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Mail: H- 9026 Győr, Áldozat u. 12. Hungary. Fax: [Hungary: 36]-96/310-336. E-mail: egresi.katalin@ga.sze.hu

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KEY CONCEPTS ON INTELLECTUAL PROPERTY RIGHTS AND SUSTAINABLE DEVELOPMENT

KESERŰ, Barna Arnold¹⁷³

“I have read about the museum of extinct species in Ann and Paul Ehrlich’s book. Going through the halls those creatures can be seen, which have already disappeared from our planet because of expropriation their habitat as a result of human intervention. In the last room stands a mirror.”

LÁNYI András

The importance of subject

The citation above highlights an age- and societal phenomenon, which needs to be addressed. It is examined by economists, engineers, natural scientists, doctors, lawyers and representatives of many other sciences. The processes which make the world a more and more dangerous place can be experienced day by day from firsthand. The nature of mankind is extremely ambivalent. From the one hand, it can create amazing artistic, technical, and human achievements, which make us truly a valuable and creative civilization. Just look at for example the wonders of ancient times, the creations of Leonardo da Vinci or the Higgs-boson and gravitational waves as the results of the millennia old scientific improvement of humanity. The human mind is designed to achieve amazing things. But from the other hand it is capable of limitless destruction, and not only of destruction of its environment, but of destruction itself. We can see and feel the harmful and destroying effects of some human activities. In the military conflicts of mankind crowd of people are perished physically. The situation isn’t much better in peace either. The economy, as the largest civilizational structure maintained by the few, can toss so many people into poverty and make their living impossible as the wars do. Lethal or humane economy? Asks David C. Korten in the title of his book for a reason. Meanwhile our most valuable treasure, the Earth has suffered serious damages during the last (especially the 20th) centuries. The planet and the ecosystem means the basics of biological existence of mankind. Despite

¹⁷³ Assistant Professor at Széchenyi István University, Deák Ferenc Faculty of Law and Political Sciences, Civil Law and Civil Procedural Law Department.



of the fact, that it is an extremely complex system and we know only a small fragment of it, we don't protect it enough. As a result of this negligence our living and lifeless environment decays more and more faster.

Initially these harmful processes have been recognized by a few enlightened thinker, later more researcher and finally the international community. The result of this intellectual momentum is the idea of sustainable development, which was integrated quite quickly into the public consciousness. Sustainable development has become a political buzzword and a scientific milestone as well. Many new area got into focus under the flag of sustainable development both in the national and international discourse, and in our everyday life. The UN climate change congress in Paris at the end of 2015 affirms that, because it was surrounded by unprecedented media interest. Besides, sustainable development has become a relevant scientific aspect, and every scientific branch tries to redefine itself in the spirit of sustainability and to serve sustainable development.

This paper aims to highlight the need of redefinition. The law has to reflect to the scientific and social changes experienced around us. Independently from the fact, that we comprehend law as a retrospective phenomenon which follows the societal changes, or as the engine of changes like the tool of societal engineering, we got the same result. The idea of sustainable development is around us, but we have a lot to do in order to reach it. So the law cannot ignore it either. Originating from the regulative function of the law I prefer the active and forward looking role. It is the duty and obligation of the law to serve the society, so it has to create the legal framework which is suitable to integrate the idea of sustainable development and its goals.

This can be done with many tools even within the system of law. There are more area and legal institution in the private law which have a connection to the sustainable development goals. Such an area is the intellectual property right. This connection is barely researched in the Hungarian literature, although it is one of the most current topics abroad among the intellectual property researchers.

The aim of the summarization of this connection is to determine that intellectual property rights how can facilitate sustainable development, or how can they pull it back. At the first glance the connection of these areas can be seemed surprising, but intellectual property rights deeply affect the pillars of sustainable development. This connection isn't artificial or superficial but really intense and fertile.

Sustainable development is such a notion which has huge amount of scientific literature, however there are still many unanswered questions and contradictions. If the basic notion is so controversial, it is absolutely necessary to introduce some conceptual cornerstone, because the questions about sustainable development determine the answers in the system of intellectual property rights.

According to the main message of this paper the law doesn't exist just for itself and it isn't self-serving. It has to serve some useful and forward-looking societal goals. That is why I avoid the causeless legal thinking and to examine this field from the ivory tower of law just for itself. Instead of that I think about law as a tool to achieve a chosen goal. This approach originates from Nicolai Hartmann who developed the theory of final determination.¹⁷⁴ According to this theory the chosen goal by the national legislators and the international community is the sustainable development, what goal inherently determines the suitable legal and non-legal tools for the reaching of that goal. So the choose of goal is also a choose of tool, and the duty of a lawyer is to find the best legal tools for the goal. The success of the choose of tool can be judged according to the effect of legal norms. Of course, this is a long process and not a blink of an eye, because the realization of the goal, or the absence of it provides a permanent feedback about the correct regulation of the chosen legal tools. This approach describes how I wish to present the complex relationships between IP and sustainable development.

During the review of the legal tools I present the existing intellectual property rights from one side, which can be evaluated by the current feedbacks, and from the other side those new types of IP rights, which are held to be necessary in order to reach sustainable development.

Conceptual thoughts about sustainable development

Sustainable development and within that environmentalism has very old roots, much older than international law would imply it, because in the ancient societies – mainly in religious ground – the respect and protection of plants and animals, or the prohibition of wasting water appeared.¹⁷⁵ Especially the Buddhist religion was quite progressive, because it didn't deemed the human as the landlord of Earth and living nature, but as their guardian. This way the primary duty of humanity is the preservation and protection, and not usage and overexploitation.¹⁷⁶

The forestry of 17-18. century was the second big step in the formation of sustainable development, and the sustainability as a scientific term was born at this time. Inter alia Evelyn¹⁷⁷, Colbert¹⁷⁸ and

¹⁷⁴ SZIGETI Péter-TAKÁCS Péter: *A jogállamiság jogelmélete*, Napvilág Kiadó, Budapest, 2004. pp. 153-154.

¹⁷⁵ ATAPATTU, Sumudu: *Sustainable Development, Myth or Reality?: A Survey of Sustainable Development Under International Law and Sri Lankan Law*, in *The Georgetown International Environmental Law Review*, Vol. 14., Issue 2. 2001. p. 286.

¹⁷⁶ Magyarország v. Slovakia, Gabčíkovo-Nagymaros case, Dissenting Opinion of Cristopher Weeramantry, International Court of Justice, Judgment of 25 September 1997, pp. 95-99.

¹⁷⁷ EVELYN, John: *Sylva, or a Discourse of Forest-trees, and the Propagation of Timber in His Majesty's Dominions*, Vol. I., 4th ed., Arthur Doubleday & Company Ltd., London, 1706. <http://www.gutenberg.org/ebooks/20778>, (cited: 18.11.2023.)

¹⁷⁸ SARGENT, Arthur John: *The Economic Policy of Colbert*, Longmans, Green and Co., New York-Bombay, 1899. p. 105. <https://archive.org/stream/economicpolicyof00sargrich#page/104/mode/2up> (cited: 18.11.2023.)

Carlowitz¹⁷⁹ have a huge contribution to the establishment of forward-looking and responsible way of thinking, what is an intrinsic element of sustainable development.¹⁸⁰ Their main message is that the short-term, utilitarian and profit-seeking point of view is unsustainable. This message is much more actual today, than any time in the history before.¹⁸¹

The three pillar model of sustainable development was already outlined in the 17-18. century, because of the above-mentioned authors made connections between the destruction of forests, the economic depression and the negative societal changes.

Sustainable development is hard to define properly. Development has many different meanings, and these could even compete each other, so it is quite important to determine what is sustainable development. It can be approached from structural,¹⁸² evolutionary,¹⁸³ technical,¹⁸⁴ economical,¹⁸⁵ democratic¹⁸⁶ and legal¹⁸⁷ aspects. There were born more theories about that from the '60-s, which focused on the different aspects of the unsustainable development (Carson,¹⁸⁸ Hardin,¹⁸⁹ Meadows,¹⁹⁰ Schumacher,¹⁹¹ Jackson¹⁹²).

DEVÈZE, Michel: *La grande réformation des forêts royales sous Colbert, 1661-1680; une admirable réforme administrative*, École Nationale des Eaux et Forêts, Nancy, 1962. pp. 192-195.
http://documents.irevues.inist.fr/bitstream/handle/2042/33607/AEF_1962_19_2_169.pdf?sequence=1. (cited: 2023.11.18.)

¹⁷⁹ SOMOGYI Zoltán: *Egy háromszáz éves könyv margójára*, in *Erdészeti Lapok*, 2013/5. szám, pp. 134-135., http://erdeszetilapok.oszk.hu/01781/pdf/EPA01192_erdeszeti_lapok_2013_05_134-137.pdf.

¹⁸⁰ WILDERER, Peter A.–SCHROEDER, Edward D.–KOPP, Horst (eds.): *Global Sustainability. The Impact of Local Cultures. A New Perspective for Science and Engineering, Economics and Politics*, 2005, Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, 6.

¹⁸¹ VEHKAMÄKI, Seppo: *The Concept of Sustainability in Modern Times*, in JALKANEN, Anneli–NYGREN, Pekka (eds.): *Sustainable Use of Renewable Natural Resources: From Principles to Practices*, University of Helsinki, Department of Forest Ecology, Helsinki, 2005. pp.2-3., GROBER, ULRICH: *Deep roots – A conceptual history of 'sustainable development' (Nachhaltigkeit)*, Wissenschaftszentrum Berlin für Sozialforschung, Berlin, 2007. p.8.

¹⁸² NÁRAY-SZABÓ Gábor: *Fenntartható a fejlődés?*, Akadémiai Kiadó, Budapest, 2006. p.9., TEILHARD DE CHARDIN, Pierre: *Az emberi jelenség*, 1968, http://www.tat-tokod.hu/tde/books/Az_emberi_jelenseg.pdf. (cited: 18.11.2023.)

¹⁸³ DARWIN, Charles: *A fajok eredete. Természetes kiválasztás útján, avagy a létért való küzdelemben előnyhöz jutott fajták fennmaradása*, Typotex, Budapest, 2003. pp. 107-108, LORENZ, Konrad: *A civilizált emberiség nyolc halálos bűne*, Cartaphilus Kiadó, Budapest, 2001. pp. 11-12.

¹⁸⁴ SAGAN, Carl: *The Dragons of Eden. Speculations on the Evolution of Human Intelligence*, Ballantine Books, New York, 1986. pp. 14-16.,

LÁSZLÓ Ervin: *Káoszpont*, Kossuth Kiadó, Budapest, 2006. p. 81.,

A/RES/30/3384, *Declaration on the Use of Scientific and Technological Progress in the Interests of Peace and for the Benefit of Mankind*, Resolution adopted by the General Assembly, United Nations, 10 November 1975., <http://www.un-documents.net/a30r3384.html>. (cited: 18.11.2023.)

¹⁸⁵ SAMUELSON, Paul A.–NORDHAUS, William D.: *Közgazdaságtan*, Akadémiai Kiadó, Budapest, 2012. p. 453., FRIEDMAN, Benjamin Morton: *Jólét és erkölcsösség*, Napvilág Kiadó, Budapest, 2010. pp. 11-15.

¹⁸⁶ SEN, Amartya: *A fejlődés mint szabadság*, Európa Könyvkiadó, Budapest, 2003. pp. 10-35.

¹⁸⁷ A/RES/41/128, *Declaration on the Right to Development*, Resolution adopted by the General Assembly, United Nations, 4 December 1986, <http://www.un.org/documents/ga/res/41/a41r128.html>. (cited: 18.11.2023.)

¹⁸⁸ CARSON, Rachel: *Silent Spring*, 1962, Fawcett Publications, Greenwich, p. 17., https://ia600704.us.archive.org/10/items/fp_Silent_Spring-Rachel_Carson-1962/Silent_Spring-Rachel_Carson-1962.pdf. (cited: 18.11.2023.)

¹⁸⁹ HARDIN, Garrett: *Tragedy of the Commons*, in *Science*, New Series, Vol. 162., No. 3859. 1968. pp. 1243-1248.

¹⁹⁰ MEADOWS, Donella H. et al.: *A növekedés határai*, Kossuth Kiadó, Budapest, 1973. p. 84.

¹⁹¹ SCHUMACHER, Ernst F.: *A kicsi szép*, 1991, Közgazdasági és Jogi Könyvkiadó, Budapest, p. 11.

¹⁹² JACKSON, Tim: *Prosperity without Growth. Economics for a Finite Planet*, Sterling, London, 2009. p. 187., <http://www.ipu.org/splz-e/unga13/prosperity.pdf>. (cited: 18.11.2023.)

Sustainable development was defined by the World Commission on Environment and Development (commonly Brundtland Commission) in 1987 in its famous report entitled *Our Common Future*: “Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”¹⁹³ The mainstream concept of sustainable development relies on this definition today as well, the big world conferences didn’t changed it in merit.

This definition brings up serious problems, if we don’t examine the pillars purely in themselves, but in their interdependency. The deepest critics arise against the economic pillar. I deem those theories wrong, which identify sustainable development with economic growth, or make the economic growth the center of sustainable development (e.g. the EU2020 strategy explicitly favors economic growth). The growth-centered development policy wants to reach a sustainable growing society, which is able to turn the environmental and societal situation. However this is a paradox, and such a model of sustainable development is structurally wrong.

The actual welfare steals the opportunities of next generation. A growth-centered development doesn’t allow to step upon the path which is between the ecological limits, and the pure growth doesn’t make the life better.¹⁹⁴ A lot of studies and reports proves that the current level of consumption and production is far beyond the biocapacity of Earth. The only acceptable way of sustainable development is the respect of environmental limits. It provides the biological basis of human existence, so without a livable environment we can’t talk about sustainability and humanity either. The Sustainable Development Goals (adopted in 2015) shows a significant move towards environmentalism contrary to the Millennium Development Goals.

The economy – just like the law – can’t be self-serving and can’t exist just for itself. There isn’t any self-value, if an economy is small or big, product and consumes more or less. The only valuable factor is its impact on the quality of human life. The Stiglitz report, the theory of degrowth,¹⁹⁵ the well-being economy¹⁹⁶ and the theories introducing more alternate indicators highlights, that economic growth and GDP tells us nothing about the quality of life, moreover the macroeconomic growth can disguise the individual poverty. Consequently the economy should play a subordinate role.

¹⁹³ *Report of the World Commission on Environment and Development: Our Common Future*, p. 41., <http://www.un-documents.net/our-common-future.pdf> (cited: 18.11.2023.)

¹⁹⁴ STIGLITZ, Joseph e.–SEN, Amartya–FITOUSSI, Jean-Paul: *Report by the Commission on the Measurement of Economic Performance and Social Progress*, 2009, 12., http://www.stiglitz-sen-fitoussi.fr/documents/rapport_anglais.pdf (cited: 18.11.2023.)

¹⁹⁵ LATOUCHE, Serge: Degrowth, in *Journal of Cleaner Production*, Vol. 18., Issue 6., 2010. pp. 519-522.

¹⁹⁶ SEAFORD, Charles: *Well-being: Human Well-being and Priorities for Economic Policy-makers*, New Economics Foundation, London, 2010. p. 5.

In order to achieve considerable changes in environmental protection, first of all societal change of mind set and societal self-limitation is needed. But to do so, we have to eradicate poverty, repel diseases and improve education, otherwise there is no hope for the expansion of global environmental mindset.

In my opinion the ideal paragon of sustainable development can be described as the spiral and forward movement of dynamic interaction of the three pillars. Instead of that the experience shows that the pillars are divergent, they don't move in the same direction, but they are getting farther from each other.

Key elements about the general connection of sustainable development and intellectual property rights

In order to make property and intellectual property suitable for incentive and protection of creativity and knowledge, it is necessary to properly build up the system of checks and balances on national, regional and international level as well. Otherwise they can conserve the material status quo and hold back progression. In the latter case they degrade to the tools of noxious growth-oriented development.

IP rights are more often mentioned together with human rights, what refers to the interpretation of development by Amartya Sen.¹⁹⁷ For the connection of these fields there are two main theories. According to the first, despite of the common economical and societal roots, the two field get more and more far from each other, and they are actually in a conflict. According to the second theory, the two field complete each other, because their final aim is the same. Therefore the IP rights are integrated into the system of human rights, they are a part of it.¹⁹⁸

Ideally the two field should cooperate in order to reach sustainable development. However we can see exactly the opposite, there is competition between them. There is a need for paradigm-shift in order to make human rights and IP rights complementary fields instead of competing opponents. This means creating balance among right holders, users and the society regarding to sustainable development.

World Intellectual Property Organization (hereinafter referred as WIPO) and World Trade Organization (hereinafter referred as WTO) as the two most important international organizations of IP are suitable by their importance and role to be a forum, where IP rights and sustainable development can bring together. The WIPO Convention doesn't refer explicitly to tasks concerning sustainability, but the activities of WIPO in broader context shows a quite different picture. The establishment of WIPO was supported by

¹⁹⁷ SEN: *cit.*, pp. 10-22.

¹⁹⁸ GROSHEIDE, Willem: *General Introduction*, in GROSHEIDE, Willem (ed.): *Intellectual Property and Human Rights. A Paradox*, Edward Elgar, Cheltenham-Northampton, 2010. p. 5.

the fact, that the developing countries have seen their biggest opportunities in technology transfer, and the developed countries have deemed very beneficial to create an organization, which sole purpose is to spread the concept of IP worldwide and to improve the national legislation.¹⁹⁹

The WIPO pays special attention since its establishment to the interests of developing countries and the serious responsibility of developed countries for the global development. This is in line with the role of WIPO as UN specialized agency, and it complies with the UN-WIPO Agreement adopted in 1974. According to the Agreement, the main objective of WIPO is to “promote creative intellectual activity and to facilitate the transfer of technology related to industrial property to the developing countries in order to accelerate economic, social and cultural development”. As an UN specialized agency, WIPO has to take into account the UN Sustainable Development Goals and to serve them.²⁰⁰

When the WTO appeared and the TRIPS entered into force the international regime of IP rights has changed significantly and the political and legal relations have transformed. The Article 66.2. of TRIPS creates a close relationship between IP rights and technology transfer, what can be justified by many reasons. IP rights can be both incentives and barriers of technology transfer, therefore it is important to maintain a legal regulation what supports technology transfer in order to prevail the interests of developing and developed countries with the adequate checks and balances.

There are two different approaches about the relationship of IP rights and technology transfer. According to the supporters of strong IP regime the high level of protection facilitates the technology transfer through the requirements of disclosure and publication. According to the supporters of weak legal protection the IP rights hinder the international technology transfer, because the quasi-monopolistic IP rights allow to the right holders to keep the prices high and to prevent the economic actors of developing countries to access to these technologies.²⁰¹

Since 2000 the so-called TRIPS-Plus agreements have become more popular, which are such bilateral or multilateral free trade agreements, what contain more rigorous IP rules than the TRIPS. The intensifying legal monopolies can slow down the long-term innovation processes and suppress technology transfer, what is against the purpose of TRIPS.²⁰²

¹⁹⁹ MUSUNGU, Sisule F.–DUTFIELD, Graham: *Multilateral agreements and a TRIPS- plus world: The World Intellectual Property Organisation (WIPO)*, Quaker United Nations Office – Quaker International Affairs Programme, Geneva – Ottawa, 2003. p. 18.

²⁰⁰ Ibid. p. 18.

²⁰¹ NGUYEN, Tu Thanh: *Competition Law, Technology Transfer and the TRIPS Agreement. Implications for Developing Countries*, 2010, Edward Elgar, Cheltenham – Northampton, p. 25.

²⁰² KUANTH, Jakkrit: TRIPS- Plus Rules under Free Trade Agreements, in HEATH, Christopher–SANDERS, Anselm Kamperman (eds.): *Intellectual Property and Free Trade Agreements*, Hart Publishing, Oxford, 2007. p. 28.

2007 was a milestone in the world of IP and in the activity of WIPO, when the Development Agenda was adopted. Briefly the Agenda is the intellectual property action plan for sustainable development. The Agenda defines 45 recommendations in 6 cluster, in which there are principles what affects the international community fundamentally. The implementation of these is essential for sustainable development.²⁰³

The Development Agenda isn't perfect, because there are overlaps among the recommendations, they aren't always in a logical order, the classification into clusters isn't everywhere consistent and the level of abstraction of recommendations varies on a very wide range. Despite of these facts the Agenda is one of the most important document in the world of IP, because it can renew fundamentally the IP system in the light of sustainability.

Conceptual thoughts related to the connection of classical IP forms and sustainable development

Public domain is an important issue in the case of every IP form, because the exclusion of subject matter of protection and the intellectual creations from protection have a huge impact on the relationship of IP and development. A core question is where are the limits of individual power and how big is the scope of freely used intellectual creations for the members of society. 16th and 20th recommendations of the Development Agenda prescribe the thorough examination of public domain and its positive effects, and they urge legislation to widening the limits of public domain and to create a robust public domain.

Other tool of making balance are the limits and exceptions, and many of them have close interaction with the pillars of sustainable development. They have to be defined broadly on international level, because the economic, societal and environmental circumstances of developing countries are different, so their interests demand different solutions. This way every country must tailor its own IP regime.

Copyright can support the goals of sustainable development through the dissemination of knowledge. The access to knowledge determines the intellectual productivity and creativity of humans because we can quickly and effectively create something new if we build upon the existing knowledge. Therefore, it is crucial, that the rules of copyright what kind of opportunities allow to access information in the field of education and scientific researches.

²⁰³ SANDERS, Anselm Kamperman: *The Development Agenda for Intellectual Property*, in HEATH, Christopher–SANDERS, Anselm Kamperman (eds.): *Intellectual Property and Free Trade Agreements*, Hart Publishing, Oxford, 2007. p. 21., DE BEER, Jeremy: *Defining WIPO's Development Agenda*, in DE BEER, Jeremy (ed.): *Implementing WIPO's Development Agenda*, Centre for International Governance Innovation – International Development Research Centre, Ottawa, 2009. pp. 9-11., MUÑOZ TELLEZ, Viviana – MUSUNGU, Sisule F.: *A2K at WIPO: The Development Agenda and the Debate on the Proposed Broadcasting Treaty*, in KRIKORIAN, Gaëlle – KAPCZYNSKI, Amy (eds.): *Access to Knowledge in the Age of Intellectual Property*, Zone Books, New York, 2010. p. 186.

The Appendix adopted in 1971 in Paris at the revision of Berne Convention was an important station in the development of copyright limitations and exceptions for education and scientific research. The aim of the Appendix is to provide flexibilities to developing countries regarding their economic, social and cultural needs, which can limit the exclusive rights of the copyright right holders. The Appendix tries to widen the cases of free use with the introduction of compulsory licenses for education and research, in the name of respect of the role of education and research in development. The Appendix provides flexibilities in the context of two economic rights for the developing countries. It allows in a very complex way to translate and reproduce works without the consent of their author in the favor of education and research. Despite of the right goals of the Appendix, it hasn't become a widely used tool of developing countries. Because of the bureaucratic attribute the system of compulsory licensing is dysfunctional and works barely.²⁰⁴

Patent law has an important role in each pillar of sustainable development, because as an extremely valuable competitive tool it can contribute to the economic development, in the context of pharmaceutical or food industry it may achieve essential social goals, and through the green innovation (environment-friendly energy-efficient technologies) it can facilitate the environmental endeavors. Besides these, through the disclosure requirement the patent documents provide access to the newest knowledge.

In the last decades biotechnology has become one of the most important field of patent-intensive industries, what has brought serious legal questions about the limit between patentable subject matter and public domain and other ethical issues.²⁰⁵ The recently closed Myriad case in the USA highlights that the biotechnological inventions as patentable subject matters are still in the center of serious debates. The Supreme Court said that only the artificial DNA segments are patentable, which are significantly different from the DNA in nature, so the living nature can't be patented limitless.²⁰⁶

Public health is a core element of sustainable development, but unfortunately the Development Agenda doesn't contain any recommendation in this field. Despite of that WHO, WIPO and WTO pay special attention to the connection of IP rights and public health. The continuous extension of transitional period of TRIPS clearly reflects the public health situation in the developing countries. With complex system of transitional period according to the current state the developing countries have the opportunity to

²⁰⁴ RICKETSON, Sam-GINSBURG, Jane C.: *International Copyright and Neighbouring Rights. The Berne Convention and Beyond*, Oxford University Press, Oxford, 2006. pp.129-130., VON LEWINSKI, SILKE: *International Copyright Law and Policy*, Oxford University Press, Oxford, 2008. pp. 73-74.,

SILVA, Alberto J. Cerda: Beyond the Unrealistic Solution for Development Provided by the Appendix of the Berne Convention on Copyright, in *PIJIP Research Paper*, No. 2012/08, American University Washington College of Law, Washington, D.C., p. 8.

²⁰⁵ PETZNÉ STIFTER Mária: A biotechnológiai tárgyú találmányok szabadalmazhatóságának kérdései Magyarországon és az Amerikai Egyesült Államokban, in *Iparjogvédelmi Szemle, a Szabadalmi Közlöny és Védjegyértéktő melléklete*, 1992. augusztus, 49.

²⁰⁶ DOMOKOS Klarissza: Gének szabadalmazhatósága, in *Iparjogvédelmi és Szerzői Jogi Szemle*, 2013/5. szám, pp. 25-26.

maintain such a patent system until 1. January, 2033, which doesn't fit to the TRIPS and serve their public health interests.²⁰⁷

Because of the opportunity of deviation from TRIPS in some countries the stricter TRIPS-Plus rules prevail, in other countries the standards of TRIPS are in force, and in many developing countries the TRIPS-Minus regime can be observed during the transitional period.

It is an important patent law question whether the patented inventions can be used in researches. The requirement of disclosure provides the access to knowledge as a general societal interest. The use of patented inventions however requires special limitations and exceptions for research, but this solution accepted only in a narrow scope in most countries. The Bolar case in the USA has had a pioneer role, which led to a legislation what has permitted the researches of bioequivalence for the drug approval process. This have become a sample in many countries.²⁰⁸

The preferential procedure for green inventions is a more and more examined question. Its legal aspects are more administrative rather than substantive civil law issues. In order to browse in these inventions, it is necessary to establish a classification system which allows to separate green technologies. On international level there are already new solutions: the international patent classification was amended with a Green Inventory, and the Cooperative Patent Classification launched by the European Patent Office and the USPTO gives an own section for these technologies. The other way of supporting green inventions is to grant patents faster. In order to do that, since 2009 more countries adopted preferential procedural rules for green inventions which can significantly shorten the patent procedure.²⁰⁹

Trademark protection has slighter impact on sustainable development than other IP forms. Primary it is important as a boost for economy and competition and this way can serve indirectly the other pillars of

²⁰⁷ MUSUNGU, Sisule F.–OH, Cecilia: *The Use of Flexibilities in TRIPS by Developing Countries: Can They Promote Access to Medicines?*, Commission on Intellectual Property Rights, Innovation and Public Health, Geneva, 2005.

²⁰⁸ JUNEAU, Todd L.–MACALPINE, Jill K.: *Protecting Patents From The Beginning: The Importance of Information Disclosure Statements During Patent Prosecution*, in *Journal of the Patent and Trademark Office Society*, Vol. 82., Issue 8., 2000. pp. 580-581.,

Manual of Patent Examining Procedure, , United States Patent and Trademark Office, Alexandria, 2015. (cited: 18/11/2023), <http://www.uspto.gov/web/offices/pac/mpep/s2165.html>.

SCP/20/4, *Exceptions and Limitations to Patent Rights: Experimental Use and/or Scientific Research*, 2013, Standing Committee on the Law of Patents, WIPO, Geneva, p. 6., (cited: 18/11/2023), http://www.wipo.int/edocs/mdocs/patent_policy/en/scp_20/scp_20_4.pdf.

Roche Products Inc. v. Bolar Pharmaceutical Co. Inc., 733 F.2d 858 (Fed. Cir. 1984), U.S. Court of Appeals for the Federal Circuit, (cited: 18/11/2023), <http://law.justia.com/cases/federal/appellate-courts/F2/733/858/459501/>.

²⁰⁹ BAJI Gál Árpád: *Zöld szabadalmak gyorsított megadása program a Szellemi Tulajdon Nemzeti Hivatalánál*, Budapest, SZTNH, disseration, 2015. p. 5., DECHEZLEPRETTE, Antoine: *Fast-tracking Green Patent Applications. An Empirical Analysis*, International Centre for Trade and Sustainable Development, Geneva, 2013. p. 3.

development. The “green certification marks” could be very useful in order to identify those products which were made from environment-friendly materials.

The definition of trademark is the most important question from the view of trademark public domain. In the EU it is a quite current issue because the new trademark directive gave up the requirement of graphical representation (moving towards the liberal TRIPS definition of trademark), and this way there is wider opportunity to get protection.²¹⁰ The other aspect of public domain are the grounds of refusal. From the view of sustainable development, it is important to prevent the acquisition of cultural heritage. In my opinion to grant trademark protection as an individual intellectual property right on a century or millennia old cultural symbol can't be allowed, because it decreases the cultural self-determination of the affected society.²¹¹

Geographical indications are important factors in sustainable development through the preservation of local values, culture and lifestyle. This fact was well represented at the Geneva revision of Lisbon Agreement in 2015. The system of geographical indications is important for the developing countries, and the consensual agreement in Geneva could be realized only through the balanced respect of the interests of developing and developed countries.²¹² The regulation of geographical indications is interesting, because it differs from the other IP forms, it has a special characteristic, and its structure could be adequate for the new types of IP forms, which are forming in order to serve sustainable development.

Remarks related to the potential new forms of IP

Diversity is one of the most important elements of sustainable development. This comes from the structural theory, because a diverse system can adapt best to the environmental changes. From this aspect diversity is the key to survival. Therefore, the complexity and diversity of a system shall be protected. One of the endpoints of diversity is biological diversity, and the other endpoint is cultural diversity. The protection of biodiversity is related to the protection of genetic resources, and the protection of cultural diversity connects

²¹⁰ *Study on the Overall Functioning of the European Trade Mark System*, Max Planck Institute for Intellectual Property and Competition Law, Munich, 2011. (cited: 18/11/2023), http://ec.europa.eu/internal_market/indprop/docs/tm/20110308_allensbach-study_en.pdf.

²¹¹ WIPO/STrad/INF/5 *Grounds for Refusal of all Types of Marks*, 2010, Standing Committee on the Law of Trademarks, Industrial Designs and Geographical Indications, WIPO, Geneva, (cited: 18/11/2023), http://www.wipo.int/export/sites/www/sct/en/meetings/pdf/wipo_strad_inf_5.pdf.

²¹² CURCHOD, François: *The Revision of the Lisbon System*, presentation, Worldwide Symposium on Geographical Indications, Budapest, pp. 20-22. October 2015., WIPO-SZTNH, DE TULLIO, Elio: *From Lisbon to Geneva: The Outcome of the Lisbon System Revision*, presentation, Worldwide Symposium on Geographical Indications, Budapest, pp. 20-22. October 2015, WIPO-SZTNH.

to the protection of traditional cultural expressions. Between them stands – partially linked, partially separated – the protection of traditional knowledge.

The protection of genetic resources, traditional knowledge and traditional cultural expressions indicate such new directions within the IP rights, which declared aim is to facilitate the different aspects of sustainable development. These are such new, forming legal institutes, which aren't part of the universal system of IP yet, and maybe they never will be. In this process the WIPO tries to be a pioneer, but the end of its work is far away. The classic forms of IP can protect these fields only partially, this way the effective protection requires sui generis solutions.

The WIPO drafts on the protection of traditional cultural expressions²¹³ and traditional knowledge²¹⁴ are very similar, they regulate their subject parallel, along the lines of classical IP forms. However the draft treaty of genetic resources is quite different, it embodies the defensive protection.²¹⁵ It means, that instead of providing exclusive rights, it creates grounds of refusal for other IP forms.

The right holders, or with the new terminology, the beneficiaries of these rights are the indigenous people and local communities. This solution is unfamiliar in the individual system of IP and requires the acceptance of legal capacity of communities.

Each new form is built upon the system of equitable access and benefit-sharing. This gives the economic side of these protections, what can serve the further development of the affected indigenous people and local communities. However, this could be a danger, because the technical and infrastructural development can the communities tear apart from their original and natural environment, where the protected values were born.

For the effective protection complex searchable databases are essential, because in the absence of them it is barely possible to prevent granting IP rights for others about these values without consent. In order to establish databases, proper database protection system would be a good incentive. This can be done through the classical copyright protection and sui generis database protection, like the EU did. Unfortunately, the issue of international harmonization of database protection isn't in the agenda of WIPO.²¹⁶

²¹³ WIPO/GRTKF/IC/40, *The Protection of Traditional Cultural Expressions: Draft Articles - REV*, 2019, Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore, WIPO, Geneva, (cited: 18/11/2023), https://www.wipo.int/edocs/mdocs/tk/en/wipo_grtkf_ic_40/facilitators_text_on_tces.pdf

²¹⁴ WIPO/GRTKF/IC/40, *The Protection of Traditional Knowledge: Draft Articles*, Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore, Geneva, 2019. (cited: 18/11/2023), https://www.wipo.int/edocs/mdocs/tk/en/wipo_grtkf_ic_40/facilitators_text_on_tk.pdf

²¹⁵ WIPO/GRTKF/IC/40, *Consolidated Document Relating to Intellectual Property and Genetic Resources*, Intergovernmental Committee on Intellectual Property and Genetic Resources, Traditional Knowledge and Folklore, Geneva, 2019 (cited: 18/11/2023), https://www.wipo.int/edocs/mdocs/tk/en/wipo_grtkf_ic_40/wipo_grtkf_ic_40_6.pdf

²¹⁶ VON LEWINSKI: *cit.*, pp. 549-551.

The draft treaties breach the principle of territoriality because of the specialties of beneficiaries and the subject matter of these protections, and because of the new philosophy of these IP forms. Indigenous people and local communities in geographical sense don't fit necessarily to the borders of states, and their genetic resources, traditional knowledge and cultural expressions aren't connected solely to one country, so their effective protection requires cross-border cooperation. Besides that, sustainable development is a global phenomenon, and these IP forms – serving sustainable development – need to be regulated on global level.

Conclusion

The polarization of interests is crucial within sustainable development. We can talk about bipolarized system, where the interests of developed and developing countries collide, or about tripolar system, where the interest of transitional economies appear as well. This can be split further according to the opposition of east and west. The variety of interests appears in the sustainable development as a whole, and in narrower sense in the subsystem of IP rights.

This polarization visibly (think about TRIPS, TRIPS-Plus and TRIPS-Minus) begins to stretch out the traditional framework of IP rights, and because of the spread of sustainable development the current legal constructions seem even narrower. This necessarily induce changes in every level of the legal system.

The expanding borders of IP system are reflected well by the draft treaties of new IP forms. Though we can't tell that these would become the part of IP system (maybe they won't) but clearly indicate that sustainable development requires new solutions. From private law aspect it is a hard question to figure out, how could these new forms be integrated into the current dogmatics. However, the system isn't unified currently either, because there are serious differences between the Roman-German and Anglo-Saxon legal systems, and the adoption of new IP forms cause both of them tough moments. The legal capacity of communities, the breach of territoriality and the benefit-sharing would be quite strange elements, but we have to remember, the IP law was always on of the most adaptive and progressive field of law, so the pure novelty or weirdness can't be an obstacle.

As a final remark, we can say that IP law could be a useful tool for facilitating sustainable development. It has so strong incentive power what is essential to development. There is a lot of connection points, where the IP rights have influence on the pillars of sustainable development. Therefore, I can't accept the nihilist approach of public domain, which sees the key to sustainability in the elimination of IP rights.²¹⁷ However I feel necessary to generally limit them. IP rights as tools for sustainable development aren't good or bad in

²¹⁷ BOBROVSZKY: *cit.*, p. 17.

themselves, everything depends on how we use them. The economic centric national and international legislation degrades IP to a tool for individual economic power, regardless from societal and environmental aspects. The examined elements are just small parts of a complex system, but they have crucial role in order to create balance.

Law and IP law as a subsystem are suitable tool to help humanity to step onto a sustainable path. But it isn't enough alone. It is an important tool and frame but can't realize all of the goals. We need serious societal changes, new way of thinking, new human values, which aren't primarily legal issues, but the law has to be a partner for these. We can't see the future, so we don't know whether these initiatives will be successful or not. However, the experiences justify pessimism.