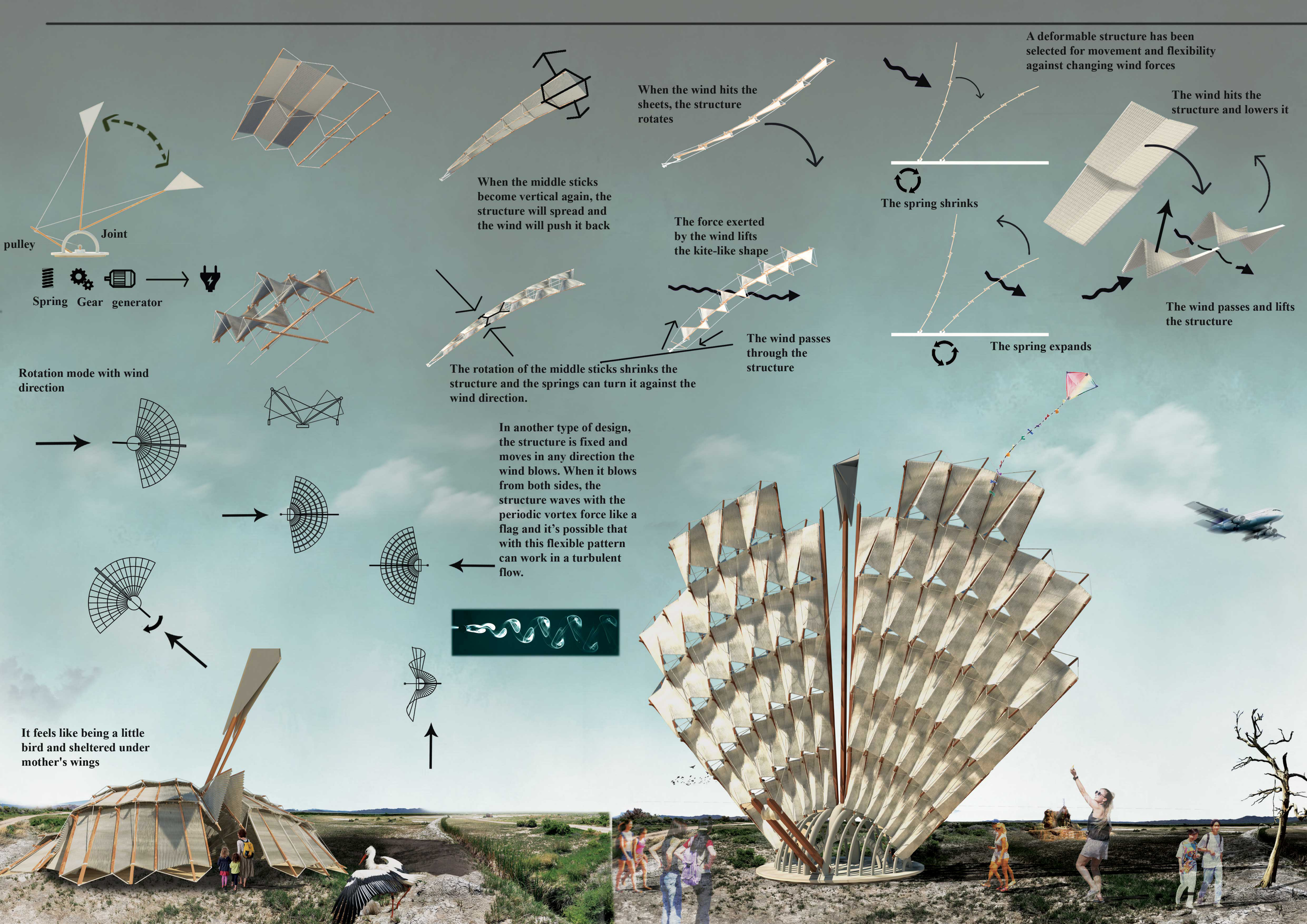
pulley
Joint
Spring
Gear
generator
When the middle sticks become vertical again, the structure will spread and the wind will push it back
When the wind hits the sheets, the structure rotates
A deformable structure has been selected for movement and flexibility against changing wind forces
The spring shrinks
The wind hits the structure and lowers it
The force exerted by the wind lifts the kite-like shape
The wind passes through the structure
The rotation of the middle sticks shrinks the structure and the springs can turn it against the wind direction.
The wind passes and lifts the structure
The spring expands
Rotation mode with wind direction
In another type of design, the structure is fixed and moves in any direction the wind blows. When it blows from both sides, the structure waves with the periodic vortex force like a flag and it's possible that with this flexible pattern can work in a turbulent flow.
It feels like being a little bird and sheltered under mother's wings