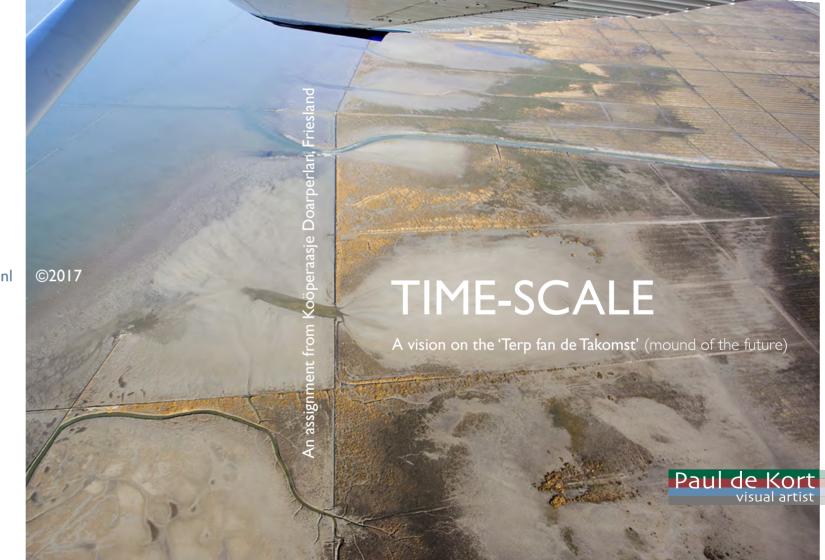
www.pauldekort.nl info@pauldekort.nl

Advice; PARKLAAN Landscape Architects, www.parklaan.nl STROMING Bureau for nature and landscape development, www.stroming.nl





The Frisian landscape with salt marshes and mounds ca 500 AD. The Noorderleeg land reclamation area outside the dikes is projected over the former landscape.

#### Reason

Mounds (terpen) are important appearances in the Frisian landscape. They appeal to the imagination when it comes to history, they raise questions when it comes to archaeology, they appeal to the imagination and offer opportunities for art and culture, but above all they can inspire future (landscape) developments.

The village of Blije, in the far north of Friesland, feels a strong connection with the Wadden Sea. In her village vision "Blier Blije" the inhabitants express the wish to live, live and work more facing the Wadden Sea. For a long time villagers have dreamed of developing the 'Terp fan de Takomst' in the tidal marsh landscape Noorderleeg outside the dikes, with the aim of imagining, researching, teaching, learning, historicizing, enjoying in silence...

# The assignment:

Give meaning and form to the 'Terp fan de Takomst'.

The design should contribute to

- the experience of nature and landscape and the cultural-historical values of the Wadden Sea landscape outside the dikes
- the core qualities of the mudflats such as; dynamism, silence, darkness, peace and vastness
- the awareness of water safety in the past and in the future
- the concretisation of the concept of cultural landscape development
- experiment, research, science and art.

A project group has been set up in which Dorpsbelang Blije, It Fryske Gea, the Terpencentrum (RUG), Sense of Place and the Koöperaasje DoarpenLân are represented.

"A dyke says: I'm shutting out the sea, a mound says: I have to take the sea seriously, but I'm also taking advantage of it."

(Mans Schepers, RUG Terpencentrum)

"Building mounds today is considered primitive; something our ancestors did because they didn't know they could build dikes. But we still build on mounds, sustainably protected, safer than behind dikes, especially in a landscape where the ground is falling and the sea level is rising".

(from; 'Het Vroege Vogelspad' / 'Ontdek de nulmeterlijn', Alphons van Winden, Stroming.nl)

Should we perhaps ask ourselves whether we can sustain our 'inner dike' landscape, as we have built it up over the past millennium, even longer in the face of climate change, rising sea levels and subsidence? Shouldn't we one day return to the path we took 10 centuries ago, excavate the dikes again and regard the inner dike landscape as an unsustainable situation? Should we prepare ourselves for completely new ways of living, living and working in our landscape that is largely below sea level; more climate-adapted, more sustainable? What could such a landscape look like, do we have images of it? On closer inspection, what can we learn from the salt marsh and mound landscape and its inhabitants of yesteryear?

## Climate change;

In the Paris Climate Agreement it was agreed that a new international climate institute should be established, based in the Netherlands. This institute will help countries and organisations to adapt to the consequences of climate change. Apparently, the Netherlands is being taken seriously in this area internationally. The Water Cycle Laboratory, 'Room for the River', the Meuse plains, the 'Sand Motor'..., a testing ground for a future climate adaptive salt marsh and mound landscape, would certainly not be out of place in this list.





### Scale variance

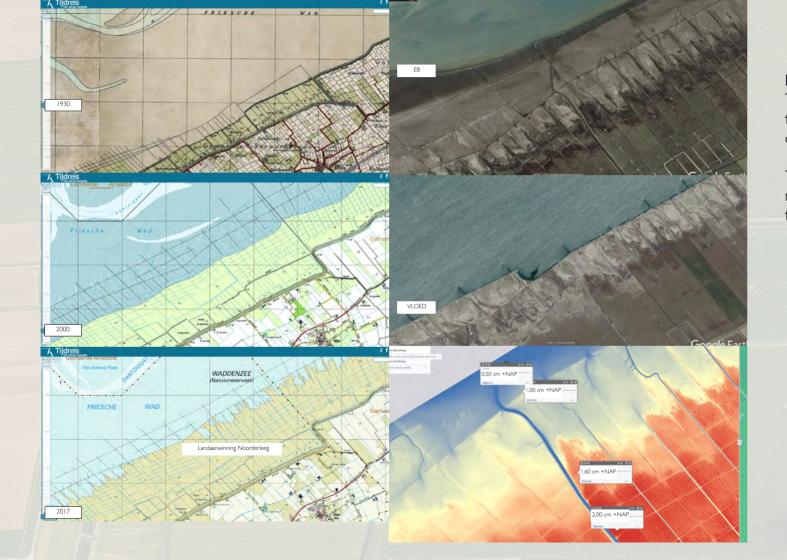
Climatological fluctuations and the geological changes that result from them are manifested on a space and time scale far beyond our direct observation. In scientific models we make use of variables in these scales, so that the gradual developments and changes can be made visible and experienced.

Patterns that arise under the influence of 'morphodynamics' (erosive forces due to transport and deposition of sediment under the influence of water currents and waves) are almost identical to the patterns on a scale of hundreds to thousands of kilometres on the one-metre scale. We call this phenomenon 'scale variance'.

In the land reclamation area Noorderleeg, the laws of scale variance apply in optima forma. Sliding and slipping over the silt layers we see directly under our feet the small accumulations of sediment, drought cracks in the clay layers, erosion traces of gullies and swallows. Morphodynamic processes that occur within time frames of days to just a few weeks and in the meantime leave behind beautiful miniature salt marsh landscapes. In miniature these landscapes are hardly distinguishable from the estuaries and river deltas with the size of a continent and seen from an airplane or photographed from the space shuttle.

With a little imagination, the creeks and gulleys are immense estuaries and river deltas in timescales that stretch over many centuries and millennia. Every every creek a majestic river, every tide is a climatic sea level rise and every winter is an ice age.

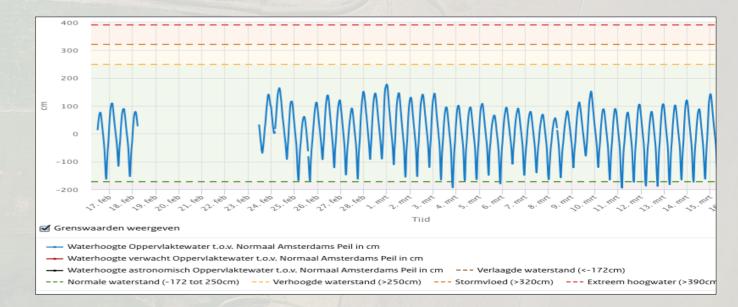
Noorderleeg is the ideal location for TIME-SCALE, a research and observation laboratory where possibilities and opportunities for a future, sustainable and climate-adaptive salt marsh and mound landscape can be researched and explored, for learning and entertainment.

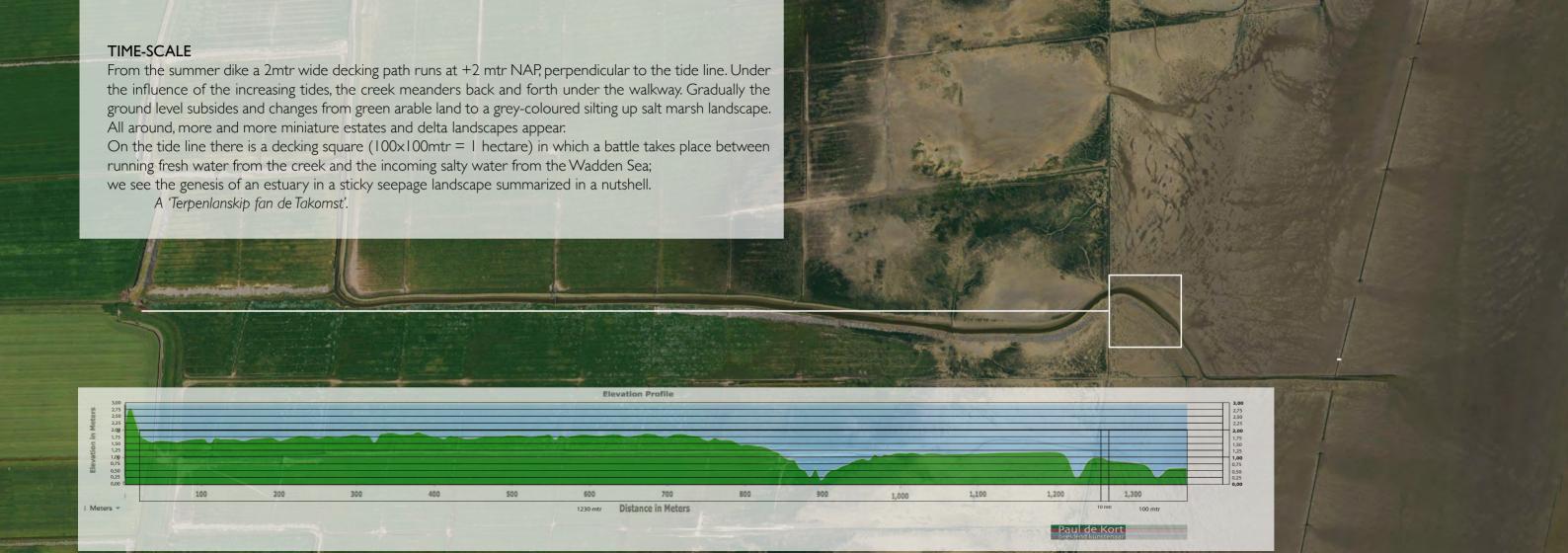


# Dynamics in Noorderleeg

The average tide at Noorderleeg is 1.5 metres and fluctuates roughly between +0.50 NAP to +1.50 NAP at high tide and -1.25 NAP to -2.00 NAP at low tide. The tide line moves each tidal stroke in the horizontal plane over a distance of 500 to 800 metres. The seawater deposits approximately 1 cm of sediment per year.

The search location for the 'Terp fan de Takomst' is located between the summer dike and the Vloedlijn, in a strip of more than I kilometre parallel to the creek. The optimal location for our scale model is at the tide line, where the fresh water from the creek meets the salty water of the Wadden Sea in a miniature salt marsh landscape.







### Collaboration

TIME-SCALE will develop in close cooperation with Dorpsbelang Blije, It Fryske Gea, Terpencentrum (RUG), Sense of Place and Koöperaasje DoarpenLân.

In order to bring the vision behind TIME-SCALE to a solid and supported design, I want to put together a multidisciplinary design team. Besides myself as a landscape artist, this team will consist of landscape architect Marcel Eekhout, working at PARKLAAN Landscape Architects and landscape ecologist Alphons van Winden, working at STROMING Bureau for Nature and Landscape Development.

In working through this vision, we are conducting research into -area-specific- interventions to stimulate, steer and shape marshland formation, sedimentation and vegetation development.

In a more playful and educational way, we show how we have been building our landscape, both traditionally and in the future, in cooperation with nature; 'Building with Nature'.



