Virtual Community Engagement with D4CR

Green Step Cities Webinar 27 May 2020



Team

Minnesota Design Center Management Team

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Partners

UMN Institute on the Environment UMN Energy Transition Lab UMN Department of Agriculture UMN U-Spatial UMN Extension: Regional Sustainable Development Partners AIA Minnesota More...

Website: https://sites.google.com/umn.edu/d4cr

NW Minnesota Pilot Cities Leaders

Shannon Mortenson City of Warren

Aimee Sugden City of Hallock

Angel Weasner City of Crookston

Presentation Outline

- 1. Introduction
- 2. Community Engagement Objectives
- 3. Equitable and Inclusive
- 4. Broadband/barriers and issues
- 5. Shift in Community Engagement Tactics
- 6. Toolbox for Community Engagement
- 7. D4CR example community engagement initiative
- 8. We invite questions and please share stories about your experiences.

Community Engagement Objectives

Inform/Excite/Connect

Listen

Negotiate/Discuss

Track/ Analyze Progress Toward Goals

Celebrate/Storytelling

Build Social Cohesion and Capacity





Equitable & Inclusive Community Engagement with Data & Decisions

Access : Barriers are removed such as internet access, travel, schedule, childcare, language

Welcome : Community members feel they belong in the conversation, can see themselves represented in the data and decisions

Voice: Community members have a means to have input, and feel their voice is heard by the rest of the community and government.

Goal: Equitable Access, Welcome, and Voice across: Income, language, age (youth and elders), ability, race, ethnicity, mobility, affiliations

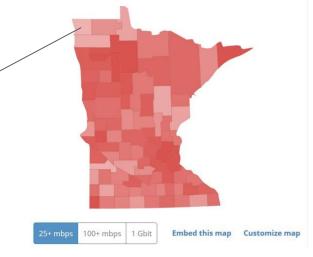
Internet /Broadband Access

Rural Broadband access varies Eg. Kittson County: 44.7% have access to 25mbps /

Affordability and Availability

Strategies

- Drive up hubs, at common community locations
- Mobile hubs brought to neighborhoods
- Kiosk/Food Truck/Hub at Grocery Store
- Mailings/ Flyers
- ...Ultimately: expand access



https://broadbandnow.com



Pre and Post COVID Community Engagement Shift

ENGAGEMENT	FROM	TO PRE COVID	NOW	
Baseball	Local Crowds	Local Crowds and Tourists	No fans and other changes	
City Council Meetings	Council Chambers	Some Cable	Cable and Zoom	
Commissions	Council Chambers	Some Cable	Cable and Zoom	
Task Force	City Meeting Rooms	Just starting with zoom	Zoom	
Design Workshops	Schools, Churches City Hall	Little Change but some on-line	Zoom and Mural	

Tips for Hosting Online Conversation

Set the stage...

Clarify Purpose.

Invite the people who care.

Create a sense of welcome.

Engage during the event...

Reflect and summarize together...

Follow up....

Source: Medium.com Peggy Holman



For more interactive convenings....

Use a digital whiteboard for shared note taking.

Do some pre-work to inform participants

Engage a graphic recorder.



Use a technology that supports interaction

Choose a technology that supports virtual interaction.

Have at least two hosts

Do a dry run

Include information and instructions.

Greet people as they arrive.



Zoom Room

Source: Medium.com Peggy Holman

TOOLS FOR COMMUNITY ENGAGEMENT

Websites

Public Meetings

Booths at Events

Newspapers

Mailings & Flyers (paper or digital)

Kiosks

Parking lots & Cafe's

Zoom Meetings

Social Media (Facebook, Twitter, Instagram, YouTube videos, etc.)

Data/GIS Tools -Open Data Access (eg. Maps) -Crowdsource/ -Surveys -Story Maps -Dashboards/ Hubs

Goal: Equitable Access, Welcome, and Voice across: Income, language, age (youth and elders), ability, race, ethnicity, mobility, affiliations

Listen/Connect: Crowdsource

Traditional Methods Facebook, Social Media, Idea Boards

GIS Crowdsource apps, Easily relate content to location

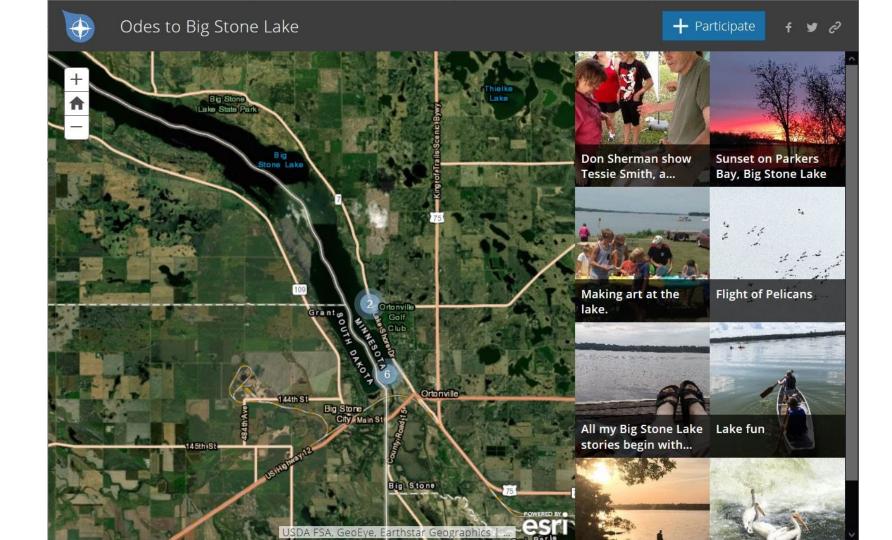
View others' contributions, build momentum, excitement

Example: Crowdsource Story Map "Odes to Big Stone Lake" for sharing appreciation of lake memories to encourage lake identity and stewardship.



How do you love the lake? Share a photo and a memory, story, poem or any words of appreciation or connection to Big Stone Lake. Your entry will build a community story map. Enter more than once and share with friends.

	Drag and Drop
	or Click to pick a file
Title *	
Enter a title	
Location *	
Enter the loo	ation
🔂 Locate Me	💡 Find on Map
Your Story (8	& Name, Optional) *
Share vour s	tory, and add your name (name optional) (200 words or fewer please



Listen: Surveys

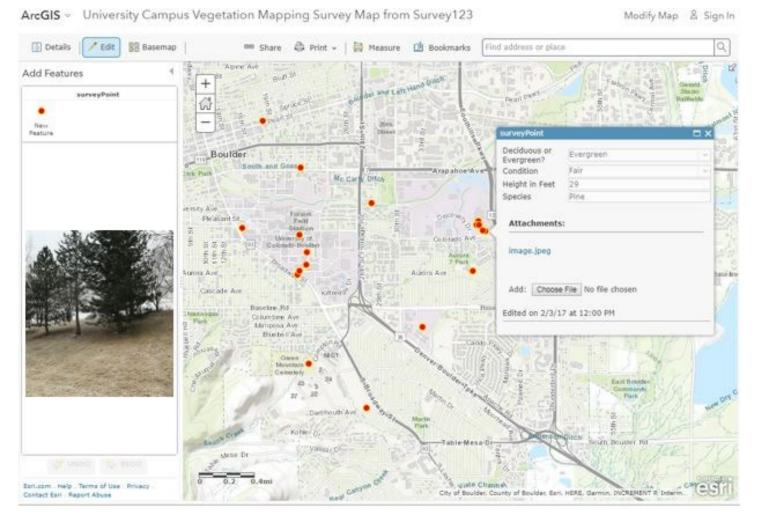
Traditional Methods

Mailed paper surveys, distributed at events, digital surveys google, survey monkey, etc.

GIS survey 123: Can integrate with location based data,

MN GreenStep Schools Interest For	m
For questions on this form, contact <u>mngreenstepsch@umn.edu</u> For more information about the program, please see the MN GreenStep School www.mngreenstepschools.org	s website:
* Required	
articipation Types	
District School Team Member Organization	
lease choose the participation type you are interested in. *	
District (fill out contact information for district contact person)	
School (fill out contact information for school contact person)	
Team Member (For any individual from a district, school, resource or independent)	ganization, or
Resource Organization (fill out contact information for organization o	ontact person)

Google Forms Example: https://goo.gl/forms/zFWjgA3wF8pX6MDe2

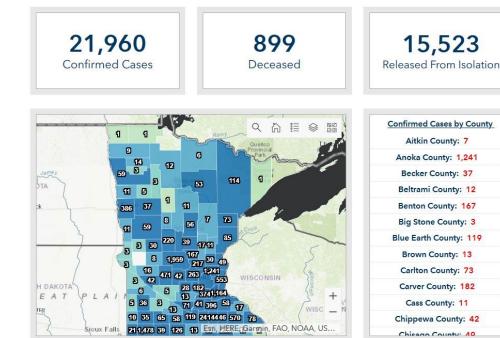


Monitor and Analyze: Dashboards

GIS Dashboards can

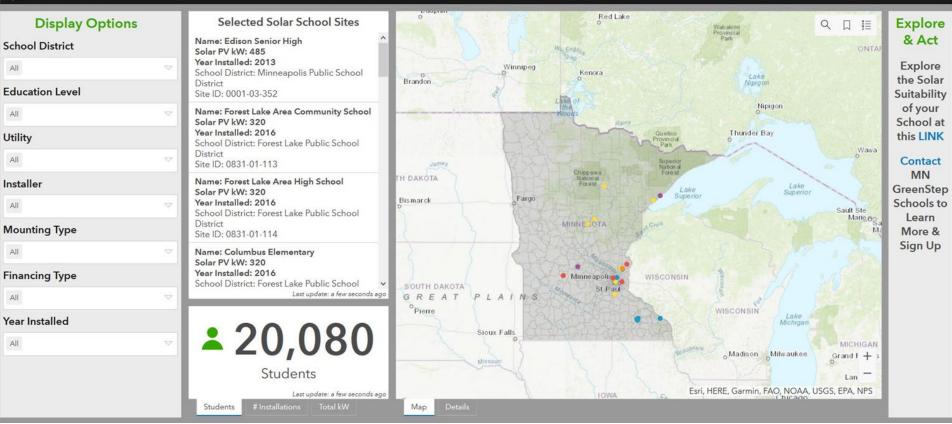
- Display and compare types of outcomes
- Allow residents to relate data to their locations of interest
- Enable residents to customize displays and query data

COVID-19 Dashboard: Data on Minnesota Cases



When viewed on a smartphone, select bars to view chart labels.

🦸 Minnesota GreenStep Schools - Solar on Schools Map Dashboard (prototype in progress)



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Celebration/Storytelling - Story Maps

Traditional Methods:

Receptions/ Celebration Events,

Final Reports, Videos

Websites

GIS Story Maps

Can integrate multimedia storytelling and data

Can grow with a project over time



GIS Story Map Example





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What is a watershed?

A watershed is composed of all the land that connects and brings water to a single waterbody, like a lake, river, or stream.

Watersheds come in all shapes and sizes, determined by both above and underground landscape structure.

The flow of water within the watershed is strongly affected by the features of the land, such as how flat or hilly it is, if structures exist that change the direction or rate of water flow, and whether human modifications to the land have made an impact or change to water flow.

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"Oh, I definitely recommend it to anybody. Just fence off a small portion of your land and make it better downstream for the next guy." - Robert Rustad, Landowner

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Stories of Stewardship 000 ... Vermilion River Watershed 860 square kilometers of land that contributes rain water and snow melt into the Vermilion River



This Beaver County landowner recognizes that *Keeping cattle out of the river is a win-win deal," for both his Having had livestock get stuck in the mud before he moved ahead with a fencing and offstream watering project. Fencing not only prevents bank erosion and keeps the river from being ontaminated the landowne noted, but also, "cattle do betto with fresh water access."





Stronger community partnerships

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Throughout the course of the VRWREP the VRWA worked hand in hand with over 30 watershed landowners, seven urban and rural municipalities. provincial and federal government many non profit organizations, and multiple members of the community. The projects implemented through this program were truly a collaborative effort

Stories of Stewardship Story Map, Vermilion River Watershed Alliance & North Saskatchewan Watershed Alliance, https://storymaps.arcgis.com/stories/87f9d8acf48441c7af1f3b3c5dabd14e

Community Hubs

A one-stop location to find information on an initiative and engage with it.

Traditional Methods: Webpage on a city website with links

GIS Community Hub Could be linked from city website Resident accounts, or view anonymously, Can manage open data sharing (eg. maps), Community input, dashboards, Event registrations, multimedia, stories



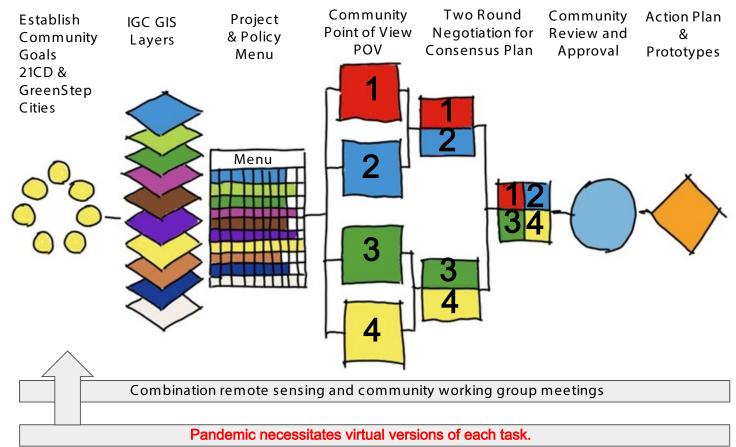
ESRI: ArcGIS Hub: Community Engagement Dashboard

D4CR

Design for Community Regeneration (D4CR) catalyzes greater resilience in rural,peri-urban, and urban communities in Minnesota by bringing an interdisciplinary Minnesota Design Center D4CR Team to generate statewide redevelopment of underutilized land to address 21st Century Grand Challenges.



D4CR Geodesign Process



Community Regeneration





	Standard	Good	Better	Living Community Principles	Regenerative
Real Place	0	0	0	0	0
🖒 Water	0	0	0	0	0
4 Energy	0	0	0	0	0
Health + Happiness	0	0	0	0	0
Se Materials	0	0	0	0	0
Equity	0	0	0	0	0
Beauty	0	0	0	0	0

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MN GreenStep Cities

Resilient Economic and Community Development



24. Benchmarks and Community Engagement

Adopt outcome measures for GreenStep and other city sustainability efforts, and engage community members in ongoing education, dialogue, and campaigns.

https://greenstep.pca.state.mn.us/



Home About Best Practices Steps 1-5 Recognition All Cities Ordina

Best Practice

GreenStep City Best Practices: Resilient Economic and Community Development

Benchmarks and Community Engagement {BP No. 24}

Adopt outcome measures for GreenStep and other city sustainability efforts, and engage community members in ongoing education, dialogue, and campaigns.

Best Practice Actions

 Use a city commission, or committee to lead, coordinate, and report to and engage community members on implementation of sustainability best practices.

2. Organize goals/outcome **measures from all city plans** and report to community members data that show progress toward meeting these goals.

 Measure and report progress on sustainability indicators including energy use/greenhouse gas emissions, social vitality/social inclusion outcome measures.

4. Conduct or support a broad sustainability **education and action campaign** involving:

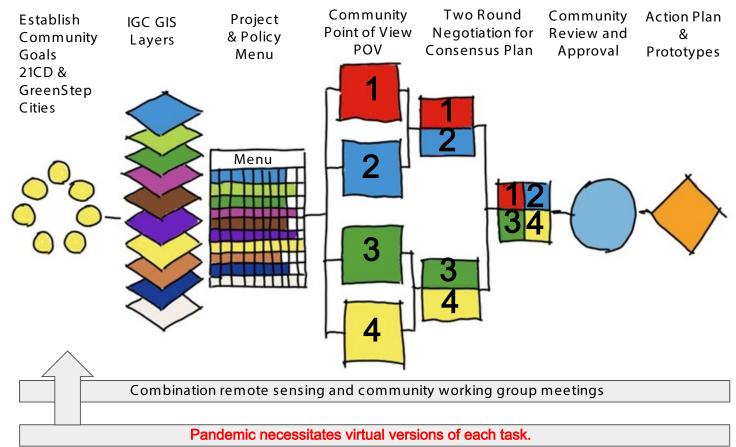
MN GreenStep Schools

MN GreenStep Schools



Map of Interested schools, cities, and organizations www.mngreenstepschools.org

D4CR Geodesign Process





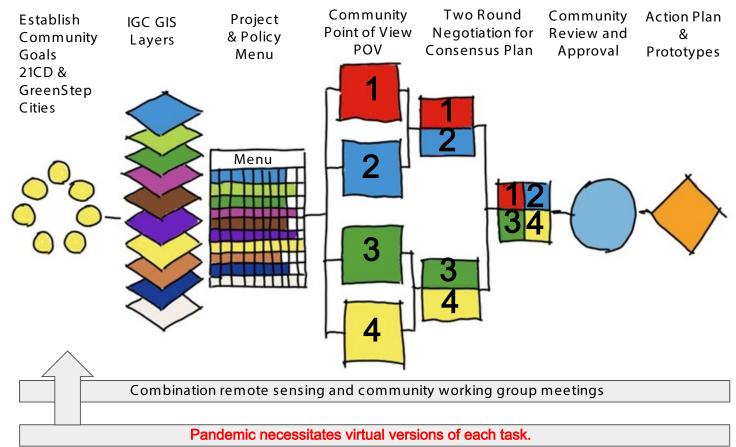
INTERNATIONAL GEODESIGN COLLABORATION Changing Geography by Design

Water Infrastructure	RGB: 113 184 255	RGB: 175 215 255	Ocean, Rivers and Lakes
		RGB: 113 184 255	Water supply, treatment, recycling
Agriculture	RGB: 194 230 153	RGB: 194 230 153	Agriculture
		RGB: 120 198 121	Forestry
Green Infrastructure	RGB: 49 163 84	RGB: 49 163 84	Recreation
		RGB: 0 104 55	Conservation landscape
Energy Infrastructure	RGB: 205 50 155	RGB: 225 140 200	Energy production
		RGB: 205 50 155	Energy distribution
Transport Infrastructure	RGB: 90 90 90	RGB: 90 90 90	Rail, airport, ship port transport
		RGB: 55 55 55	Road transport
Industry and Commerce	RGB: 116 45 159	RGB: 175 111 215	Industry – light, and Commerce
		RGB: 116 45 159	Industry - heavy
Institutional	RGB: 36 73 110	RGB: 255 230 153	Residential - Rural
		RGB: 255 204 0	Residential - Low Density
Residential, mixed	RGB: 218 128 28	RGB: 218 128 28	Residential - Medium Density, Mixed
		RGB: 132 60 12	Residential - High Density, Mixed
		RGB: 59 119 179	Institutional - Government, Military
Two flexible systems:	RGB:	RGB: 36 73 110	Institutional - Education, Healthcare
Choose additional systems from column at		RGB: 235 130 125	Commercial, Offices
right or specify new	RGB:	RGB: 222 45 38	Commercial, Shopping
system and add RGD color code		RGB: 0 166 162	Tourism, Cultural
color code		RGB: 0 102 102	Tourism, Historical
		RGB: 225 182 113	Special landscape e.g. Desert,
		RGB: 115 155 50	Special landscape e.g. Mangrove



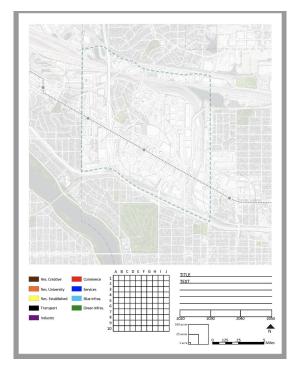
geodesigncollab@gmail.com http://www.igc-geodesign.org

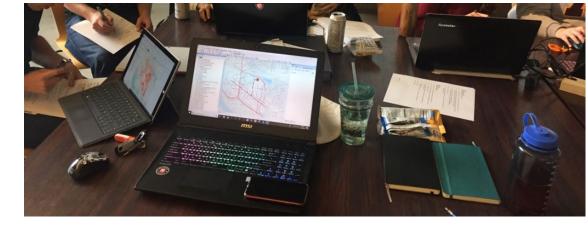
D4CR Geodesign Process





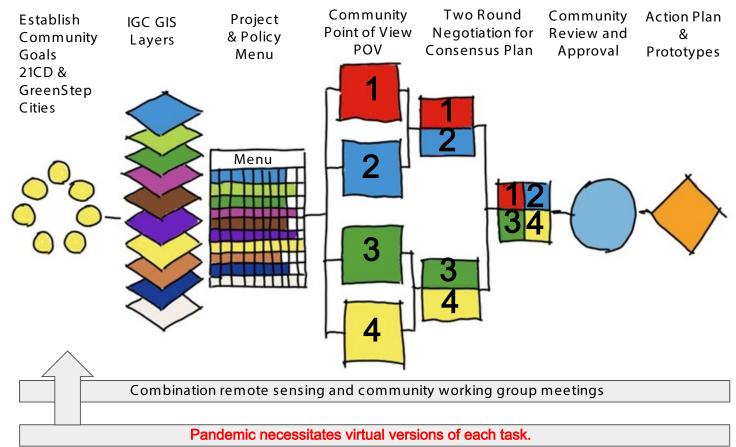
Menu items





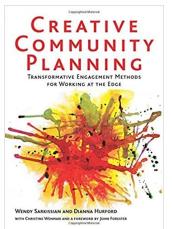


D4CR Geodesign Process



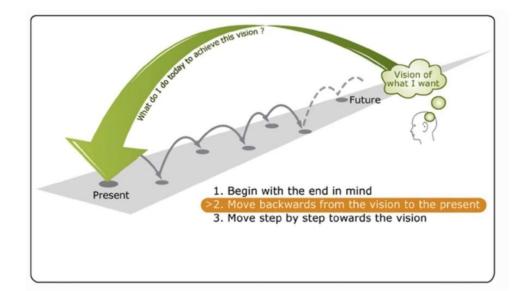
Creativity, Design, Art, Games, Play

Eg. Backcasting - imagining a desired future, without yet knowing how to get there.



"Heartstorming: Putting the Vision Back into Visioning"

Sarkissian, Wendy, et al. Creative Community Planning: Transformative Engagement Methods for Working at the Edge. Earthscan, 2010.



The backcasting process from the Natural Step

Bibri, S.E., Krogstie, J. A scholarly backcasting approach to a novel model for smart sustainable cities of the future: strategic problem orientation. *City Territ Archit* **6**, 3 (2019). https://doi.org/10.1186/s40410-019-0102-3 **21CD** twenty-first century development

	tion at		1		
	Standard	Good	Better	Living Community Principles	Regenerative
Real Place				0	0
🖒 Water			0	0	0
4 Energy					o
Health + Happiness				0	0
S Materials			0	0	0
Equity				0	0
Beauty					0
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Probable financial limitations.

Probable limit due to policy restrictions.



Contact:

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Website: https://sites.google.com/umn.edu/d4cr





Questions?

Experiences?



Interest Survey

Use our survey to express your interest in D4CR, whether you are a city that wants to explore participation, want to provide input, partner, or fund the project, or if you'd just like to connect and be on our mailing list. See who else has signed up on the map below.

Use the QR code or this link: https://arcg.is/1aCLav



