

This is a journey in complex systems. Starting with a tube made of a "virtual material", and applying a set of couples of operators - cut/paste, fold/unfold, pierce/patch - at each clock tic, systems more and more complex appear at each generation.

The research has the ambition to model such innovative shapes generation and try to provide a new look into the complex systems generation from simpler shapes, using simple operators.

The research is pursued within the Institute of Applied Mathematics of the Université Catholique de l'Ouest, the POLIS initiative.