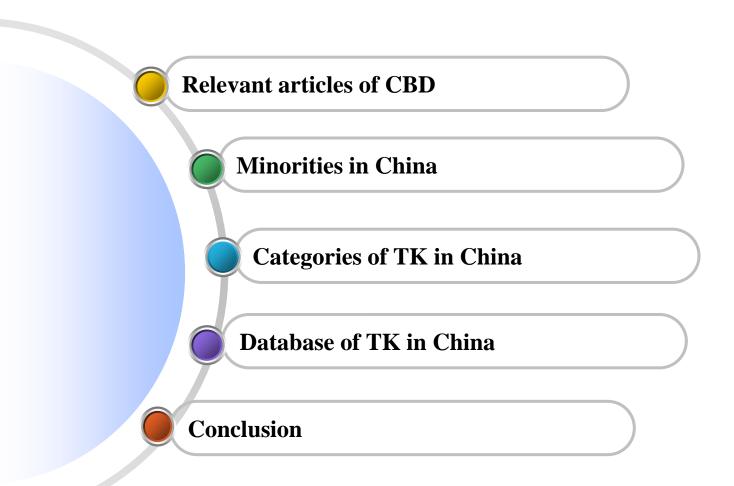


Categories of Traditional Knowledge Associated with Protection and Sustainable Use of Biodiversity in Minority Areas of China

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Contents



1. Relevant Articles of CBD

- Article 8(j) of CBD (Convention on Biological Diversity):
- ".....knowledge, innovations and practices of indigenous and local communities embodying traditional lifestyles relevant for the conservation and sustainable use of biological diversity".

1. Relevant Articles of CBD

Article 10. Sustainable Use of Components of Biological Diversity

- Each Contracting Party shall, as far as possible and as appropriate:
- (a) Integrate consideration of the conservation and sustainable use of biological resources into national decision-making;
- (b) Adopt measures relating to the use of biological resources to avoid or minimize adverse impacts on biological diversity;
- (c) Protect and encourage customary use of biological resources in accordance with traditional cultural practices that are compatible with conservation or sustainable use requirements;
- (d) Support local populations to develop and implement remedial action in degraded areas where biological diversity has been reduced; and
- (e) Encourage cooperation between its governmental authorities and its private sector in developing methods for sustainable use of biological resources.

2. Minorities in China

China is rich in TK with oral and documented types, as China has a long civilized history over 5000 year and a lot of TK have been recorded literally.

- * China has 56 ethnic groups (nationalities). Except Han, the other 55 ethnic groups are called "minorities", including Tibetan, Inner-Mongolian, etc.
- * The minorities in China is similar to indigenous and local communities (ILCs) because they are basically kept their traditional lifestyles.
- * 55 minorities together has less 10% of whole China's population, but occupying 62% of China's land territory.





3. Categories of TK in China

- TK's categories
- ❖ Based on the concept of TK in CBD, WIPO and WTO, incorporation of Chinese domestic situation, we divide the TK into 5 categories, according to their attributes and usages.
 - (1) Knowledge for use of traditional genetic resources in agriculture (simple as: traditional genetic resources)
 - (2) Knowledge of traditional medical and medicines for healthy (simple as: traditional medicines knowledge)
 - (3) Knowledge of traditional technologies, cultivation modes and lifestyles (simple as: traditional technology and practices)
 - (4) Knowledge of traditional cultures reflecting biodiversity conservation and sustainable use of bio-resources
 - (simple as: traditional cultures)
 - (5) Knowledge of geographical biological indicators (simple as: traditional indicators)

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环境保护部公告

公告 2014年 第39号

关于发布《生物多样性相关传统知识分类、调查与编目技术规定(试行)》的公告

为积极履行《生物多样性公约》,推动《中国生物多样性保护战略与行动计划》(2011-2030年)的贯彻实施,我部编制了《生物多样性相关传统知识分类、调查与编目技术规定(试行)》。现予以发布。请结合实际工作,参考执行。

联系人: 环境保护部自然生态保护司赵富伟蔡蕾

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附件: 生物多样性相关传统知识分类。调查与编目技术规定(试行)

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2014年5月30日

发送: 教育部、科技部、国家民委、国土资源部、住房城乡建设部、农业部、文化部、林业局、知识产权局、中科院、海洋局、中医药局,各省、自治区、直辖市环境保护厅(局),新疆生产建设兵团环境保护局,辽河保护区管理局。

环境保护部办公厅2014年6月3日印发

3.1 Use of the genetic resources for agriculture

This kind of TK refers to

- knowledge about domesticating, cultivating and using of cultivated plants or varieties and domesticated animal species or breeding varieties, and utilization of other biological resources;
- knowledge created and cultivated by local community and its people through production and living process in long history.
- knowledge of this kind mainly based on the exploit and utilization of biological resources and genetic resources, such as the local crop varieties, indigenous animal breeds, traditional fruit trees and flowers, and their preservation.

3.1 Use of the genetic resources for agriculture

It includes the following 8 classes:

- (1)Knowledge of traditional usage of crop varieties
- (2)Knowledge of traditional usage of domestic animal varieties resources
- Knowledge of traditional usage of aquatic organisms
- Knowledge of traditional usage of forest and trees
- Which is the second of the
- Knowledge of traditional usage of wild plants
- Knowledge of traditional usage of wild animals
- Knowledge of traditional usage of microorganism and others











3.2 Use of medicinal species

This kind of TK refers to

- knowledge of creative, inherited, cumulative medical knowledge, technology and innovation of using medical biological resources.
- •knowledge created and cultivated by local community and its people in the long-term to <u>fight against nature</u> and diseases.

3.2 Use of medicinal species

It includes the following 7 classes:

- (1) Traditional medicinal herbs and other organisms
- (2)Traditional medical theory
- (3)Traditional therapy and treatment
- (4) Traditional pharmaceutical technology
- (5)Traditional prescriptions
- Traditional knowledge for health care
- Others



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四部医典

क्तीयर्ट्यं कुर्त्यू लब्जयायक्रेर्य

ग्रार प्रश्वरम् में कुर्

डेशज्ञन गत्वाराशी

宇妥・元丹贡布著

上海科学技术出版社

一位半天屋中来天雲用天炮也烟三味后為此下即於 一治 數 獎 在 直用 數 與 来 吃下 即止 一治老鼠庭宜用苗色信点吸烧灰比下即效 一治蜈蚣 產 宣皮於如民 查 山金水用珠以对棉上即效 一治飛跃庭鱼用三种吃下野山 一治南蛇在 等把機断入紙中將者 布家玩鬼对而麻不即效 宜用泡木香夹豆吃泡 新菱是对雄黄吃不又为雄黄颗灰大



3.3 Technical innovations for use of biological resources and traditional farming and lifestyle practices

This kind of TK means practical technologies created by ethnic people and communities in long-term agriculture production and life practices. These technologies, which have positive effects on biodiversity protection and sustainable utilization of biological resources and which are valuable for improving food quality and ensuring food safety, are comprised by <u>traditional ecological agricultural technology and biological resources process technology</u>.





Dongba paper-making

3.3 Technical innovations for use of biological resources and traditional farming and lifestyle practices

It includes the following 5 classes:

- (1) Traditional eco-farming system
- (2) Traditional handicraft industrial technology (tie dye, spinning, etc)
- (3) Traditional food processing technology
- (4) Traditional eco-planning and designing technology
- Traditional craftsmanship and others







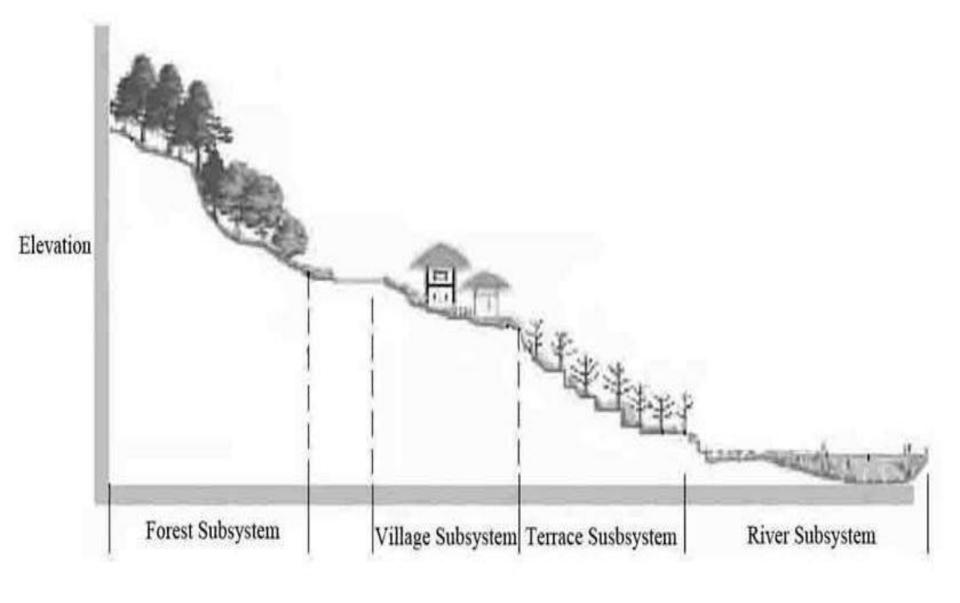


Fig.1. Structure of Hani Terraced Fields Complex Ecosystem





3.4 Traditional cultures and customary laws related to conservation and sustainable use of biological resources

Knowledge of this kind includes <u>folk art, literature, artificial, and painting that embody</u> <u>biodiversity protection and sustaining use; traditional religion culture,</u> such as totem, religion practices (rituals), and sacred mountains, sacred forest and geomantic omen (Fengshui) with environmental protection awareness in the religion; <u>customary law,</u> village protocol, including biological resources protection and utilization practice of township regulations, clan system, and ethnic customs.



Drung's totemism



Sacred forest

3.4 Traditional cultures and customary laws related to conservation and sustainable use of biological resources

It includes the following 6 classes:

- (1) Traditional religious beliefs and ecological ethics
- (2) Traditional festivals and rituals (sacrificial offerings)
- (3) Customary laws (village protocol)
- (4) Folk arts
- (5) Traditional food and drink culture
- (6) Others

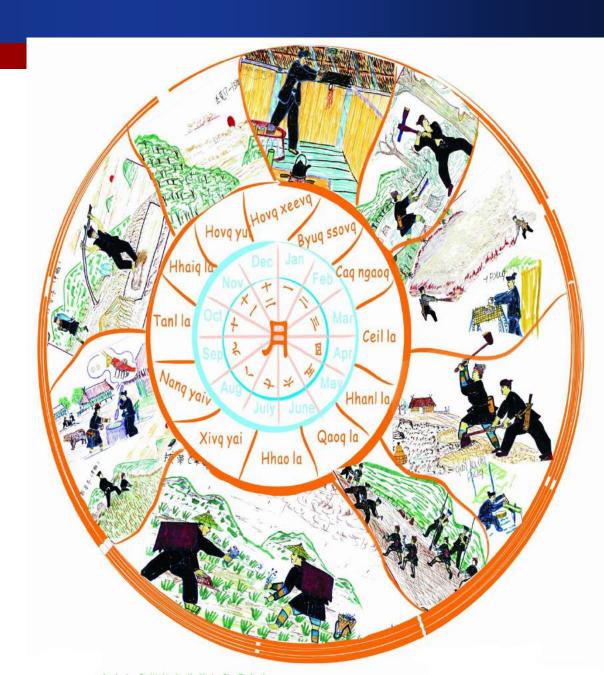






每年定期举办中国芦笙斗马节,提升融水旅游的吸引力

Calendar of
Hani ethnic
people
(Rice cultivation
calendar)



3.5 Traditional geographical indicators (GI) for biological products

Biodiversity-related GI mainly refers to <u>biological resources</u> <u>products</u> in specific areas with excellent reputation and a long history, embodying the special biological resources, environment, social economic and ethnic culture characteristics, blended with traditional variety resources, traditional cultivate technology, traditional sale and diet culture and other traditional knowledge.



Pu'er Tea



3.5 Traditional geographical indicators (GI) for biological products

It includes the following 4 classes:

- (1) Traditional geographic indicators for food products
- (2) Traditional geographic Indicators for medicinal products
- (3) Traditional geographic indicators for art crafts
- Others









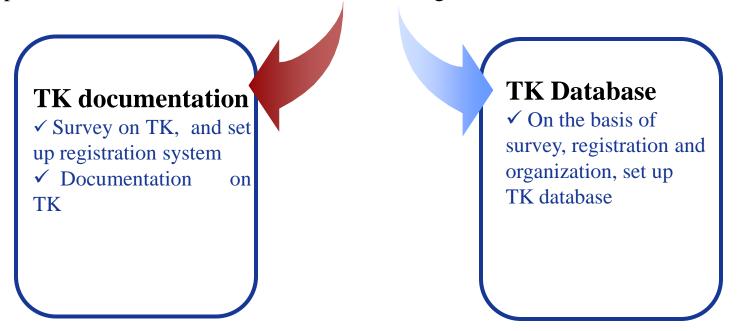


4. Database of TK in China

TK is facing a lot problems, such as:

- 1) The complicated right-belonging relationship of TK sets back to formulate relevant laws;
- 2) The actual patent system neglects the protection on TK;
- 3) Bio-piracy events occur so frequently that TK are accessed overseas illegally;
- 4) TK also faces the threaten of lose by introducing alien cultures.

To protect TK, we need to consider the following actions.



4. Database of TK in China

Classification system of TK

- TK has 5 categories.
- Each category of TK can be classified into different sub-categories, total is 30 classes.
- Each class contains a series of vocabulary entries.
- Entry is the basic unit of TK, described by a series of data

4.1 Contents of Documentation

The basic unit of TK is vocabulary entry (lemma) Each entry contains information as follows:

Title	Specific- ation of TK	Owners	ABS	Conservatio n & utilization	Evaluation	Proof materials
	✓Background	✓ Family or	✓International	✓ Status of	Economic	✓Specimen
✓TK name	✓Description	personal	ly recognized	Utilization	sense	✓Images
✓ Code ✓ Attribute	✓ Characteristi	*	certificate	✓ Threatened	✓Cultural sense	✓Related
✓ Privilege	cs of TK	or group	✓Access	Status and	✓Ecological	database
	✓ Spatial and	✓Uint	progressing	factor analysis	sense	✓ Multimedia
	temporal	✓Nation	√Common	✓ Protecting	✓Threatened	✓ References
	distribution		agreed	measures	level	✓Others
	√Others		conditions	√Case	✓Total	

4.2 Documentation of TK in China

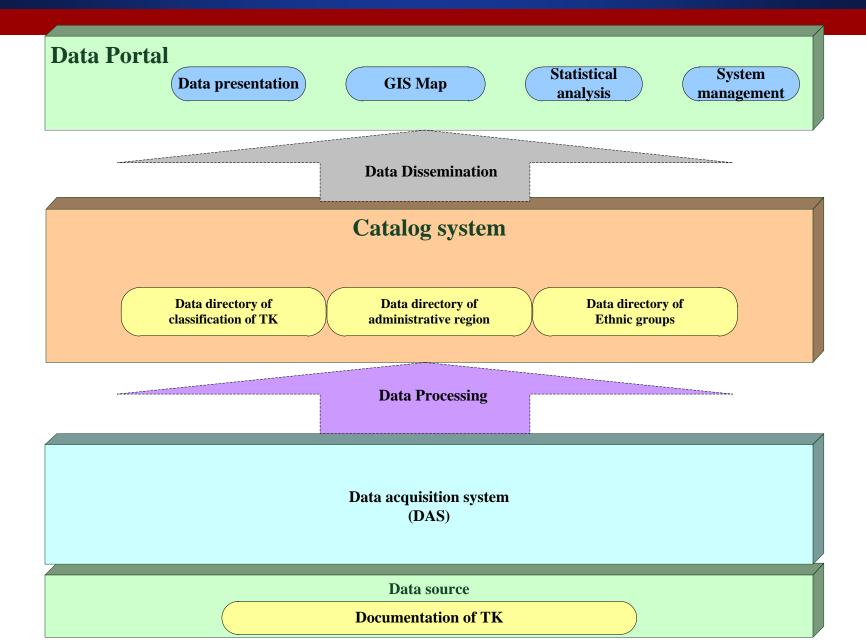
≻Objectives

- ◆ Management and protect TK in China
- ◆ Promote the sustainable use of TK widely
- ◆Link TK to modern scientific and patent literature
- ◆Use database for defensive and positive legal protection
- ◆Increase International recognition of TK in China

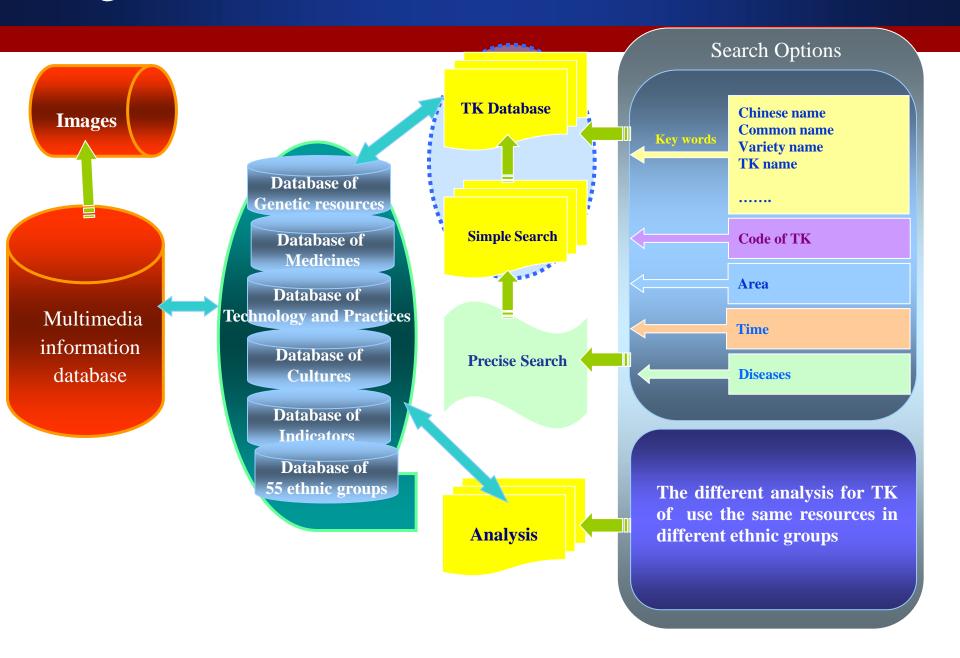
➤ Target Audience

- ◆ International Patent Offices
- **◆**Public
- **◆**Professional Research Experts

4.3 Framework of TKDL of China



Design of TKDL in China



4.4 The index of TKDL in China

According to the classification and documentation system above, the TKDL of China is underway for development.



4.5 Area Search Based on GIS



Conclusion

- Conservation and inheritance of TK is beneficial for whole human beings, while loss of TK would lead damage to the human civilization.
- * TKs' sustainable use will technically support ILCs to get benefits from the use of their TK and associated genetic resources
- ❖ It is important to promote the capacity building of ILCs to protect TK and their sustainable use.
- * TKDL is an efficient tool to promote TK's protection and sustainable use, resulting in more benefits to ILCs.
- There is a trends to develop legislation on TK protection and benefit sharing both in international and national level, but face to a lot of challenges.



Thank You!