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An Overview of Platforms to Support Online GMB

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METHODS BRIEF SERIES 2.02

The COVID-19 pandemic ushered in the new reality of remote working and learning, forcing group model building practitioners to make an abrupt shift to online workshops. Like our peers, the Social System Design Lab (SSDL) at Washington University in St. Louis confronted this challenge by exploring what tools existed for adaptation and continued collaboration. The shift has not been easy, but it has revealed new insights that suggest areas to leverage the strengths of online GMB long after the pandemic comes to an end.

The purpose of this brief is to review a number of online platforms that group model building practitioners have used since the rise of remote work, and to suggest promising combinations for groups who are hoping to implement their own online system dynamics work.

+ CONSIDERATIONS

Group Model Building (GMB) workshops present a distinct set of challenges from other meeting formats. Unlike webinars, staff meetings, or focus group discussions, GMB workshops convene individuals from different positions and/or organizations to reflect on their own assumptions and beliefs and to collaboratively develop maps and models that achieve system insights.

At in-person GMB workshops, a team of facilitators can choreograph a session that leverages the participants' common experiences, expectations, and norms of in-person collaboration and learning. However, online GMB workshops often exist in new spaces where participants have limited prior experience and established norms. It's difficult to directly translate the coordination and choreography of in-person workshops to virtual settings (see Brief 2.1 for an overview of opportunities and challenges that facilitation teams can consider when facilitating online GMB workshops). Choosing an appropriate online platform can help the facilitation process and alleviate some of these challenges.

Online collaboration platforms offer a variety of different tools and services (see table below), and while trial and error present one way to determine which platform to use, it can be helpful to choose a platform based on the specific activities and goals of the online session.

Some questions that facilitators and core modeling teams may take into consideration include:

- What is the primary purpose of the chosen SD activities? Is each activity divergent (generating many different ideas) or convergent (coming together around an idea)? Does the platform have functions to support these intended purposes?
- Is it likely that people know and/or have experience with this platform already? This may lessen the amount of time that you need to spend providing platform-specific training. On the other hand, if people aren't familiar with the platform, it is important to think about how long it might take someone to learn and get comfortable using the necessary features.
- What is the group's capacity in using multiple platforms? Many of the platforms work independently of each other. If the standard is to work in Zoom and complement its functionality with another platform, it is important to consider the choreography of switching between platforms. Facilitation teams should be large enough in order to have the capacity to navigate and troubleshoot the platforms. Facilitation teams should also be aware of what capacity participants have in terms of navigation, as it may be impossible for a participant to engage on multiple platforms if they are using a mobile device or tablet.
- What is the group's willingness to try a new platform? Different groups have different comfort, energy, and patience levels in trying new platforms. What are the norms of this group? Will participants be excited to learn a new platform they can integrate into their work beyond the session? Or will participants be frustrated by the prospect of taking time to learn something new?
- What accessibility features will you need to engage all participants? Different platforms have different accessibility features from live captioning to compatibility with assistive technology, etc. Some platforms require an account or log-in, have differing capabilities in the free vs. paid versions, or are only compatible with certain operating systems. Some platforms require more internet bandwidth than others. What features will meet the needs of your participants?

+ EXPLORATION OF EXISTING PLATFORMS

Over the past year plus, online platforms for collaboration have proliferated. Some organizations are using platforms that have been around for a while, such as Google Slides and WhatsApp, in order to collaborate, while other groups have needed to explore options for more specific or expansive online tools. The table on the following page provides an assessment of some of the most common online collaboration platforms and their correspondence with the most common online GMB workshop features.

+ PROMISING COMBINATIONS

While each platform provides an independent set of tools and facilitation features that can support online GMB, the SSDL has had positive experiences using multiple platforms at the same time in order to enhance information sharing, accessibility, and engagement. Some promising combinations we've used over the past year include: Zoom and Google Slides; Zoom and Miro or Mural; Zoom, Google Slides, and Mentimeter; and, for asynchronous work – Google Drive or Microsoft Teams and Padlet.

Even as the frequency of online sessions fluctuates in the months to come, online GMB is likely here to stay in some forms. Best practices and online platforms that are available to researchers, practitioners, and community members will continue to proliferate and change how communities learn about and engage in system dynamics exploration and modeling. We hope that this brief provides a jumping off point for exploring what is possible in the realm of online GMB and hope that communities of practice can continue to add, edit, and expand on the initial content provided here. *Note: the information in this table was current as of Fall 2021*

Mentimeter

Yes

Google Slides



An online presentation app allowing users to create and format slide decks and collaborate with other users

Create and present

slide decks as one

collaboration with

Business Starter -

Business Standard

- \$12/user/month;

Business Plus -

\$18/user/month

Simultaneous editing

media content) by all

Presentations, GMB

Activities, Some

Modeling

(text, drawing,

users, leave

presentation

integrating other

comments within

\$6/user/month:

user or in

others

A hub for team video-

Yes

collaboration with conferencing, document sharing, and chat features

Microsoft

Teams

Video calls and screen sharing are available, but limited to 60 minutes

Microsoft 365 Business Basic -\$5.00 per month/user; Microsoft Business Standard - \$12.50 per month/user

Screen sharing, meeting recording, divide users into channels, chat with users, make calls to users, integrates with online Microsoft tools

Presentations, Discussion

Kaltura - EdVP



A tool for sharing large video files and creating activities related to videos (e.g., quizzes, screen recording)

Not EdVP: there is a free Kaltura Community tool

Community Edition (free version) is primarily used for video management, publishing, collaboration and sharing

Plans and costs are customized for user team; no standard pricing and usually sold in an organizational package

Develop activities based on videos hosted on EdVP video guizzes, screen recording

Presentations

Kumu



A platform for

collaboratively

(including CLDs)

All projects public,

can transfer maps

into Kumu-based

presentation; no

can be view-only

\$10/month per

workspace with

\$20/month per

private project

(public projects

free); EDU discounts

Project owner can

& feedback on

unfolding

invite collaborators

certain parts of the

map; can develop

presentations to

share publicly

Presentation,

Activities

Modeling, GMB

unlimited users +

collaborators, none

limit on project

Yes

A platform that offers tools for interactive creating complex presentations (e.g., relationship maps live polls, quizzes, word clouds) and presentations

Yes

All tools are available, but free users are limited in how many activities they can create and embed into

Basic -\$9.99/month; Pro -\$24.99/month; EDU discount available

presentations

Can integrate the following into presentations – Live polling, word cloud, quizzes, Q&A; compatible with Microsoft Teams

Presentation, Brainstorming + Some Divergent **GMB** Activities

Miro



An online whiteboard platform where users collaborate for brainstorming and visualization projects

Yes

Max of 3 editable boards, public only, access to premade templates, link sharing with users is allowed

Team (2+) - \$8 per month/user: Business (5+) - \$16 per month/user; EDU discount available

Facilitators can: time or hide features, bring users to one board area. Users have simultaneous editing & can comment on features post-workshop

Presentations, GMB Activities, Modeling

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						1100
	Mural	Loopy	Google Jamboard	Padlet	Zoom	MindMeister
Platform	M	L P Y a tool for thinking in systems		padlet	Zoom	
Platform Description	An online collaboration platform where teams can brainstorm & do data visualization/design thinking	A tool for systems thinking that allows users to draw and animate causal loop diagrams	A tool for visual collaboration where users can interact and share ideas	An online bulletin board tool with a number of different layouts for collecting ideas and information	Real-time video conferencing with break-out rooms, screen-sharing, chat, survey, and annotation tools	An online mapping tool made to capture, developed, and share ideas visually.
Free Version Available?	Yes	Yes	Yes	Yes	Yes	Yes
Capabilities of Free Version	Without education access, free trial only last for 30 days	Tools for CLD creation: variables with different colors, labels/text boxes, and arrows; animation of loops	Create virtual whiteboards with drawing and sticky note capabilities	All layouts are available for free users; maximum of three boards, all public	Meeting features are available for all levels, but there are participant (100) limits and time limits (40 minutes) for free accounts	Create and store up to 3 mind maps; some features are not available unless user has paid subscription
Cost of Paid Subscription	Starter (1+) - \$12 per month/user; Plus (10+) - \$20 per month/user; Free for university staff and students with application & approval	None (Program is open source and public domain)	Business Starter - \$6/user/month; Business Standard - \$12/user/month; Business Plus - \$18/user/month	Padlet Pro Individual \$8/month; Padlet Backpack for schools - \$2000/year; Padlet Business - \$12 per month/user or \$99 per year/user	Pro - \$149.90 per year/license; Business - \$199.00 per year/license	Personal - \$4.99 per month/user; Pro - \$8.25 per month/user; Business - \$12.49 per month/user; EDU discount available
Facilitation Tools	Laser pointers + timers, facilitators can hide features & bring all users to one area. Private mode for individual work, with public share options	Works on tablets, link sharing (but not same-time collaboration) and ability to embed into website	Write, draw, and add notes	Users can add any file type to a Padlet board; participants can edit simultaneously	Breakout rooms, meeting recording, live closed captioning, chat feature, screen share and annotation	Create maps and share with other users, users can make comments
Recommended SD Application	Presentations, GMB Activities, Modeling	Demos, GMB Activities, Some Modeling	Presentations, GMB Activities, Some Modeling	Some GMB Activities	Presentations, Discussions, Chat, Some GMB Activities	Some GMB Activities

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The content for this method brief is drawn from (1) the authors' reflections and experiences facilitating online GMB workshops from Spring 2020 to Summer 2021; (2) Learning from other practitioners, including Wilkerson et al (2020), Zimmerman et al (2021) and conversations with colleagues through regular community-engaged system dynamics community of practice calls; and (3) Participant survey responses in pre- and post-surveys that were administered after platform testing workshops conducted by Lucy Chin and Min Hu at the Social System Design Lab throughout the 2020-2021 academic year.

+ SOURCES

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+ ABOUT THE SERIES

Social System Design Lab Methods Briefs are short, digestible notes on applications of system dynamics and systems thinking in community settings. They are meant to capture and share out our current thinking on core ideas related to the practice of system dynamics modeling in community and organizational settings.

"Series 2: Online Group Model Building" focuses on sharing reflections and lessons learned from a year of experimenting with, testing, and facilitating online group model building workshops during the COVID-19 pandemic. Briefs in this series include:

- Online GMB: Challenges, Opportunities, and Barriers | 2.01
- An Overview of Platforms to Support Online GMB | 2.02
- Facilitation Team Roles in Online GMB | 2.03
- Engagement and Relationship Building in Online GMB | 2.04

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