report

Intellectual and Cultural Property Rights of Indigenous and Tribal Peoples in Asia

By Michael A. Bengwayan

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Note

In the main text of this report, the term 'indigenous peoples' is used to include tribal peoples.

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Preface

Indigenous and tribal peoples, worldwide, taicenal meetings, there is a growing apprecia facing complex threats to their survival taison by international agencies of the distinct peoples. Not only are they confromotopolexity of indigenous peoples discourse. The World Intellectual Property Organization with dispossession of their lands and resources, and physical persecution, but there) has begun discussions on the issue of are also faced with the appropriation of time ingenous peoples intellectual and cultura collective knowledge developed through the property rights, although many indigenous ages. Traditional knowledge of medicinal peoples are not entirely happy with ?the pro plants and crops is being taken by multinacess. The UN has also undertaken a study on tional companies, while traditional songs taked heritage of indigenous peoples and put designs are being commercialized for the forward several recommendations but these tourism industry. The issue of indigenous remain recommendations only. cultural property rights is becoming more any dost of the discussions at the internation level on the issue remain elitist - only a v more urgent for indigenous peoples.

On the international front, the Draft $D \notin e w$ indigenous individuals are able to parti laration on the Rights of Indigenous Peopleste and information regarding the is taking a long time to be adopted by the discussions or outcomes is not extensively United Nations (UN), despite it being interhickseminated. There is a gap between the ed to be the minimum standard for the international debate and the local realities protection of indigenous peoples [] rights. Mchais indigenous communities are faced with is unfortunate as other international insthife?threatening issues that keep them from ments are in the meantime being ratified anothively engaging in international policy are adversely impacting on indigenous peo advocacy work, and yet many of the issues ples cultural rights. For instance, under that indigenous peoples face on the ground General Agreement on Tariffs and Trade are brought about by the implementation of (GATT), the Trade?Related Aspects of Intepolicies crafted at the international level. lectual Property Rights agreement (TRIPS) \mathcal{L} learly there is a need to bridge this gap a puts both indigenous peoples and developing more information to the people in the nations at a disadvantage by imposing an communities.

intellectual property rights regime that doeEndigenous and tribal peoples of Asia, not take into account the diversity of cucomprising about one?third of the global tures. Article 8j of the UN Convention on indigenous population, are faced with partic Biological Diversity (CBD), gives minimalular difficulties. Most Asian governments ar recognition of indigenous peoples rights cash?strapped and therefore need to exploit does not protect indigenous peoples from all resources (including intellectual and cu the drive by multinational companies to tural resources) in order to generate income patent plant and animal materials - resourceEndigenous peoples are being dispossessed that are generally found in the biodiverse of their ancestral lands to make way for territories of indigenous peoples - for theines, dams, logging concessions and potential medicinal and agricultural valuepurism complexes. In many cases, they do without the knowledge or consent of the not receive any compensation for lost lands. peoples who have protected and nurtured Additionally, many governments in Asia insis such resources. on viewing the indigenous issue as a [West

Due to the active lobbying by indigenousrn[] concept that does not apply to the peoples [] representatives in various? intermægion. This makes it doubly difficult for

Mark LattimeDirector April 2003

Introduction

ever lost and the forests are just memories, we will weep. Not for the weep with our own blood. □

met him in the Palanan Wilderness Area, iπthe ∏economic interest∏ of the state. Any forest, with khilsibewand pana (bow and figurement which years before tested a young man∏s bravery. He stands just over was decades ago. Today, he and his small band of Agta people are moving deeper int **Box 1: The indigenous peoples of Asia** the forest which itself may not be around much longer. They are seeking refuge from the invading mainstream population who scorn them, from the military and police

authorities who provide them with no just: or protection and from the government authorities who call them [animals].

These people are one of Asia[]s indigeno peoples marginalized by incoming settlers Indigenous and tribal peoples see themselv as distinct from the mainstream. They spea their own languages, are largely self?suf: cient, and their economies are tightly bou to their intimate relationship with their Their culture is different from that of the mainstream, inherited from their forebears and adapted to their current situation. Th have often lived on their lands for thous; of years.

It is difficult to generalize about Asi indigenous and tribal peoples. They 2 ncom pass a huge variety of peoples, living ver different ways of life in a great variety environments. One thing that they do have common is the oppression and marginaliza tion they experience. Often they suffer di

[When the trees are gone, the deer for violence, for example in Papua New Guinea, in Burma/Myanmar and in the Chittagong Hills of Bangladesh. They also suffer from land that is bare and dead. But for us, [development] efforts by their own govern our children and their children. When ments and by multinationals, through the there are no more tears to fall, we willake?over of their lands and resources. In most parts of Asia where indigenous peoples

land rights are recognized, the government This is what Salak Dima said to me when Iretains the power to overrule these rights in the Philippines in June 2001. Salak Dima pleavelopment, from logging to dam?building, sonifies what journalists call a [man of the justified in this way, leaving no pro tection and providing little compensation for arrow), and his chest scars - intentional the millions of indigenous people who rely on their land for survival.

The intellectual and cultural property rights four feet and weighs no more than a hundred CPR) of indigenous peoples are also under pounds. When I first met him, he lived in threat. These include their beliefs, knowledge most remote tropical jungles of the Palanamagricultural, technical, medicinal, ecological Wilderness Area of Isabela, Philippines. Thoutable and immovable cultural properties

It is estimated that there are 190 million indigenous people in Asia. Some 75 million live in India and 30 million in South-East Asia. Among Asian indigenous peoples are:

- · Adivasi, Dalits, Assamese, Manipuris and Tamils of India and Sri Lanka
- · Jarowa tribes of Andaman Island, India
- Uighurs of Tibet
- Ainus of Japan
- Lisu people of Thailand, India, China and Burma/Myanmar
- Philippine tribes
- · Hani and Akha peoples of Yunan, China, Laos, Vietnam,
- Thailand, Burma/Myanmar and SW China · Penans of Sarawak, Malaysia
- Karen tribes of Far East Asia
- Sakas of Central Asian Steppes
- Jummas of the Chittagong Hill Tracts of Bangladesh
- Amungme of Papua, Indonesia
- Mongol Uzbeks of Afghanistan, Uzbekistan,
- · Papua tribes of Papua New Guinea
- Highland Tajiks of Tajikistan
- · Siberian tribes of Russia
- Sindhs and Sindhis of Pakistan
- Udege tribes of Russia
- · Punjabis of India
- Khamty tribes of Russia
- · Dayaks of Borneo, Malaysia
- Naga natives of Nagaland, India
- Tharus of Nepal and India
- Pangcah People of Taiwan
- · Bentians of Indonesia
- · Orang Asli of Malaysia
- Hmong of Cambodia, Vietnam and Laos

(human remains; sacred burial and prayer Indigenous peoples are concerned that the grounds), customary laws, traditions, righted side world has appropriated their arts an to flora, fauna and biodiversity in their and destral expression: performances, musical arts and artistic works and other forms of and artistic works including indigenous cultural expression, handed down through words, designs, motifs, symbols, artworks, the generations. songs, stories and dances. In many instances

These intellectual and cultural propertiese of indigenous arts and cultural? expres are living traditions that are vital to the orderation place without the knowledge or ty and cultural survival of the indigenous permission of the indigenous artists, or the peoples. They are holistic and cannot be artists communities. Sometimes such use is divided. Given that indigenous knowledge is nappropriate, derogatory or culturally offe collectively owned, only the group as a whole.

may consent to sharing indigenous cultural Indigenous peoples are also concerned and intellectual property. about the unauthorized use and reproduction

Box 2: Definitions

The United Nations (UN) has accepted the definition of indigenous peoples put forward by José Martínez-Cobo, the Special Rapporteur to the Subcommission on the Prevention of Discrimination and Protection of Minorities. In his report, entitled *Study of the Problem of Discrimination Against Indigenous Populations*, Cobo states:

'Indigenous communities, peoples and nations are those which having a historical continuity with pre-invasion and pre-colonial societies that developed on their territories, consider themselves distinct from other sectors of societies now prevailing in those territories, or parts of them. They form at present non-dominant sectors of society and are determined to preserve, develop, and transmit to future generations their ancestral territories, and their ethnic identity, as the basis of their continued existence as peoples, in accordance with their own cultural patterns, social institutions and legal systems.'¹

In addition, the definition or 'coverage' used in the International Labour Organization's (ILO) Convention 169, Article 1 is also widely accepted:

a. 'tribal peoples in independent countries whose social, cultural and economic conditions distinguish them from other sections of the national community, and whose status is regulated wholly or partially by their own customs or traditions or by special laws or regulations; b. peoples in independent countries who are regarded as indigenous on account of their descent from the populations which inhabited the country, or a geographical region to which the country belongs, at the time of conquest or colonization or the establishment of present state boundaries and who, irrespective of their legal status, retain some or all of their own social, economic, cultural and political institutions.'²

Moreover, and most importantly, in accordance with indigenous peoples' perspectives, both definitions emphasize *self-identification* as one of the main variables. It should be noted here that, despite common characteristics, no single accepted definition of indigenous peoples that captures their diversity exists. Therefore, self-identification as indigenous or tribal is usually regarded as a fundamental criterion for determining indigenous or tribal groups, sometimes in combination with other variables such as language spoken and geographic location or concentration. about the unauthorized use and reproduction of secret or sacred material and spir2itual r als for commercial purposes. This type of appropriation results in the disclosure of secret/sacred material to those not autho rized to know or view such material.

Perhaps the most serious appropriation, however, and one that is taking place in almost all communities of indigenous and tribal peoples in Asia, is the appropriation indigenous knowledge of biodiversity through [biopiracy]: indigenous peoples] knowledge o plants, animals and the environment is being used by scientists, medical research@rs, nut tionists and pharmaceutical companies for commercial gain, often without their informe consent and without any benefits flowing bac to them.

Indigenous people have long been aware of the medicinal properties of plants in the own areas. Traditional knowledge is regarded as common heritage and not as a commodity to be patented for commercial exploitation, perhaps to the exclusion of traditional own ers. As with many other aspects of indigenous culture, knowledge of different plants and their healing properties is restricted to a particular class of people. Knowledge of the therapeutic properties of plants is passed on orally, from generation generation. Indigenous people gain access to such knowledge when they have attained the appropriate level of initiation.

Indigenous medicinal knowledge is sought after by medical researchers and phar?maceu tical companies to save research time and money. When plants are identified as having commercial potential, their active propertie are isolated and the pharmaceutical company takes out a patent on inventions relating to those plants, even though their benefits haves biopiracy has spread, indigenous peo been known to indigenous people for yearsples saw that the quest for plant and animal

Indigenous peoples are alarmed that species necessitates access to their lands. knowledge concerning the nutritional use **CT** his has led governments to exercise rights indigenous resources is being extensively over the land, and to the denial of the rights documented. They are concerned that such of indigenous people to their traditional information is often given to researchers lammeds. The process places indigenous people others without indigenous people realizing in positions where they cannot manage and how this information might be exploited. There elop their inherited medicinal and agri food industry increasingly recognizes the cultural knowledge. value of indigenous knowledge concerning the Government conservation authorities and nutritional benefits of particular plants mand inational companies are collecting speci animals.

programmes to create inventories. The col

Asian indigenous peoples' struggle for ICPR

Indigenous peoples' ICPR defined

the heritage of a particular indigenous people must be decided by the people themselves.

Indigenous people view the world they live in

as an integrated whole. Their beliefs, knowl light of Daes[s findings and recommenda edge, arts and other forms of cultural tions, this paper adopted the following expression have been handed down through working definition of [indigenous cultural a the generations. Their many stories, songsintellectual property] based on the definiti dances, paintings and other forms of expresheritage[] contained in the Report of the set sion are therefore important aspects of nar on the Draft Principles and Guidelines f indigenous cultural knowledge, power and the Protection of the Heritage of Indigenous identity. Theady on the Protection of the People.

Cultural and Intellectual Property [HeritageTheofcultural and intellectual heritage of Indigenous Peoplesby UN Special Rapporteurindigenous peoples comprises the traditional Erica Irene Daes, of the Economic and Socipractices, knowledge and ways of life unique Council[s (ECOSOC) Sub?Commission on the to a particular people. The guardians of an Prevention of Discrimination and Protectiondifgenous peoples[] cultural and intellectua Minorities, confirms this approach. property are determined by the customs, laws

According to Daes, a song or story is national approximations of the community, and can be commodity or a form of property [but one difidividuals, a clan or the people as a whole the manifestations of an ancient and contlinue heritage of indigenous people includes: ing relationship between people and their

territory[]. So she considers it is more appropriate appropriate and simpler to refer to the collective ceremony;

cultural heritage of each indigenous people¥ agricultural, medicinal, technica? and ear rather than to make distinctions between logical knowledge and practices;

indigenous peoples[[cultural property] and¥ spirituality, sacred sites and ancestral
[intellectual property]. Any attempt [to tryhuman remains;

subdivide the heritage of indigenous peoples documentation of the above.

into separate legal categories such as [cultur

al[], [artistic] or [intellectual] or into Iseplandede in indigenous peoples] heritage is elements such as songs, stories, science cintellectual propervityich includes the sacred sites], would be inappropriate. [Alinfechemation, practices, beliefs and philosop ments of heritage should be managed and that are unique to each indigenous culture. protected as a single, interrelated and inWheen traditional knowledge is removed from grated wholg. an indigenous community, the community

loses control over the way in which that

[] heritage includes all expressions of knowledge is used. In many cases, this sys the relationship between the people, tem of knowledge evolved over centuries and their land and the other living beings **as**duniquely bound up with the indigenous spirits which share the land, and is th**p**eople[]s customs, traditions, land and basis for maintaining social, economic resources. Indigenous peoples have the right and diplomatic relationships - through to protect their intellectual property, incl sharing - with other peoples. All of then the right to protect that property again aspects of heritage are interrelated and ts inappropriate use or exploitation. cannot be separated from the traditional As science and technology advance while Territory of the people concerned. What natural resources dwindle, there is increase tangible and intangible items constitutenterest in appropriating indigenous knowl edge for scientific and commercial purposessic pollution, diseases, militarization, star Some research and pharmaceutical companiesvation, social and cultural destruction, and are patenting, or claiming ownership of trande ruin of traditional ways of life. tional medicinal plants, even though According to some commentators, levels indigenous peoples have used such plants for global consumption are contributing to generations. In many cases, these companieshe threat to indigenous lands and the envi do not recognize indigenous peoples tradironment. Oil and mining companies have turned to indigenous lands to keep up with tional ownership of such knowledge and deprive indigenous peoples of their fair schemaend and indigenous peoples are subject in the economic, medical or social benefitts a [discourse of dominance] by corpora that accrue from the use of their traditionianhs and governments, which leaves them out of decisions affecting theirThands. knowledge or practices.

Worldwide, despite international recognorocess has been exacerbated by a shift in tion of the right of indigenous peoples toproject financing away from shareholders preserve and protect their traditional praand states and towards multilateral develop tices, knowledge and ways of life, the culmental gencies and regional banks. heritage of many indigenous peoples is underAn important part of the struggle has threat, and many indigenous peoples are proceen the recognition and elucidation of the vented from enjoying their human rights anothenections between environmental destruc fundamental freedoms. tion and human rights abuses. Asian

In some countries, traditional and sacreadingenous peoples close connection to the sites are exploited or destroyed by the tournestmakes them particularly vulnerable to industry. Many of these sites of spirituale and bgical damage. Extractive activities cultural significance are also ecological threaten patterns of subsistence, living con reserves that have been developed, conserved tions and cultural practices. In some cases and managed by indigenous peoples through governments deny indigenous peoples civil their traditional knowledge and practices and political rights in order to prevent them other cases, indigenous art and sacred matterom resisting the incursions. Some states rials are used without the knowledge or face challenges in reconciling international permission of the indigenous artist?or combuman rights commitments to indigenous munity. Many cultural artifacts and ancestpenobles with the requirements of foreign human remains that were taken from sites direct investment.

without the permission of indigenous peo institutions around the world.

Asian indigenous peoples' strugales

The struggle of Asian indigenous peoples tohetoric, linking environmental concerns to protect intellectual and cultural rights managestional human rights issues. Perhaps the in form from resisting subjugation, territositalimportant innovation has been the increased flow of information through take?over, resources exploitation, the destruction of traditions, and infringementransnational networks and electronic media. customs and lifestyles, to fighting inhumanse an indigenous peoples are now often able treatment, abuse and deprivation of humanto wage their local struggles on a global rights. The colonization of many Asian couffront by working closely with international tries resulted in oppression of indigenousallies.

peoples that continues to this day. In South& transnational movement of environmen East Asia much of the struggle is over landalists, human rights workers, lawyers and and resources, as mining, timber and oil condigenous organizations is emerging to porations encroach upon indigenous peoples fend indigenous rights. The greater inter lands in search for profit. Indigenous peomateisonal recognition now granted to are becoming victims of forced resettlementadigenous rights issues has allowed?indige

Since the early 1950s, Asian indigenous ples, are held in museums and collecting groups have sought and exploited pressure points to bolster their fight for their rights with varying degrees of success. They pursue multilateral strategies that include litigation mass mobilizations, shareholder resolutions and public education. They have refined their

nous organizations to gain legitimacy in tahædindiscrimination by the majority Muslim own countries. population.

Against the odds, indigenous peoples have NGOs like the Bangladesh Rural Advance had some successes. [Divide and rule] tactment Committee (BARC), Bengalis] Union intended to break down their opposition had meuncil and the Tracts NGO Forum are lead failed. Often, there are clear connectionsing the struggle for the full recognition of between resource extraction, human rights Jummas intellectual and cultural property abuses and militarization. In some countries, hts as well as the preservation of? their governments have attempted to stifle the nic, religious and cultural for antitutere growing resistance of their indigenous popus little chance of success unless the gover lations. ment becomes genuinely concerned.

From the Philippines, Indonesia and Malaysia to Papua New Guinea, there is a Nepal. The indigenous people of Nepal are burgeoning indigenous movement against both governments and resource?depleting companies. This movement has brought the environment. It is rural?based, grasspolitical development. They also demand roots?initiated and multiracial. The movement also has concerns about global ization and unfair trade.

undermine opposition to their activities nous ethnic groups are now recognized), through mass media campaigns, challenges end to the traffic in women and an end to to tribal sovereignty and to local authorboinshed labour of the indigenous people, the With their financial resources and politicahamus. connections, oil, timber and mining & compa

campaigning for the amendment of the pre sent Constitution to give indigenous peoples the right to self?government,that they together concerns about human rights and can control their own social, cultural and equal language rights, inclusion of ethnic

identity in the population census and the bi on nationalities (the National Foundation Bi Multinational corporations have sought passed in March 2002, means that 59 indige

nies can sometimes buy off impoverished IndiaIndigenous peoples in India are wag communities¹¹ Yet the indigenous oppositioning a struggle against the widespread remains vibrant and effectivernational plunder of germplasm (i.e. plant cells) and support has focused on a number of indige indigenous knowledge. Already, many plant nous peoples initiatives, as discussed becksources have been lost, without recogni tion or recompense. Equally, they are

Bangladesh The struggle of the Jummas, the campaigning against mega? dams (such as original inhabitants of the Chittagong HiNarmada and Sardar Sarovanh) which have Tracts (CHT) is primarily to do with rightdsistpolaced millions of people worldwide and land and resources. Many Jummas are losindhave drowned large tracts of land once their lands; they have been forcibly evictoescupied by indigenous communities. Not by government military forces. Even when aonly has their land been lost, but also natu government decree ordered that land shouldral resources, cultural treasures, tradition be returned, only a few were able to reclaimfestyles and customs. their lands. Under the government[s new industrial

The Jummas are also being displaced policy, indigenous peoples || lands are being because of the discovery and development dufransferred to non?indigenous persons and to a gas?field in June 2002. The gas reserve foreigners with corporate investments in development has affected traditional food India. The Adivasis, in particular, are tryi sources like home?gardens and age?old restore their rights over forests and to res community forests, and has caused environmining adventures that have already spoiled mental degradation. much of the land that still remains to indig

On another front, more than 100,000 Jumnous peoples.

mas have been uprooted over nearly four decades because of the construction of thesri Lankathe Wanniyala?Aetto (forest Kaptai reservoir. Jummas are Buddhists andbeings), the Sri Lankan indigenous people, they also suffer from religious intolerancere being uprooted from their forest

dwellings, shot at, detained, placed? in restaich is causing tension among indigenous vations and sold as slaves or prostitutes perhole.

International Movement Against All Forms of

Discrimination and Racism (IMADR), an NGO Indonesia The most significant result of campaigns on their behå Bfut the govern indigenous peoples struggle for recognition ment has done little to intervene. The of their rights is the government s granting Wanniyala?Aetto women, in particular, beamof decentralized power. It and the past of the set of the the brunt of this inhuman treatment. (traditional?based) villages powers beyond TibetThe Tibetans are denied their?funda the standard notions of indigenous rights in mental right to self?determination and sufifiebernational legal discourse. One power transferred is that addate village has the from human rights abuses, underdevelop ment, marginalization and repression. The authority to regulate and manage the?inter Chinese authorities do not consult with theests of the local community based on its Tibetans over development processes, and origins, local customs and traditions that the Tibetans are discriminated against in are recognized within the system of national terms of employment. Their culture is alsogoimernment I! It is important to note that danger: many of their schools have been there is explicit reference to indigenous cul closed, their monasteries destroyed and cutsural and political traditions. The tomary lifestyles repressed. Tibetans in themeentralization law [recognizes and honors diaspora continue to put pressure on the Othe adatcommunities as well as their tradi nese government, but, so far, to no effectional rights as far as these remain a living reality and are in line with the development

Taiwan.In 2001, indigenous activists won cof the society, as well as the principles of victory when the government granted antono Republic of Indonesia as a unitary state, my to indigenous peopl²eS his has meant and as they are regulated by laws[]. that indigenous peoples are now included in However, some smalleadatcommunities parliamentary elections, and they can elecate oppressed by larger groups and the state their local chiefs and councillors. The Painsque finding it difficult to address this. Exampl ah people (one of 12 indigenous tribes) wente these oppressed minorities are the shifting also allowed to elect a chieftain. cultivators and hunter gatherer tribes like the Kubu, Orang Rimba, Talak Mamak, Sakai and

PhilippinesMany NGOs are working for the Punan. indigenous peoples intellectual and cultural

property rights in the Philippines and, MalaysiaEncroachment into ancestral lands seemingly, their efforts have paid off, wiath intimidation are two of the many? prob the passing of Indigenous Peoples [] Rights lems facing Malaysian indigenous peoples. Act (IPRA) in 1997. But the body set up to there is no pause in the exploitation of their implement IPRA, the National Commission resources and appropriation of indigenous on Indigenous Peoples (NCIP), suffered fromerritories. political in?fighting and has yet to? be reorHowever, two small victories have been

won by the indigenous peoples. Four Iban ganized. Land ownership remains an issue becausepeople won their cases against a pulp and

Ancestral Domain Titles (CADTs) by the NCIP. CADTs give formal recognition of As of June 2002, only one CADT had been completed, of the 100 promised by Presi dent Gloria Macapagal Arrovo.

two mega?dams, San Roque and Casecnan, despite the protests of indigenous people addressing the problem. and the laying of oil pipelines in Palawan,

of hold?ups in processing the Certificatespageer company that trespassed into their lands. In another victory, a Malaysian court ordered that the Orang Asli have the right to indigenous peoples ancestral rights to large. and derive profit from their customary and ancestral land.

Apart from these victories, however, the struggle to give indigenous peoples the right The government has also reneged on 2ear to their traditional territories has been lier promises, allowing the construction owaged for some time without much success, as the government shows little interest in

ThailandIn 1997, the Chao?Chaos, a mixed The government has allowed the con grouping of indigenous tribes in northern struction of three mega?dams, which Thailand numbering almost a million, were threaten the livelihood of indigenous people granted a peoples∏ Constitution which living along the banks of the Mekong and Da allowed them to participate in the democrativers, and some 100,000 people have ic process in the country are led by already been forcibly evicted. the Assembly of Indigenous and Triba? peo Today, social activists working with and ples of Thailand (AITT). for Vietnamese indigenous tribes plan and Together with the Northern Farmers? Net work covertly, in danger of being imprisoned work, AITT is pressing for the adoption of maput to death as [traitors] to the new community Forest Bill, which will give republic. indigenous peoples recognition of their right to their traditional resources and Manage Laos. Laos has a similar policy to that of ment practices. Vietnam, which aims to eradicate all tradi tional forms of agriculture by its indigenou peoples²⁶. As a result, hundreds of <code>%</code> hou Cambodia. The year 2001 saw positive developments in Cambodia with regard to sands of Hmong are being removed from indigenous peoples struggle for land rightseir ancestral lands and relocated to areas and the protection of their forests and nawhich are not suitable for their lifestyle a ral resources. Local activists and NGOs cultural practices. headed the campaign for a new law that There is little resistance from the Hmong, gave provision for land tenure for?indige even as they continue to live under extreme pressure. The government has removed the nous people. Those who now have ownership and control of their lands are indigenous populations using military force enjoying their rights to their resources, asuchallowed gold and copper mining?con as in the tapping of resin and developmentcessions on ancestral lands. There is also a of inland fisheries. plan to build a mega?dam on the Nakai The government created the Department Plateau, where some 350,000 indigenous of Ethnic Minorities Development in Januarpeople live. 2002, and heeded the complaints of the Khmers against a military general who Burma/Myanmar. It is perhaps only in almost defrauded the local peoples of the Barma/Myanmar, out of all the states in lands and forest resources. Asia, that the indigenous peoples form a majority. But under its military rule, polit Vietnam.Vietnam has a government that is detentions, harassment, militarization, mili oppressive towards its indigenous popula tary offensives, forced labour in labour tion and does not allow advocacy activitiesamps and an educational crisis are In October 2001, the government Ministrwidespread. Women face rape, [marriage] to of Agriculture and Rural Development and military men and are trafficked by the mili the Department for Sedentary Farming tary as slaves, labourers and prostitutes. announced a campaign to [wipe out tradi With the popular democratic leader Daw tional nomadic life and swidden farming of Afing San Suu Kyi still banned from making a its indigenous population government political comebackhe future remains is attempting to eradicate traditional shinficienctain. As many as 2 million internally agriculture, which is the lifeline of mostdisplaced persons and refugees have been highland indigenous peoples including the generated during decades of conflict. Banar, Ehde, Jarai, Koho and Mnong tribes, thousands of whom were imprisoned after The Mataatua Declaration calling for independence in February²⁴2001. The lifestyles, customs and traditions of One initiative by indigenous peoples? repre these people are affected as the military sentatives and advocates was the First conduct restrictive campaigns. Many of the Isnet ernational Conference on the Cultural and indigenous people have fled to Cambodia. Intellectual Property Rights of Indigenous Peoples held in Aotearoa/New Zealand on

12-18 June 1993. It declared that [Indige International Year for the World]s Indigenous nous peoples of the world have the right theoples. Over 150 delegates from 14 coun self?determination and in exercising that tries attended the historic conference, right must be recognized as the exclusive including indigenous representatives from owners of their cultural and intellectual Aotearoa/New Zealand, Australia, the Cook property?] Islands, Fiji, Japan, Panama, Peru, the Philip

The conference was held at a time when, pines, Surinam and the USA. as its way of recognizing the role of indigeThe representatives met over six days to nous peoples in biodiversity protection and scuss a range of issues — the value of conservation, the UN had declared 1993 theindigenous knowledge, biodiversity and

UN efforts to protect indigenous peoples' ICPR

As indigenous peoples in Asia strengthen **The Stockholm Conference** their effort to win recognition of their rights, a number of international instruments have he 1972 UN Conference on Human Envi been initiated by the UN to support the ronment in Stockholm was the first major rights of indigenous peoples to protect animiternational discussion on environmental enjoy their cultural heritage. One was the ssues³. The conference started the process Draft Principles and Guidelines for ?the Prof investigating the contradictions between tection of the Heritage of Indigenous Peopthe, priorities of economic growth and envi which recommends standards for govern ronmental protection. The governments of ments to ensure that the heritage of some Northern countries, which have used indigenous peoples survives for future gemp their own resources and appropriated the erations and continues to enrich the resources of the South through colonization, common heritage of humanit³⁵ have begun to push for environmental? pro

The UN Educational, Scientific and Culttection. In contrast, governments of al Organization (UNESCO) also Southern countries have sought to exploit co?established the Model Treaty on the Prowhatever is left of their natural resources tection of Expressions of Folklore againstbring about more economic growth. Since Illicit Exploitation. The Treaty recognizetshe Stockholm Conference, the debate on indigenous peoples as the traditional ownerces to balance environmental concerns and of artistic heritage, including folklore, emossionic development has continued. Also, and dance, created within indigenous? territhe issue of biodiversity has gained legal tories and passed down through the and political prominence.

Yet these international enactments have The World Commission on failed to provide a working system and applicable standards that could ensure the implementation and enforcement of the Taking off from the Stockholm Conference, instruments. In particular, the nature of the UN

indigenous peoples intellectual property General Assembly created the World Tom which is often inseparable from spiritual mission on Environment and Development cultural, social and economic aspects of (WCED), which issued its report Com? indigenous life, and the notion of collectmore Future, popularly known as the ownership of such property, are not ade Brundtland Report, in 1987. The report quately addressed in existing internationaintroduced the concept of []sustainable intellectual property law. development[], which attempts to make?eco

This is not to say that there have been nomic growth and environmental protection international efforts to address the problem plementary and mutually dependent. of indigenous peoples resources. The most the Brundtland Report also emphasized the widespread and fundamental threat to role of indigenous peoples in preserving indigenous peoples resources is the failubric diversity. (often by states) to respect and protect the

right of indigenous peoples to control their The isolation of many such people [i.e. own territories under their customary forms indigenous peoples] has meant the of ownership. Recognizing this, the UN has preservation of a traditional way of life sponsored several initiatives to resolve thein close harmony with the natural envi problem. ronment. Their very survival has

depended on their ecological aware ness and adaptation. [These

communities are the repositories of vast accumulations of traditional knowledge and experience that links humanity with its ancient origins.□ larger society, which could learn a in sustainably managing very complex that as formal development reaches more deeply into rainforest, deserts, and other isolated environments, it tends to destroy the only cultures that Convention on Biological have proved able to thrive in these environments.∏

The Brundtland Report recommended:

The starting point for a just and humane society for such groups [i.e. and protection of their traditional groups∏ own institutions to regulate rights and obligations are crucial for maintaining the harmony with nature and environmental awareness charac Hence the recognition of traditional rights must go hand in hand with?mea sures to protect the local institutions1972 Stockholm Conference, genetic use. The recognition must also give local communities a decisive voice in the decisions about resource use in their area.

The Rio Earth Summit

introduced in the Brundtland Report, becameelatives of domesticated species; and the theme of the June 1992 UN Conference genetic variants of wild resource species. on Environment and Development (UNCED) documents, including Agenda 21 and the

lectual and cultural property rights. Agenda 21, particularly Chapter 26, recognizes and seeks to strengthen the role of indigenous peoples and local communities in sustain [Their disappearance is a loss for the able development]. Chapter 26, Section 3 provides that in [full partnership] with great deal from their traditional skillsindigenous peoples and their communities, governments and, where appropriate, inter ecological systems. It is a terrible irgpyernmental organizations should aim to set in motion []a process to empower indigenous peoples.

Diversity

Critics say the Convention on Biological Diversity (1992) was produced at the [behest of interests mostly from the North (govern ments, corporations and NGOS⁰)As one critic noted, the CBD actually evolved from indigenous peoples] is the recognition the initiatives of Northern groups such as the IUCN (World Conservation Union), which rights to land and the other resources led to the exploration of the possibility of that sustain their way of life - rightsnegotiating an international treaty on bio? they may define in terms that do not fitliversity. The IUCN prepared various drafts into the standard legal systems. These on in sitconservation within and outside protected areas.

It is not surprising that the initial driving force for Northern groups such as the IUCN was the issue of conservation, because teristic of the traditional way of lifeNorthern governments were concerned and continue to be concerned about how to access the South[s biodiversity. Before the that enforce responsibility in resourceresources were regarded as open?access resources, meaning anybody had the right to use these resources for free. Genetic resources are the heritable characteristics of a plant or animal of real or potential benefit to people. They include modern cultivars (i.e. cultivated varieties) and breeds; tradi tional cultivars and breeds; special genetic The concept of \exists sustainable development \exists , stocks (breeding lines, mutants, etc.); wild

The situation that the CBD seeks to in Rio de Janiero, Brazil, also known as tandedress is not only the alarming loss of bio Rio Earth Summit. The Earth Summit was a diversity, but also its uneven distribution in watershed, and led to the production of vittmel world. The developed North is biodiver sity?poor but, in many cases thanks to Convention on Biological Diversity (CBD). indigenous peoples, the South has retained Despite their limitations, Agenda 21 and ome of its biodiversity resources.

the CBD can help advance the struggle of Southern countries have found it neces indigenous peoples in protecting the Pr internet to assert their sovereign rights over

their natural and biodiversity resources. The objectives of this Convention, to be Principle 2 of the Rio Declaration, and the pursued in accordance with its relevant CBD, reiterated the sovereign right of states rovisions, are the conservation? of bio over their natural and biodiversity resourceboqical diversity, the sustainable use of Article 3 of CBD states: its components and the fair and equi

States have, in accordance with the Charter of the United Nations and the principles of international law, the sovereign right to exploit their own resources pursuant to their environ mental policies, and the responsibility to ensure that activities within their jurisdiction or control do not cause damage to the environment of other national jurisdiction.

table sharing of the benefits arising out of the utilization of genetic resources, including appropriate access to genetic resources and by appropriate transfer of relevant technologies, taking into account all rights over these resources and to technologies, and by appropriate funding.43

The CBD[s Article 8j outlines what benefits states or of areas beyond the limits of should redound to indigenous peoples:

The national sovereignty principle answers key concerns of Southern governments. But critics like the Barcelona?based Genetic Resources Action International (GRAIN) say ithese with the participation and prior does not necessarily work in favour of indigenous peoples, who are acknowledged to have helped sustain and nurture the world[]s biodiversity resources. Governments

¥ respect and protection for the knowledge, innovations and practices of indigenous peoples and local communities;

¥ promotion of the wider application of informed consent of the knowledge?hold ers; and

¥ equitable sharing of benefits.

of both North and South still do not record should be noted, however, that the Articl nize the rights of indigenous peoples to does not mention any rights at all. It merel their territories and resources, much lesscalls for respect and protection of indigeno their right to self?determination. Indigerkonoswledge. In various arenas, such as the peoples || leaders and advocates also com Conference of Parties, indigenous peoples || plain that the CBD does not explicitly representatives and advocates have tried to recognize that indigenous peoples have suchably for the inclusion of indigenous rights the CBD, but without success. Indigenous rights.

Vandana Shiva, a noted Indian engiron peoples can put the provisions of Article 8j mentalist and physicist, commented early ognood use, however, particularly the three that the USA agenda was to have the CBD main components cited earlier. pave the way for free access to the South S The CBD affirms the sovereignty of nations biodiversity while at the same time ensuringer their biological resources. It also acc that intellectual property rights to the USA sconcept of intellectual property over li own technologies, particularly biotechnolchings and encourages bilateral arrangements gy, are protect⁴²d. between those who want access to resources

Critics have pointed out that the CBD iand knowledge (for example, corporations) strong on patents but weak in protecting taked governments. The Convention does not rights of indigenous peoples and local comdefine protection at the level of the commu munities to their biodiversity and nity, thus setting the stage for knowledge. intercommunity conflicts or conflicts betwee

According to those who have been moni a government and its communities. Overall, toring the CBD s formulation, the CBD is the Convention lacks teeth: it has no mecha basically a framework convention which laysisms to control outsiders access to down the goals and policies for achieving indigenous bio?resources (for example, a the objectives stated in Article 1: binding code of conduct) and no mechanisms

to determine the equitable sharing of bene fits.

Draft Declaration on the Rights of Indigenous Peoples

Now almost a decade old, the Draft Declara tion on the Rights of Indigenous Peoples hastutions for the development and remained just that - a draft. The Draft was management of resources, and the right produced by a special UN body - the UN Working Group on Indigenous Populations (WGIP), which was created under the Sub? Commission on the Prevention of Discrimination and Protection of Minorities offed to the recognition of the full the UN Commission on Human Rights (UNCHR).

other resources, which they have tradi tionally owned or otherwise occupied or used. This includes the right to the full recognition of their laws, traditions and customs, land?tenure systems, and?insti

to effective measures by States to prevent any interference with, alienation of, and encroachment upon these rights.∏ ¥Article 29 Indigenous peoples are?enti

ownership, control and protection of their cultural and intellectual property. They

The Draft is far from perfect, according the ave the right to special measures? to con those who helped shape it, for example Vickytrol, develop, and protect their sciences, Tauli?Corpuz, who said the Draft has many technologies and cultural manifestations, limitations because it still operates withininheduding human and other genetic □statist framework□ of the UN. But she also resources, seeds, medicines, knowledge of said that the Draft seeks to addres's indige the properties of fauna and flora,? oral tra nous peoples collective rights, such as the ditions, literatures, designs, and visual right to self?determination, right to survivald performing arts. right to cultural, religious, spiritual and lin

guistic identity, and the right to controAsofa whole, the Draft has clearly established ancestral territories and refources. that the rights of indigenous peoples to their

Despite its imperfections and limitationingdigenous knowledge, innovations and the Draft contains provisions that lobbyisptsactices, which are referred to as intellectua for indigenous peoples can use in pushing afredr cultural heritage, cannot be separated strong policy recommendations. The follow from indigenous territories and resources. ing are some Articles relevant to the These rights are interlinked with the distinct relationship of indigenous peoples to the inelationships indigenous peoples have built territories and resources, genetic resources around their land and resources. and intellectual and cultural heritage or Although it needs to be improved, the indigenous knowledge:

Draft contains minimum standards that pro mote the rights and welfare of indigenous

- ¥Article 2^[]Indigenous peoples have the peoples, including their intellectual and cul right to their traditional medicines and ural property rights. But many governments health practices, including the right too the support the Draft. The Draft was protection of vital medicinal plants, ampiproved by the Sub?Commission on the mals and minerals. Prevention of Discrimination and Protection
- ¥ Article 25Indigenous peoples have the of Minorities and was brought before the right to maintain and strengthen their WhiGHR.
- tinctive spiritual and material relationship the UNCHR did not adopt the Draft. with the lands, territories, waters, anDinstead, it established the Open?ended Inter? coastal seas and other resources, which sessional Working Group to elaborate on the they have traditionally owned or otherwisseft Declaration. This body has met eight occupied or used, and to uphold their times since 1995, but the governments of responsibilities to future generations Aunstralia, Canada, New Zealand and the USA this regard.∏ strongly oppose many of the principles and

¥ Article 20Indigenous peoples have the articles of the Draft. These governments were right to own, develop, control and use atheone in rejecting, for example, the Draft[]s lands and territories, including the toppadvision recognizing indigenous peoples environment of the lands, air, waters, right to self?determination, arguing that coastal seas, sea ice, flora and fauna, and

international instruments generally speak ion filt also addresses land and resource individual and not collective rights. rights concerns.

Those indigenous peoples who have been closely monitoring the Draft are united and # Article 1states: [] (G) overnments shall firm in their stand that the UN should adoptrespect the special importance for the the Draft in its original form. The Draft hasultures and spiritual values of ?the peo in fact become a key reference point? in dis ples concerned of their relationship with the lands or territories, or both?as appl. cussions of indigenous peoples∏ rights. Indigenous peoples representatives always cable, which they occupy or otherwise cited the Draft when they lobbied at the Riouse, and in particular the collective Earth Summit and over the CBD. Some?gov aspects of this relationship. ernments have referred to the Draft The use of the term [lands] in Articles 15 Declaration when drafting their national lawand 16 shall include the concept of terri on indigenous peoples [] rights.

One of the drawbacks of the Draft?Decla ration is that it is non?binding, even if ito $\dot{\mathbf{cs}}$ upy or otherwise use. adopted by the UN General Assembly. This means that the Declaration will not create ownership and possession of the peoples any obligations for any country under inter concerned over the lands, which they tra national law. In other words, the adoption of itionally occupy, shall be recognized. In a declaration on the rights of indigenous peoples will not render a nation legally accountable to the international community for its actions towards its indigenous peo ple⁴⁸

The Declaration will be an aspirational

tories, which covers the total environment of the areas which the peoples concerned ¥Article lalso provides: |The rights of

addition, measures shall be taken in appropriate cases to safeguard the right of the peoples concerned to use lands not exclusively occupied by them, but to which they traditionally had access for their subsistence and traditional activi

document, which imposes no obligations of ties. implementation. It is likely, however, that #theticle 1states: [The rights of the peo Declaration will contribute to a growing bodples concerned to the natural resources of customary international law in the area opertaining to their lands shall be special indigenous peoples [] rights. Customary inter safeguarded. These rights include the national law is associated with the concept of these peoples to participate in the second sec state practice. use, management and conservation of

these resources.

ILO Convention 169

Like the Draft Declaration on the Rights of The International Labour Organization is timeligenous Peoples, ILO Convention 169 not only international body which has producednly acknowledges, brecognizes the rights an international legally binding instrume not indigenous and tribal peoples to their te on indigenous peoples - ILO Convention 169 itories, lands and resources, which include ILO Convention 169 ratified an earlizer interodiversity and wildlife resources.?The Con national instrument adopted by the ILO invention can serve as reference and 1957 - the Indigenous and Tribal Populationsamework for future agreements, which bear Convention 107, which was the first attempdirectly on indigenous peoples and their nat to codify indigenous peoples rights ?in inuteral and biodiversity resources and intellectual and cultural property rights. national law.

Adopted in Geneva in June 1989, ILO ConIndigenous peoples who lobbied at the Rio vention 169 hails the [distinctive] Earth Summit and the CBD negotiations also contributions of indigenous and tribal peodid not fail to invoke ILO Convention 169. ples to the cultural diversity and social anothe problem is that, as of August 2002, only 17 countries had ratified ILO Conventio ecological harmony of humankind and to international cooperation and understand 169. The only Asia?Pacific country that has

Table1: Some domestic laws and policies that impact on genetic resources and related traditional knowledge

COUNTRY	LAW		
Bangladesh	Draft Biodiversity and Community Knowledge Protection Act, 1998 Draft Plant Varieties Act, 1998 Draft Cooperation Agreement between the European Community and the People's Republic of Bangladesh on Partnership and Development		
China	Regulation Concerning the Management and Protection of Wild Herbal Resources, 1987 Regulation Concerning Protection of Wild Plants, 1997 Regulation of the People's Republic of China on the Protection of New Varieties of Plants, 1999 Patent Law		
Fiji	Draft Sustainable Development Bill		
Hong Kong	Plant Varieties Protection Regulation, 1997		
India	Patent (Second Amendment Act), 2002 The Protection of Plant Varieties and Farmers' Rights Act, 2001 Draft Biological Diversity Bill, 2000 Draft Kerala Tribal Intellectual Property Bill, 1996 Draft Karnataka Community Intellectual Rights Bill, 1994		
Indonesia	Health Act Plant Variety Protection Bill Act on Spatial Use Management, 1992 Plant Cultivation Act, 1992		
Korea	Wild Flora and Fauna Protection Act Under revision Natural Environment Conservation Act Seed Industry Law, 1999		
Malaysia	Draft Plant Variety Legislation, 1999 Biodiversity Policy Draft Access and Benefit Sharing Law		
Burma/Myanmar	Protection of Wild Life and Wild Plants and Conservation of Natural Areas Act, 1994		
Nepal	Draft Policy on Access to Genetic Resources and Benefit Sharing, 2002 Draft Access to Genetic Resources and Benefit Sharing Act, 2002 Local Self Governance Act, 1998 Plant Protection Act, 1973		
Pakistan	Draft Plant Breeders Rights Law, 2002		
Philippines	Wildlife Resources Conservation and Protection Act, 2001 Plant Variety Protection Act, 2000 Indigenous Peoples Rights Act, 1997 Traditional and Alternative Medicine Act, 1997 Executive Order No. 247 on Bioprospecting, 1995 Draft Community Intellectual Rights Protection Act, 1994		
Samoa	Intellectual Property Rights Law, 1998 Village Fono Act, 1990 Draft Environment Bill Proposed Access to Genetic Resources Regulations		
Singapore	Proposed Policy Guidelines on access to genetic resources		
Sri Lanka	Draft Protection of New Plant Varieties Act, 2001 Draft Access to Traditional Knowledge relating to the use of Medicinal Plants Act, 2000 Agreement on the Protection and Enforcement of Intellectual Property Rights sbetween the US and Sri Lanka, 1991		
Taiwan	Plant Seed Law, 1988		
Thailand	Thai Traditional Medicine Act, 1999 Plant Variety Protection Act, 1999 Draft Community Forest Act, 1996		
Vanuatu	Under revision Environment Act		
Vietnam	Agreement between the US and Vietnam on Trade Relations, 2000 Law on Environmental Protection, 1993 Land Law, 1993		

SOURCE: 'TRADITIONAL KNOWLEDGE OF BIODIVERSITY IN ASIA-PACIFIC BY GRAIN AND KALPAVRIKSH..

Governments' efforts to protect ICPR on biodiversity

Enactment of laws

administrative structures and accompanying Creating, modifying and implementing bureaucracy, and often depend on political national laws on traditional knowledge andwill. KAMPI (Kasamahan ng mga Magbubukid genetic resources is the most visible actizen Pilipinas), an alliance of indigenous peo taken by governments. This law?making is ples[] organizations in the Philippines, spurred on by pressure to meet internationexplained how the Local Government Units agreements. The general trend in Asia is still fail to recognize and respect? the trad towards the commercialization of genetic tional systems of self?governance in the resources and the expansion of IPRs over the traditional knowledge.

But new laws can also bring in more

This trend is most visible in the adopt**too**ns, may increase the problem of local of Union for the Protection of New Varietimessource management and create unnecessary of Plants (UPOV)?style legislation that domesnflicts with informal systems of control a little to recognize and reward farmears immeonagement.

vation in plant?breeding. UPOV is an

intergovernmental organization with head **Databases** quarters in Geneva, Switzerland. It was

established by the International Convention ectronic databases and digital libraries a for the Protection of New Varieties of Playatisning popularity in several government?ini to oversee the protection of new varieties is for documenting traditional plants under an intellectual property right mowledge. There is strongly divided opinion Attempts have been made to slow down this on the efficacy of such databases to prevent trend until impact assessments of the probiopiracy. Some say that centralization make posed changes are fully explored, but withinformation inaccessible to rural communitie little success. Nevertheless, many developsing alienates them. Others defend documen countries are also attempting to promote tation in the light of dying oral knowledge legal changes to protect biodiversity and and the erosion of the social processes by related traditional knowledge.

In some countries, governments have is transmitted to the next generation. There is consensus, however, that any col seemingly made efforts to empower local communities, such as in the Philippines wilter tion of traditional knowledge data must the Indigenous Peoples Rights Act (IPRA) haine the prior informed consent (PIC) of the Thailand, where the indigenous peoples were mmunities. In situations where such? knowl granted a Peoples Assembly and the introedge is not already in the public domain, duction of the Thai Traditional Medicine Lapowernments would need to ensure that the that seeks to protect traditional knowledge is volun related to medicinal plants; in BangladesHary. Also, much traditional knowledge that where a Department of Indigenous Peoples currently in the public domain may not be Development was created along with the there with the consent of the concerned com drafting of a Biodiversity and Community munities. Putting such knowledge into Knowledge Act; and in India and Indonesia databases supposedly to prevent patents where an amendment to the Indian Constitubeing taken out would only be building on an tion and the decentralization law allow vielardigeer wrong. There are other practical iss bodies ganchayat; and adatvillages to take that need to be resolved such as the basis o decisions on local biological resources. user fees, valuation of the information col lected, possible claims of intellectual prop over the databases themselves and the? recommony to bring it to the market. In China, ery of operational costs of these databaseisn. what was billed as a milestone for tradi

Formal research

The number of research centres and laborations and corporate sponsorship. academic institutions and industry.

In some cases, research is apparently coprojects provide income only for the phar ried out for the benefit of local and maceutical and medical companies and the traditional communities. For example, in states involved. India, the All?India Coordinated Research Research projects funded by international Project on Ethnobotany has identified triborhanizations do not necessarily challenge and other community uses for several?thouthis phenomenon. [Our objection is against sand species of plants, including medicinathe collection of traditional knowledge with plants. It remains to be seen whether the out proper benefits to locals], argued communities actually do benefit from this Hemantha Withanage of the Environmental project. In Laos, a unique system of ?goverMoundation Ltd, Sri Lanka, talking about a mental promotion and protection of the [Conservation and Sustainable Use of?Medici population[s traditional medicinal practioned Plants] project jointly funded by the World has evolved under the auspices of the MinBank and Global Environmental Facility. istry of Health. A Traditional Medicine Another case from Sri Lanka is that of US Research Centre has been set up, which is Carnell University s contract with the Univer potential tool for protecting traditional sity of Sri Jayawardenapura for the export of medicinal knowledge of the tribes in the 905 plant varieties until 2005, which provides no compensation for the peoples who helped country⁵⁷.

However, research does not always bene identify the plants and explain their uses. fit the original knowledge?holders. In In one research project, a custody battle Malaysia, a plant in the Sarawak rainforesetroisse between Thailand and a UK university now being tested to determine whether it over local fungi strains with potential medic presents a cure for prostate cancer. The inal uses. At issue was a collection of more Malaysian government has not released the than 200 strains of marine fungi, taken from plant s name for security reasons, but themangrove and coastal areas in southern are reportedly working with an Australian Thailand, that were stored in laboratories in

tional Chinese medicine, two foreign firms joined in 2000 with one of mainland China s oldest houses of medicine to research and develop Chinese pharmaceuticals for?over

research projects in the region has increaseds markets. Pharmagenesis from the USA and includes domestic ventures, foreign cathd Orchid from France signed a contract with Lerentang from Tienjin to invest US\$9 Research in traditional knowledge raises million in joint research on the active ingre questions about the relationship between dients in traditional Chinese medicines. Indigenous peoples are concerned that such

Intellectual property rights regimes and biodiversity

Intellectual property rights (IPRs), as that causes an actual variation in the hext ge term suggests, are rights to ideas and infomation, creates a sufficiently [new] plant mation which are used in new inventions or ariety to qualify as a patentable invention processes. These rights enable the holder Coorporations have realized enormous bene exclude imitators from marketing such fits from their free access to genetic inventions or processes for a specified timeterials, especially in the case of crop in exchange, the holder is required? to displants from developing countfies. close the formula or idea behind the This gave birth to rights over plant vari product/process. The effect of IPRs is thereis, or breeders[] rights, which gave the fore monopoly over commercial exploitation in the required regulatory powers over of an idea/information, for a limited perithe marketing of []their[] varieties. Until od.⁶²

As IPRs are actually mechanisms to pro other breeders to be exempted from the tect individual and industrial []inventions frovisions of such rights, as long as they d they are usually in effect for a specified ot indulge in branded commercial transac period. These legal rights can be attached imons of the varieties.

information if the information can be applied many Asian countries, patents with full to making a product that is distinctive ammonopolistic restrictions are now applicable useful. Legal rights prevent others from to plant varieties, micro?organisms and copying, selling or importing a product genetically modified animals. In 1980, the without authorization. In essence, there alle Supreme Court ruled that microbiologist six forms of intellectual property: patent and Chakrabarty s patent claim for a plant?breeders rights, copyright? trade genetically engineered bacterial strain was marks, industrial designs and trade secret permissible. This legitimized the view that

Currently, there are a number of IPR anything made by humans and not found in regimes in operation in Europe, the USA ammature was patentable. Genetically altered elsewhere. The newer laws tend to cover a animals, such as the infamous []onco?mouse[] broad spectrum of life forms and grant of Harvard University (bred for cancer astonishing degrees of ownership to the research), were also patented. Finally, seve al patent claims have been made, and some

Corporations are well aware of how costgranted, on human genetic material, fnclud efficient it is to tap the knowledge of ing on material that has hardly been altered communities that live with and depend on from its natural state. biodiversity for their survival. Pharmaceutilized in very recently, these trends were transnational corporations (TNCs) have takeesstricted to some countries, which could plant samples from tropical forests?(identibit impose them on others. However, with fied and genetically manipulated by the signing of the Trade?Related Aspects of indigenous peoples) to use as raw materialEstellectual Property Rights agreement in developing new drugs. (TRIPS), this has changed. TRIPS requires

In Asia, agricultural companies took dischat all signatory countries (that is, more ease?resistant seeds (identified and than 115 states, of which 70 are from the genetically manipulated by indigenous peo South) accept patenting of micro?organisms ples). After some modifications, this geneathic microbiological processes, and some material was patented, mainly in the USA, [effective] form of IPR on plant varieties, and the resulting seeds or products were either patents or sommei generi¢new) marketed. Moving a single gene from one version⁶. TRIPS allows countries to exclude spot to another within a cell, whether or not animals and plantper sefrom patentabili ty.

The history of IPRs shows that the nificant gene banks. TNCs are developing monopolistic hold of governments, corpora plants that respond to their own agrochemi tions and some individuals over biologicabals. TNCs are also working on genetic resources and related knowledge is continumodifications aimed at converting non? ously increasing. A substantial amount of hybrid fertile plants, such as wheat, into this monopolization is built on and throughterile hybrids. If a gene from another plant the appropriation of the resources conserveenable induce sterility, seeds would have to and knowledge generated by indigenous be purchased each year. If IPR systems con tinue to evolve in this direction, farmers will

Commercial plant breeding is in the hands of a few TNCs that now control all the sig

have to pay royalties for patented seeds; will

fertilizers, herbicides and pesticides; and, in

the case of hybrid, sterile plants, will have t

become dependent on one supplier for seed,

IPRs adversely affect Asian farmers

The demand of corporations to apply IPR buy new seeds each year. regimes to biodiversity is based on the false question facing Asian farmers is premise that only their investments need twhether IPRs, which were developed to pro be rewarded. The toil of Southern farmers timet industrial inventions, are appropriate for domesticating, breeding and conserving bidhuman or other biological genetic materials. diversity over centuries is conveniently And how can such mechanisms protect a forgotten. The existing IPR agreements fainbn?physical entity such as oral indigenous to recognize the rights of indigenous and knowledge (that is, farmers[] know?how as to local communities to their own knowledge the use and conservation of plants, shamans[] and innovations. preparation of herbal remedies, or women[]s

Countries in the South have strongly conservation practices of seeds which are argued that multinationals from the industpaissed orally from generation to genera alized world exploit their biological wealthon)? and then sell the patented products back to Asian farmers must decide what type of them at excessive prices. The growth of thmeechanisms to adopt to protect themselves: biotechnology industries, combined with the systems or other types of mechanisms. loss of biological diversity worldwide, hashe costs and administrative implications of focused the attention of governments, coradopting some of the new IPR systems are porations and others on access to and great: US\$250,000 per patent. At the very control of genetic resources - mainly least, farmers must retain the absolute right because of the tremendous potential for to save seed, to experiment with exotic generating commercial profits. The? tradi germplasm (that is, the genetic material tional lifestyles, knowledge and biogenetix thich forms the physical basis of heredity resources of indigenous peoples have and which is transmitted from one genera become commodities, to be bought, sold and ion to the next by means of the germ cells) traded. and to exchange seeds.

As a rule, farmers save some of their crop to use as seed in the following year. Underhe WTO's TRIPS US IPR regimes, farmers would have to pay

royalties on the seeds from patented seeds while the success of indigenous peoples and even where farmers were the source of leaders and advocates in lobbying for the the original stocks, they would not be provisions integrated into documents such as allowed, under GATT rules, to market or use Draft Declaration on the Rights of Indige them. The IPR to a folk variety would inchanges Peoples and ILO Convention 169 should the rights to control the use of the ?folk bearchelebrated, much remains to be achieved. ety, and the rights to the information codeatious factors continue to prevent the Draft in the DNA as a result of selection by fameclaration from becoming a fully fledged ers and their farming systems.

17 countries have ratified ILO Convention

169, and many Asian countries — such as The CBD and Agenda 21 also require zoun Indonesia, Malaysia and the Philippines — tries to produce national policies, but the which account for a significant portion of atsheno compliance system and no strong world[]s remaining biodiversity resources, agency to follow up vital agreements? In con have yet to ratify the vital document. Lobbyast, the WTO can sanction countries that d ists admit that even if the Draft Declaration abside by its rules, and it has shown it finally adopted, it will remain a []soft lafw]exliktes muscles, for example over issues su the UN Declaration on Human Rights, which ass child labour and forced labour. not legally binding. While UN conventions and policies such as

In contrast, the World Trade Organizati**GBD** and Agenda 21 talk about [sustainable (WTO) is very powerful. The WTO is an intedetvelopment], the WTO policies favour the governmental entity that was set up to [free market] or [globalized free trade] formulate a set of rules to govern global paradigm. The result, as noted by proponents trade and capital flows through the processef csfustainable development, is [a clash of member consensus, and to supervise member paradigms] with the globalized free trade countries to ensure that the rules are fobaradigm emerging as dominant. lowed. Many countries are now feeling the The WTO has harmonized its IPR regimes far?reaching effects of its well?institutewdith existing regimes, ie those of Northern policies and enforcement mechanisms. Its governments. Some international lobbyists intellectual property rights regimes have abreenconcerned that indigenous peoples, who set up very efficiently.

The WTO[s TRIPS presents a tough?chal develop and protect biodiversity in their co lenge for indigenous peoples. The policiesmunities, could be accused of biopiracy if t and rules of TRIPS now govern and influenceights to this knowledge are held by TNCs the economic policies of member?countriesthrough IPR regimes.

Indigenous peoples' struggles against biopiracy

The extraction of biodiversity resources and request to raise awareness of the the genes of indigenous peoples to supply biopiracy problem. These NGO networks, raw materials for the biotechnology industatyong with other interest groups and some of the North has alarmed many indigenous parliaments, keep watch over patent?appli peoples. Northern corporations, for? exam cations in various patent and trademark ple, have applied for patents on the neemoffices worldwide.

plant and turmeric in Indiakavtahen the Pacific, tangeahuascaand quinoain Latin pines and Thailand. When processed or genetically engineered, these raw materiaNsR. Grace Company to use a pesticidal can be transformed into marketable?com mercial commodities.

The use of resources found mostly in indigenous peoples lands is increasing. Recently, a German agrochemical and phar apply for and win several US patents on of the mint familoyleus forskohliwhich used and protected by indigenous peoples spoken out against the Human Genome of these three countries.

Since 1998, another company, Glaxo Wellcome has successfully completed eth including the Philippines, India and? Indombean the HGDP.69

In September 1995, more than 200 orga nizations from 35 countries filed a petition America, and the bitter gourd in the Philipt the US Patent and Trademark Office. The petition seeks to revoke a patent given to extract from neem, an endemic tree in India. The petitioners charged the company of usurping an age?old biological process (see Table 3).

Indigenous peoples have found an ally in maceutical giant, Hoechst Co., was able to the international church community. As early as 1989, the World Council of Churches preparations derived from the medical plandame out with a statement calling for [] a ban on experiments involving the genetic engi grows in India, Nepal and Thailand, for compering of the human germline[(i.e. cell mercial production. The plant has long beenlock). Indigenous peoples themselves have Diversity Project (HGDP), condemning it as ∏sacrilegious∏ and unethical. Indigen∂us peo ples∏ lobbyists in 1994 also asked the UN nobotanical research in Asian countries, Commission on Sustainable Development to

sia, on the mint plant. The Singapore CentreIn February 1995, Asian indigenous peo for Natural Products Research (CNPR), a ples presented a statement at the European Glaxo Wellcome?funded bio?prospecting Parliament calling for a halt to the project. institution, is alleged to have an agreement the Fourth World Conference on Women with India[s Tropical Botanical and Gardenin Beijing, the Asian Indigenous Women[s Research Institute, which allows the resuNtestwork exhorted other women to include in of the work carried out by CNPR and Well the Beijing Declaration a condemnation of come, along with the samples and any the HGDP, and to call for it to be Banned. information relating thereto, to be? consid Also in 1995, indigenous peoples from ered []the confidential property of CNPR on the Asia?Pacific won the backing of 17 orga Glaxo Wellcome nizations in the Americas, which signed up

Such arrangements can seriously threatento the Declaration of Indigenous Peoples of indigenous peoples access to and control to the Western Hemisphere Regarding the their collective property and their collectionan Genome Diversity Project. The Decla knowledge of the traditional uses of exotimation called on international organizations and endemic plants, which they have been to protect all life forms from genetic manip using as food and medicine for centuries.ulation and destruction, and criticized the

On the global level, international NGOsefforts of Western science [to negate the such as RAFI, GRAIN, the Third World Net complexity of any life form by isolating and reducing it to its minute parts [] and? [there work and others have been joining with

COUNTRY	BIOLOGICAL RESOURCE	COUNTRY	NOTES	
China	Bitter melon (Momordica charantia)	USA	US Patent No. 5484889	
China	Xi Shu/Happy trees (Camptotheca lowreyana)	USA	US Patent No. PP11,959	
Malaysia	Bintangor tree (Calophyllum lanigerum)	Singapore	US Patents including Nos 6420571, 6160131 and 6277879	
Pacific Islands	Kava (Piper mythesticum)	USA	US Patents including Nos 6405948, 6277396, 6080410, 6025363, 5976550 and 5770207	
Pacific Islands	Nonu [Indian Mulberry] (Morinda Citrifolia)	Europe USA	In 1995 Nonu Samoa Enterprises began export of nonu, a tree with medicinal properties, to the US with US collaboration	
Pakistan	Basmati rice	USA	US Patent Nos 6274183 and 5663484	
PNG	Coral reef sponges	USA	US Patent Nos 6281196, 6153590, 5646138 and 5494893	
Philippines	Soil microbes	USA	The multinational company Eli Lilly has earned billions of dollars from the erythromycin antibiotic, which was developed from a bacterium isolated from a soil sample that Filipino scientist Abelardo Aguilar collected in his home province of Iloilo. Neither Aguilar nor the Philippines received any royalties.	
Philippines	Llang-llang (Cananga odorata)	France	The use of the extracts from llang-llang in the cosmetic industry is perhaps as old as perfume in France. There are several perfumeries in France that have used and continue to use it in their products.	
Philippines	Banaba (Lagerstroemia sp)	Japan, USA	US Patent No. 5980904	
Philippines	Nata de coco	Japan, USA	US Patent Nos 6280767, 6140105, 5962277 and 5795979	
Philippines	Snails (Conus)	USA	US Patent nos 6369193, 6344551, 6197535, 6153738, 6077934, 5633347, 5595972, 5589340 and 5514774	
India	Basmati rice	USA	US Patent Nos 5663484 and 4522838	
India	Turmeric (Curcuma longa)	USA	US Patent Nos 5401504, 5135796 and 5047100	
India	Neem (Azadirachta Indica)	USA	Several US Patents including Nos 5420318, 5391779 and 5371254; the US multinational company W.R. Grace's EPO Patent No. 0426257	
India	Guggul (Commiphora mukul)	USA	US Patent No. 6113949 and US Patent Application 20020018757	
Thailand	Jasmine rice	USA	A US plant geneticist has developed a strain of jasmine rice to be able to grow it in the US; he received the original seeds of the Thai Khao Dok Mal 105 (KDM 105) jasmine rice variety from the International Rice Research Institute (IRRI) in 1995.	
Thailand	Plao-nol (Croton sublyratus)	Japan	In 1975 Sankyo of Japan extracted the active ingredient of the Thai local plant to produce the patented product Kelnac.	
Samoa	Mamala tree (Homalanthus nutans)	USA	US Patent No. 5599839	
Sri Lanka	Kothala himbutu (Salacia reticulata)	Japan, USA	Takama System Ltd (Yamaguchi, JP)'s US Patent No. 6376682	

Table 2: Bioprospecting: the tip of the iceberg

SOURCE: 'TRADITIONAL KNOWLEDGE OF BIODIVERSITY IN ASIA-PACIFIC BY GRAIN AND KALPAVRIKSH..

by] alter its relationship to the natural the []transboundary transfer[] of genetically order[]. modified organisms (i.e. their movement

Indigenous peoples representatives havacross national borders). organized [parallel activities] to coincide with major WTO activities such as the WTO Third Ministerial Meeting in Seattle. After a caucus, the indigenous peoples leaders **Action against biodiversity** produced the [Indigenous Peoples] Seattle Declaration], which protested, among other things, about the patenting of life. IndiaIt is in India that some of the most si

Some indigenous peoples representatives if icant struggles to protect biodiversity a have also participated in negotiating for takeing place. adoption of a Biosafety Protocol in?the Con For more than 2,000 years, Indian?indige vention on Biological Diversity. Adopted incus communities have used the sap of the January 2000, the Biosafety Protocol regulation makes a make the sap of the biosafety Protocol regulations.

Table 3: What the parties want

IN TERMS OF	MANY COMPANIES AND INDUSTRIAL COUNTRIES	MANY GOVERNMENTS IN ASIA-PACIFIC	MANY NGOS, LOCAL COMMUNITIES AND SMALL FARMERS
Plant varieties	Plant breeders' rights and patents	Willing to provide plant breeders' rights, with some provision for a farmer's "privilege"	Farmers' rights and community rights
Sui generis	UPOV standards	Not clear what they want, but most in favour of UPOV	Real alternatives to IPR
Patents	No exclusions for any subject matter	Certain exclusions	No patents on life
Ownership	Market control	State sovereignty	Community sovereignty and collective control
TRIPS review	No amendments that lower standards of IPR protection	Amendments to conform with CBD, but not challenging patents on life or traditional knowledge	Exclude biodiversity and do not intro- duce traditional knowledge, or introduce protection for traditional knowledge
Access	Free and unregulated	State control	Community control
Benefit sharing	Through IPR	Through IPR	Through community intellectual property regimes or comprehensive resource rights

SOURCE: 'TRADITIONAL KNOWLEDGE OF BIODIVERSITY IN ASIA-PACIFIC BY GRAIN AND KALPAVRIKSH..

cholesterol level and treat other forms ofisial prior art and already accessible in pub ness. Now, the patent (Patent No. 6436991) ished form[], FRLHT is asking local people to on the use of tree[]s sap is owned by the Newt oral knowledge and local health traditions Jersey?based Sabinsa Corporation The extrainate published form and into databases. from the tree is said to be an []antioxidant The Centre for Ecological Sciences (ECOS) at and has cancer chemopreventive roles for the Indian Institute of Science, is helping the cancer.[] Theinvention relates toomposi? Tharu people set up a museum of Tharu cul tion and methodior products extracted fromture and traditions, including agricultural too Commiphora species for use in the prevention implements, traditional varieties of paddy, and treatment of abnormal cell growth and maize, wheat and certain herbs. These are proliferation in inflammation, neoplasia abode umented and stand as proof of the Tharu[]s indigenous heritage.

Indian indigenous peoples and sympathetic Another Indian NGO which is helping? farm NGOs are asking the government for?com ing communities to protect their indigenous pensation for the knowledge shared on the know?how and biodiversity, is the Centre for growing, care and management, use and? pro Indian Knowledge Systems (CIKS). CIKS[s cessing of the tree and its extract, which model in imparting and popularizing indige local people perfected over so many years nous farming techniques is the

Indigenous peoples in India have con Vrkshayurveda the ancient classical texts of Indian plant science. The system is being tributed much to the identification, conservation and use of medicinal plants aimplemented in 35 villages with a network of continue to do so, although now they are 1,200 farmers. In the Kanchepuram district of wary of this. One active indigenous peoplets mil Nadu, for instance, farmers make use organization, the Foundation for the? Revitof ancient pest control practices called the ization of Local Health Traditions (FRLHT)Uried Marundu This involves filling pots with drawing up the Peoples Biodiversity Registeenves from a variety of plants with known This local NGO is supporting sustainable perstlicidal properties, adding cow[s urine and health traditions in Karnataka, Kerala and little water. The pots are covered, buried Tamil Nadu. FRLHT believes that, with regammed left to brew for at least two weeks. The to intellectual property rights on medicinzebulting liquid is diluted with water and used plants, it is a misconception that traditional broad?spectrum pesticide for crops. The knowledge can be patented when it has beemplants used in the decoction are known only documented and published. to Tamil Nadu farmers and CIKS Staff.

As the general rule in patenting is that In April 1997 villagers in Pattuvam village, [anything published cannot be patented as int Kannur District in northern Kerala? (a south ern state of India), issued a declaration behans, among others). Several farmers are ing controls on identified genetic resourcess at various stages of switching over to available and used in the village for agesbidInegically diverse, sustainable agricultur declaration was made after the village youpthactices.

prepared a detailed register of every species

and all the crop cultivars in the village Nephed.ECOS is also active in Nepal. Nepalese register included 26 traditional rice varientdiegenous knowledge is being protected by 93 bird species, 30 fish varieties (freshwhateefTharu indigenous people who live in the and saline), a number of crabs, molluscs asouthern plains. ECOS is helping Thar tortoises, 32 species of mangroves, 14 wileds revive their indigenous farming methods mammals, and other tree and plant species by complementing them with recently devel The survey listed a total of 366 species copped environmentally friendly practices. One plants in Pattuvam village ⁷⁷alone.

The group of active villagers also set epidærs teach ECOS staff about age?ol@ farm Forum for the Protection of Peoples Biodiver practices while learning about sity. The Forum, together with the village so?pesticides from college?trained ECOS grassroots statutory authomaincha(yat), staff.

would thus have to be consulted by any per Tharu elders are motivated to share their son or company seeking access to the know?how on biodiversity conservation, register and the genetic material[®] listed.especially on seed conservation, with the

Pattuvam villagers have concluded that younger generation. More often than not, it there were items of considerable economic is the young women, trained by elder value which justified a declaration?of owwommen, who become adept in assimilating ship. Lawyers have yet to look into the ledgails knowledge. For instance, the herbs used implications of what the villagers have definer healing and cooking are known mainly by in relation to GATT and WTO arrangements. the older women and the young women they But Vandana Shiva, a leading Indian socialtrust with their knowledge. These women activist, opined: [The declaration gives recordsribute a great deal to the sustainabilit nition to community rights to the intellecofficient food and medicinal plants. and biological commons and provides a new Also in Nepal, village fairs, community interpretation tosthegenericption of exchanges and biodiversity festivals are TRIPS.]⁹

Indian people also hold festivals to rendwive and celebrate biodiversity and its lin their connection with nature[s resources thigh the local culture. At one such biodiver they have long used. The Indian Academy ofsity fair, the villagers realized that almos Development Science periodically organizes 000 traditional rice varieties were still in [Vedu Sammelan] - a gathering of traditionthough they had long disappeared from the healers. Under India[s National Biodiversimarket.

Strategy Action Plan (NBSAP), biodiversity fes

tivals have been held in various parts of MahaysiaRecognizing the importance of tra country, and have becomeatforms for seed ditional knowledge, leaders at Sahabat Alam, and information exchange, celebration of Malaysia are helping the villages of Long cultural aspects of biodiversity and revivalyaon and Uma Bawang Keluan to create traditional knowledge systems.

In another local peoples initiative, vbe a repository for many different species o lagers of Jardhargaon, a Himalayan foothik bettan, bamboo, fruit trees and medicinal village in Uttar Pradesh, northern India, phaemets. With funding from the Borneo Project taken charge of the heavily degraded slope(sa project aimed at improving the life and above their village. They star beed jthe welfare of the indigenous peoples of Borneo) Bachao Andolan(Save the Seeds Movement), these pilot programmes are helping villagers and, by making many journeys to more manage, preserve and restore rare plant remote villages, they have been able to costocks for future generations. lect many varieties lost elsewhere in the Indonesia The traditional practices and region (up to 250 of rice and 170 of commone lief systems of the Atoni, who inhabit West Timor, are banned, and the identity dogpass surgery, which costs at least biodiversity species that are important inUS\$4,500 in hospitals in the colingErgb? farming and for the treatment of diseases al drug firms seek to exploit this ancient are being lost as the older people die. Butankan wisdom, extracting chemicals from few Atoni tribesmen are reviving old praclocal plants and patenting them abroad. tices and traditional lifestyles related to Rapport of medicinal plants or their Atoni cosmo?vision [underground], with the extracts is banned in Sri Lanka. But Samath help of the Timor Integrated Rural Developreports that biopiracy is flourishing in the ment Programme (TIRD?P), a consortium of country. Samath lists some of the local bio four NGOs working to promote sustainable logical resources that have been patented agriculture and to prevent biopiracy in Westbroad. One is the locally grown Kothalahim Timor.⁸⁴

Thailand The UK Foundation for Ethnobiolo Lanka advise diabetic patients to drink water gy attempted out bio?prospecting activities ft overnight in mugs or jugs carved out of among the indigenous Karen communities in Kothalahimbutu, whose production has northern Thailand. Foundation representa become a cottage industry in the country. tives initially sought access to informationting local newspaper accounts, Samath about medicinal plants. Through the Richereports that a Japanese drug company Monde Initiative for Ethnobiology in Thaipatented a product based on this plant land, the Foundation sought to make an through the American Chemical Society in inventory of the traditional medical?and 19097. The plant Weniwalgeta — used as a logical knowledge of the Karen people. remedy for fever, coughs and colds — has

control diabetesyurvedaphysicians in Sri

Thai NGOs discovered that the Foundationalso been registered by Japanese, European for Ethnobiology had not sought the approvent American manufacturer's. of Thailand S National Science Council for integer media has played a role in exposing activities. Contrary to its claims, the Fourinopairacy in Sri Lanka. Two biopiracy cases in tion had not consulted groups and September 1997 were widely publicized and communities who were opposed to the?pro led to a sudden interest in the issue among ject. The Foundation was able to start the nvironmentalists and scientists in the coun inventory project under the guise of gaining. A university botanist was intercepted by access to Karen [environmental insights].customs at Colombo Airport trying to?smug

A landmark achievement in the preventiongle out some plant extract. In the same of biopiracy in Thailand was when the Thaimonth, customs officials discovered? a con government, in 1997, as a result of lobbyinginer of Kothalahimbutu - 1,512 cups by indigenous peoples, drafted a bill to meetighing some 4 tonnes - being shipped to ognize and protect the knowledge of Japan through a Sri Lanken?owned firm. traditional healers and Thailand s medicinal

resources from private appropriation by phamngladesh In Bangladesh, an activity? facili maceutical companies. tated by UBINIG (the Bangla acronym for [Policy Research for Development Alterna]

Sri LankaAs elsewhere in the world, ?indigetives[]) is Ntangeakrishi Andolan the New nous healers in Sri Lanka have, for centurAgesicultural Movement, a peasant initiative prepared medicines from wild plants and floowr biodiversity?based farming. It aims to ers gathered from the country[]s tropical floomesotreporate traditional and indigenous to treat a variety of illnesses. The anciekuntowfloodge of farming based on the princi mulations of tagenreedasystem of medicine ples of preservation, conservation and were tightly guarded and were passed from enhancement of biodiversity and genetic one generation to the next in families thatesources[].The traditional uses of medicinal could trace back their ancestry for generations. are kept alive by women, and village

Feisal Samath cites the ability of an seed banks can be seen throughout the indigenous doctor in the north?central townegion. of Polonnaruwa to treat patients with heart problems who would otherwise require

PhilippineEn the Philippines, the first itEme incident occurred two years before ex? collected in an act of bioprospecting was Paressoident Fidel Ramos signed and approved isolated in a cemetery in Iloilo province Exmecutive Order 247, designed to regulate 1949 by a Filipino scientist, Abelardo Agubib@pprospecting, in 1995. then working for the American company Eli Abelardo Cruz, who used to coordinate Lilly. The soil turned out to produce an atheiNorthern Sierra Madre Wilderness?Foun otic, a drug now known as erythromycin. dation, revealed how dwarf coniferous Aguilar never received any recompense from(cone?bearing) trees continue to be?smug his company, even after the Philippines gowled out from a 70,000?hectare natural ernment intervened on his behalf. [bonsai] forest, a [protected area], in Isab

The Philippines Department of Environmentovince in northern Philippines. The trees and Natural Resources (DENR) does not knoware being sold as ornaments, and for an what happened to specimens of a mountain unverified effect on male virility and sexua yew calledaxus sumatrana which two Amer potency⁹² Cruz believes the continuing ican researchers took from Mount Pulag in interest in the trees is related to the curr 1993. The 8,000?foot peak in Luzon island risce among pharmaceutical companies to a national park, and thus a [protected area drugs for problems such as [erectile The two researchers - Dr Melvin Shemluck offysfunction or sexual impotence. Quinsigamond College, Worcester? Mas A US multinational pharmaceutical?com sachusetts and Robert Nicholson of Smith pany, Neurex Inc., with the help of scientis College, Northampton, also in Massachusettsrom the University of the Philippines Marin informed the DENR that they would analyse Sciences Institute and the University of Uta the needle and stem of the yew for taxol, many owns a Philippine snail that produces anti?cancer agent. the world s most powerful painkiller. The

Whatever their findings, they said, in acientists isolated from the Philippine sea handwritten letter still filed with the DENNRailConus magus) a toxin called SNX 111, regional office in Baguio City in northerma painkiller that is claimed to be 100-1,000 Philippines, they would report back to the times more effective than morphine. DENR. The DENR regional office therefore SNX 111 will be highly profitable when issued the two Americans a [gratuitous permaint@ted outside the USA. As a painkiller, i required under Presidential Decree 1175. Avill be most important in battlefields, hosp decree by the late President Ferdinand Manadas, and drugstores. The Philippine snail is PD 1175 grants a gratuitous permit to? indinoid covered by US patent numbers uals who seek [to collect certain wildlife5189020, 5559095 and 5587454. The US species for educational and research? purpogovernment is expected to approve, the use es[]. Nothing has been heard from them sincef. Neurex Inc.]s painkiller, as Warfaer Lam

In their letter, Shemluck and Nicholsonb**set**, one of the world[s major international out their intentions: pharmaceuticabompanies, has entered into

a marketing deal with Neurrex.

- ¥ []to discover what levels of variation ar@he removal of Philippine genetic found in wild populations of yew and [] thesources is in part being made possible by identify superior trees for possible pltametagovernment, which has embraced glob tion in the Philippines[]; alization agreements. The Philippines
- ¥ []to identify high?taxol clones[], whichbenagme a member of the WTO in 1995 and be []the first step [to utilizing] this simeceieshen, its trade policies have hurt its in plantations[]; ecology badly.
- ¥ [to subject the plant material for enzymAn Asian Development Bank (ADB) report, and possibly DNA analysis[], a process Challenges for Asia[]s Trade and Environ which would []attempt to understand the ment, said that the country[]s trade policies populational genetics of Taxus sumatranænd regulations are harming the environ and the relationship of Philippine planmeentp causing loss of biodiversity, infringi other species in Asia and throughout thereoperty rights and increasing deforesta world[]¹

facilitation of technology transfer is happe

ing at a high environmental cost. The lossThmef biopiracy phenomenon has produced a biodiversity and property rights, especial/Agriety of responses from indigenou's peo those of ethnic and tribal peoples, is cauding themselves, civil society, the churches a widespread tendency to mismanage and some governments. Indigenous peoples resources because no proper price is beingorganizations at the national level have been paid for their exploitation. Biopiracy hasmonitoring biopiracy and bio?prospecting, increased in the Philippines and the?presennd have been lobbying for laws to regulate vation of the ecosystems has become more these activities.

The threat to Philippine biodiversity heliotrade become more serious as the government has agreed to a US\$60 million biodiversity Governments and companies alike are key research project on drugs and medical? prophayers in the business of biotrade. [Biotrade] ucts with the US National Institute of Hearenners to the movement of biological resources Companies that do not have agreements between countries, companies, academic with the Philippine government are continuinstitutions and individuals for potential prof ing to carry out covert research. More and more governments in the region,

In 1995, indigenous peoples[] leaders inwillingly or unwillingly, are allowing overseas southern Philippines confiscated sacks of and domestic private enterprises to operate in plant specimens collected by researchers the sector. Cash?poor governments like Laos, from the Philippine National Museum. The Burma/Myanmar and the Philippines, for researchers insisted their collection was instance, often strike biotrade deals that legitimate and important for the National might not further the interests of their tradi Museum[]s Philippine Plant Inventory Projectional knowledge holders. But the indigenous people asserted that the Oxford Natural Products (ONP) from the UK

researchers broke both legal and traditionmals signed an agreement with PT Indofarma, protocols as they failed to get the [priomone of the largest pharmaceutical companies informed consent of the people], in? accor of Indonesia, which will Jamming

dance with Executive Order 247 which seeksmedicines onto the international market. to regulate research and bio?prospecting inammu are the traditional local botanical local communities. The indigenous tribal medicines widely prescribed for those who leaders imposed a fine on the researchers kinve in Indonesia.

eight water buffaloes, 27 chickens, 8 metresThis thriving trade in traditional medicine of cloth, and one?peso coins amounting to is one of the few that does well in 2 he reces P150.00 (almost US\$3). The researchers sion?ridden Indonesian economy. ONP has protested, but the indigenous people pre also signed an agreement with one of the vailed⁵. leading natural medicine institute**3** of Viet

In the Cordillera Region of the Philippinaes, The two?part agreement embraces both several villages are now engaged in commudevelopment and future commercial rights, nity seed?banking, which is being promoted jiving the company exclusive access to an by the Igorot Tribal Assistance Group (ITAGMportant portfolio of Vietnam]s medicinal an environmental NGO, and the Project? Initplants.

ating Employment through Training in ONP is also involved in Bhutan, where the Environmental Enterprises (PINE TREE), an company used the knowledge of Dheagr? environmental movement aimed at reducing shos, Bhutanese traditional?medicine doctors, poverty and facilitating environmental eduand theMenpas, their assistants, to identify cation. PINE TREE is supported by the New Bhutanese herbal plants and how they are York?based Echoing Green Foundation. prepared.

The seed?banking activities are intended to allow the indigenous people to document **The Human Genome Diversity** important food and medicinal crops and valuable trees, and continuously plant and **Project** conserve these. Another serious concern worldwide, particu larly among indigenous peoples since the 1990s, is the ambitious US\$20 billion Humanaused by the volcanic eruption, the Aeta Genome Project of the National Institute opfeople welcomed such medical missions. Health (NIH) and the Department of Energy inAs in bio?prospecting for plant genetic the United States. Scientists working on thaterials, the HGDP also uses universities a project belong to what is called the Humanintermediaries. In the Philippines,?for exam Genome Organization (HUGO); they seek to ple, there have been reports that professors map the genetic basis of diversity among from the University of the Philippines have humans.

As part of the project, HUGO set up a rial from indigenous peoples. committee in 1991 to develop the Human A submission to the Working Group on Genome Diversity Project (HGDP). The HGDP Indigenous Populations by the Office of the aims to [collect, analyze and preserve genHeight Commissioner for Human Rights noted samples from a host of vanishing human in the conclusion that: Some concerns of populations[]. These [vanishing human? popu indigenous peoples ... cannot be adequately lations are indigenous peoples, including data without a complete ban on?pro Aetas of the Philippines, the Guaymi?of Paimests such as the HGDP, and of the patenting ma and the Hagahai people of the highlands f human geonome. \square (UN Doc. of Papua New Guinea, among others. They E/CN.4/Sub.2/AC.4/1998/4.) But the HGDP were selected because their genes contain continues. certain characteristics absent in mainstream populations, like resistance to some disersand tenure security and tolerance to cold, heat and pain.

The HGDP seeks to project an idealisticFor many indigenous and upland peoples in aim. Proponents say they will map the?her&dsia, living securely in their ancestral lan tary bases for differences in human territories means taking full control over t susceptibility to disease, which may helpbfindiversity resources and their cultural he treatments for diseases such as AIDS. But itage or their intellectual and cultural indigenous peoples are concerned about theproperty rights. motives of biotechnology corporations The Hmong people of Mae Sa Mai, an

involved in the project. upland community north of Chiang Mai in The HGDP[s aim of [preserving] genetic Thailand, have communal knowledge about samples from [vanishing] human populationsparticular herbs and plants that can cure also sounds idealistic. But some indigenousheumatism, women[s painful menstruation, peoples] leaders object to this aim, pointcinghs and colds, and asthma. They grow

out that colonizing countries of the Northmedicinal plants in a communal herbal gar subjected indigenous peoples to genocide den, which they consider their community and ethnocide for 500 years, and that thispharmacy.

continues in many parts of the world? so colThe Hmong people have handed down Pra lecting their DNA is just rubbing salt on dmitional knowledge on the medical open wound.⁹⁷ importance of certain plants through Pthe gen

Indigenous peoples have also found the erations. As part of their spiritual practic HGDP[s methods of collecting gene samples they have designated part of their land a questionable. One example is the attempt \oint [sacred forest[], where they worship gods and the drug firm Hoffman?La Roche to collect spirits who, they believe, are keeping watch gene samples from the Aeta peoples of the over their community. The sacred forest, a Philippines under the guise of medical mis0?minute climb from the community proper, sions. In 1993, Hoffman?La Roche is also a vital headwater and watershed of approached the Hawaii?based Aloha Medical springs and brooks that supply the communi Mission, which often visits the Aeta², to tools potable water and irrigation needs. But tact the Aeta people when they were facing are worried because they are living wit medical problems following the eruption ofin a territory that the government considers Mt Pinatubo, a volcano in Luzon island, imas a national park. Their aim is that the la 1991. Sick and hungry after the dislocationnee they have lived for 70 years, will be awarded to them.

In the Philippines, the effectiveness obetbee Certificates of Ancestral Domain Indigenous Peoples[] Rights Act (IPRA) has Twittles (CADTs). to be fully tested. Signed into law in October July 2002, Bakun town in Benguet 1997, the law recognizes the rights of in Origonize in northern Philippines was awarded nous peoples to own, protect, use and its CADT, the first in the country and the only manage their ancestral lands and domains one issued so far. Through this CADT, the according to their customary laws and trackinkanaey?Bago peoples of Bakun can have tions. Before the IPRA came into effect, thell control over their biodiversity and wildli DENR issued special administrative orders resources. One prerequisite for processing of which paved the way for the issuing? of Centhe CADT was an inventory of their wildlife tificates of Ancestral Domain Claims or and biodiversity resources. But, aware of the CADCs to indigenous communities. These biopiracy phenomenon, the Kankanaey?Bago CADCs are temporary though, until they people do not intend to submit all the list of

Conclusion

Conclusion – what indigenous peoples can do

levels, on how to create a more coherent approach.

peoples can doIndigenous peoples and their networks
should study previous declarations and otherIn the indigenous peoples[] struggle to proglexibal documents and conventions and? rec
their bio?diversity resources, cultural anonhmend mechanisms and structures through
intellectual property, the []think?global?awdbi2ch these declarations can be made more
local[] framework remains relevant; or, as effective.

some might say, [go glocal]. Some countries, such as the Philippines, S There are those who shun global lobbiesLanka and Thailand, have regulatory policies and international conferences, dismissing on bio?prospecting and biopiracy. The exis them as mere festivals of words, but policiemsce of these policies is a big leap forwar and declarations created in the global arenat the strengths and weaknesses of these can have far?reaching effects. Decisions opolicies must be analysed to see how they ministers attending the WTO conference in can be enhanced and improved. Seattle, for example, can affect the lives offhe stories of village initiatives, such a villagers in Timbuktu. International lobbidme declaration of the Pattuvam villagers in and international networking should not beindia to control identified resources, and underestimated by activists.

On the other hand, some organizations aimedigenous peoples, who confiscated the col so focused on the international arena thatlections of plant collectors, must be shared they are distanced from the communities with other indigenous peoples and their net where the impacts of international policies orks. Such actions can encourage similar are felt.

The best arrangement is a marriage of the Given the reality that existing IPR/trade two. Indigenous peoples[] organizations needegimes are not appropriate to protect indig to inform themselves as to developments imous peoples[] intellectual and cultural prop the international arena and, at the same trimghts, there is a clear need for alternativ should relate these developments to what insegimes and measures to safeguard the inter happening on the ground. ests of conservation, sustainable use, and

Some indigenous peoples groups and equity in the use of biodiversity. organizations also avoid working or engaging with governments. They would rather strug **Atternative regimes** for their rights outside government process

es. It is time to rethink this position. Community?based IPR and resource rights The UN and global indigenous peoples regimes.

networks are not lacking in international Ademumber of Asian NGOs and individuals larations and conventions, which, despite have indvocated various forms of intellectual flaws, can become the basis for national proights regimes which recognize the essen cies. With these international declarations and declarations and regimes and declarations are frameworks, indigenous peoblodiversity?related knowledge. For instance ples themselves, at local and national level, Indian NGO Gene Campaign proposed a can propose mechanisms and policies on bioregime that focuses equally on farmers[] and diversity resource protection. breeders[] rights. Other groups like the Thir

Indigenous peoples, and their supporterworld Network, GRAIN and the Research from civil society, the churches and otherFoundation for Science, Technology and sectors can also devise mechanisms,? at vilcology, have advocated community IPR lage, national, regional and global regimes.¹⁰⁶ Some have argued for a system

of Traditional Resource Rights, which products, by several NGOs; and in the case encompasses not just intellectual rights kuft the sacredy[huasc4] plant, by a combi also physical resources and cultural¹⁰'rightsation of North and South American groups). Countries like the Philippines are attempting to experiment with such regimes, though itRevival of farming and medicinal systems. is not yet possible to make any judgementsThe revival of aspects of more traditional of their efficacy. farming and medicinal systems would allow communities and citizens to be more self? Civil society resistance and challenges toreliant, reducing dependence on corporate? dominant IPR regimesAnother strategy for and state?controlled seeds and drugs, countering inequitable or destructive IPR among other things. Of course, given? exist regimes, is the mobilization of civil socientgy economic and social structures, and the to resist and challenge them. In a number ionforeasing incursions of the global economy

countries, notably India and Thailand, farimato the everyday lives of even [remote] com ers[groups, NGOs and scientists have led munities, this form of resistance is difficult. the struggle against the [piracy] of indigent there are significant movements that nous and local community knowledge, and have kept alive its possibilities, for example the imposition of IPRs on life?forms and the widespread revival of biodiverse farming related knowledge. Legal challenges have systems in India and other parts of South and been taken to the US and European patent South?East Asia. offices (e.g. in the case of turmeric, by the

Indian government; in the case of neem tree

Recommendations

All governments, who have indigenous peo ples in their territories, should:

- 1. Ratify ILO Convention 169 if they have notcertain IPRs whereby the right holder can already done so.
- 2. Ensure the immediate adoption in Pts cur is guaranteed the ability to stop others rent form of the UN Draft Declaration on from appropriating or misusing their the Rights of Indigenous Peoples.
- 3. Ratify the UNESCO Cultural Property Treaties if they have not already done sowere accessible to all, provided they
- 4. Provide funding mechanisms to enable signed a legally binding agreement that indigenous peoples to participate directly would not in any way apply restrictly in negotiations relevant to the protectionIPRs to these resources, or allow such of their intellectual and cultural propertapplication by third parties. rights, at local, national and international levels. ii. Develop alternative patent initiatives:
- 5. Incorporate the concept of [Prior InformedNew Deposit Rules. National regulations Consent] of indigenous and local commu and, where appropriate, international con nities into national legislation (the ventions, should be altered to ensure that Philippines has already done so) relevant all inventions deposited for the legal to intellectual and cultural property. record in gene banks or cell libraries mus
- 6. Facilitate the repatriation of cultural primp lude passport data identifying?all available. erty to rightful indigenous owners. able information about the origin of the
- 7. Ensure that the rights of indigenous peo material, including, where appropriate, the second secon ples to own and benefit from their names of individuals and of communities ancestral lands and territories are fully that have contributed material (or?informate protected in their domestic laws and polition related to material) on deposit. The same information should be attached to all cies.
- 8. Integrate biodiversity resource protectionpatent applications. and indigenous peoples rights education. Gene Bank Accessions. Material held in into their school curricula. gene banks and cell libraries whose pass
- 9. Suspend projects in indigenous peoples port data indicates that it has been territories that were initiated without the molected from indigenous communities full and prior informed consent. should be regarded as forming part of the
- 10. Disseminate information to all indigenous intellectual property of that community. communities regarding national and?inter No part of that material should be subject national policies on intellectual and to patent claims by others. This material cultural property rights. should be regarded as [published] infor mation precluding patent applications.

All states should also:

Countries should establish regimes for

not monopolize knowledge or its use, but

i. Establish defensive IPR regimes:

knowledge or resources. A country could pass legislation stating that its resource

Relevant international instruments

Universal Declaration of Human Rights, 10 December 1948

Article 17

Everyone has the right to own property alone as well as in association with others.

No one shall be arbitrarily deprived of his property.

Declaration on the Rights of Persons Belonging to National or Ethnic, Religious and Linguistic Minorities, 18 December 1992 Article 1

- States shall protect the existence and the national or ethnic, cultural, religious and linguistic identity of minorities within their respective territories and shall encourage conditions for the promotion of that identity.
- 2. States shall adopt appropriate legislative and other measures to achieve those ends.

Article 2

- Persons belonging to national or ethnic, religious and linguistic minorities (hereinafter referred to as persons belonging to minorities) have the right to enjoy their own culture, to profess and practice their own religion, and to use their own language, in private and in public, freely and without interference or any form of discrimination.
- 2. Persons belonging to minorities have the right to participate effectively in cultural, religious, social, economic and public life.
- 3. Persons belonging to minorities have the right to participate effectively in decisions on the national and, where appropriate, regional level concerning the minority to which they belong or the regions in which they live, in a manner not incompatible with national legislation.
- 4. Persons belonging to minorities have the right to establish and maintain their own associations.
- 5. Persons belonging to minorities have the right to establish and maintain, without any discrimination, free and peaceful contacts with other members of their group and with persons belonging to other minorities, as well as contacts across frontiers with citizens of other States to whom they are related by national or ethnic, religious or linguistic ties.

Article 3

- Persons belonging to minorities may exercise their rights, including those set forth in the present Declaration, individually as well as in community with other members of their group, without any discrimination.
- No disadvantage shall result for any person belonging to a minority as the consequence of the exercise or non-exercise of the rights set forth in the present Declaration.

Article 4

- States shall take measures where required to ensure that persons belonging to minorities may exercise fully and effectively all their human rights and fundamental freedoms without any discrimination and in full equality before the law.
- States shall take measures to create favourable conditions to enable persons belonging to minorities to express their characteristics and to develop their culture, language, religion, traditions and customs, except where specific practices are in violation of national law and contrary to international standards.
- States should take appropriate measures so that, wherever possible, persons belonging to minorities may have adequate opportunities to learn their mother tongue or to have instruction in their mother tongue.

- 4. States should, where appropriate, take measures in the field of education, in order to encourage knowledge of the history, traditions, language and culture of the minorities existing within their territory. Persons belonging to minorities should have adequate opportunities to gain knowledge of the society as a whole.
- States should consider appropriate measures so that persons belonging to minorities may participate fully in the economic progress and development in their country.

Article 5

- 1. National policies and programmes shall be planned and implemented with due regard for the legitimate interests of persons belonging to minorities.
- Programmes of cooperation and assistance among States should be planned and implemented with due regard for the legitimate interests of persons belonging to minorities.
 (...)

International Covenant on Civil and Political Rights, 16 December 1966

Article 26

All persons are equal before the law and are entitled without any discrimination to the equal protection of the law. In this respect, the law shall prohibit any discrimination and guarantee to all persons equal and effective protection against discrimination on any ground such as race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth or other status.

International Covenant on Economic, Social and Cultural Rights, 16 December 1966 Article 3

The States Parties to the present Covenant undertake to ensure the equal right of men and women to the enjoyment of all economic, social and cultural rights set forth in the present Covenant.

Article 6

- The States Parties to the present Covenant recognize the right to work, which includes the right of everyone to the opportunity to gain his living by work which he freely chooses or accepts, and will take appropriate steps to safeguard this right.
- 2. The steps to be taken by a State Party to the present Covenant to achieve the full realization of this right shall include technical and vocational guidance and training programmes, policies and techniques to achieve steady economic, social and cultural development and full and productive employment under conditions safeguarding fundamental political and economic freedoms to the individual.

International Convention on the Elimination of All Forms of Racial Discrimination, 21 December 1965 Article 5

- 5. ... States Parties undertake to prohibit and to eliminate racial discrimination in all its forms and to guarantee the right of everyone, without distinction as to race, colour, or national or ethnic origin, to equality before the law, notably in the enjoyment of the following rights:
 - ...(d) Other civil rights, in particular:
 - $\ldots(v)$ The right to own property alone as well as in association with others.

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Intellectual and Cultural Property Rights of Indigenous and Tribal Peoples in Asia

Indigenous and tribal peoples worldwide are faced with the appropriation of their collective heritage developed through the ages. Their traditional songs and designs are being commercialized for the tourist industry, and their traditional knowledge of crops and medicinal plants is being appropriated by multinational companies, often without any recompense, a phenomenon which has come to be known as 'biopiracy'. This report looks at efforts by the United Nations and governments to protect this heritage from exploitation; the pressures on governments to allow exploitation of indigenous knowledge; and the effects of the General Agreement on Tariffs and Trade and the Trade-Related Aspects of International Property Rights agreement on indigenous peoples' intellectual property rights.

The many initiatives taken by Asian indigenous and tribal peoples to protect their heritage are also discussed, and some strategies for the future are put forward in the Conclusion.