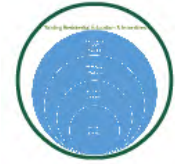
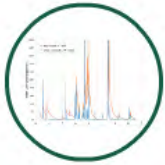
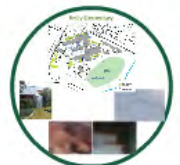


The problem (s)



How do we implement it?



The solution?

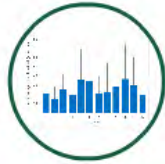
[illegible]

A watershed scale pilot

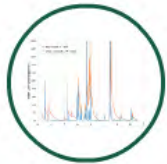


what we learned

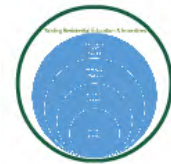
- hydrology shifts proportional to density of treatments
- hydrological change takes place even though transportation was not included in the modeling
- potential reduction in -29% effective IC



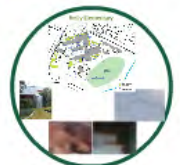
The problem (s)



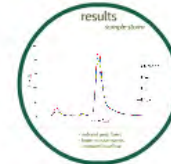
Urban Hydrology Restoration

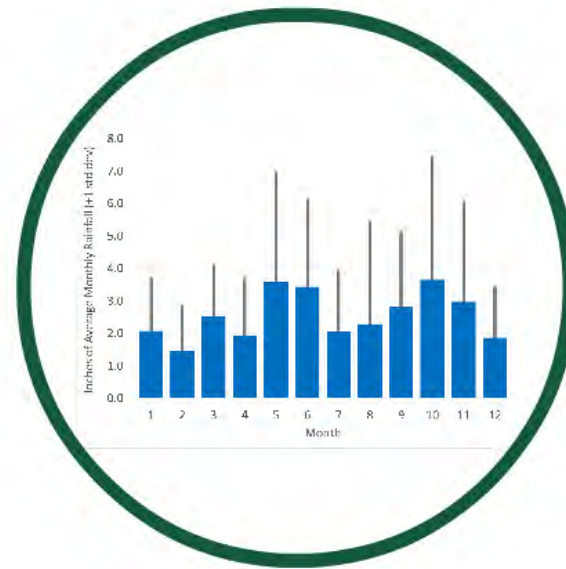
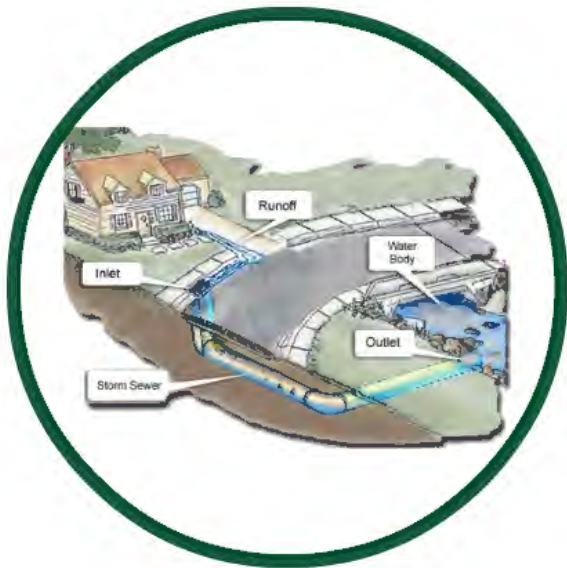


How do we implement it?

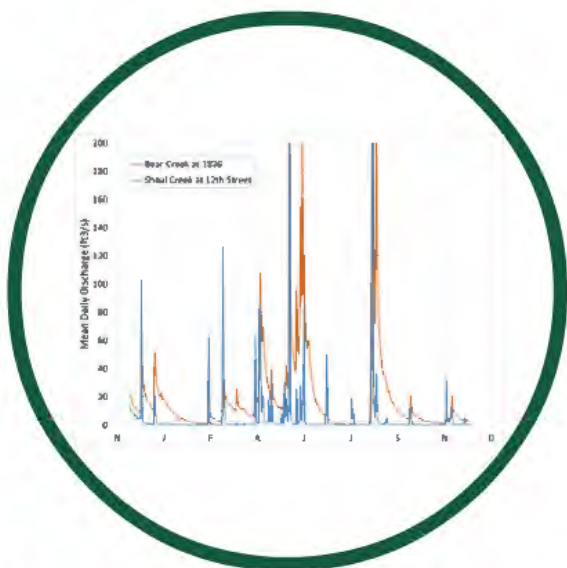


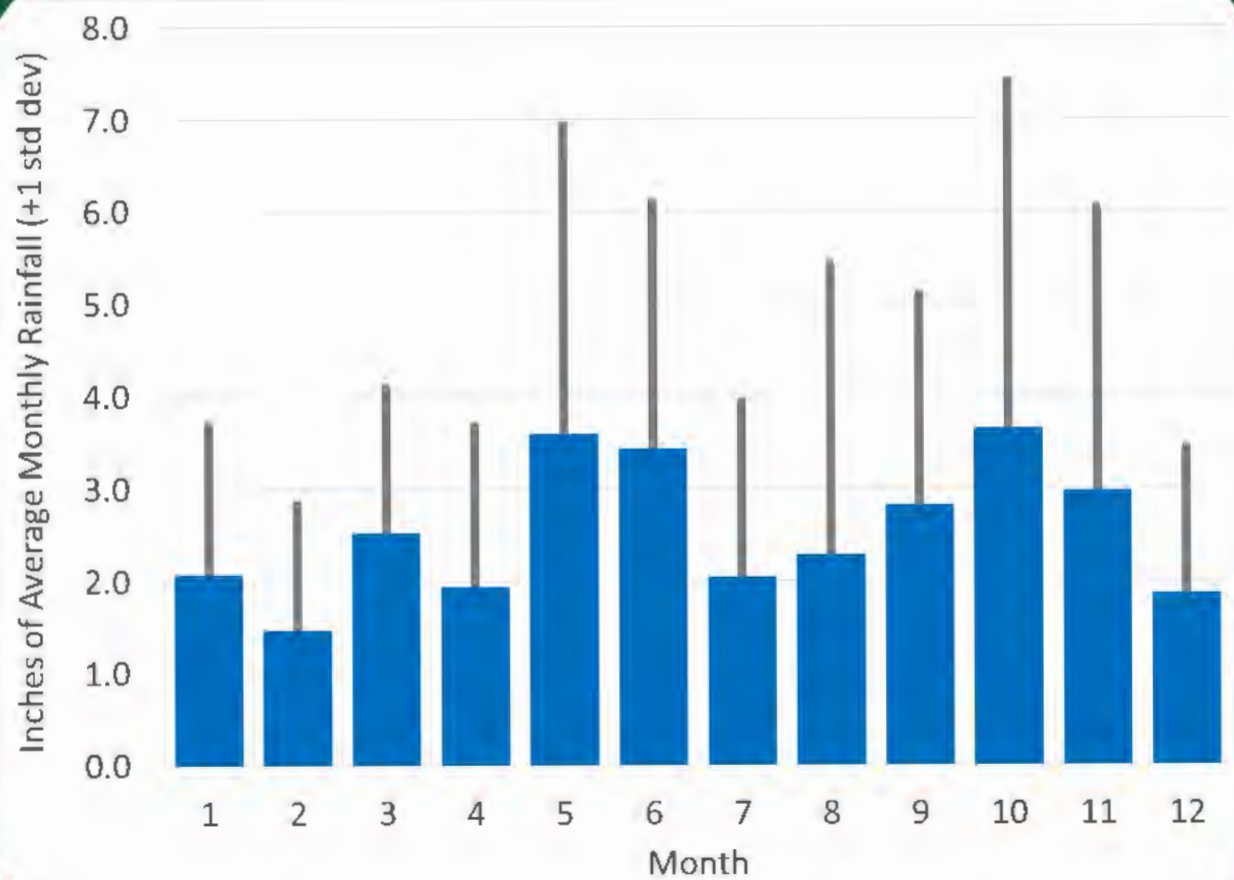
A watershed scale pilot

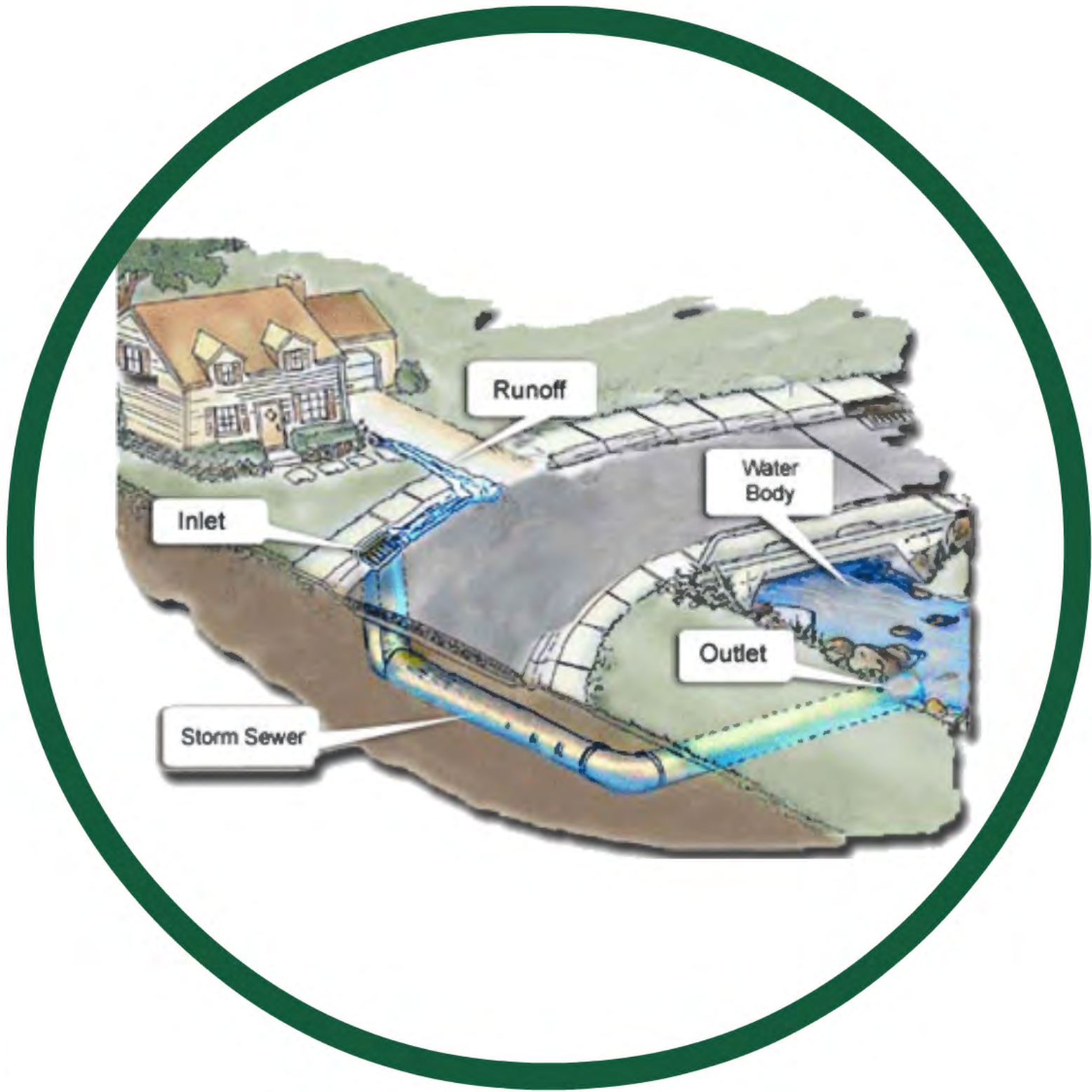


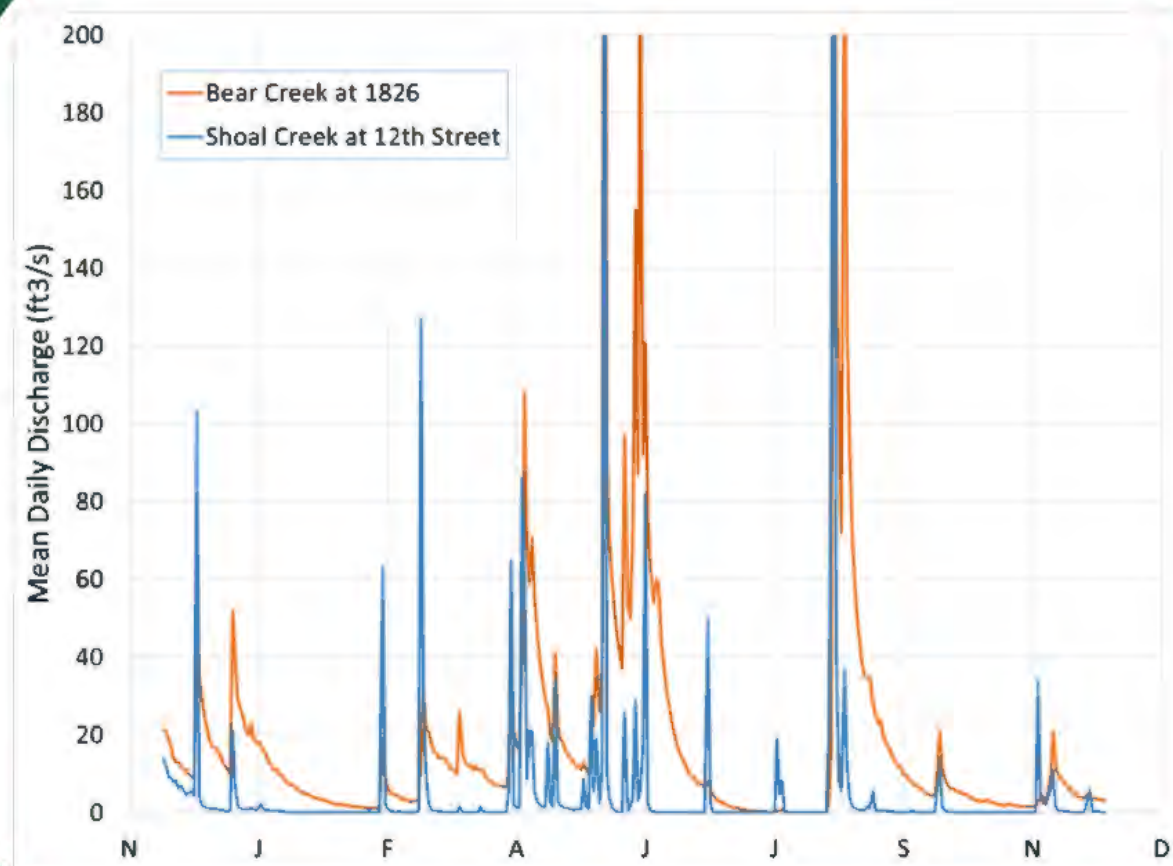


The problem (s)



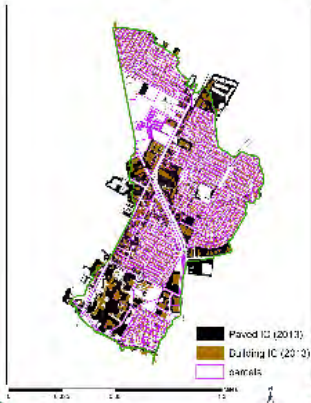






29%

massively distributed
public and private land



Storage
regional or decentralized?



potential benefits
when rain is a resource

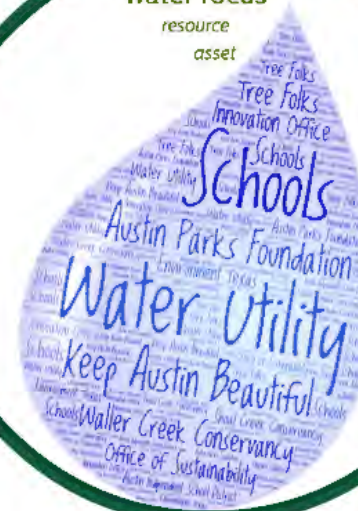
hydrological rehabilitation
 reduced pollutant loading
 localized drainage solutions
 potable water saving
 increased resiliency to drought in upland areas
 improved tree establishment and tree health
 increased evapotranspiration and heat island mitigation
 potential green jobs

The solution?

addressing the cause



water focus
resource
asset

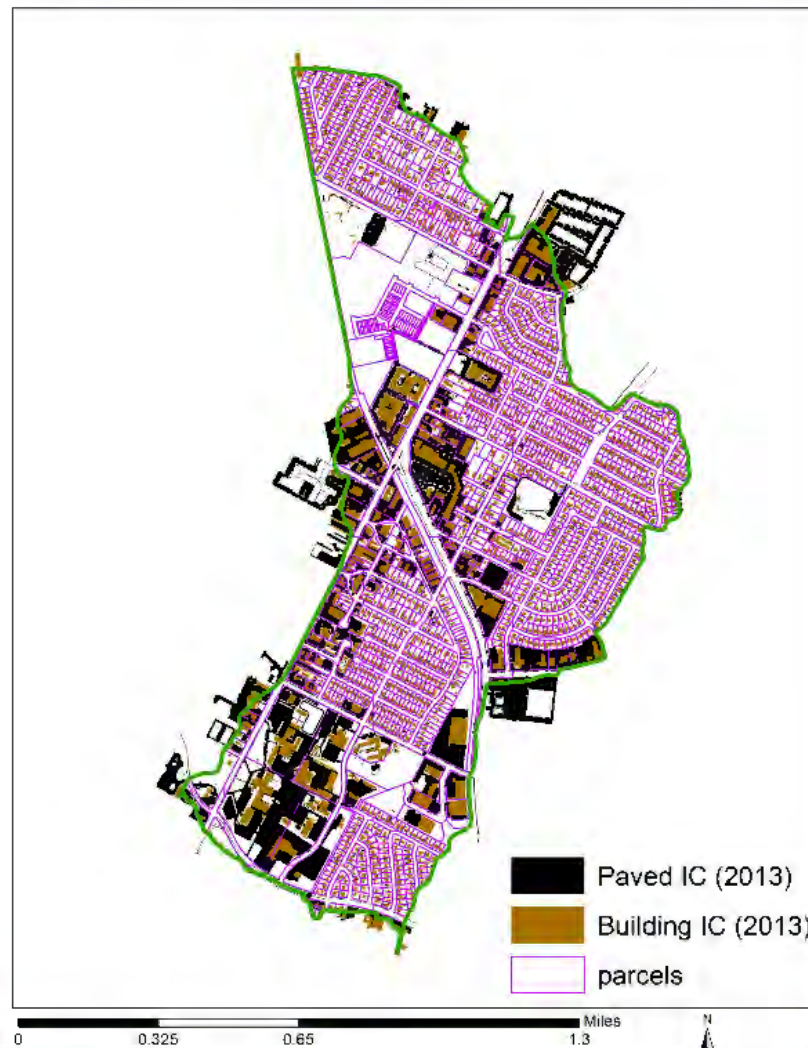


Storage

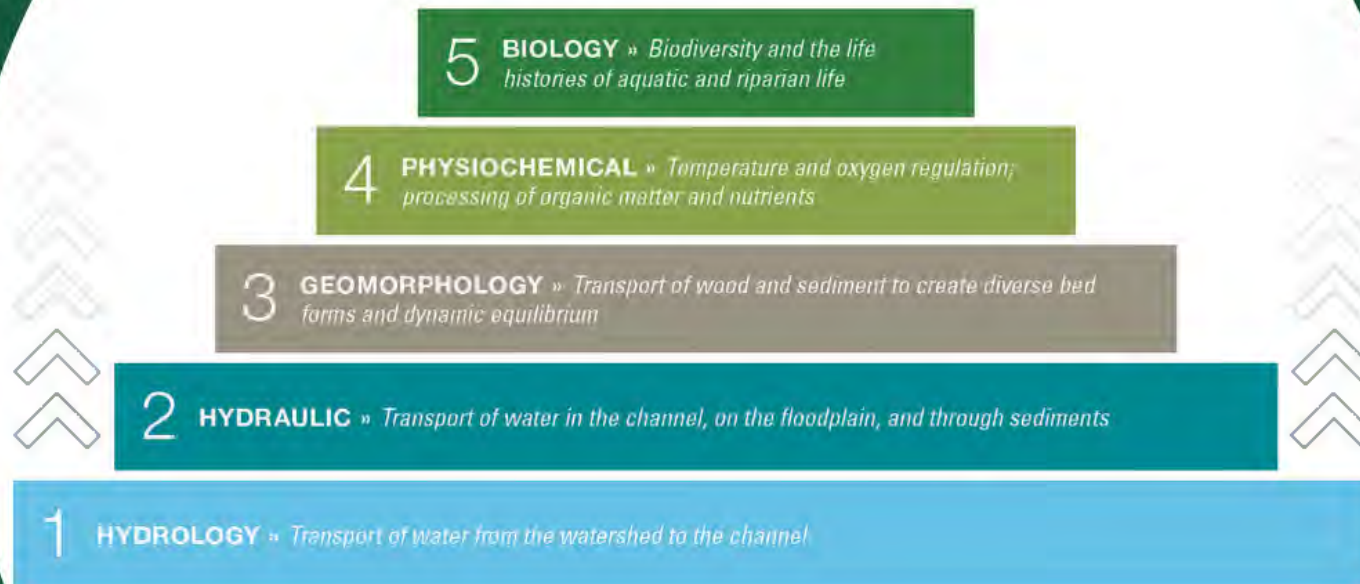
regional or decentralized?



massively distributed
public and private land



addressing the cause



water focus

resource

asset

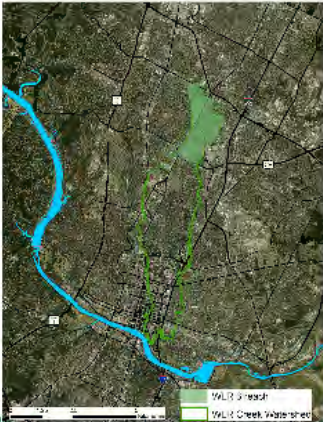


potential benefits

when rain is a resource

- hydrological rehabilitation
- reduced pollutant loading
- localized drainage solutions
- potable water saving
- increased resiliency to drought in upland areas
- improved tree establishment and tree health
- increased evapotranspiration and heat island mitigation
- potential green jobs

testing an alternative service delivery model



fully urbanized
small
baseline data

what we learned

- hydrology shifts proportional to density of treatments
- hydrological change takes place even though transportation was not included in the modeling
- potential reduction in ~25% effective IC

A watershed scale pilot

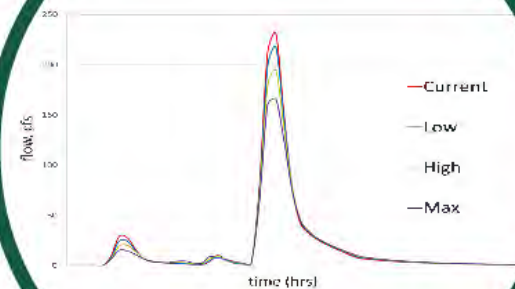
proof of concept modeling

can distributed stormwater controls create a departure in urban hydrology?

what reduction in effective impervious cover can be achieved?

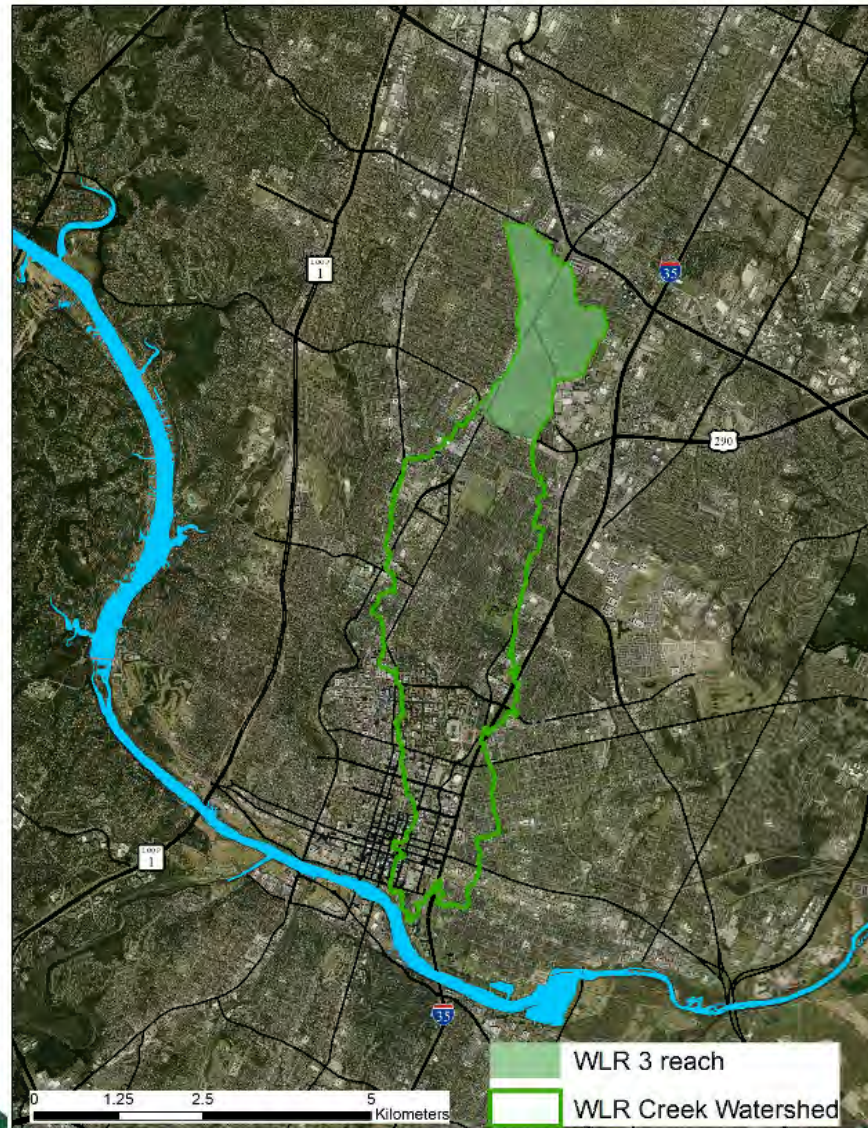
results

sample storm



- reduced peak flows
- fewer erosive events
- increased baseflow

testing an alternative service delivery model



fully urbanized
small
baseline data

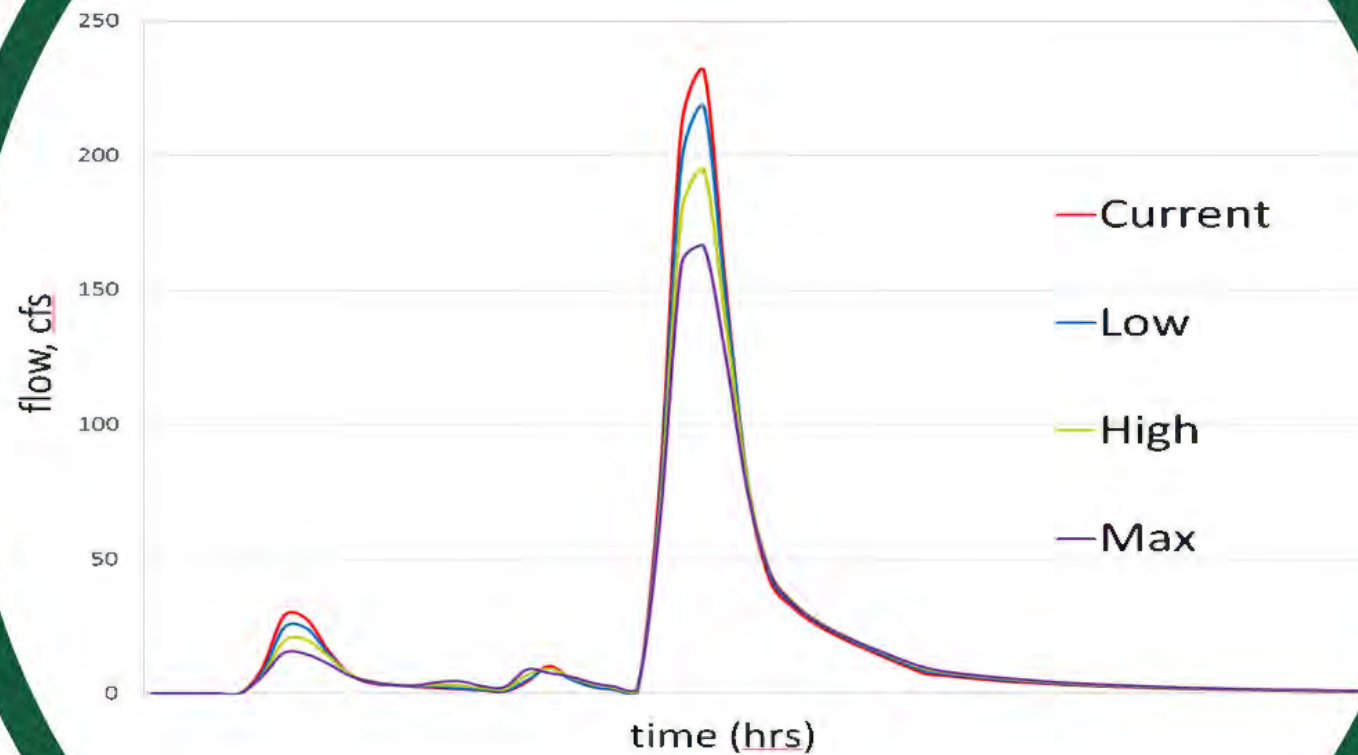
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results

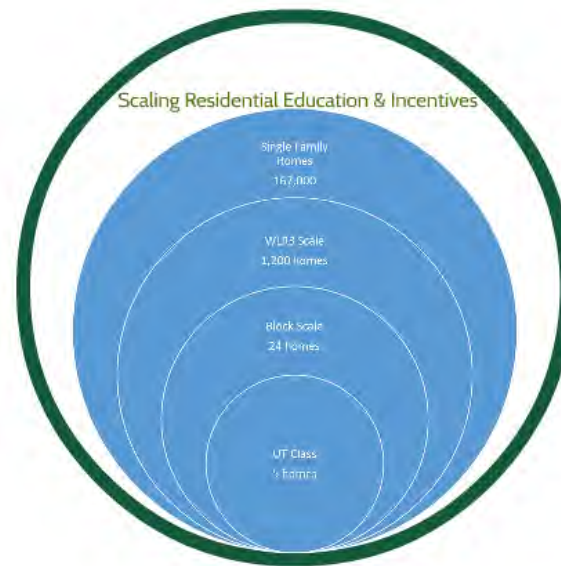
sample storm



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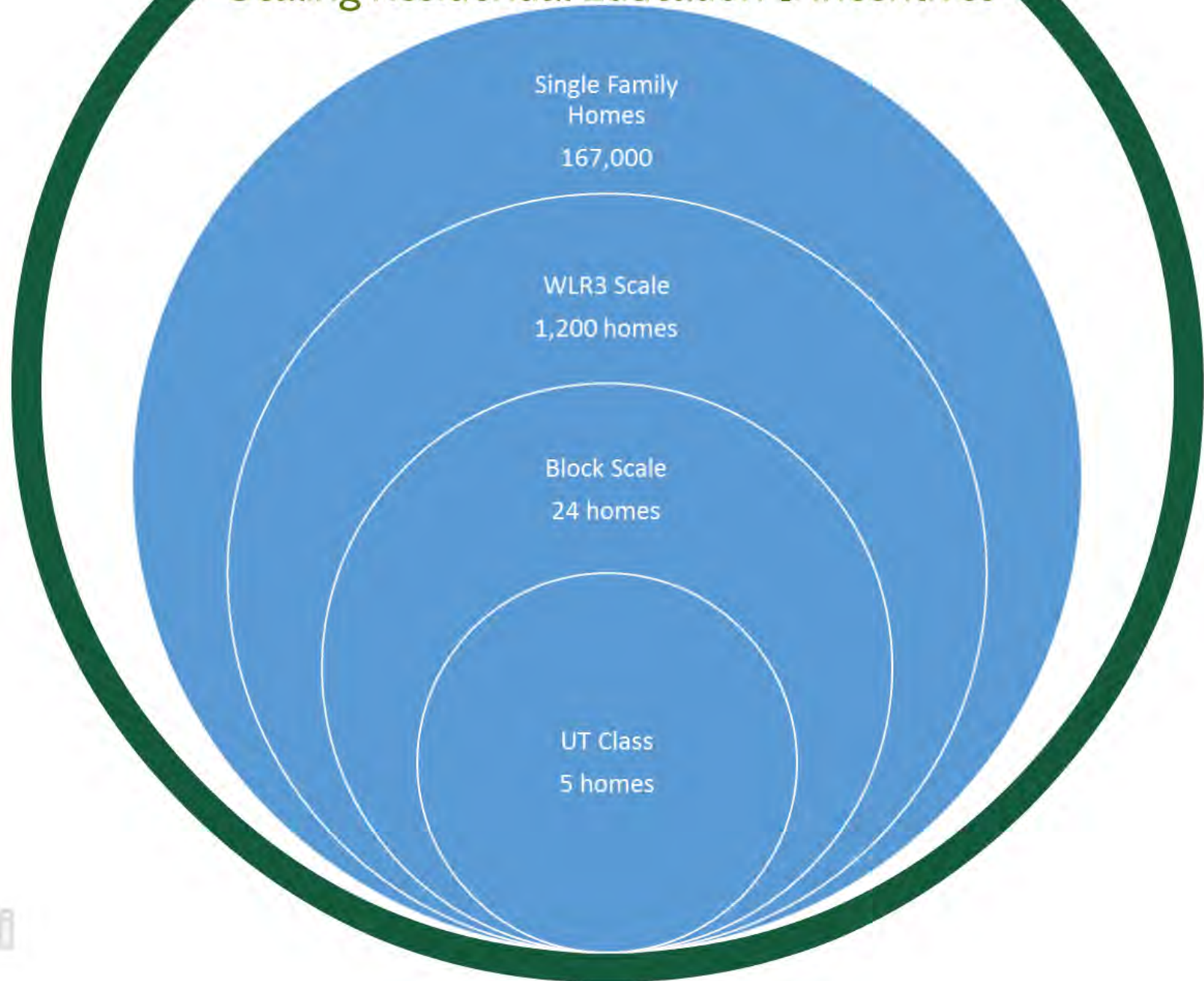
How do we implement it?

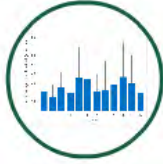




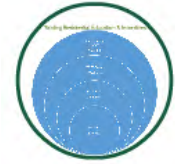
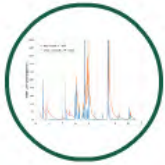
[illegible]

Scaling Residential Education & Incentives

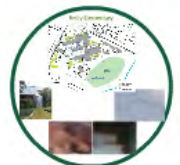




The problem (s)



How do we implement it?



The solution?



potential benefits

affordable & accessible

- enhancing the quality of an outdoor school setting
- increasing opportunities for outdoor learning
- increasing the number of schools and teachers using outdoor learning
- increasing the number of schools and teachers using outdoor learning
- increasing the number of schools and teachers using outdoor learning



A watershed scale pilot



what we learned

- hydrology shift is proportional to density of treatments
- hydrological change takes place even though transpiration was not included in the modeling
- potential reduction in ~29% effective ET