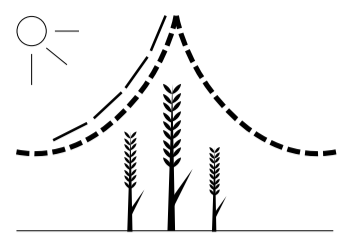


# 01\_A - GRID

Agrivoltaics and landscape



Agrivoltaics for Noah's ark

Fabiano Spano architect

The **Grid model** derives from the agricultural context. The land grid is made of lines and shapes.

The patterns of shapes are defined by the alternation of different agricultural fields, forests, ecological systems.

Ecological infrastructure developed along the borders of those shapes enhance them and define an alternation of "green rooms". The point of view at ground level is short and the natural border creates a green stage.

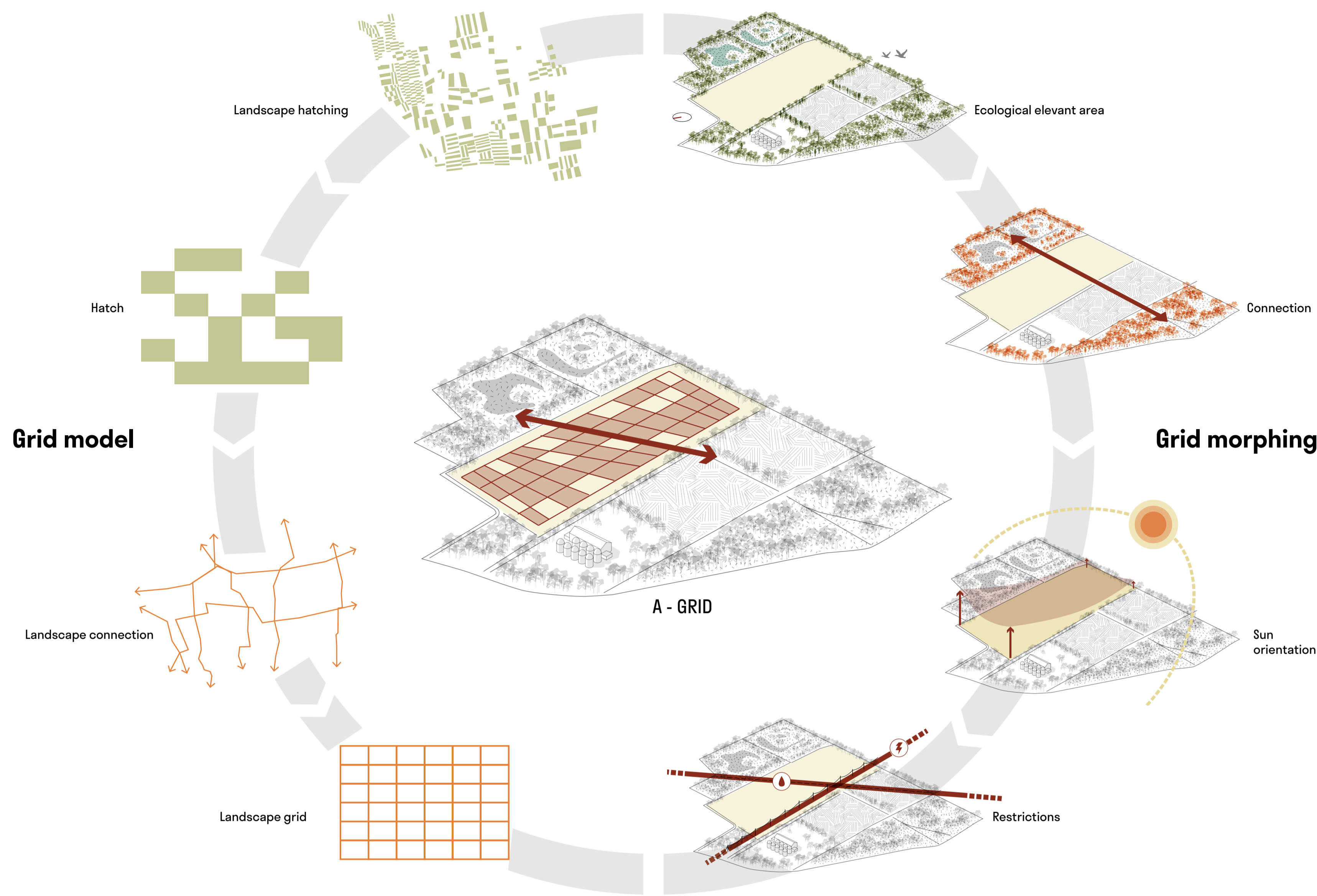
The lines are the result of historical signs layering (Centuriazione Longobarda), roads and water infrastructures. Those lines give direction and modifies the agricultural pattern. In our Grid model we scaled down the territorial grid into the project area. In this way there's a continuity of shapes and lines from the plot to the territory.

The average size of the cell of the grid (called Module) is 17 x 37,5 m and is determined by the optimization of the agricultural operations on the soil and by the admissible span of the structural system. The grid has 19 x 4 modules.

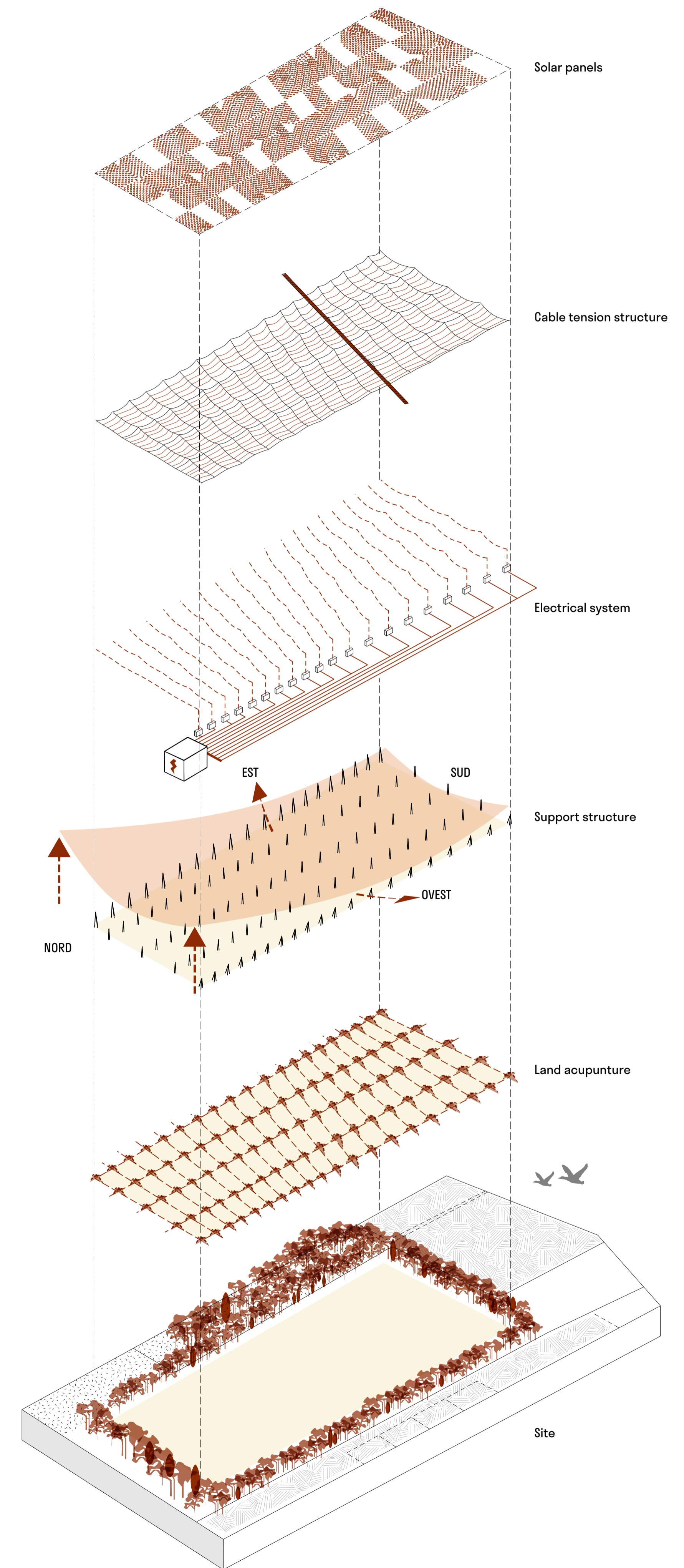
The **Grid is morphed** according to those rules:

1. boundaries of the pipeline and electric line
2. Solar exposure optimization
3. Connection of relevant natural areas in the surrounding, through the design plot

Those rules determined modifications in the regular grid and integrates better the design of the system in the context.



## System components



Below the canopy