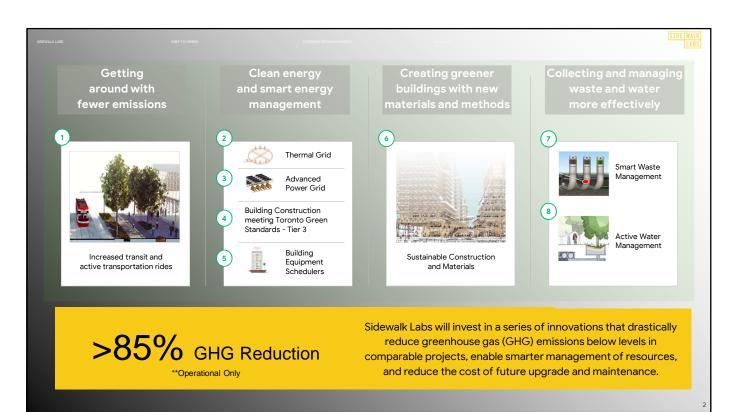




Mark Luckhardt Associate Director of Infrastructure

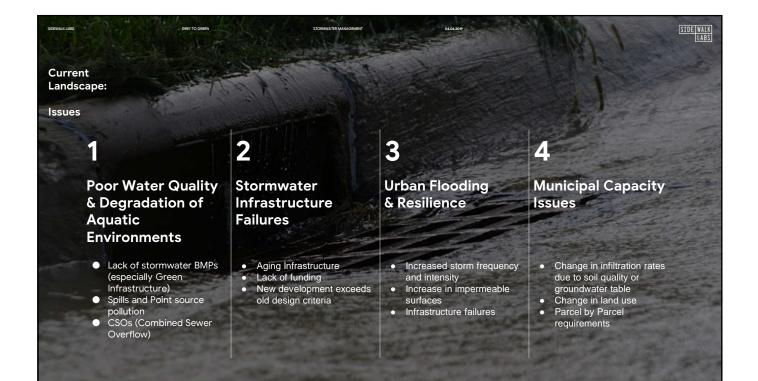


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## Is this damage value in Toronto alone? \_Assigned to Emily Kildow\_ Mark Luckhardt, 5/30/19

SIDE WALK

Our Approach

## We will design with nature instead of thinking we can entirely control it



SIDE WALK Green stormwater Our provides a place for water to go during storms while acting as a natural filter Approach: infrastructure Components **District-level** to exceed current Toronto Green Standard retention requirements for SWM system added resiliency Soil volume >40% exceeding City of Toronto target and Green Streets Guidelines **Green roofs** (for water retention/detention) under and blue roof solar PV on terraces and podium rooftops become distributed resources Permeable and heated pavers for natural retention, filtration, and to eliminate salt runoff into the lake **Active stormwater** and ecological systems could cut () • downstream energy costs by >50% and cut the water moving to municipal management systems by 90%

