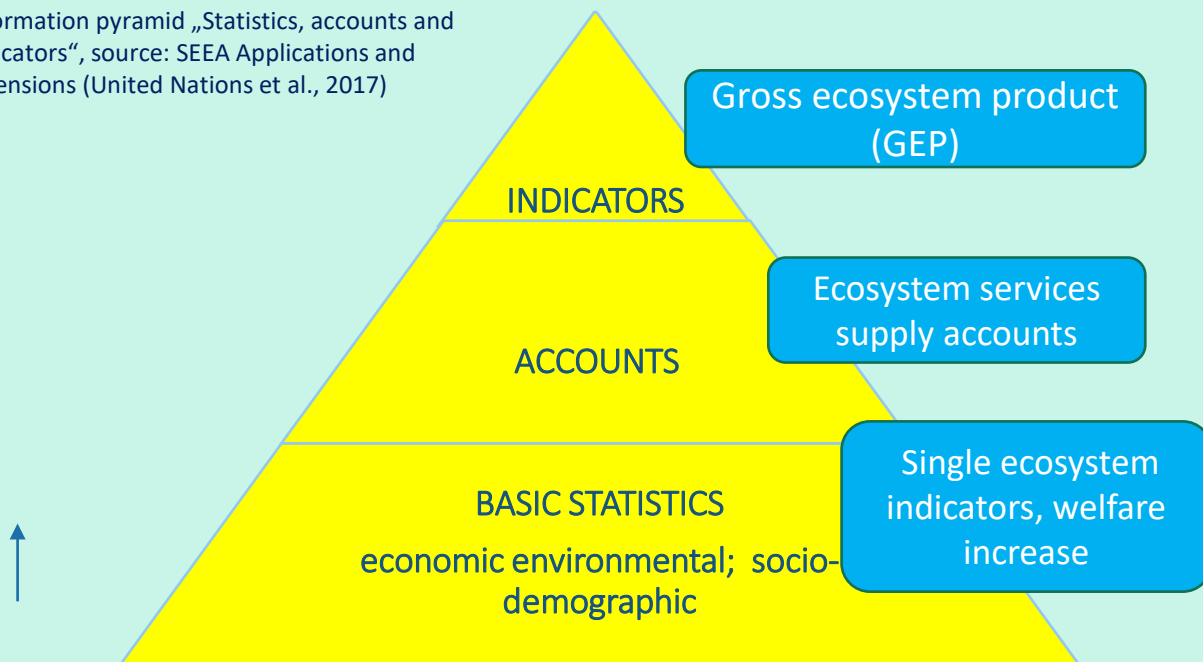


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UN SEEA EEA implementation and applications

## Aggregation of the ecosystem service values in urban ecosystem account, application of the principles of gross ecosystem product (GEP)

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### Observations:

- Changes in any of the possible GEP dimensions (covered assets, the ecosystem services included, valuation methods) affect the value of the GEP.
- Gathering all valuation results in one framework shows the gaps and possible quality issues.

### Conclusions:

- Aggregation of the monetary values to gross ecosystem product (GEP) is important by various reasons (balance sheets do this, need for simplification, capture of a whole picture).
- It is important to maintain the link to supply matrices when you aggregate.
- For GEP relevant services and ecosystems should be included for the ecosystem accounting area. This means including exchange and welfare values.
- The concept of aggregate measure of ecosystem services needs further investigation. In particular guidance is needed on how exchange and welfare values can be compared/aggregated, as these values may (partially) overlap.

Numerical example of the aggregated supply table of ecosystem services (25 services) based on urban thematic account; first (GEP) and second level aggregates, Estonia, million euros, 2019

	GEP	Market values	Non-market, urban CVM	Non-market values, CVM natural ecosystems
Total urban area	42.5	25.8	17.2	0.5
Urban ecosystem assets "urban green"	27.2	12.7	14.5	-
Natural ecosystems "natural and semi natural ecosystems"	13.0	10.8	2.7	0.5
Artificial areas (grey)	2.3	2.3	-	-

Questions to the London Group experts:

Do you have any comments on the applied principles on how the GEP indicator, compiled on the basis of urban ecosystem account was constructed?

Do you have comments on observations and conclusions?

Do you have suggestions for improvements?

We consider this effort as a beginning of the longer processes in compiling aggregated indicator of the flow of the ecosystem service values. We could work further on the logic applied and feedback to be received and return to this topic in the next LG.

# Thank you!



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