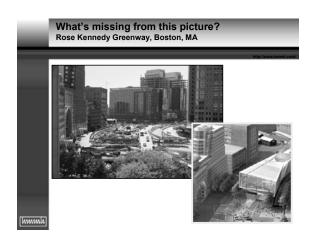
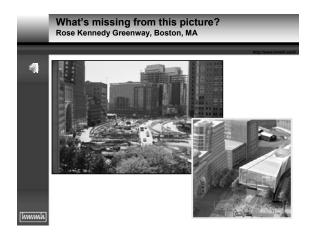
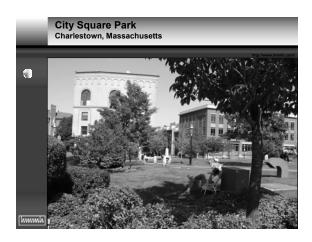
Soundscape Design for Urban Parks New Partners for Smart Growth Denver, Colorado January 2006 Douglas Barrett Harris Miller Miller & Hanson Inc.

1. What affects the visitors' experiences in every park but seldom is included in the planning process? 2. Why is this? 3. What can we do about it?



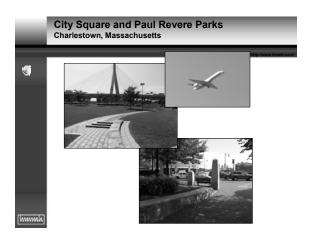












	What has been overlooked?	
	what has been overlooked?	
	http://www.hmmh.com/	
	Soundscape:	
	-	
	All aspects of an acoustic environment	
	All aspects of all acoustic environment	
	The way it is perceived	
	The way it affects the intended use	
	(R.M. Schafer, The New Soundscape, Toronto, 1969)	
	,,	
mmh		
	http://www.hmmh.com/	
	140 1 41 1 4	
	Why is this?	
	,	
mmh		

History of reaction to noise has been regulatory	
http://www.himins.com/	
[lammla]	
History of reaction to noise has been regulatory	
NEPA (1969) and Noise Control Act of 1972	
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http://www.hemiscan/	
NEPA (1969) and Noise Control Act of 1972 Policies and criteria established by federal	
agencies during 1970s: HUD, FAA, FHWA, FRA, FTA	
[hwwh]	

History of reaction to noise has been regulatory

- NEPA (1969) and Noise Control Act of 1972
- Policies and criteria established by federal agencies during 1970s: HUD, FAA, FHWA, FRA, FTA
- · Policies based on quantitative criteria (decibels)

hmmh

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[launaun]a

What's wrong with this approach?

· Follows rather than assists planning process

Follows rather than assists planning process Impact criteria seldom consider: Quality of the soundscape Soundscape's effect on visitor experience Suitability of soundscape for planned uses

•	What's wrong with this approach?
	http://www.hmmh.com/
	Follows rather than assists planning process
	Impact criteria seldom consider: Quality of the soundscape Soundscape's effect on visitor experience Suitability of soundscape for planned uses
	May result in "band-aid" solutions
[hmmh]	

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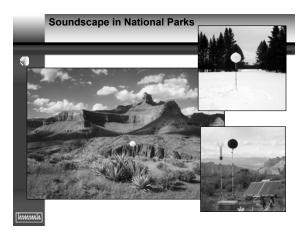
National Parks Overflights Act of 1987



- Preservation of natural soundscape
- Air tours, snowmobiles, personal watercraft



"Natural sounds are part of the special places we preserve. Rustling winds in the canyons and the rush of water in the rivers are the heartbeat and breath of some of our most valuable resources." Robert Stanton, NPS Director 1997-2001





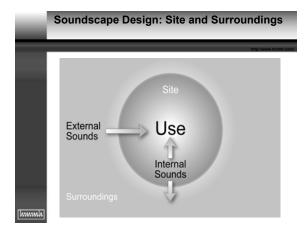
Soundscape – not just for natural areas

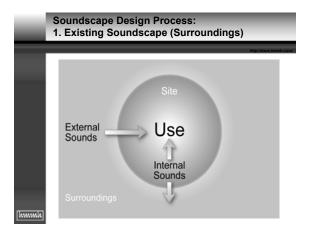
What can we do about it?

What can we do about it? Soundscape Design: An integrated process to evaluate, plan, and improve an acoustic environment

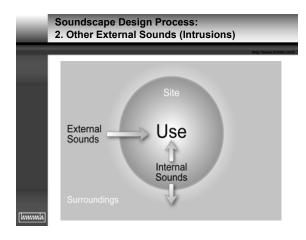
Soundscape Design · Occurs during a project's planning phase Soundscape Design · Occurs during a project's planning phase • Emphasis is on compatibility of uses with environment Soundscape Design · Occurs during a project's planning phase · Emphasis is on compatibility of uses with environment Addresses subjective and aesthetic aspects

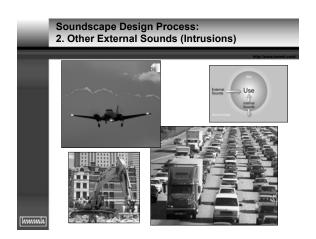
Occurs during a project's planning phase Emphasis is on compatibility of uses with environment Addresses subjective and aesthetic aspects Integrated approach to answer the question: "What should this space sound like?"

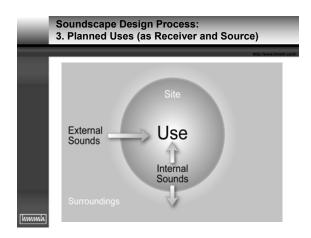




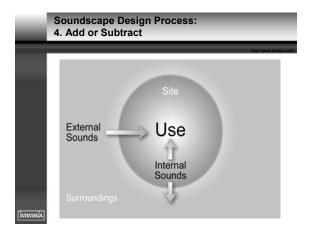












Soundscape Design Process: 4. Add or Subtract The ward bank continued to the continue of the continued to t

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