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uncertainty and therefore "caution is invoked when prevention is not enough" [6].

ere are several formulations about the precautionary principle, some that would cover a greater degree of intervention, or a larger scope of the concept, but they all share some basic elements: (i) the threat of a serious danger to the environment or health, of which (ii) there is no scientic c certainty, but (iii) if there is some certainty, (iv) the authorities must take protective measures, or they cannot defer them until absolute proof is credited.

It has been said that the precautionary principle entails $% \left(\mathbf{r}\right) =\mathbf{r}^{\prime }$ vertues:

- Responsability: Who initiates an activity must demonstrate that no safer alternative route to achieve what has been proposed.
- Respect: In situations of serious risk, preventive action is required to prevent damage, even if there is no full scienti c certainty of cause and e ect.
- c. Prevention: exists a duty to search for ways to avoid potential damage, rather than to seek to control them a erwards.
- d. Obligation to know and to inform. ere is a duty to inform those with the potential risks of the possible impacts, it should not plead ignorance
- e. Obligation to share power. Democratize decisions regarding science and technology.

GM food, the production of certain drugs, nuclear waste, the greenhouse e ect, the mad cow disease, blood contaminated with HIV that a ected thousands of people, despite their gender di erence, are linked to the precautionary principle. It is a technology-saturated society, inhabiting an intervened and altered nature; these risks which are unknown become important. So, this raises concern in society and attention from the law and courts, without waiting for actual harm. In consequence, the precautionary principle is one of the ways of today's society to deal with this new kind of risks associated with scientic cuncertainty, and it increased social sensitivity towards a policy of caution and precaution with these new risks that are generating a new model of response which is not preventive but precautionary.

Indeed, there is a di erence between the preventive principle and the precautionary principle. e rst one, wants to avoid damage. e precautionary principle introduces a di erent perspective. It seeks to prevent the creation of a risk with still unknown e ects and therefore unpredictable. It operates in the realm of uncertainty, and invokes urgent measures even though there is no scienti c evidence on the behavior of nature. Prevention is a rational behavior against an evil that science can measure within scienti c certainty. In precaution, on the contrary, the scienti c knowledge is still insu cient to respond to a given problem.

Case Law in Colombia

Colombia has not escaped the following dilemma: while public decisions taken within the framework of scientic certainty will always be responsible and bene cial for the private sector and encouraging the development of rigorous scientic studies, an absolute defense of this approach can delay constitutional rights protection, to the point of making it inective. From the opposite perspective, an intervention by the authorities in the scientic activities in the absence of certainty of damage to the environment or health implies a stagnation of scientic activities, while sending a negative message to the development of

rigorous research, hinders the exercise of certain liberal professions and trade.

e Colombian government, in fact, began to express its interest in taking the precautionary principle in the eld of environmental protection, by signing the Rio Declaration on Environment and Development. is document introduced, in its Article 15 the precautionary principle , under the following formula : "In order to protect the environment , the precautionary approach shall be widely applied by States according to their capabilities. Where there are threats of serious or irreversible damage, lack of full scientic c certainty should not be used as a reason for postponing costective measures to prevent environmental degradation".

Soon a er, the precautionary principle acquired a constitutional status in the Colombian legal system with the enactment of Law 99 of 1993 which incorporated the principles of the Rio Declaration into

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