It is unlikely that poor communities would have the necessary capacity to fully implement and comply with the proposed ISSC-MAP. • The technical and administrative knowledge required constitutes a professional specialisation in its own right. • Poverty and sustainability are inextricably linked and unless the issues of poverty are addressed, through, for example, the realisation of "real" benefits or options to primary producers, sustainability will always remain problematic.

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
2. Socio-economic factors					
a) Land tenure	–	–	<u>Findings</u> <ul style="list-style-type: none"> In China, all land belongs to the State. Local and indigenous community rights to land can therefore be extinguished if there is policy interest in doing so. Complex or uncertain tenure arrangements (due to repeated changes of ownership over the last decades) Competition between local collectors and those from other areas and counties Wanglang National Nature Reserve is a landscape customarily used as a grazing and medicinal plant harvesting area by the Baima Tibetan people. They no longer have access. Even some Baima sacred forests in the study area were logged in the 1980's. 	<u>Findings</u> <ul style="list-style-type: none"> The legal situation relating to tenure and land use rights is very unclear in Ecuador. A problem inherent of wild collection is the fact that it happens on a land open to everybody. Even if certified collectors respect sustainable ages and quantities, others will not and this may (will probably) end up in an over-consumption of the resource. 	<u>Assumptions</u> <ul style="list-style-type: none"> The sustainable utilisation of devil's claw, or any NWFP for that matter, cannot be addressed by standards alone. The issues impacting on sustainable use are far broader in nature and revolve mainly around livelihood security. The practices entailed by sustainable utilisation are difficult to implement when there is, for example, a lack of clarity regarding land ownership and access, and acute poverty, particularly in communal or open-access areas.
b) Legislation and law enforcement	Findings: <ul style="list-style-type: none"> Legal restrictions exist with regard to collection from the wild ⇒ collectors operate at the edge of illegality where licenses are difficult to obtain or poorly managed Systems of collection licences are not working properly and therefore do not allow the establishment of reliable data on quantities. National legislation on biodiversity and conservation issues complex and partly inconsistent The level and speed of law enforcement varies or is very poor. 				= ★ ★ ★ = ★ ★ ★ = ★ ★ = ★ ★
	<u>Findings</u> <ul style="list-style-type: none"> Up to now law enforcement in BiH is 	<u>Findings</u> <ul style="list-style-type: none"> Brazilian legislation – in general and especially 	<u>Findings</u> <ul style="list-style-type: none"> No wild collection is permitted within nature 	<u>Findings</u> <ul style="list-style-type: none"> Ecuadorian law does not allow the commercial 	–

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	<p>very poor and Forestry Departments, which would be responsible for the relevant law enforcement, are not equally developed throughout the state. Therefore, implementation of ISSC-MAP by law as suggested would need several years.</p> <ul style="list-style-type: none"> • One main problem in BiH is the complicated administrative structure as two entities, Republika Srpska and Fed. BiH, both show a number of symptoms of an independent state formation with more or less independent administrative structures. <ul style="list-style-type: none"> – As a result the issue of MAP in BiH is covered by different ministries at the state and the entity level – Furthermore, both entities have different laws relevant to MAP wild collection • Currently, collection licences are not restricted to well-defined collection areas but are issued for whole forestry districts. This is not in accordance with the Law on Forests and with the Regulation on usage of other forest products. As not all traders operating in the area are applying for a collecting licence, there is no data 	<p>with regard to biodiversity and conservation, health and safety, trade, and land registry / tenure / taxation – tends to be complex and administration is famous for its high level of bureaucracy.</p> <ul style="list-style-type: none"> • Insecurities relating to the level and speed of law enforcement and the risk of paying considerable fines for non-compliance with a regulation make conservation and sustainable use projects like 'Medicina da Mata' an adventure, especially for small producers • High sensitisation of the potential impacts of bio-piracy in the country and new projects focusing on the sustainable use of natural resources tend to be scrutinized for any possible involvement of bio-piracy • Local and regional forestry policy addresses mainly reforestation and preservation rather than promoting conservation and the sustainable use of natural resources 	<p>reserves nor within many state forests, although local people to a large extent still rely on the collection as one of the major source of cash income</p> <ul style="list-style-type: none"> • Systems of harvesting licenses are not working due to limited resources of management agencies 	<p>collection of MAP from the wild, unless it is for scientific research and / or successful propagation projects.</p> <ul style="list-style-type: none"> • Although collection of MAP from the wild is now possible through the establishment of a management plan (without protocols), it requires a collection permit or 'management patent', which is not easy to get and need to be paid for. • For this reason, hardly anybody does have this permit, especially in the case of medicinal plants where trade dynamics are poorly known and understood. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • The ISSC-MAP initiative should analyze the relation between its requirements and legislation – probably at country level, and identify mechanisms to overcome the issue. 	

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	collection on quantities and areas of collection and consequently no basis for evaluating the sustainability of the overall herb collection or for establishing an area rotation and quota system.				
c) Markets	<p>Findings:</p> <ul style="list-style-type: none"> • National markets characterized by • low consumer awareness of issues such as sustainable / organic harvesting practices • informal trade, partly including illegal harvest with complex marketing chains and suffering • opportunistic and often unpredictable short-term fluctuations <p style="text-align: right;">= ★★★</p>				
	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The national market for certified organic herbal products is poor; products are mainly exported to the wealthier Central and Western European countries and to a certain amount to the US market. • Workshop participants stressed the importance of the supply chain: Only pressure from the side of traders / buyers / consumers would result in the acceptance/use of ISSC-MAP in the source regions. 	–	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Marketing chains are fairly complex, including illegal harvest from WNNR and Baima State Forest, with c. 100 illegal harvesters, some travelling from towns 100 km away, being arrested annually. • No existing consumer awareness in China of issues such as sustainable harvesting practices or social equity for harvesters 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • At present, the operation is doing reasonably well on the national market and also on the US market, but all interview partners mentioned that (local and national) competitors on the market are a substantial problem for the operation. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The largest part of the existing trade in the region is conducted through informal markets characterised by low harvester prices, low levels of value-adding and low overall levels of benefits achieved off fairly large volumes of material. • Markets are opportunistic and often unpredictable and so communities sometimes find themselves caught by short-term fluctuations, caused by over-supply, falling prices or worsening terms of trade.

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<p>3. Technical / methodical factors</p>	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Often two or even more certifiers are active in one area without sharing their information. Sustainability of the collection may therefore not be given in some cases. 	<p><u>Assumptions</u></p> <ul style="list-style-type: none"> • A restrictive and demanding standard will most probably result in less participation of producers and will increase the logistic burden (e.g. techno-scientific (research) studies, legal requirements, costs) 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Knowledge gaps about medicinal plant diversity: ISSC-MAP approach (sustainable management of medicinal plant resources) is limited by three issues <ul style="list-style-type: none"> – Taxonomy (of even some very important species) not well known – Not enough knowledge of medicinal plant population dynamics – Links between plant populations and habitat disturbance dynamics or stochastic events • Botanical diversity and taxonomic uncertainty are just the tip of the iceberg, signalling the challenge for ISSC-MAP when we hardly know which species we are dealing with, let alone their population dynamics, population density or sustainable yields for different populations. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The current manifestation of ISSC-MAP is useful as a source that can provide guidelines in regards to the necessary scope of any potential certification / legislation program, but the language of ISSC-MAP makes the standard neither easy to use directly for certification nor for legislation. <p><u>Recommendations</u></p> <ul style="list-style-type: none"> • There needs to be a document that explains why each principle and criterion is important to the overall objectives. 	–
<p>4. Existing reservations</p>	<p><u>Findings</u></p> <ul style="list-style-type: none"> • From company side, there is only little demand to implement another strict standard as many are already certified organic • As many consumers (in countries abroad, e.g. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • There are no major reservations related to ISSC-MAP within the project. Medicina da Mata supports the development of this document. 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • Limited interest of local government representatives and forest managers in introducing sustainable collection programs (due to limited chances to claim achievements in 	<p><u>Findings</u></p> <ul style="list-style-type: none"> • The participants are confused and sceptical about the various visitors they have in regards to ISSC-MAP, they are worried that their objectives are not taken into account. 	–

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	Germany) are not aware of the problems related to wild collection and its sustainability, and further are not aware what organic certification in the context of the EU Regulation means, companies do neither see a market for this certification nor an advantage		terms of economic development and to obtain visual benefits)		

Part IV: Synopsis

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
Main conclusions					
General approach: consider re-orientation	–	<p><u>Scope</u></p> <ul style="list-style-type: none"> It was suggested not to develop an international MAP sustainability standard, but a standard and guidance document for the development of a Management Plan for the sustainable wild collection of MAP Also address cultivation (of native species) as this would increase the relevance of ISSC-MAP for agro-forestry ecosystems which are found throughout Brazil, and the MAPs produced in such systems <p><u>Process</u></p> <ul style="list-style-type: none"> Local communities should be included in the process of developing the ISSC-MAP 	<p><u>Scope</u></p> <ul style="list-style-type: none"> It is suggested that the authenticity of the medicinal plants be included or further emphasized, which should include the correct species identification, geographic origin and processing procedures for priority species. 	<p><u>Scope</u></p> <ul style="list-style-type: none"> It is suggested by the operation to widen the scope of the ISSC-MAP to include sourcing MAP material from cultivation. 	<p><u>Scope</u></p> <ul style="list-style-type: none"> Poverty and sustainability are inextricably linked and unless the issues of poverty are addressed, through, for example, the realisation of "real" benefits or options to primary producers, sustainability will always remain problematic. Does not link or include others in the supply chain (For example, importers, manufacturers and distributors). This is critical to facilitate and allow benefit sharing to take place.
Structure and format: improve user-friendliness	<p>Recommendations: • Simplify the language by shorter sentences and less complex syntax = ★★★</p>				
	–	<p><u>Language</u></p> <ul style="list-style-type: none"> Shorter sentences and less complex syntax would be helpful 	–	<p><u>Language</u></p> <ul style="list-style-type: none"> It has been suggested to simplify the language by making shorter sentences and allowing multi-sentence provisions at the indicator level 	<p><u>Language</u></p> <ul style="list-style-type: none"> Consideration needs to be given to simplifying the ISSC-MAP to make them more user-friendly for poor rural communities who have not had access to good educational

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					opportunities. This could be achieved, e.g., by – simplifying the language used, – translating the ISSC-MAP into local vernaculars
	<p><i>✎ Simplify – accept proposed changes that reduce complexity and length</i></p> <p><i>✎ Generalize – consolidate components (principles, criteria) that are broadly relevant to many situations</i></p> <p><i>✎ Move indicators, verifiers, and other guidance into a supporting annex or companion document</i></p>				
Contents / components: focus on practicability	<p>Recommendations:</p> <ul style="list-style-type: none"> • Identify and prioritise practical and cost-effective minimum requirements = ★★★★★ • Re-order / reduce principles #4 – #8 = ★★★ • Clarify whether suggested means and types of verification are obligatory (ALL means/types must be used) or whether selections can be made and alternatives chosen = ★★ • Expand the guidance section and include on-the-ground, concrete examples = ★★ 				
	<p><u>Principles</u></p> <ul style="list-style-type: none"> • In any case, we suggest to re-order principles 4-7 to 7-4-6-5. The latter is the order of the questions we asked during the field test in BiH. <p><u>Rigidity</u></p> <ul style="list-style-type: none"> • Ask in a more general way for compliance with principles #4 to #7. • Provide alternatives when no (area) management plan is available. 	<p><u>Principles</u></p> <ul style="list-style-type: none"> • Several suggestions to reduce the number of principles or regroup them: <p><u>Rigidity</u></p> <ul style="list-style-type: none"> • Develop “minimum requirements” (e.g. a species-specific Rapid Resource Assessment as a basis for a maximum yield scheme) or concessive provisions, such as ‘whenever possible’ or ‘using a precautionary approach / principle’ in order to achieve a higher practicability • A clear statement should be made in the standard, if the verifiers are an optional list or if they will all have to be fulfilled in order to comply with the 	–	<p><u>Principles</u></p> <ul style="list-style-type: none"> • It is suggested that the MP principle #5 <ul style="list-style-type: none"> – includes principles 4, 6-8, as they are part of the MP process – should integrate a number of additional aspects [cf. Part II: 2 a] – give considerably more detailed advice on the components of the MP – includes the minimum requirements to be fulfilled in order to comply with the whole standard <p><u>Comprehensiveness</u></p> <ul style="list-style-type: none"> • It is suggested to include the <u>quality</u> aspect in the ISSC-MAP in more detail, as a separate part (e.g. an additional criterion) under the MP principle. <p><u>Rigidity</u></p>	<p><u>Rigidity</u></p> <ul style="list-style-type: none"> • Reduce the ISSC-MAP requirements by identifying and prioritising the minimum requirements needed for the achievement of the desired results.

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		<p>related component</p> <p><u>Guidance</u></p> <ul style="list-style-type: none"> Expand the guidance section and include on-the-ground, concrete examples as guidance in an annex that could be cross-referenced from various indicators / verifiers 		<ul style="list-style-type: none"> It was suggested to keep the requirements as practical and low as possible, e.g. include Rapid Resource Assessments as proper means of assessing the resource. Most partners interviewed suggested to simplify the standard and state the minimum requirements clearly. <p><u>Guidance</u></p> <ul style="list-style-type: none"> Provisions at the indicator level should be more detailed and include practical information; OR The guidance section of all indicators is elaborated and more concrete advice and examples are given 	
Potential for implementation	<p>Findings: • The standard in its current form is too complex and its requirements too high in order to be implemented in a cost-effective way that meets the reality of local communities and collecting operations. = ★★★★★(★)</p>				
	<p><u>Legislation & enforcement</u></p> <ul style="list-style-type: none"> Implementation of ISSC-MAP by law at the state level is complicated – by inefficient and co-responsible; administrative structures – by lack of proper law enforcement. Therefore, implementation of ISSC-MAP by law as suggested would need several years. While an eco-labelling system is required according to the Law on Environmental Protection, no 	<p><u>Guidance</u></p> <ul style="list-style-type: none"> Implementation of ISSC-MAP as an informal guidance document being translated into a locally adapted management plan seems at current the most practical tool of implementation <p><u>Local adaptation</u></p> <ul style="list-style-type: none"> ISSC-MAP implementation should be an adaptive process taking local realities into account <p><u>Costs</u></p> <ul style="list-style-type: none"> To minimize costs, it is suggested making a 	<p><u>Data requirements</u></p> <ul style="list-style-type: none"> Very low potential for implementation: ISSC-MAP not workable in view of the many hundreds of species involved for which extensive data collection and monitoring is required <p><u>Costs</u></p> <ul style="list-style-type: none"> At present, the ISSC-MAP is in no state to be implemented and if it was, costs would far outweigh the benefits. 	<p><u>Costs</u></p> <ul style="list-style-type: none"> In the case of the AAPPSME project it would be possible to cover the related costs of a potential implementation of the standard, if used as a (or as part of a) certification scheme due to substantial financial input from EcoCiencia, UNCTAD/Biotrade and others, but in similar projects without this financial support, certification according to this standard would be too costly and 	<ul style="list-style-type: none"> The implementation of the ISSC-MAP in general within the SHDC project is achievable, although not all of proposed requirements are relevant or could be applied in full. At present the mechanisms that would be required for the full implementation of the ISSC-MAP as they stand is not possible, however, a simplified version that ensures compliance with organic standards and what we regard as essential MAP standards

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	<p>implementing regulation exists until now</p> <p><u>Management plan</u></p> <ul style="list-style-type: none"> • Government authorities lack capacities (time, budget, know-how) to set up a management plan, though required by law. <p><u>Incentives & benefits</u></p> <ul style="list-style-type: none"> • Voluntary adherence would require the provision of adequate incentives • Integration with organic certification requires a strong demand from the buyer's side 	<p>thorough cost-calculation by the author organisations and trying to avoid all requirements, for which compliance would involve unreasonably high costs.</p>		<p>could not be realised.</p>	<p>are in place.</p> <ul style="list-style-type: none"> • Consequently, as new Standards emerge they should reflect the lower standards and capacity of non-SHDC project areas.
<p>5. Major questions and concerns</p>	<p>Findings:</p> <ul style="list-style-type: none"> • Undefined target audience and responsibilities = ★★★★★(★) • Level of detail and complexity (number and scope of requirements) = ★★★★★ • Costs of implementation and of certification = ★★★★★ 				
	<ul style="list-style-type: none"> • Target group for standard use/implementation • Do we really need the level “Criteria”, as they are sometimes difficult to understand and confusing? • The ISSC-MAP gives priority to the management plan. It has to be considered that in many regions/projects no management plan exists. Projects without a documented management plan, but with any kind and level of resource assessment and monitoring are not enough reflected in and 	<ul style="list-style-type: none"> • The ISSC-MAP process may be too time and capacity consuming • Level of detail of documentation required • Potentially high costs of implementation 	<ul style="list-style-type: none"> • Pre-condition for certification to work is a “caring” market prepared to pay price premiums and increased access to a wider market due to consumer awareness – China, however, generally is an “uncaring” market with regard to sustainable harvest. • High cost of fulfilling data requirements for hundreds of species • Unclear spatial and time scales of requirements and non-specified responsibilities 	<ul style="list-style-type: none"> • High level of complexity of the language used in the ISSC-MAP (in particular on indicator and verifier levels), • Uncertainties about the target audience and intended way(s) of implementation • Number and scope of requirements • Generally low level of specific guidance provided on how to implement the provisions • Potentially high costs of implementation of the standard, if used as a (or as part of a) certification scheme. 	<ul style="list-style-type: none"> • The legal status of ISSC-MAP • Identification of responsible or competent authority • The structures & mechanisms required to implement, monitor and enforce compliance • Lack of flexibility to allow for adaptation to changing circumstances • The costs associated with inspection & certification of compliance • The potential for additional or related benefits to be realised • Does not link compliance

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
	<p>valued by the standard.</p> <ul style="list-style-type: none"> • How to deal with a pioneer plant? • To what extent does an operation have to comply with the ISSC-MAP in order to be judged as operating on a sustainable basis? <ul style="list-style-type: none"> – (How) could compliance with the indicators be weighted? (e.g. 80% of the indicators have to be fulfilled) – Or, are there indicators which have to be met in any case or which should be weighted double? 			<ul style="list-style-type: none"> • Question has to be raised in how far the ISSC-MAP is relevant to the project which aims to fully source MAP material from cultivation. • What are the accompanying measures (e.g. technical assistance) contemplated by the ISSC-MAP initiative? • Is there a market demand for certified MAP? <ul style="list-style-type: none"> – Is the demand strong enough to bring substantial benefits to producers? – What mechanisms are envisaged to increase this demand? – Is any connection between potential buyers and sellers (planned to be) established? – Is any commitment from potential buyers (about to be) secured? • What kind of structure is envisaged to avoid conflict of interests between auditing (certification), drafting of the standard (standardization), and technical assistance? 	<p>of ISSC-MAP to associated benefits</p> <ul style="list-style-type: none"> • Does not link or include others in the supply chain (For example, importers, manufacturers and distributors). This is critical to facilitate and allow benefit sharing to take place.
<p><i>✎ Is it possible to revise the current draft standard so that it is both more precise (more “how-to”), and simpler (easier to understand, more practical)?</i></p> <p><i>✎ Should the standard concentrate on supporting collectors’ organizations and community-based enterprises? Or should it focus on larger-scale commercial operations involved in wild collection of MAPs? Can the standard address both?</i></p> <p><i>✎ How much detail should be included in the standard itself, rather than in supporting documents (e.g., application and implementation manuals)?</i></p> <p><i>✎ How can the standard provide for sufficient flexibility in requirements specified to enable application to/ implementation in different regions and field situations?</i></p> <p><i>✎ Can the standard have different levels or degrees of implementation (e.g., minimum components required / maximum components</i></p>					

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
	<p><i>desired)?</i></p> <p><i>✎ How can the standard or supporting documentation address the relatively specialized topics that have come up as important in advisory group (e.g., ex situ conservation, infra-specific genetic diversity and genetic reserves, symbiotic relationships between species)?</i></p> <p><i>✎ How can the standard more strongly support an adaptive management approach?</i></p>				

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
6. Required research	-	-	<p><u>Botanical research</u></p> <ul style="list-style-type: none"> • Taxonomy (of even some very important species) not well known • Medicinal plant population dynamics • Links between plant populations and habitat disturbance dynamics or stochastic events <p><u>Market features</u></p> <ul style="list-style-type: none"> • Identify proportion of the medicinal plant market prepared to pay a premium <p><u>Limiting factors</u></p> <ul style="list-style-type: none"> • Analyse other factors that limit successful implementation of ISSC-MAP <p><u>Other schemes / policy tools</u></p> <ul style="list-style-type: none"> • Explore other (certification) processes where small-holder production is involved. • Other policy tools (e.g. direct payments) to achieve the same goals for conservation and local livelihoods (which may be more effective and have a higher chance of adoption) 	-	-

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
C Starting points					
1. Market-oriented activities	<ul style="list-style-type: none"> It was suggested that as a temporary solution those who implement the standard voluntarily shall get incentives [by the state] 	–	Develop marketing networks enabling certified producer associations or companies to capitalize on certification.	–	–
2. Capacity building and promotion	–	–	Promote the formation of non-profit organizations who have the specific goal of developing national standards to promote certification in China	–	–
3. Working with existing schemes, approaches, and instruments	<p><u>Data collection through licenses</u></p> <ul style="list-style-type: none"> Based on the data available from collectors and traders and if the requirements for obtaining licenses could only be slightly raised, it would be relatively easy to start the development of a management plan. <p><u>Rapid resource assessment through interviews and field tests</u></p> <ul style="list-style-type: none"> Further, a rapid resource assessment may be undertaken in a short time and with limited budget. 	–	<p><u>Give credibility to the certification systems through promoting appropriate types of certification for appropriate products</u>, fitting in with the national policy context, such as GMP, GACP, ISO standards, and certification of origin.</p> <p><u>Setting conservation priorities and strategies</u></p> <ul style="list-style-type: none"> Set conservation priorities by taking phylogenetic uniqueness into account (e.g. by the IUCN-MPSG “Top 50” approach) with ethnobotanical surveys of regional markets as a starting point, followed by a combination of <ul style="list-style-type: none"> – strict protection – adaptive management approach for a few priority species – ex-situ conservation for high priority species 	–	–

	Bosnia-Herzegovina	Brazil	China	Ecuador	Namibia
4. Policy instruments	<p><u>Closing gaps in laws and regulations</u></p> <ul style="list-style-type: none"> • Set up adequate regulations on wild collection, • Identify MAP species with declining populations • Develop a quota system for MAP collection with declining populations or unknown population status. • Further MAP topics should be included in the Nature Protection Strategy • It is urgent to create a new red list. 	–	–	–	–
5. Pilot tests	–	–	<p>Test simplified certification procedures at a pilot-study level in selected State Forests after careful coordination with forestry laws</p>	–	–