

Annex A. CUMULEO framework

The CUMULEO framework (Figure 1) is a method for the assessment of cumulative effects on 'nature values' induced by human activities. This method has been applied in several studies and is constantly evolving (Karman & Jongbloed, 2008; Karman et al., 2008; De Vries et al., 2011; Van der Wal & Tamis, 2013). Effects are determined by the function of the intensities of pressures arising from human activities and the sensitivities of ecosystem components to these pressures. In principle, each activity can induce several pressures. A step-by-step approach is applied: 1. Scoping phase; Definition phase: determination of temporal en spatial boundaries; Identification phase: selection of ecosystem components, pressures and activities to be considered; Assessment phase: regarded are the intensity of activities; intensity of pressures, sensitivity of ecosystem components, determination of cumulative effects.

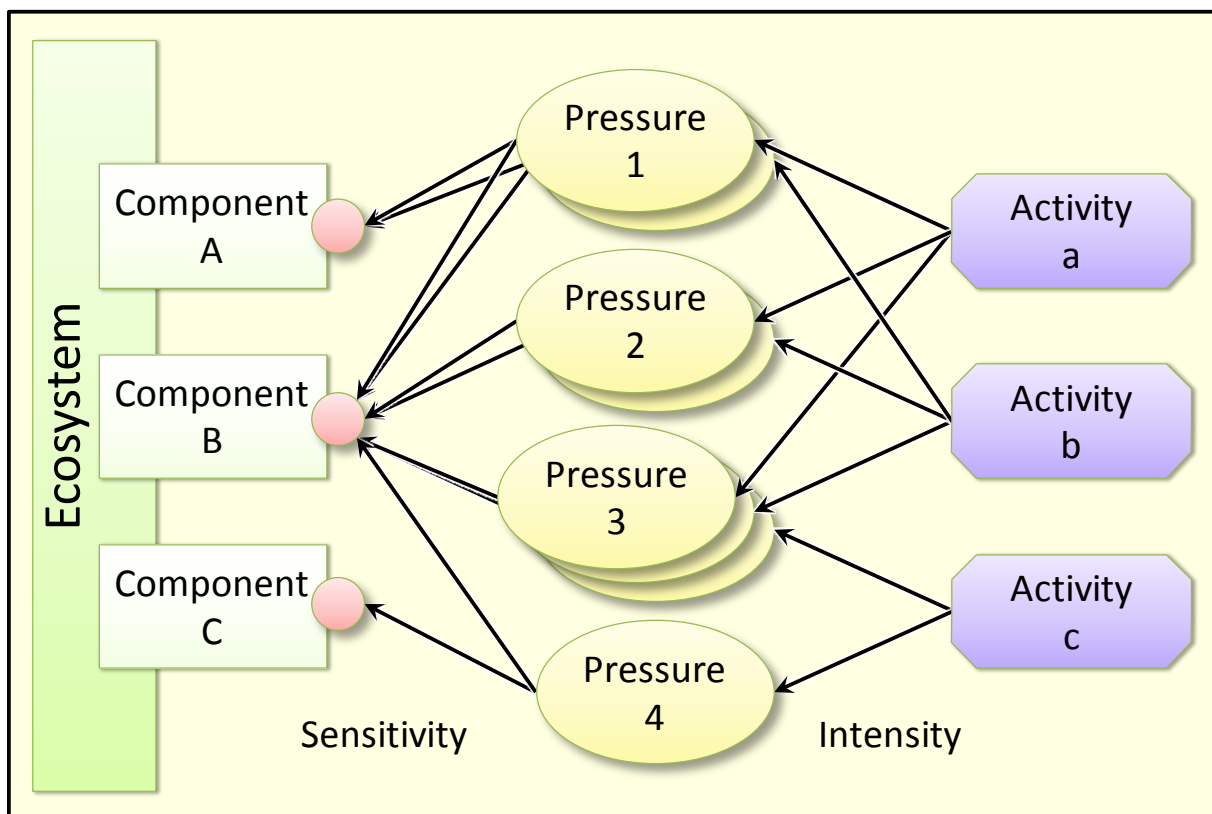


Figure A-1. CUMULEO-framework.

References:

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- Karman, C.C., J. E. Tamis & J.T. van der Wal (2008): Cumulative effect assessment – Case study: the Dutch EEZ. IMARES report C089/08.
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