EPA Smart School Siting Tool: A new tool for engaging community stakeholders in smart school siting decisions

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Today's Presenters

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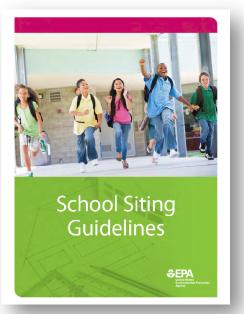
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Agenda

1) Overview of Smart School Siting Tool
 2) Case Studies
 3) Interactive Demonstration

Background Guidelines and Training



School Siting Guidelines

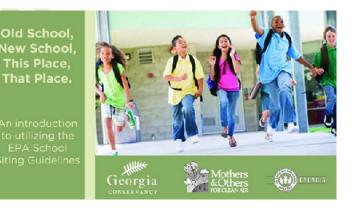
- Meaningful community involvement
- Health, safety and environmental evaluation
- Opportunities to promote environmental justice
- Renovation, upgrade, adaptation and expansion
- Possible sites in overburdened communities
- Multi-modal, active transportation options
- Schools as community hubs
- Comprehensive assessment of costs

www.epa.gov/schools/school-siting-guidelines

Training Modules

- 1-hour and 3-hour professional training modules
- Parent/community modules

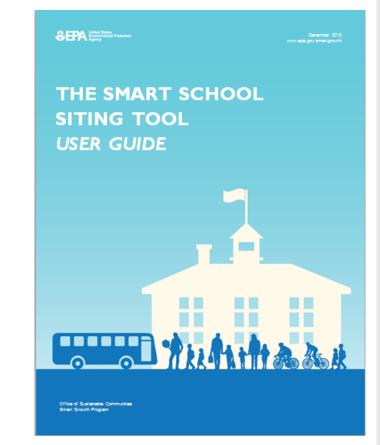
georgiaconservancy.org/schoolsiting



Smart School Siting Tool Key Objectives

The tool is designed to...

- Engage a more diverse group of stakeholders
- Encourage more holistic analysis of opportunities and impacts
- Foster and facilitate collaboration
- Support (not supplant) community decision-making



Smart School Siting Tool Overview

Available at:

http://www.epa.gov/smartgrowth/smart-school-siting-tool

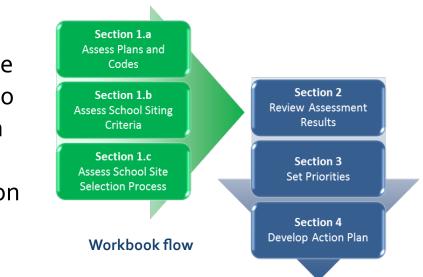
School Siting Timeline

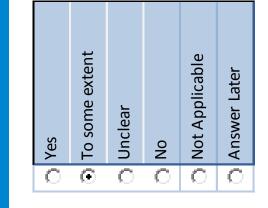
Prepare	Identify need	Evaluate options	Select site
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for siting decision	communities prepare ns by assessing ween school siting and	Site Comparison Resource to help con and evaluate school including renovation new construction	nmunities compare siting alternatives,
5		ool	

Smart School Siting Tool Assessment & Planning Workbook

Design:

- User-friendly downloadable Excel file
- Three assessment sections with ~200 closed ("select one") questions, with space for comments
- Summary, priority-setting, and action planning worksheets





Answer choices

Assessment areas:

- Coordination between school and community plans and codes
- Alignment of school siting criteria and community planning priorities
- Coordination between school siting and community planning *processes*

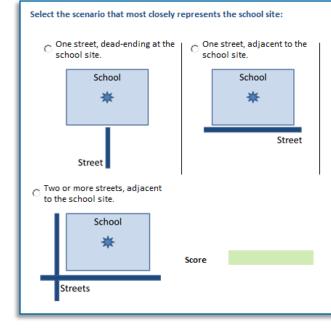
Smart School Siting Tool Site Comparison Workbook

Design:

- User-friendly downloadable Excel file
- Site summary sheet, 5 worksheets with 25 multiple choice questions, and two cost calculators
- High-level and detailed summary sheets



Workbook navigation aid

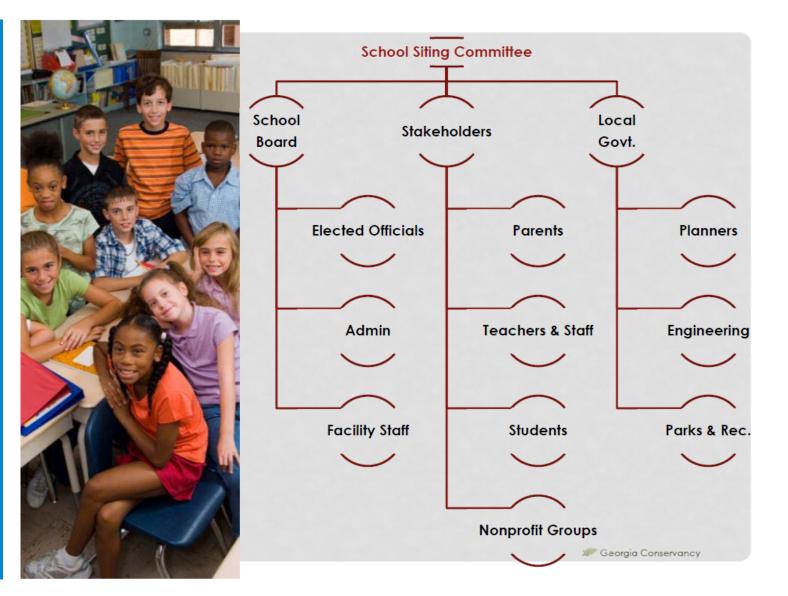


Typical question format

Site comparison factors:

- Proximity to students and population centers
- Location in the community
- Beneficial site characteristics
- Connectivity with the neighborhood
- Bike and pedestrian accessibility
- One-time capital and recurring annual costs

Putting it into Action... Forming the Stakeholder Group



Putting it into Action... Smart School Siting Workshops

Planning & Assessment Workshop

Workbook-facilitated...

- Collaborative assessment
- Facilitated prioritization exercise
- Action planning
- Monitoring agreements

Site Comparison Workshop

Workbook-facilitated...

- Open-ended priority-setting exercise
- Collaborative site assessment
- Facilitated comparative site evaluation



Putting it into Action... Getting Prepared

First Steps

- Enrollment forecast linked to Census data and local economic conditions
- GIS mapping of students and schools
- Facility condition/capacity
- Optimal school size
- Community engagement plan

Case Studies Smart School Siting Tool

Case Studies Part 1

- Planning for Schools in Oregon
- Rosa Parks Elementary

Case Studies Planning Schools In Oregon

Oregon Schools – How We Got Here

- 1990 Measure 5
- 2007 ORS 195.110: School Facilities Plan
- 2007 SB 1036: Construction Excise Tax
- 2013 SB 540: Task Force on School Capital Improvement Planning
- 2015 SB 447: Matching Funds Grant

*Information obtained directly from the laws or measures cited as well as the 2009 report by the The Center For Innovative School Facilities

Case Studies Planning Schools in Oregon

How The Planning Assessment Tool Can Help

- Long-Range Facilities Master Plan & City Comprehensive Plan
- Transportation
- School Siting Criteria & Selecting a Site
- Communicating with Community Planning Policies
- Communicating With Stakeholder Groups

Case Studies Rosa Parks Elementary

Rosa Parks Elementary – Doing It Right

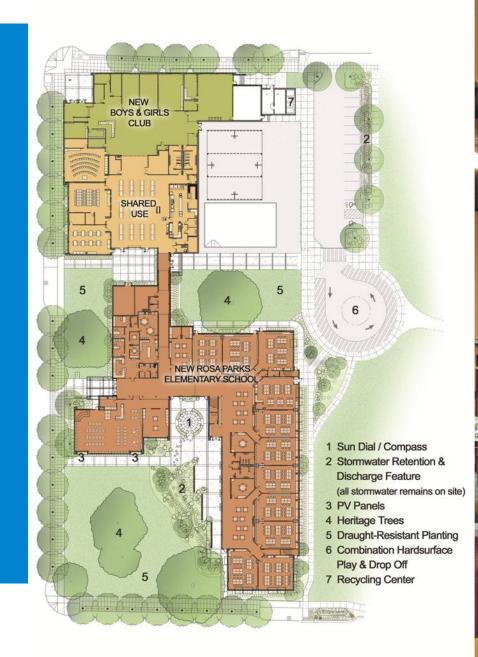
- Housing Authority of Portland
- New Columbia
- A Community Campus
- Partners Boys & Girls Club, Portland Parks & Rec.
- The "Whole Child" Approach

Case Studies Rosa Parks Elementary



Rosa Parks Elementary

Case Studies Rosa Parks Elementary





Case Studies Oregon Schools

How Can The Tool Be Used to Get Us There?

- Who will fill out the tool and how?
 - Must be a joint effort that engages district leaders and planning consultants
- Asking the right questions.
 - Form a planning committee
 - Find Partners
 - Coordinate with the Local Government
 - Communicate with Stakeholders

Case Studies Site Comparison Workbook

Case Studies Part 2

- Franklin Wrong School/Right Location
- Cold Springs Build Where?
- Anaconda School Consolidation





FRANK F Location/ Wrong School

Expanded 5 times in 99 years

Rapidly Changing/Infill Neighborhood

Use of Existing Street Network Franklin Case Study Result

Rebuild New Elementary on Existing Site

- Neighborhood is well defined by 4 major streets, resulting in less than ¹/₂ mile walk to school
- Proximity to city bus service
- Reinvestment in low SES neighborhood
- Two story school uses 0.5 acre, remaining 1.5 acres of open space
- Cost savings associated with existing utilities
- Utilize existing streets for pick-up/drop-off, parking
- Community-based team advocated for alternative that reflected their values



Cold Springs Build Where?

Criteria:

Site Size/Slope/Site Access Proximity to Existing Schools/Homes Neighborhood Amenities (trails, parks, crosswalks, etc) Urban Growth Boundary/Site Utilities Orientation

Hazards

Timing

Lower Miller Creek:

Flat Site

Adjacent dense development Within Urban Growth Boundary

Awaiting Annexation

Least overlap with adjacent attendance area

Marilyn Park:

Sloping site with no access Required swap with developed city park Single neighborhood collector street adjacent Parking challenges

Overlap with adjacent attendance area

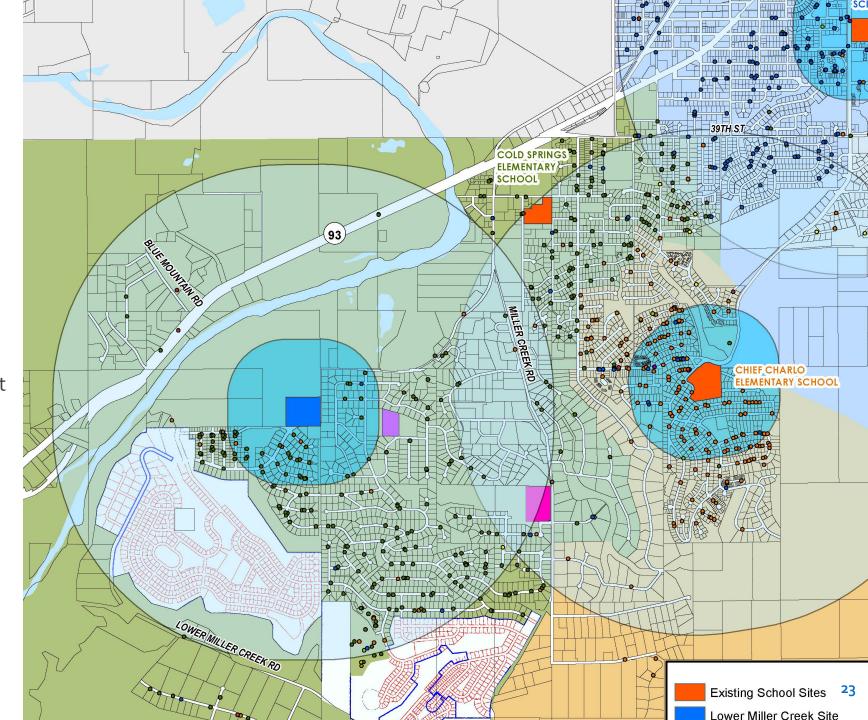
Meriwether:

Large site

Limited access from adjacent street

Major neighborhood collector

Significant overlap with adjacent attendance area



Cold Springs Case Study Result

Rebuild New Elementary on New Site (Lower Miller Creek)

- Within Urban Growth Boundary
- Adjacent fire station, future neighborhood commercial
- Adjacent to two established neighborhoods with trails & parks
- Accessible Site
- City master plan anticipates high density when annexed
- Reinforced need for community engagement



School

Consolidation

ANACONDA

2,000 student decline (60%) n enrollment 1980-2016 onsolidate to FK-8/9-12

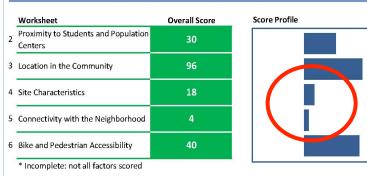
6 school sites

Busy Highway

Proximity

Smart School Siting Tool: Site Comparison Workbook Smart School Siting Tool: Site Comparison Workbook SUMMARY SUMMARY Building & Grounds Planning, Anaconda School District #10 Building & Grounds Planning, Anaconda School District #10 **Lincoln Elementary School** District Administration/PK/VOED School renovation or expansion New school construction 506 Chestnut 1410 Park Avenue West **Key Characteristics** Description **Key Characteristics** Description Existing School Site PK-5 Existing School Site Grades to be served: 3-5 Grades to be served: 254 Planned enrollment: 532 Access to Highway 1 Planned enrollment: • Utilities bisect site • Potential re-use for residential/commercial development . .

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Estimated Costs



* Incomplete: not all cost information available

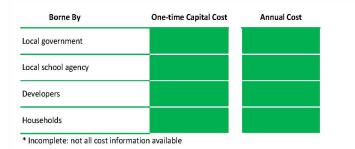
Access on four adjacent streets

Score Profile Worksheet **Overall Score** Proximity to Students and Population Centers 3 Location in the Community

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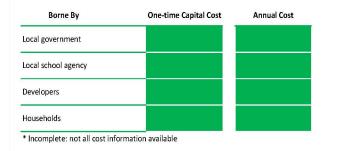


Estimated Costs



Re-use of former school site

Building & Grounds Planni				
	ing, Anaconda School Dis	trict #10		
Mitchell Stadium New school constructior West Fifth Street	ו			
Description	Key Charact	eristics		
	PK-5 • Largest sc	nool site		
Planned enrollment:	600 • Access on	two adjacent	streets	
	 former sit 	e of Washingto	on School	
	 Large share 	ed parking are		
	• Large shar •	ed parking are		
Site Scores (should be co	•	scores genero	28	ate sites)
	ompared against the site Overall	scores genero	ea ated for other candido	ate sites)
Worksheet Proximity to Students and	ompared against the site Overall 42	scores genero	ea ated for other candido	nte sites)
Worksheet Proximity to Students and Population Centers	ompared against the site Overall 42	scores genera Score	ea ated for other candido	nte sites)
Worksheet Proximity to Students and Population Centers Location in the Communit	ompared against the site Overall 42 y 60 36	scores genera	ea ated for other candido	ate sites)



Anaconda Case Study District Admin Option (Busy Highway)

Smart Growth Smart School Siting Tool: Site Comparison Workbook

SUMMARY

Building & Grounds Planning, Anaconda School District #10

District Administration/PK/VOED New school construction 1410 Park Avenue West

Description

Grades to be served: PK-5 Planned enrollment: 532

Key CharacteristicsExisting School Site

nt: 532 • Access to Highway 1

- Potential re-use for residential/commercial development
- ٠

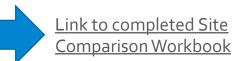
Site Scores (should be compared against the site scores generated for other candidate sites)

	Worksheet	Overall Score	Score Profile
2	Proximity to Students and Population Centers	30	
1	3 Location in the Community	96	
2	4 Site Characteristics	18	
5	5 Connectivity with the 5 Neighborhood	4	
e	6 Bike and Pedestrian Accessibility	40	
	* Incomplete: not all factors scored		



Assessment

- Highway isolates school from most neighborhoods
- Could sell property (location better for commercial use)



Anaconda Case Study Lincoln Elementary Option (Proximity to students)



SUMMARY

Building & Grounds Planning, Anaconda School District #10

Lincoln Elementary School School renovation or expansion 506 Chestnut

Description

Grades to be served: 3-5 Planned enrollment: 254

- Key Characteristics
 Existing School Site
 Access on four adjacent streets
 - Utilities bisect site
 - •

Site Scores (should be compared against the site scores generated for other candidate sites)

_	Worksheet	Overall Score	Score Profile
2	Proximity to Students and Population Centers	96	
3	Location in the Community	84	
4	Site Characteristics	75	
5	Connectivity with the Neighborhood	66	
6	Bike and Pedestrian Accessibility	46	
	* Incomplete: not all factors scored	ł	



Assessment

- Strong proximity, *but*...
- Small site with no open space
- Bisected by utilities
- Pick-up/drop-off challenges
- Parking challenges



Anaconda Case Study Mitchell Stadium Option (Reuse of former school site)

Smart School Siting Tool: Site Comparison Workbook

SUMMARY

Building & Grounds Planning, Anaconda School District #10

Mitchell Stadium New school construction West Fifth Street

Description Key Characteristics

Grades to be served: PK-5 Planned enrollment: 600

- Largest school site
 Access on two adjacent streets
- former site of Washington School
- Large shared parking area

Site Scores (should be compared against the site scores generated for other candidate sites)

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	Worksheet	Overall Score	Score Profile
2	Proximity to Students and Population Centers	42	
3	Location in the Community	60	
4	Site Characteristics	36	
5	Connectivity with the Neighborhood	35	
6	Bike and Pedestrian Accessibility	40	
	* Incomplete: not all factors scored	t	

Assessment

- Re-use of brownfield site
- Re-develop former school site
- Shared use between School/City
- Large site with PK-12 opportunities
- Average scores throughout



Anaconda Case Study Result

Rebuild New Elementary on Former School Site

- Community dialogue regarding values and worksheet results
- Middle of community (less than 1 mile walk)
- Two adjacent streets for access
- Share parking with football/soccer/softball/track &field
- Re-developed brownfield
- Water, sewer, power & data on site
- Sell Administration site for commercial development
- Sell Dwyer to city to expand park
- Sell Lincoln to Head Start/Boys & Girls, retain use of gym
- Revitalize downtown high school facility



Demonstration Site Comparison Workshop 1) Example Scenario

2) Open-Ended School Siting Process

3) Smart School Siting Tool-Facilitated Process

- Priority-setting
- Collaborative site assessment
- Facilitated site comparison process

Demonstration Example Scenario

The Need:

The existing elementary school has exceeded its useful life

- Not a healthy learning environment
- Too small for ballfields and other recreation

The Alternatives:

The school board's siting committee has identified two options

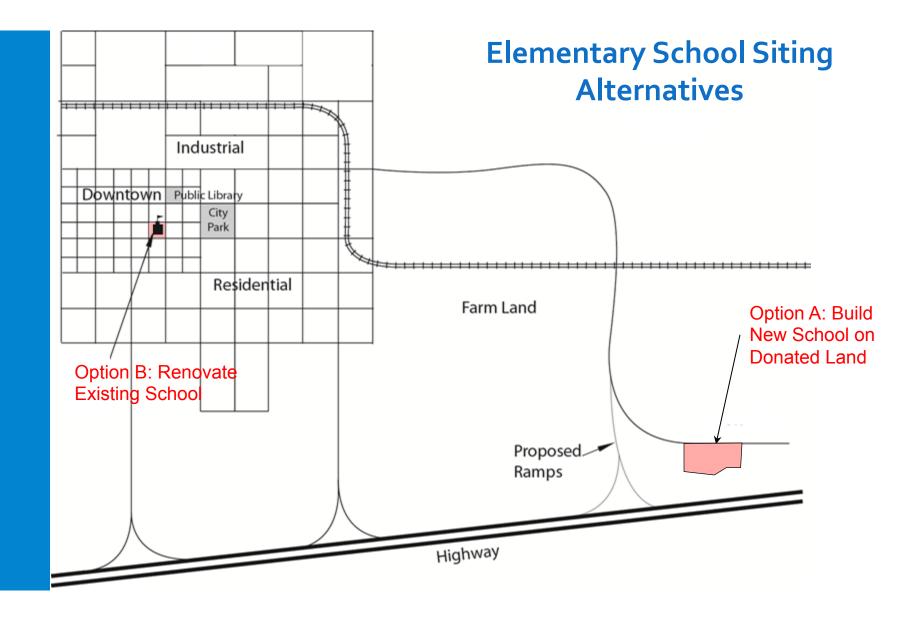
Option A: Build a new school on donated land

• A developer has offered to donate 30 acres of existing farm land to the community with approval of a new housing development

Option B: Renovate the existing school

- Demolish the interior and abate hazards; rebuild as a high performing school
- Identify alternatives to balance on-site recreation and other needs (e.g., parking)

Demonstration Example Scenario



Demonstration Example Scenario

High-Level Summary of Alternatives

	Option A: Build New School	Option B: Renovate Existing School
General description	Build new school on 30 acres to be donated by developer	Renovate existing school; identify alternatives for on-site recreation
Cost Estimate	\$30M (includes site preparation, new construction of building and grounds)	\$35M (includes building renovation, other site construction costs, temporary facilities for students)
Pros	 Plenty of room for ballfields, parking, etc. No land acquisition costs Nice setting Will serve the new development 	 Preserve the "old school" in the downtown No land acquisition costs Close to kids
Cons	Hard to get thereClose to the highway	 Complicated construction, could be disruptive for downtown Not enough room for ballfields Temporary classrooms

Demonstration Open-Ended Siting Decision

(Group Discussion)

- Which option would you prefer?
- Would others in your community agree?
- Why or why not?
- What more would you like to know?
- Who else should be involved in this decision?
- Is the path forward clear?

Demonstration Smart School Siting Process

Reset...

- What are the most important things to consider in this decision?
- What information do we need to gather?
- Who should be involved in this decision?
- How are we going to weigh the pros and cons?
- How are we going to account for differences in opinion?

Smart School Siting approach:

- Engage a representative group of stakeholders
- Establish priorities up front
- Use the Smart School Siting Tool to organize information
- Weigh alternatives using objective information and stakeholderdefined priorities

Site Comparison Demonstration Setting Priorities (Group Exercise and Discussion)

What factors should we consider?	Y/N	What factors are most important?
Proximity to existing students		
Ability to accommodate classroom and other facility needs		
Potential for shared use of school and community facilities		
Consistency with community plans for development		
Contributions to neighborhood quality of life		
Pedestrian accessibility		
Bike accessibility		
Minimal disruption to educational environment		
Minimal disruption to downtown traffic and commerce		
Indoor air quality		
Existing utilities capacity and condition		
Existing road capacity and condition		
Overall initial capital costs		
Overall recurring annual costs		

Site Comparison Demonstration Comparing Options (Group Exercise and Discussion)

Using the Smart School Siting Tool to...

- Gather information
- Organize information
- Compare siting alternatives
- Generate and add to the discussion

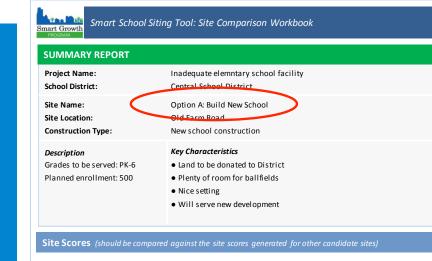
Completing the Tool

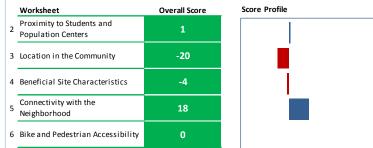
- Next Slide
- Handout

Comparing the options

- What differences does the Smart School Siting Tool highlight?
- What other information should we consider?
- What does the priority-setting exercise tell us?

Site Comparison Demonstration Comparing Options (Group Exercise and Discussion)



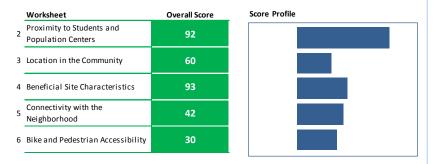




Smart School Siting Tool: Site Comparison Workbook

SUMMARY REPORT	
Project Name: School District:	Inadequate elemntary school facility Central School District
Site Name: Site Location: Construction Type:	Option B: Renovate Existing School Moin Street School renovation or expansion
Description Grades to be served: PK-6 Planned enrollment: 500	 Key Characteristics Reuse existing site owned by the District Close to students Preserves the "old school" downtown

Site Scores (should be compared against the site scores generated for other candidate sites)



Estimated Costs



* Incomplete: not all cost information available

Conclusion Why Use the Smart School Siting Tool

The tool...

- Identifies opportunities and reasons to collaborate
- Includes questions of interest to different stakeholders
- Helps organize and synthesize information
- Helps focus dialogue and facilitate collaboration

То...

- Engage a more diverse group of stakeholders
- Encourage more holistic analysis of opportunities and impacts
- Foster and facilitate collaboration
- Support (not supplant) community decision-making

Next Steps

Disseminate

- Tool available on EPA's Smart Growth website
- Spread the word (webinars, conferences)
- Engage partners nationwide (e.g., state and local school siting decisionmakers, educational facility planners, professional associations)

Pilot the Tool

- Test workbooks
- Test workshop templates
- Capture case studies

Refine and Support

- Refine the workbooks
- Refine the templates
- Update the User Guide with real world case studies

For More Information

The Smart School Siting Tool is available at:

http://www.epa.gov/smartgrowth/smart-school-siting-tool

For more information, please contact:

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