



Joint OECD/UNECE Seminar on Implementation of SEEA

13-15 March 2023, Room XIX, Palais des Nations, Geneva

#SEEAseminar2023

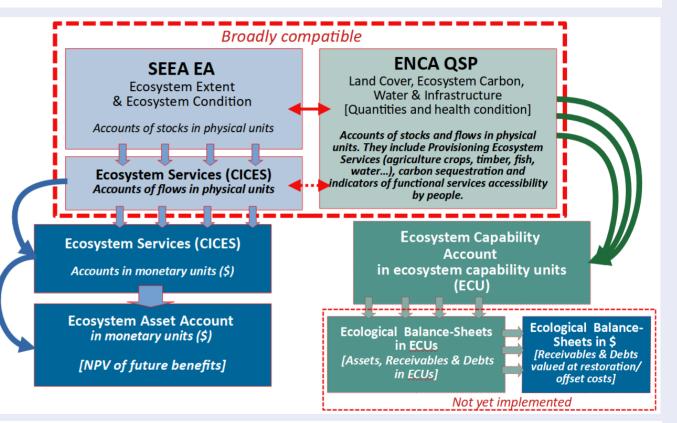
Outcomes of projects of implementation of ecosystem natural capital accounts in Africa and the Guiana Shield

Jean-Louis Weber,

International Consultant in Economic-Environmental Accounting

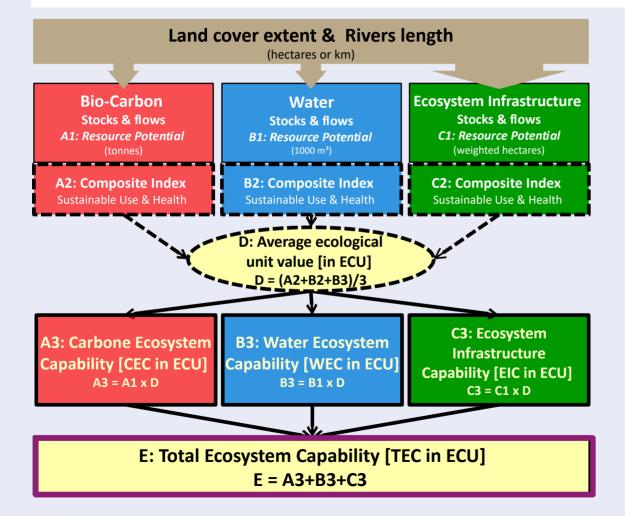
ENCA QSP, a variant of the SEEA-EA

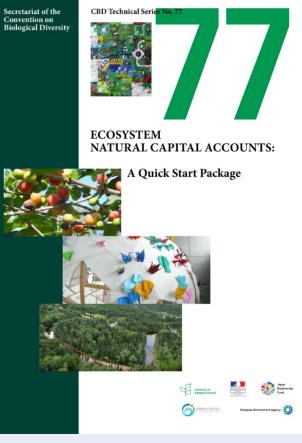
- Ecosystem Natural Capital Accounting "Quick Start Package" (ENCA-QSP) is a methodology published by the CBD in 2014 to support the implementation of ecosystem accounts as requested by the 2010 Aichi Biodiversity Strategy Target 2.
- ENCA-QSP is a variant of SEEA-EA. While the SEEA-EA aims to measure the economic monetary benefits of ecosystem services considered as assets, the ENCA Quick Start Package addresses the potential and resilience of ecosystems in biophysical terms in order to measure their degradation.



SEEA-EA and ENCA-QSP accounts in physical terms are broadly compatible

ENCA QSP : MEASURING TOTAL ECOSYSTEM CAPABILITY (IN ECU)

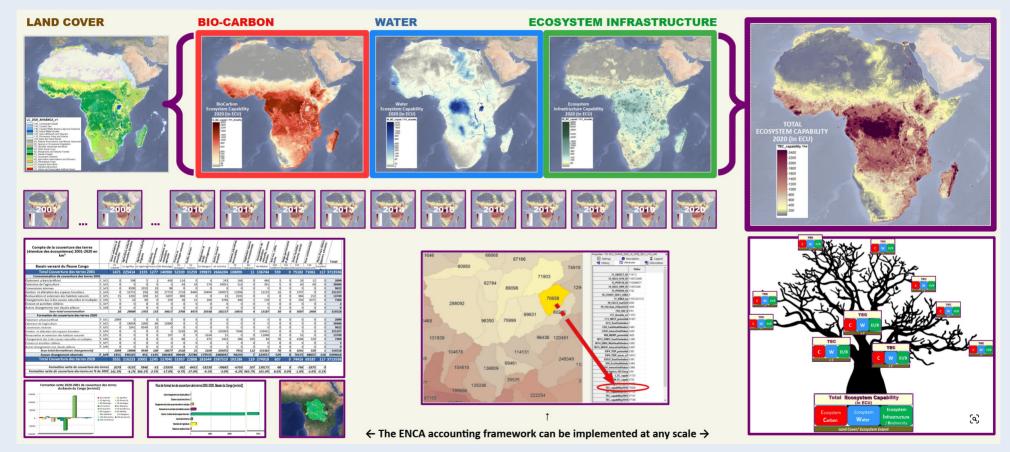




vww.cbd.int/doc/publications/cbd-ts-77-en.pd

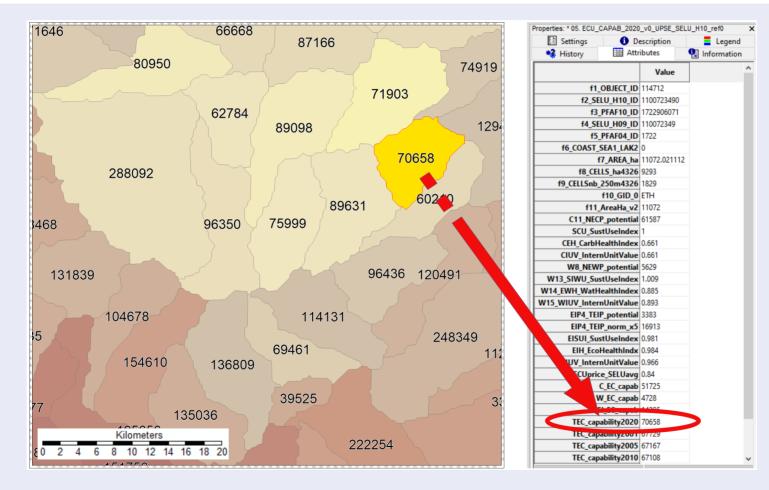
AfrikENCA : first ENCA application at the continental scale by the Observatory of Sahara and Sahel (OSS)





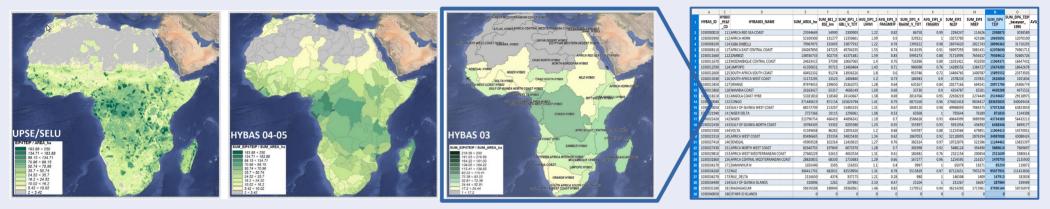
The Observatory of Sahara and Sahel (OSS) is an international organization created in 1992. OSS is composed of 26 African countries, 7 non-African countries and 13 Member organizations (incl. FAO, UNCDD, regional bodies and NGOs).

AfrikENCA : full accounts of <u>socio-ecological landscape units</u> (SELUs) aligned to small river basins (~ 150 km² – more than 200 000 for Africa)

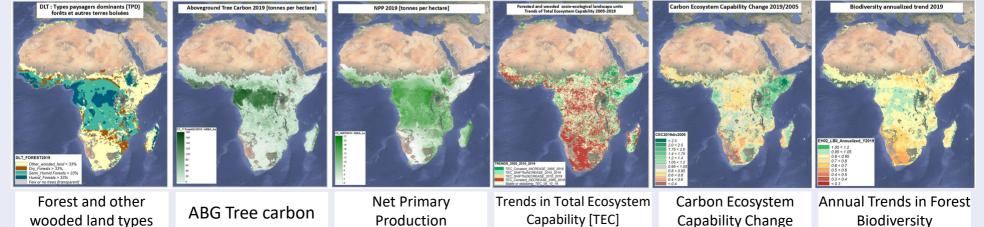


Examples of ENCA accounts and derived indicators

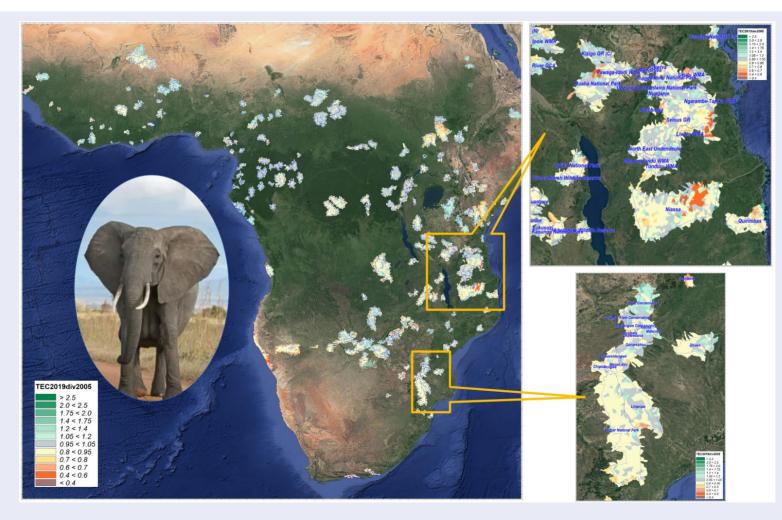
EIP4 indicator - Ecosystem Infrastructure Potential by elementary SELUs and aggregated by catchment



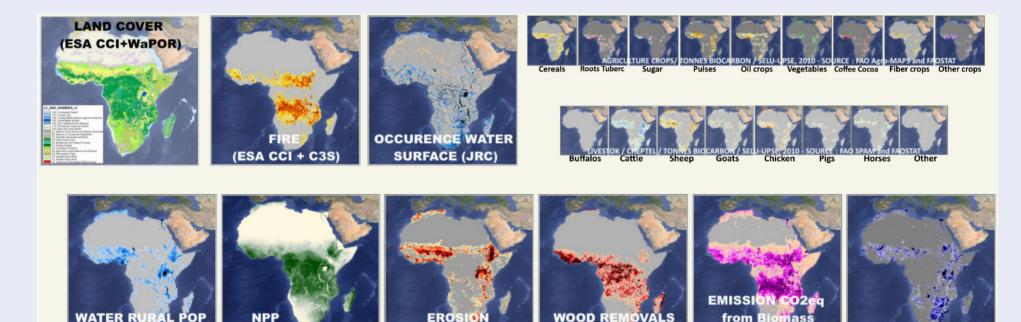
Extraction of indicators by forested SELUs classified according to USGS [ELU] climate types



Change in Total Ecosystem Capability 2005-2019: Nature Protection Parks with Elephants



Examples of primary datasets reprocessed for ecosystem accounting



Using more than 50 international datasets and statistics, AfrikENCA full accounts are compiled for more than 200 000 statistical units, for 2001, 2005, 2010 and then annually up to 2020. ENCA tables, as well as reprocessed (resampled, extrapolated, corrected...) data, will be made available on the OSS website (but not the primary data themselves, which belong to providers).

(ISRIC+JRC+C3S)

(UMD +ESA CCI)

various sources

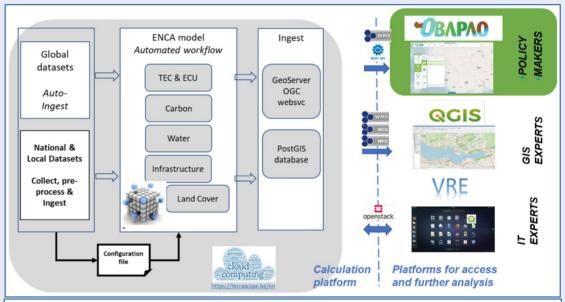
IRRIGATION

WORLD POP+FAO

(COPERNICUS

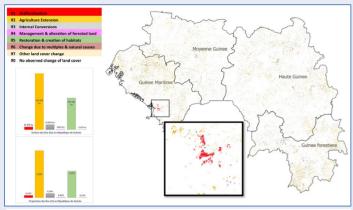
COPERNICEA beyond AfrikENCA : National Projects for 6 Countries

- Six participating countries : Burkina Faso, Guinea-Conakry, Morocco, Niger, Senegal and Tunisia
- Nation wide and thematic or local projects (coastal zones, oasis, argan forests, water, ...)
- Vocational training of national teams to ENCA (environment agencies, forest agencies, statistical offices, universities...) using the KANGARÉ-ECOSYSTEMS Tutorial. First round of on-line training in 2021 and 2022; 7 training sessions followed by 100 persons in total. In situ training sessions by countries started...
- Collection, processing and ingestion of national and local datasets, using the Sys4ENCA processing platform developed by VITO in the context of the IUCN PAPBio project financed by the EU. Training of national teams in May 2023.

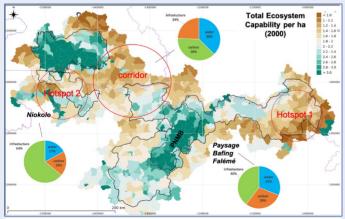


The Sys4ENCA processing platform developed by VITO for semi-automatic Ecosystem Natural Capital Accounting (ENCA) following the ENCA Quick Start Package (QSP)

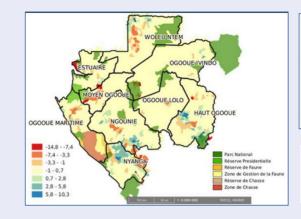
Other ENCA projects in Africa

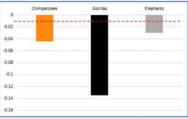


R. GUINEA Agro-Ecological Zoning and accounts by Min Agri, IGN-FI and CIRAD

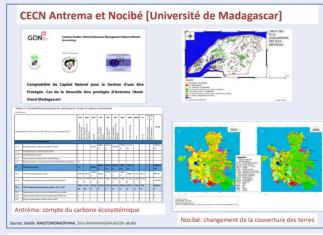


R. GUINEA and SENEGAL: Nature Protected Areas by UICN and VITO plus experts





GABON: Country and Nature Protection for 3 species, by UICN, WWF Gabon and ONFI



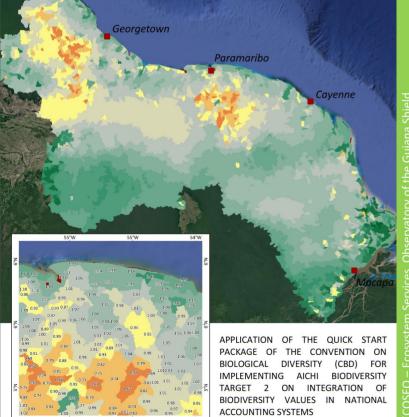
MADAGASCAR: Nature Protected Areas by U. Antananarivo

And:

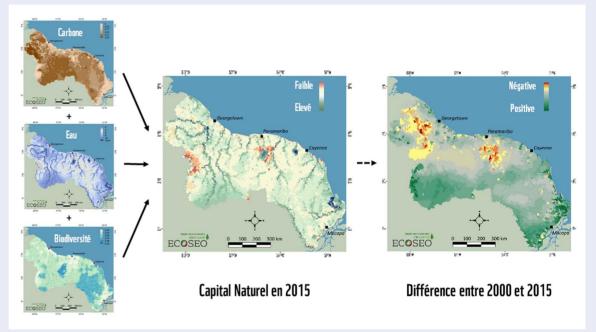
- Mauritius Second Generation (University of Mascareignes)
- ENCA Kenya by IUCN and ONFI
- ENCA Park of the Niger W (incl. Guinea, Burkina Faso and Benin), by IUCN and VITO



Ecosystem natural capital accounting in the Guiana Shield in 2000 and 2015



ENCA in the Guiana Shield 2000 & 2015 by WWF and ONFI with National Teams of Guyana, Suriname, French Guyane and Brazilian Amapá



https://www.wwf.fr/projets/proteger-la-foret-amazonienne-du-plateau-des-guyanes

FINDINGS

- High quality land cover maps provided by national teams, with a focus on Gold mining
- Full set of accounts
- Water quality accounts reflecting in particular gold mining impacts on rivers
- Total losses of trees = 2.6 times roundwood removal recorded in statistics
- Broad use of international data sets; understanding of the need of more than 2 dates



au service de l'Afrique serving Africa

Jean-Louis Weber International Consultant Scientific Adviser to the OSS for the COPERNICEA project

