a MACHINE is a WETLAND for PARKING in

1 sensor linking intelligent building to stream detects cue (movement, temperature, other)
2 building shares information with others
3 ensemble of buildings reacts (releases treated water, other)

Individual architectural interventions as intelligent systems communicate with one another to deliver coordinated benefits to the metropolitan environment at the landscape-scale

Architectures of adaptive response emphasize stellar performance at the project scale as well as direct, positive benefit to the ‘parent’ environmental systems within which developments participate in an ‘intelligent’ and temporally attuned manner. An adaptive design approach involves interpreting the position of the site within its context, understanding systemic needs, and using this information to develop a project that improves ecological and hydrological conditions.

This research based studio focuses on design of a parking garage as a model for configuring the built environment at the site-scale to manipulate stormwater flow as a beneficial resource for urban wetland complexes at the landscape scale. As we hope to demonstrate, even building types that have significant impacts on environmental quality under ordinary circumstances can, if approached as adaptive interventions, contribute to larger urban watershed function and livability.