



DELTA-HUB

LECTURES

**RIVER DELTAS
AT THE CROSSROADS:
STATE OF THE ART,
EMERGING THREATS,
AND THE ROLE OF
DELTA-HUB**



**Facultatea de Geografie, Amf. George Vâlsan, et. 3
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DELTA-HUB



UNIVERSITATEA DIN
BUCUREȘTI
— ESTABILIT ÎN 1859 —



<https://delta-hub.unibuc.ro/>

Title: *River Deltas at the Crossroads: State of the Art, Emerging Threats, and the Role of DELTA-Hub*

Description: This presentation offers a comprehensive overview of the current scientific understanding of river deltas, with emphasis on the accelerating pressures they face in the Anthropocene. It reviews key advances in delta research (to define precisely) from morphodynamics and modelling to sea-level rise and subsidence, and identifies persistent knowledge gaps that limit our capacity to predict and manage delta change. Special attention is given to decreasing sediment supply, coastal erosion and land subsidence as a compounding risk factor and to the increasing exposure of delta populations and ecosystems. The presentation closes by positioning DELTA-Hub within this landscape: how the project addresses critical research gaps and contributes to the development of science-based strategies for delta resilience.

About Edward Anthony:

RO:

Prof. Edward J. Anthony este profesor de Geografie Fizică (Classe Exceptionnelle) la Universitatea Aix-Marseille, Franța, și ERA Chair în cadrul proiectului Horizon Europe DELTA-Hub la Universitatea din București. Cu peste 35 de ani de experiență în geomorfologie costieră și fluvială, sedimentologie și management integrat al zonei costiere, Prof. Anthony a desfășurat cercetări de referință pe coastele Americii de Sud, Africii de Vest, Asiei de Sud-Est și ale Mediteranei, cu un accent special pe dinamica deltelor fluviale și vulnerabilitatea costieră în contextul schimbărilor globale. Este autor a peste 200 de lucrări în reviste internaționale (indice H: 44), redactor-șef al revistei *Marine Geology* (Elsevier) și laureat al Marelui Premiu de Științe Marine „Albert al II-lea” al Principatului Monaco (2023).

EN:

Prof. Edward J. Anthony is Professor of Physical Geography (Classe Exceptionnelle) at Aix-Marseille University, France, and ERA Chair holder of the Horizon Europe DELTA-Hub project at the University of Bucharest. With over 35 years of research in coastal and fluvial geomorphology, sedimentology, and coastal management, he has conducted landmark studies along the coasts of South America, West Africa, Southeast Asia, and the Mediterranean, with a particular focus on river delta dynamics and coastal vulnerability under global change. He has authored over 200 peer-reviewed publications (H-index: 44), serves as Editor-in-Chief of *Marine Geology* (Elsevier), and is the 2023 laureate of the Grand Prix des Sciences de la Mer Albert II of the Principality of Monaco.