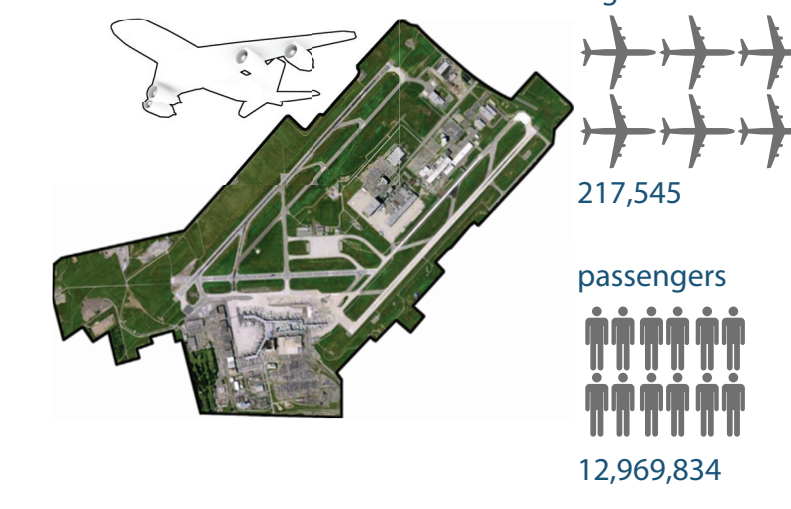


s y n c h r o n o u s infrastructure

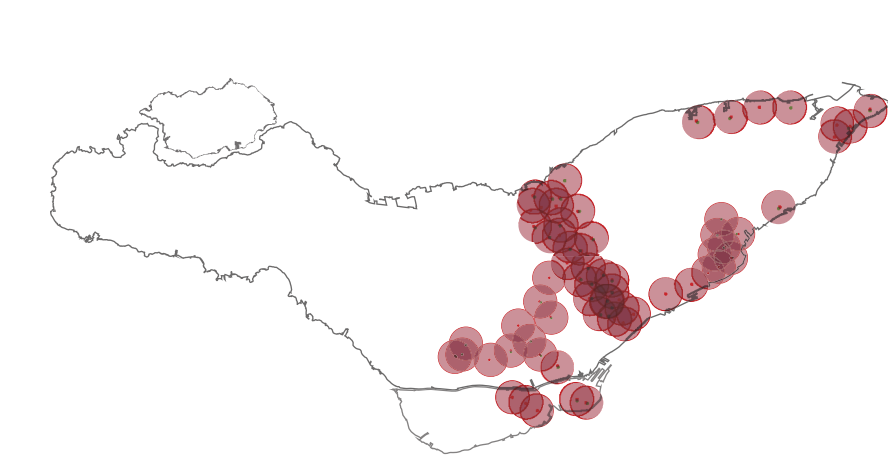
01

Information

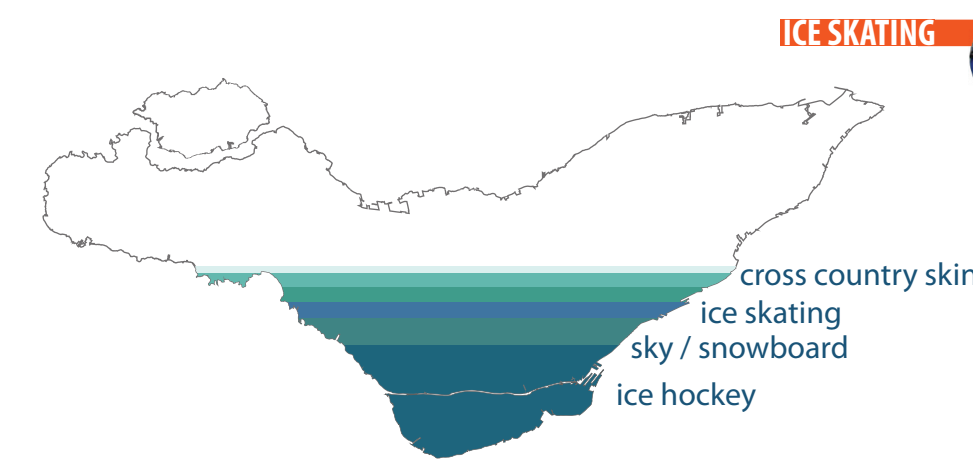
Montreal Airport



winter sports facilities with 1km radius circle



Canadian's outdoor winter sports



Code

- code A existing bike path
- code B proposed bike path
- code C proposed winter sports path
- code D railway (CPR)
- code E railway (CN)
- code F highway

Issues

heavy traffic
quality of built environment
representation of city images
connection between the railway station
local path & bicycle path

housing quality
underprivileged population
social problems
North-South connectivities
unstructured environment

interfaces and connectivity
integration of sound barriers
requalification of industrial zones
enhancement of the Lachine Canal

underprivileged population
social problems
housing quality
soil contamination
lack of green spaces

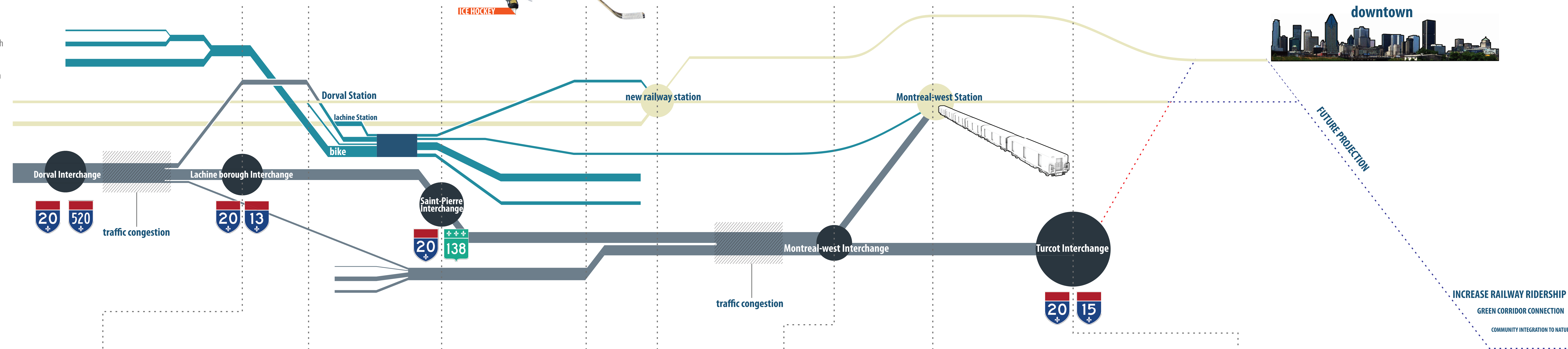
safety of living spaces
accessibility & connectivity
quality of built environment
consolidation of commercial
heat island

quality of the natural habitat
enhancement of the escarpment within the Turcot Project
nuisances generated by urban activities
safety of living spaces
accessibility and connectivity
aesthetics and quality of built environment
interface with Saint-Jacques Escarpment
quality of public facilities
soil contamination
quality of the built environmen

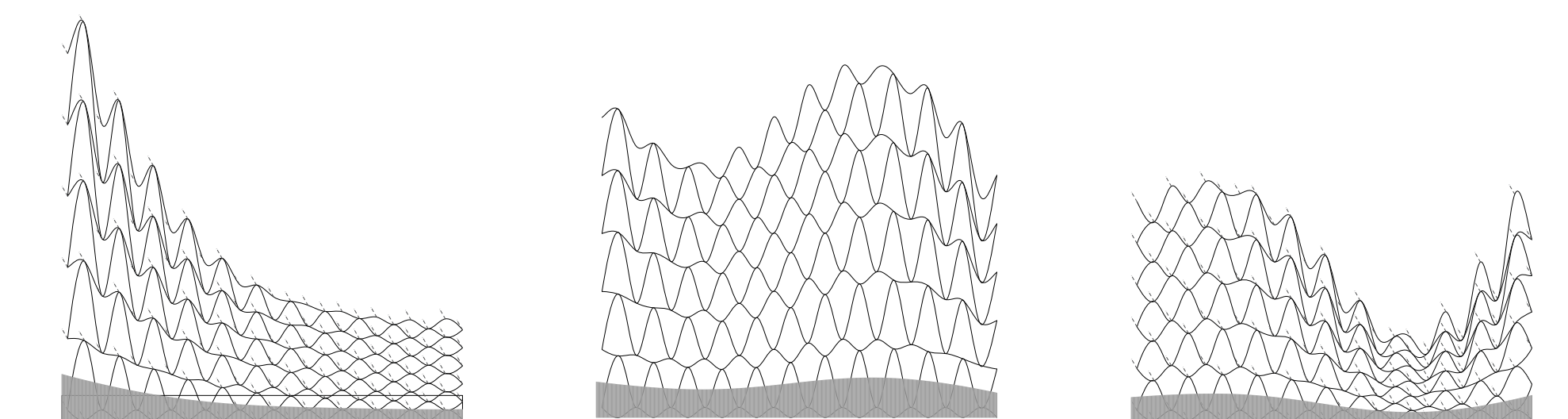
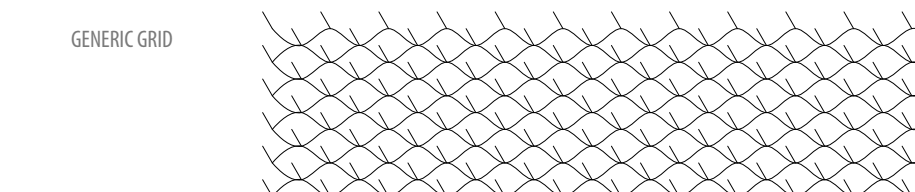
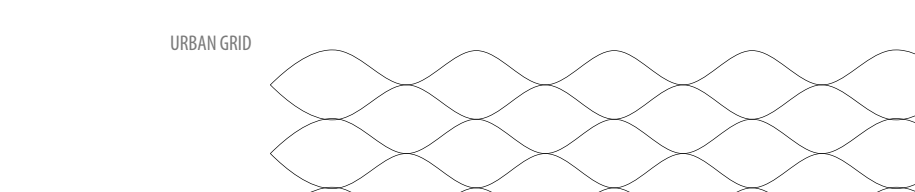
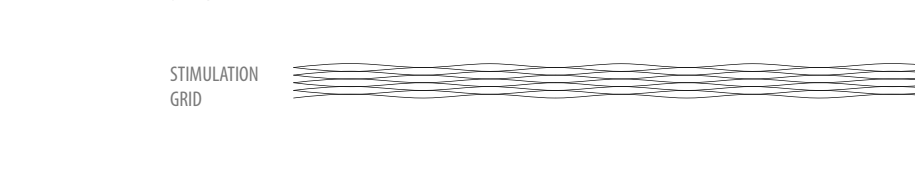
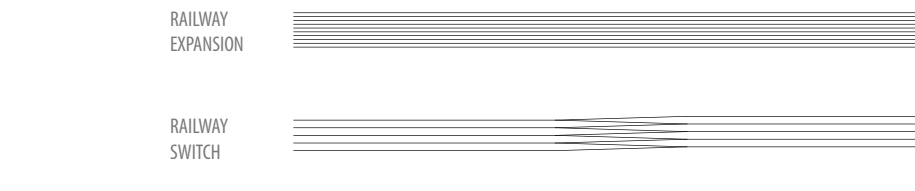
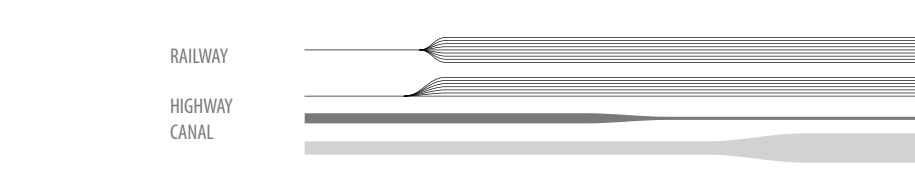
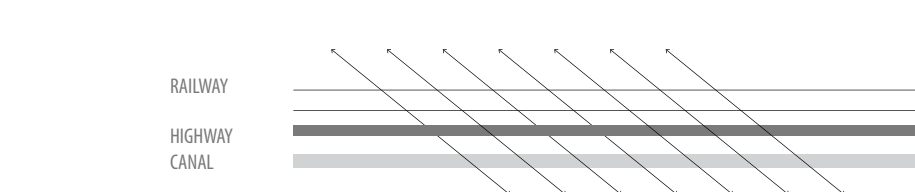
quality of the structures
interfaces between the interchange and the surrounding area
destructuring of surrounding areas
transit efficiency
vegetation of residual zones

Through the evaluation of variable systems, Synchronous Infrastructure relates a crossing over of multiple program elements. Looking at transportation infrastructure such as the existing highway and railways, potential intersections are evaluated. A grid is established by the needed connections for movement, neighborhood and habitat. It is a grid that is flexible- based on parametric input of activity or flux of land development throughout the site. By crossing rail and highway infrastructure through this new grid, connective nodes are established to develop a flow for riders. These intersections are multilateral in forming the additional pathways for bicyclists, pedestrians and the seasonal athletes during the winter. In turn wildlife, landscape and people can interact alongside a busy thoroughfare that connects the Montreal-Tradeau International to the downtown area. Terrain and neighborhood development are established with the infrastructural grid.

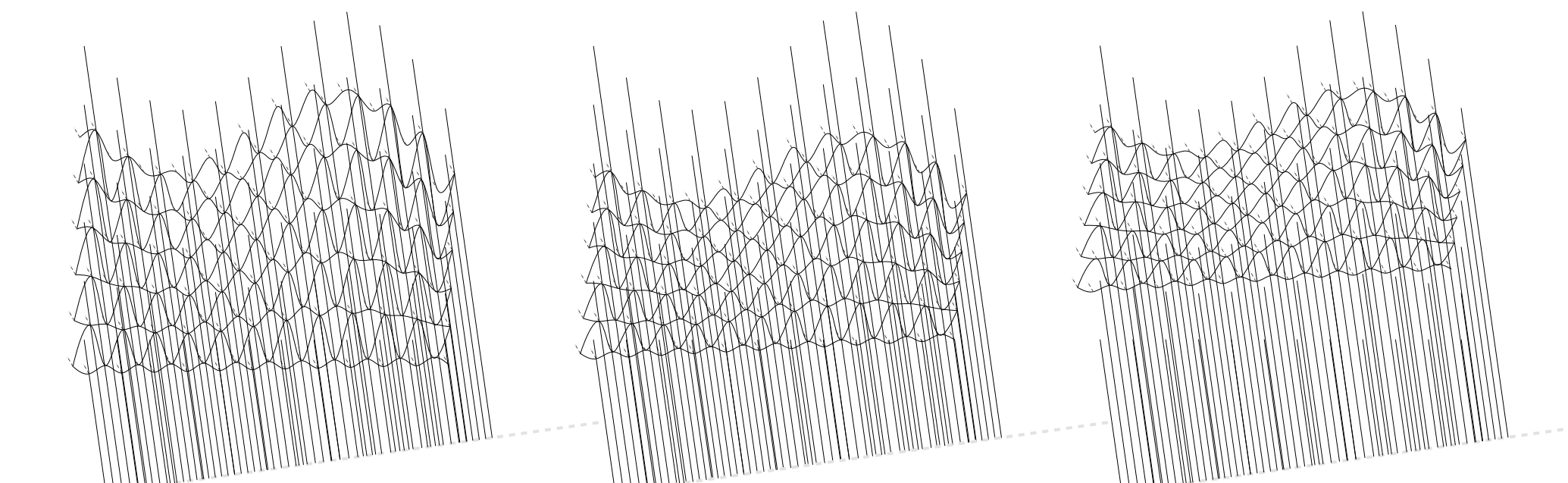
Aside from the highway performing its intended function of shuttling cars and trucks, the multifunctional variations of Synchronous Infrastructure has the potential to be a catalyst for urban revitalization. Through the creation of open-space augmentation, habitat creation, community revitalization and the transforming of urban blight into urban destination the highway is the structure for supporting ecological development.



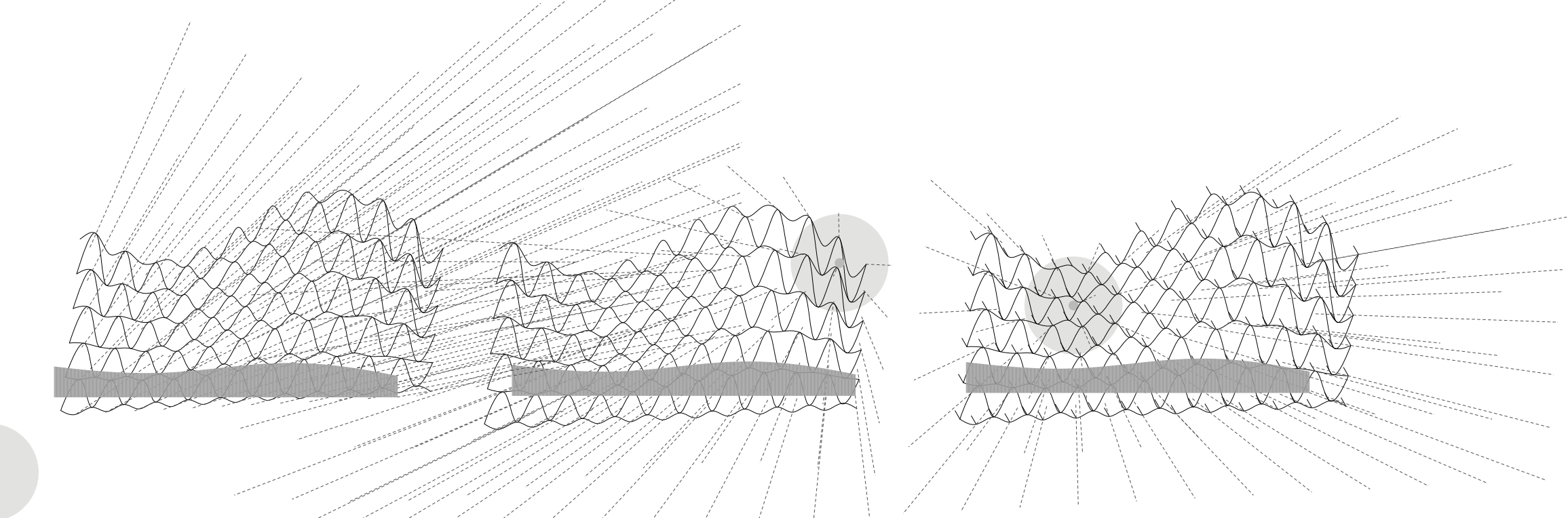
STRATEGY



VARIABLE 01 NOISE



VARIABLE 02 APPROXIMITY TO CANAL



VARIABLE 03 APPROXIMITY TO ATTRACTION