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[Assis et al., 2023] [16]. ?????????? ?????????????? ?????? ?? ?????? ?????? ?????? ??????????-????????????????? ?????, ? ??????? ??
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??? ?????? ?????????? ?????? [Roces-Díaz et al., 2022] [18], ?????? ?????????????.

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????????????? [Garcia-Pardo et al., 2022] [20]. ?? ?????????? ?????????????? ?????? ? ?????????? ?????????? ??????? ??????????????????
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al., 2020] [22]. ?????????? ??????????????, ?????? ?? ?????? ?????? ? ?????? ?????????????? ?????? [Baskent, 2023] [23], ??????????,
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????????????????? [Acharya et al., 2019] [24].

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1. ?????????????? ?????????? ?????? ? ?????? ?????????? ?????????? ?????????????????????? ?????? (MEA, CICES, NCP).
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4. ?????? ?????????? ? ?????????, ?????????? ?? ?????? ?????????????? ?????? ? ?????????? ?????????.
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(eLibrary, ???) ?? ?????? ??????: "????????????? ??????", "????? ?????????????? ?????? ?????", "????? ?????????? ??????",
"economic valuation of forest ecosystem services", "ecosystem services criticism". ?????? ?????????? ?????????? ?????-????????? ?
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?????? ?????????? (Millennium Ecosystem Assessment – MEA, The Economics of Ecosystems and Biodiversity – TEEB,
Common International Classification of Ecosystem Services – CICES, IPBES) ?? ?????????? ?????????? ??????????????????

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????????????????? ?????? «?????????????»), ?????????? ?????????????? ?? ?????? FSC, ?????????? «?????? ?????????») ??? ??????????????
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NCP) ? ?????????????? ??????????????, ?? ??????? ?????????????? ?????????????? ?????????????????? ??????. ??? ??, ?????????????????? ?
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«????????? ?? ?????????????? ?????????????? ?????????????????? ??????» (SCEP). ?????????????? ?????????????? ?????? ?????????? ??????????
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?????????????» (Millennium Ecosystem Assessment, MEA) ? 2000–? ?????.

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????? ??? (????) ?? ??????. ??? ?????????–????????????????? ?????? ?????? ?????? ?? ??????? ?????????????????? ?????? ??????
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(CICES), ??????? ?????????? ?????????? «????????????????????? ?????», ??????? ?? ?????? ?????????? ?????????? ?????????????? ??????? ?
?????????, ??????? ? ?????? ?????????? ?????? ?? ??????????. ??? ???, ?????? ??????????, ?? «????????? ?????????? ?
????????????????????» (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

Source: [3]

Figure 2. 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 service concept, including the core principle, key categories, and the treatment of supporting processes. The model is based on the authors' own elaboration.

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 formalization.

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, and includes four key categories: Provisioning, Regulating, Cultural, and Supporting. The CICES system is a hierarchical system (Sections > Groups > Classes) that focuses on final functions and excludes supporting services as a separate category, considering them as underlying functions. The MEA system is praised for its simplicity, clarity, and historical significance, but it is criticized for the risk of double counting supporting services. The CICES system is praised for its methodological rigor and suitability for accounting purposes, but it is criticized for its complexity and excessive formalization.

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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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