

# How does knowledge infrastructure mobilization influence the safe operating space of regulated exploited ecosystems?

The code has been used for the following publication:

<https://cbie.asu.edu/how-does-knowledge-infrastructure-mobilization-influence-safe-operating-space-regulated-exploited>

The code has been done using the Matlab software. The code is structured as follows :

- The main programme: MainProgrammeEF.m
- The code that calculates the SOS of each manager: SOSEW\_EF.m (Early-Warnings manager), SOSMSY\_EF.m (MSY manager), SOSALF\_EF.m (Annual Licence Fees), SOSFT\_EF.m (Flat Tax manager), SOSOAE\_EF.m (Optimal Adaptive Effort manager).

**Note:** the code for the OAE manager is based on dynamic programming. We recommend a fine discretization of the 2D state space (at least 101x101) and a high number of random simulations for the transition matrix (at least 1000).