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[Assis et al., 2023] [16]. ?????????? ?????????????? ?????? ?? ?????? ?????? ?????? ??????????-????????????????? ?????, ? ??????? ??
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al., 2020] [22]. ?????????? ??????????????, ?????? ?? ?????? ?????? ? ?????? ?????????????? ?????? [Baskent, 2023] [23], ??????????,
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1. ?????????????? ?????????? ?????? ? ?????? ?????????? ?????????? ?????????????????????? ?????? (MEA, CICES, NCP).
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(eLibrary, ???) ?? ?????????? ??????: "????????????? ??????", "????? ?????????????? ?????? ?????", "????? ?????????? ??????",
"economic valuation of forest ecosystem services", "ecosystem services criticism". ?????? ?????????? ?????????? ?????-????????? ?
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Common International Classification of Ecosystem Services – CICES, IPBES) ?? ?????????? ?????????? ??????????????????

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?????????????» (Millennium Ecosystem Assessment, MEA) ? 2000–? ?????.

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(CICES), ??????? ?????????? ?????????? «????????????????????? ?????», ??????? ?? ?????? ?????????? ?????????? ?????????????????? ?????? ?
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?????????????????????» (TEEB), ?????????? ?????????????????? ???????, ?????? ?????? ? «?????» ?? «????? ?????????? ? ?????????????????? ??????»
(Nature's Contributions to People, NCP), ?????????? ?????? ?????? ?????????????? ? ?????????????????? ?????????????? ?????????? ???????.

Figure 1. The Four-Level MEA Model

1. The Four-Level MEA Model

2. The Four-Level MEA Model

Figure 1. The Four-Level MEA Model

1. The Four-Level MEA Model

2. The Four-Level MEA Model

Figure 1. The Four-Level MEA Model

1. The Four-Level MEA Model

2. The Four-Level MEA Model

Figure 2. Interrelation Model of the Ecosystem Service Concept

Source: Authors' own elaboration

Figure 2 illustrates the interrelation model of the ecosystem service concept. It shows the relationships between different components of the ecosystem, including the environment, society, and the economy. The model is based on the concept of ecosystem services, which are the benefits that humans derive from ecosystems. The model is divided into three main sections: the environment, society, and the economy. The environment section includes the natural environment, which provides the raw materials and services that support human life. The society section includes the human population, which uses the ecosystem services and provides feedback to the environment. The economy section includes the production and distribution of goods and services, which are derived from the ecosystem services. The model shows how these three sections are interconnected and how they influence each other.

Table 1

Major systems of ecosystem services classification		
Criterion	Millennium Ecosystem Assessment (MEA)	Classification of Ecosystem Services (CICES)
Core Principle	Anthropocentrism: benefits for humans.	for accounting and valuation; avoids double counting.
Key Categories	1. Provisioning 2. Regulating 3. Cultural 4. Supporting	Hierarchical system: Sections > Groups > Classes. Focus on final
Treatment of 'Supporting' Processes	Identified as a separate service category.	/ Excluded as a separate category; considered as underlying functions.
Advantages	Simplicity, clarity, historical significance.	Methodological rigor, suitability for accounting purposes.
Critique	Risk of double counting (supporting services).	Complexity, excessive formal

The table compares two major systems of ecosystem services classification: the Millennium Ecosystem Assessment (MEA) and the Classification of Ecosystem Services (CICES). The MEA system is based on anthropocentrism, focusing on benefits for humans. It includes four key categories: provisioning, regulating, cultural, and supporting. The CICES system is a hierarchical system, focusing on final uses. It includes sections, groups, and classes. The table also compares the treatment of 'supporting' processes, advantages, and critiques of both systems. The MEA system is criticized for the risk of double counting supporting services, while the CICES system is criticized for its complexity and excessive formalism.

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Table 2

Main Methods for Economic Valuation of Forest Ecosystem Services				
????????? / Method Category	????????????? ?????? / Specific Methods	????????? ?????????? ? ?????? ?????????????? / Principle and Scope of Application	????????????????? / Advantages	????????????????? / Limitations
??????? ?????? ?????????? ??? / Direct Market Pricing Methods	??????? ?????????? ??? / Market Price Analysis	????????????????? ?????????????????? ?????????? ??? ?? ?????? (?????????????, ?????????????? ??????????). / Using existing market prices for goods (timber, non-timber forest products).	?????????????????, ?????????? ??????????. / Objectivity, simplicity of calculations.	????????????? ??? ?????? ?????????? ?????????????????? ??????, ?????????????? ?????????? ?????????? ?????????? / Evaluates only a narrow segment of provisioning services, ignoring the core value of the forest.

?????????? (?????????) ?????? / Cost-Based Methods	????? ????????????????? ????????? / Replacement Cost Method	?????? ?????? ?? ????????????? ????????????????? ?????????? ?????? (????, ????????????? ????????????? ??????????). / Estimating the cost of artificially recreating a lost service (e.g., building water treatment facilities).	????????????? ??? ??, ????????????? ??????. / Clear and understandable for decision-makers.	????????? ?? ????????? ????????, ? ????????? ?????? ???????? ?? ?????????. / Reflects not the real value, but the cost of replacement; dependent on the chosen technology.
	????? ?????? ?? ????????????? / Avoided Cost Method	?????? ???????, ?????? ????????? ??????? ????????? ?????????????? ?? (????, ?????????????????). / Estimating the expenses society avoids due to the existence of ES (e.g., reduced healthcare costs).	????????? ????????????? ?????? ?????? ?? ????????????? ?????. / Allows for the quantification of benefits from regulating services.	????????? ????????????? ?????? ????????- ????????????? ??????. / Difficulty in establishing a direct causal link.
?????, ?????????? ?? ????????? ????????????? / Revealed Preference Methods	????? ????????????????? ????????????????? / Hedonic Pricing Method	????????????????? ?????? ?????? ????????????????? ????????????? (????????? ? ???) ?? ?????? ????????? ?????????? ??? (?????????????). / Statistical analysis of how environmental characteristics (proximity to a forest) affect the market price of related goods (real estate).	????????? ?? ????????? ????????? ??????????. / Based on actual market behavior.	????????? ????????? ??????; ????????? ???????? ???????????????? ?????????. / Requires extensive data; difficulty in isolating the environmental factor.
	????? ????????????? ????? / Travel Cost Method	?????? ?????????????? ??????? ?? ????????? (????, ?????), ???????? ?????? ?????????? ?? ???????? ? ??????????. / Estimating recreational value based on the costs (time, money) visitors incur to access a site.	????????????? ??? ?????? ????????????? ????? ????????????? ????????? ?????????????. / Effective for evaluating cultural services of protected natural areas.	?? ????????? ???????? ????????????????? ?? ?? ?????????????. / Does not account for the existence value for non-visitors.
?????, ????????????? ?? ????????? ????????????????? / Stated Preference Methods	????? ????????? ?????? (CVM) / Contingent Valuation Method (CVM)	?????? ?????? ?????????? ? ??? «????????????? ??????» (WTP) ?? ????????????? ?? ?????????? ?? ???? «????????????? ?????? ?????????????» (WTA) ?? ?? ?????. / Directly surveying the public about their "Willingness to Pay" (WTP) for preserving/improving an ES or "Willingness to Accept" (WTA) compensation for its loss.	????????????? ?????, ????????? ?????? ???????????????????? ????????? (????, ?????? ???????? ?????????????????). / The only method capable of evaluating non-use values (e.g., the value of biodiversity).	????????? ???????????????? ????????, ????????????? ?? ????????????? ?????????. / Susceptible to hypothetical bias, framing effects.
	?????? ?????? (CE) / Choice Experiment (CE)	????????????????? ?????? ????? ????????????????????? ????????? ????????????? ? ?????? ????????????? (????????????????, ????????????????). / Modeling choices between alternative management scenarios with different attributes (ecological, economic).	????????????? ?????? ????????? ????????? ????????????? ? ?????? ?????????????. / Allows for valuing individual attributes and identif	

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Source [27-30]

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