


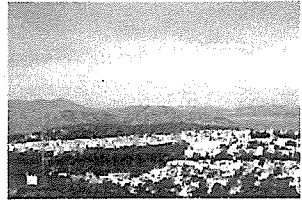

## Tree Risk Area Identification & Prioritization Project

December 2009





### Tree Risk Area Identification & Prioritization

- Park Bond Forestry program
- \$4 million to address tree hazards
- Address “those sites that pose the greatest risk to public safety or property.”

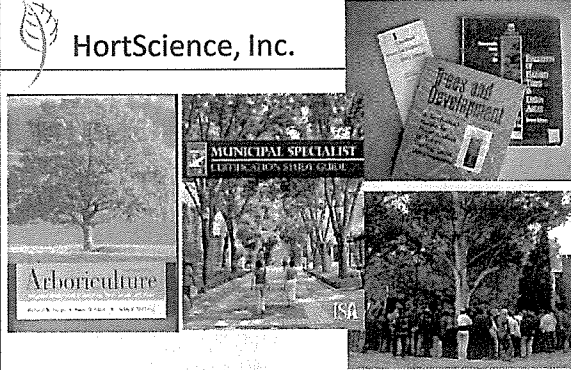




### HortScience, Inc.


- Arboriculture & Urban Forestry consulting
- Tree risk assessments
  - Presidio
  - EBRPD
  - Santa Monica
- Urban forest plans


### HortScience, Inc.

### Tree Risk Area Identification & Prioritization




- Why tree risk assessment?
  - Enhance public safety
  - Make effective use of resources
  - Enhance tree longevity
- 1<sup>st</sup> steps:
  - Prioritize need
  - Develop assessment methodology



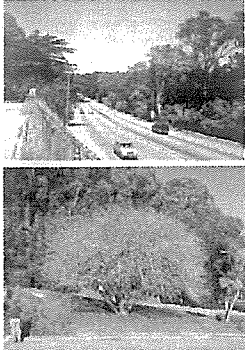
### Tree Risk Area Identification & Prioritization

- Over 200 properties
- Almost 3,000 acres
- Diverse facilities & activities



**Tree Risk Area Identification & Prioritization**

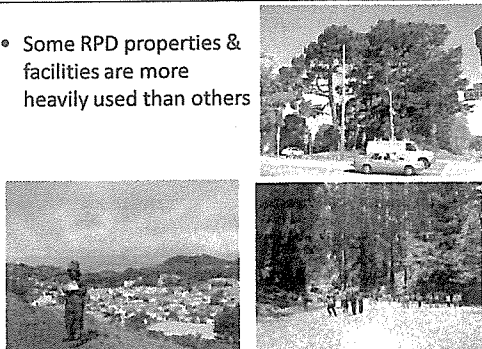
- Risk assessment systems
  - Target: site use & occupancy
  - Tree



The Presidio

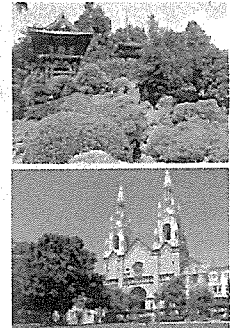
**Tree Risk Area Identification & Prioritization**

- Some RPD properties & facilities are more heavily used than others




**Tree Risk Area Identification & Prioritization**

- Facilities: use by people
  - Structures
  - Parking
  - Playgrounds
  - Gardens
  - Sports fields
  - Trails, paths, sidewalks
  - Picnic areas
  - Special events
- RPD identifies 53 distinct facility types



**Tree Risk Area Identification & Prioritization**

- Use varies widely... between & within RPD properties
- McCoppin Square
  - Day care facility
  - Library
  - Tennis
  - Sports field
  - Sidewalks / paths

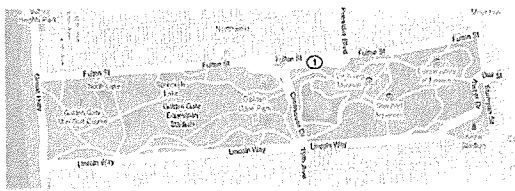



**Tree Risk Area Identification & Prioritization**

- Example of use....
  - Outside Lands concert
  - Stern Grove concerts
  - Summer festivals
  - Demonstrations
  - Sport events
- Events with >1000 participants (2008)

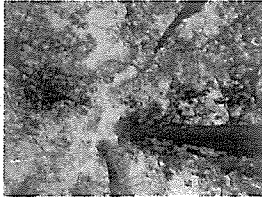
**Tree Risk Area Identification & Prioritization**


- Build a matrix describing the uses in each property.
- Consider range of use within large properties.




 **Tree Risk Area Identification & Prioritization**


- Possible sources of tree information...
  - Urban forestry work orders (TMA)
  - Tree-related claims
  - Prop C Park Evaluations
  - ParkScan / 311
  - % tree cover
  - California Tree Failure Report program
  - Site visits




 **Tree Risk Area Identification & Prioritization**


- Calif. Tree Failure Report Program
- Arborists provide information about tree failures
- Over 20 years, approximately 700 reports for SF RPD facilities




 **Tree Risk Area Identification & Prioritization**

- Apply bond funds to the properties / facilities with the greatest need
  - Where combination of tree & target present greatest risk
- Develop matrix reflecting tree & target considerations

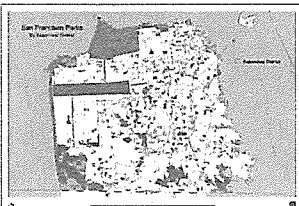





- Tree Management Plan
  - Analysis of RPD's urban forestry resources, challenges & future planning for urban forest management


 **Management Plan**

- Once priority matrix is developed, how does RPD implement recommendations?
- City-wide.... Not for individual parks




 **Management Plan: Possible topics**

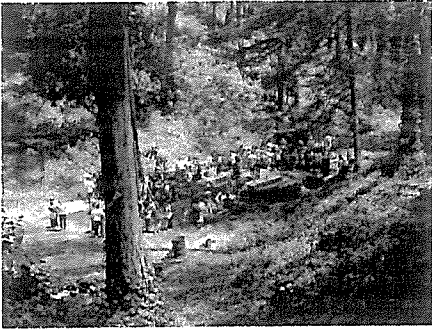
- Operational context
  - Programmed vs. reactive tree care
  - Current work load
- Risk management policy
- Guiding principles for tree care & reforestation


 Management Plan: Possible topics

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- Operational context
  - Programmed vs. reactive tree care
  - Current work load
- Risk management policy
- Guiding principles for tree care & reforestation
- Implementation of tree hazard prioritization
  - Assessment of individual properties
- Definition of terms
- Guiding documents
  - Golden Gate Park Forest Management Plan

 Questions, comments, feedback?







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