

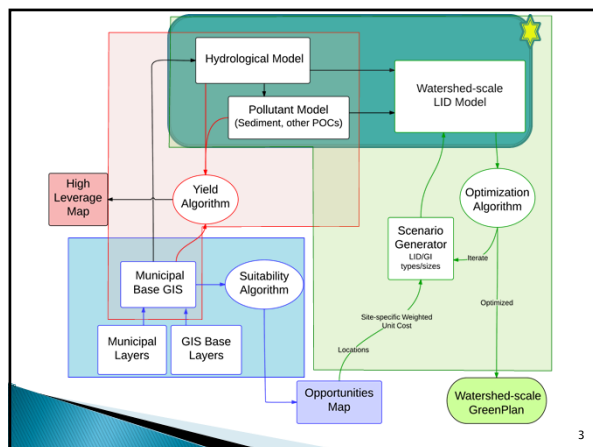
Questions for Discussion

Green PlanIT TAC Conference Call

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High Leverage Tool - Model calibration

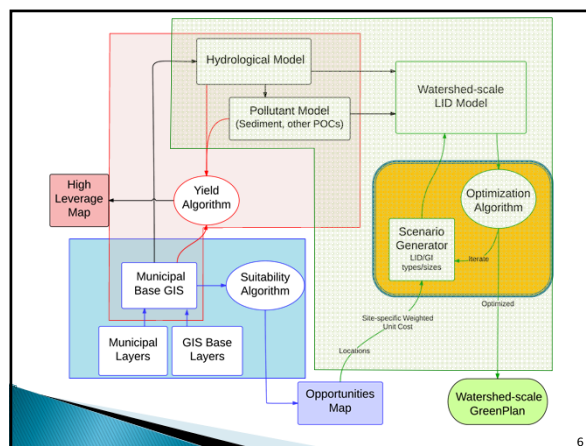


Modeling Tool Discussion



- Recommendation from TAC meeting
 - Further improve sediment calibration if possible
 - Success criterion: 70% of measured
- Proposed actions
 - Review recently identified additional SSC data in reservoir outfalls
 - Review WA SWMM model on sediment simulation
 - Further tweak model parameters
 - Check rating curves and possibly adjust
 - Adjust parameters in Buildup and Washoff functions

Optimization Tool to support Watershed Plans



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Optimization Tool Discussion



- Focus on three key decisions for tool development
 - Environmental goal
 - LID types
 - LID cost estimation

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Key Decision – Environmental goals



- What do we target?
 - Hydromodification – Flow volume or peak reduction?
 - WQ improvement – which POCs?
- What are the desired reduction goal?
 - Could test full range – 0% to 100%
 - Use a specific goal to constrain simulation

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Key Decision – LID types

- Five LID types in SWMM, which ones should be included for optimization?
 - Bioretention
 - Porous Pavement
 - Infiltration Trench
 - Rain Barrel
 - Vegetative Swale
- Grey Infrastructure(regional facility)
 - Should we consider?
 - What type? Enlarged bioretention with storage?

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Key Decision – LID cost

- Key to optimal solution
- Unit cost approach
 - Total cost (construction, design, O & M cost) vary by the number and type of LIDs
- How to derive a realistic cost function?
 - Local cost data for LIDs
 - Build some reality into cost function – use weighting factors to differ cost, i.e. inside Caltrain planning area
 - Other suggestions?

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