

The toolkit is for "designers" including:

- government officials charged with making decisions about the future of neighborhoods and urban infrastructures;
- entrepreneurs developing the digital platforms, products and services that will enable new ways of experiencing cities;
- technologists and hackers developing applications using publicly available data sets;
- scholars, activists, and artists who question, critique, and raise awareness of the implications of adopting digital technologies; and, most importantly,
- citizens of digital cities everywhere.

By creating spaces and formats that support and enable citizen engagement, we can re-imagine the possibilities for embedding digital technologies in urban environments for the public good.

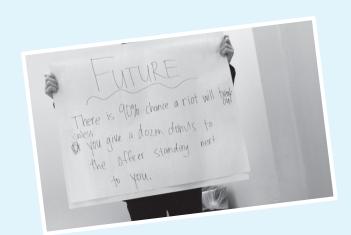
Designing Policy Workshop Format

We designed a five-hour workshop to introduce these concepts to stakeholders in different cities. Each workshop included approximately 30 participants, with five to six people per group. Participants included policymakers, business leaders, technologists, activists, and academics. Following initial introductions, the workshop focused on hands-on exercises in which groups moved through a design process from brainstorming to prototyping, as well as the presentation and critique of outcomes. Design artifacts, such as large-format paper with prompts for the various stages of the process, were helpful for structuring the workshops, along with the support of facilitators who guided participants through the activities.

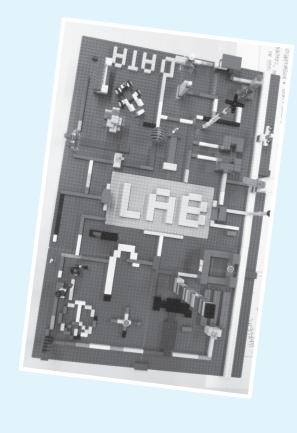












Contextualizing the Discussion (20 minutes)

First, we invited people to talk about their own neighborhoods in order to contextualize the discussion in the lived experience of the city. Next, we asked each group to choose a neighborhood to focus their discussion on designing for a specific community. Finally, we asked the groups to draw a map (geographical or metaphorical) of the neighborhood they selected, pointing out important sites of community interaction, such as where people typically hang out.



Developing a Shared Understanding (20 minutes)

> First, each group received a value card, which was placed on the table. We deliberately avoided the values that are typically associated with urban technology, such as privacy and security or efficiency and innovation. Instead, we substituted values that we thought would spark a more generative and critical discussion, including romance, serenity, telepathy, serendipity, creativity, borderless, and invisible. Next, we asked each group to discuss what the value meant to them, and to tell a personal story about the value. Finally, we asked them to discuss the ways in which they might embed the value (or their group's reframing of it) into their city.

If the city were designed around this value, what kind of city would it be?



Brainstorming and Prototyping |2 hours|

In this section, participants used a "design fiction" approach by orienting their discussions towards designing for a future-city scenario — at least 25-30 years into the future. The purpose of the future orientation is to remove the limitations and constraints of our everyday lived experiences in order to encourage creativity and openness to new ideas.

First, each group brainstormed projects, platforms, and services that respond to and build on the ideas around values explored in the previous discussion. In this section, we asked the groups to focus on coming up with as many ideas as possible without judging their feasibility, and making the ideas tangible and visible through sketches, notes, and diagrams. Next, we asked the groups to choose one of their ideas to prototype, and to select one of three formats in which to represent their prototype: interactive scenarios, multi-layered maps or Lego models. Through the creation of the prototype, groups had to think through the complex opportunities and tradeoffs embedded within their ideas and bring their ideas to life.

Presenting and Critique |1 hour|

At the end of the workshop, we asked the groups to present their prototypes by acting out or describing their process and ideas. Workshop participants then took part in a facilitated "design critique" conversation in which they provided feedback about the prototypes. The purpose of the critique is not criticism, but rather to help the project move forward towards a shared goal. We guided participants to begin their critique with positive feedback, next discuss limitations and finally, end with alternatives and proposals that might move the project forward.



Acknowledgements

We hope to inspire the world's current and future urban leaders to seek collaborative and participatory codesign approaches to understanding, analyzing, and re-imagining the relationships between complex sociotechnical systems in their cities. We encourage the use of this toolkit in planning discussions and workshops on the future of: technology and infrastructure, health and environment, arts and culture, housing and the built environment, education and training, and other pressing urban issues.

We would like to thank the Urban Communication Foundation for their support of this research, as well as the participants and facilitators that contributed to the workshops. In addition, we would like to acknowledge the Institute of Design at Illinois Institute of Technology, the Centre for Social Innovation and Emerson College for providing workshop venues.

Designed by Laura Mattis (ID MDes'14) Edited by Alisa Weinstein (ID MDes'13) For more information, see http://designingpolicytoolkit.org.



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policymakers and entrepreneurs to activists and academics, in hands-on Where does your city want activities using open and participatory to go in the next 50 years? codesign methods. This toolkit illustrates

The Designing Policy Toolkit is the result of a research project conducted over one year by Laura Forlano and Anijo Mathew, assistant professors at the Institute of Design at Illinois Institute of **Technology**, and funded by the **Urban Communication Foundation**.

Forlano and Mathew held a series of the ways in which urban technologies workshops focused on urban technology are embedded with values, as well as in three major metropolitan centers how codesign methods enable diverse in the United States: Chicago, New stakeholders to come together around York, and Boston. The workshops the complex sociotechnical questions engaged a range of stakeholders, from that are shaping everyday life in cities.

